



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

## Solicitation

NUMBER

0514089

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF

ALAN CUMMINGS  
304-558-2402

RFQ COPY

TYPE NAME/ADDRESS HERE

V  
E  
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R

DIVISION OF HIGHWAYS  
DISTRICT FIVE  
P.O. BOX 99

BURLINGTON, WV  
26710

304-289-3521

DATE PRINTED

10/09/2013

BID OPENING DATE: 11/06/2013

BID OPENING TIME 1:30PM

| LINE | QUANTITY | UOP | CAT. NO. | ITEM NUMBER                                                                                                                                                                                                                                    | UNIT PRICE | AMOUNT |
|------|----------|-----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|
| 0001 | 1        | SF  |          | 210-16                                                                                                                                                                                                                                         |            |        |
|      |          |     |          | PRESTRESSED CONCRETE BOX BEAMS                                                                                                                                                                                                                 |            |        |
|      |          |     |          | REQUEST FOR QUOTATION<br>(ONE-TIME PURCHASE)                                                                                                                                                                                                   |            |        |
|      |          |     |          | THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE<br>AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS<br>SOLICITING BIDS TO PROVIDE THE AGENCY WITH PRESTRESSED<br>CONCRETE BOX BEAMS WITH ACCESSORIES PER THE ATTACHED<br>SPECIFICATIONS. |            |        |
|      |          |     |          | ***** THIS IS THE END OF RFQ 0514089 ***** TOTAL:                                                                                                                                                                                              |            |        |

SIGNATURE

TELEPHONE

DATE

TITLE

FEIN

ADDRESS CHANGES TO BE NOTED ABOVE

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

## **INSTRUCTIONS TO VENDORS SUBMITTING BIDS**

1. **REVIEW DOCUMENTS THOROUGHLY:** The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
2. **MANDATORY TERMS:** The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.
3. **PREBID MEETING:** The item identified below shall apply to this Solicitation.



A pre-bid meeting will not be held prior to bid opening.



A **NON-MANDATORY PRE-BID** meeting will be held at the following place and time:



A **MANDATORY PRE-BID** meeting will be held at the following place and time:

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing. Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in, but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. **VENDOR QUESTION DEADLINE:** Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are non-binding.

Question Submission Deadline: 10/30/2013

Submit Questions to: Alan Cummings

2019 Washington Street, East

Charleston, WV 25305

Fax: 304-558-3970

Email: Alan.W.Cummings@WV.Gov

5. **VERBAL COMMUNICATION:** Any verbal communication between the Vendor and any State personnel is not binding, including that made at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.
6. **BID SUBMISSION:** All bids must be signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The bid delivery address is:

Department of Administration, Purchasing Division

2019 Washington Street East

Charleston, WV 25305-0130

The bid should contain the information listed below on the face of the envelope or the bid may not be considered:

**SEALED BID**

BUYER: Alan Cummings

SOLICITATION NO.: 0514089

BID OPENING DATE: 11/06/13

BID OPENING TIME: 1:30 P.M.

FAX NUMBER: \_\_\_\_\_

In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus n/a convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE: ☐ Technical  
☐ Cost

7. **BID OPENING:** Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when time stamped by the official Purchasing Division time clock.

Bid Opening Date and Time: 11/06/2013 - 1:30 P.M.

Bid Opening Location: Department of Administration, Purchasing Division  
 2019 Washington Street East  
 Charleston, WV 25305-0130

8. **ADDENDUM ACKNOWLEDGEMENT:** Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.
9. **BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.



**GENERAL TERMS AND CONDITIONS:**

1. **CONTRACTUAL AGREEMENT:** Issuance of a Purchase Order signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.
2. **DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
  - 2.1 **"Agency" or "Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.
  - 2.2 **"Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods and services requested in the Solicitation.
  - 2.3 **"Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.
  - 2.4 **"Purchasing Division"** means the West Virginia Department of Administration, Purchasing Division.
  - 2.5 **"Purchase Order"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the successful bidder and Contract holder.
  - 2.6 **"Solicitation"** means the official solicitation published by the Purchasing Division and identified by number on the first page thereof.
  - 2.7 **"State"** means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.
  - 2.8 **"Vendor" or "Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. **CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

☐

**Term Contract**

**Initial Contract Term:** This Contract becomes effective on

and extends for a period of \_\_\_\_\_ year(s).

**Renewal Term:** This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal must be submitted to the Purchasing Division Director thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of this Contract is limited to \_\_\_\_\_ successive one (1) year periods. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

**Reasonable Time Extension:** At the sole discretion of the Purchasing Division Director, and with approval from the Attorney General's office (Attorney General approval is as to form only), this Contract may be extended for a reasonable time after the initial Contract term or after any renewal term as may be necessary to obtain a new contract or renew this Contract. Any reasonable time extension shall not exceed twelve (12) months. Vendor may avoid a reasonable time extension by providing the Purchasing Division Director with written notice of Vendor's desire to terminate this Contract 30 days prior to the expiration of the then current term. During any reasonable time extension period, the Vendor may terminate this Contract for any reason upon giving the Purchasing Division Director 30 days written notice. Automatic extension of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases, but Attorney General approval may be required.

**Release Order Limitations:** In the event that this contract permits release orders, a release order may only be issued during the time this Contract is in effect. Any release order issued within one year of the expiration of this Contract shall be effective for one year from the date the release order is issued. No release order may be extended beyond one year after this Contract has expired.

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**Fixed Period Contract:** This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within 60 calendar \_\_\_\_\_ days.

☐ **One Time Purchase:** The term of this Contract shall run from the issuance of the Purchase Order until all of the goods contracted for have been delivered, but in no event shall this Contract extend for more than one fiscal year.

☐ **Other:** See attached.

4. **NOTICE TO PROCEED:** Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Purchase Order will be considered notice to proceed

5. **QUANTITIES:** The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

☐ **Open End Contract:** Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

☐ **Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.

☐ **Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

☒ **One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

6. **PRICING:** The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification.

7. **EMERGENCY PURCHASES:** The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.

8. **REQUIRED DOCUMENTS:** All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

- ☐ **BID BOND:** All Vendors shall furnish a bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.
- ☐ **PERFORMANCE BOND:** The apparent successful Vendor shall provide a performance bond in the amount of . The performance bond must be issued and received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.
- ☐ **LABOR/MATERIAL PAYMENT BOND:** The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be issued and delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable.

- ☐ **MAINTENANCE BOND:** The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.
- ☐ **WORKERS' COMPENSATION INSURANCE:** The apparent successful Vendor shall have appropriate workers' compensation insurance and shall provide proof thereof upon request.
- ☐ **INSURANCE:** The apparent successful Vendor shall furnish proof of the following insurance prior to Contract award and shall list the state as a certificate holder:

☐ **Commercial General Liability Insurance:**  
or more.

☐ **Builders Risk Insurance:** builders risk – all risk insurance in an amount equal to 100% of the amount of the Contract.

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The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed above.

- ☐ **LICENSE(S) / CERTIFICATIONS / PERMITS:** In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

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The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that requirement is listed above.

9. **LITIGATION BOND:** The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.
10. **ALTERNATES:** Any model, brand, or specification listed herein establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.
11. **EXCEPTIONS AND CLARIFICATIONS:** The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or

other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

- 12. LIQUIDATED DAMAGES:** Vendor shall pay liquidated damages in the amount specified herein for failure to meet delivery schedule

This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

- 13. ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part. Vendor's signature on its bid signifies acceptance of the terms and conditions contained in the Solicitation and Vendor agrees to be bound by the terms of the Contract, as reflected in the Purchase Order, upon receipt.

- 14. REGISTRATION:** Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee if applicable.

- 15. COMMUNICATION LIMITATIONS:** In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.

- 16. FUNDING:** This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.

- 17. PAYMENT:** Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To."

- 18. UNIT PRICE:** Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.

- 19. DELIVERY:** All quotations are considered freight on board destination ("F.O.B. destination") unless alternate shipping terms are clearly identified in the bid. Vendor's listing of shipping terms that contradict the shipping terms expressly required by this Solicitation may result in bid disqualification.

- 20. INTEREST:** Interest attributable to late payment will only be permitted if authorized by the West Virginia Code. Presently, there is no provision in the law for interest on late payments.

- 21. PREFERENCE:** Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Resident Vendor Certification form has been attached hereto to allow Vendor to apply for the preference. Vendor's



failure to submit the Resident Vendor Certification form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.

22. **SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid on or after July 1, 2012, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to submission of its bid to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority-owned business shall be applied in accordance with W. Va. CSR § 148-22-9.
23. **TAXES:** The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
24. **CANCELLATION:** The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-7.16.2.
25. **WAIVER OF MINOR IRREGULARITIES:** The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
26. **TIME:** Time is of the essence with regard to all matters of time and performance in this Contract.
27. **APPLICABLE LAW:** This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
28. **COMPLIANCE:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendors acknowledge that they have reviewed, understand, and will comply with all applicable law.
29. **PREVAILING WAGE:** On any contract for the construction of a public improvement, Vendor and any subcontractors utilized by Vendor shall pay a rate or rates of wages which shall not be less than the fair minimum rate or rates of wages (prevailing wage), as established by the West Virginia Division of Labor under West Virginia Code §§ 21-5A-1 et seq. and available at <http://www.sos.wv.gov/administrative-law/wagerates/Pages/default.aspx>. Vendor shall be responsible for ensuring compliance with prevailing wage requirements and determining when prevailing wage



requirements are applicable. The required contract provisions contained in West Virginia Code of State Rules § 42-7-3 are specifically incorporated herein by reference.

- 30. ARBITRATION:** Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.
- 31. MODIFICATIONS:** This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary, no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). **No Change shall be implemented by the Vendor until such time as the Vendor receives an approved written change order from the Purchasing Division.**
- 32. WAIVER:** The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
- 33. SUBSEQUENT FORMS:** The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
- 34. ASSIGNMENT:** Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.
- 35. WARRANTY:** The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
- 36. STATE EMPLOYEES:** State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
- 37. BANKRUPTCY:** In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

**38. [RESERVED]**

**39. CONFIDENTIALITY:** The Vendor agrees that it 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/default.html>.

**40. DISCLOSURE:** Vendor's response to the Solicitation and the resulting Contract are considered public documents and will be disclosed to the public in accordance with the laws, rules, and policies governing the West Virginia Purchasing Division. Those laws include, but are not limited to, the Freedom of Information Act found in West Virginia Code § 29B-1-1 et seq.

If a Vendor considers any part of its bid to be exempt from public disclosure, Vendor must so indicate by specifically identifying the exempt information, identifying the exemption that applies, providing a detailed justification for the exemption, segregating the exempt information from the general bid information, and submitting the exempt information as part of its bid but in a segregated and clearly identifiable format. Failure to comply with the foregoing requirements will result in public disclosure of the Vendor's bid without further notice. A Vendor's act of marking all or nearly all of its bid as exempt is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor's act of marking a bid or any part thereof as "confidential" or "proprietary" is not sufficient to avoid disclosure and WILL NOT BE HONORED. In addition, a legend or other statement indicating that all or substantially all of the bid is exempt from disclosure is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor will be required to defend any claimed exemption for nondisclosure in the event of an administrative or judicial challenge to the State's nondisclosure. Vendor must indemnify the State for any costs incurred related to any exemptions claimed by Vendor. Any questions regarding the applicability of the various public records laws should be addressed to your own legal counsel prior to bid submission.

**41. LICENSING:** In accordance with West Virginia Code of State Rules §148-1-6.1.7, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

**42. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Purchase Order from any agency of the State of West Virginia, the Vendor agrees to 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 Vendor.

- 43. VENDOR CERTIFICATIONS:** By signing its bid or entering into this Contract, Vendor certifies (1) that its bid was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid for the same material, supplies, equipment or services; (2) that its bid is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this RFQ in its entirety, understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

The individual signing this bid on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

- 44. PURCHASING CARD ACCEPTANCE:** The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.



Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

- 45. VENDOR RELATIONSHIP:** The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, *etc.* and the filing of all necessary documents, forms and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

- 46. INDEMNIFICATION:** The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered

by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

- 47. PURCHASING AFFIDAVIT:** In accordance with West Virginia Code § 5A-3-10a, all Vendors are required to sign, notarize, and submit the Purchasing Affidavit stating that neither the Vendor nor a related party owe a debt to the State in excess of \$1,000. The affidavit must be submitted prior to award, but should be submitted with the Vendor's bid. A copy of the Purchasing Affidavit is included herewith.
- 48. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE:** This Contract may be utilized by and extends to other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). This Contract shall be extended to the aforementioned Other Government Entities on the same prices, terms, and conditions as those offered and agreed to in this Contract. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 49. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire any interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.
- 50. REPORTS:** Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:
- ☐ Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.
  - ☐ Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at [purchasing.requisitions@wv.gov](mailto:purchasing.requisitions@wv.gov).
- 51. BACKGROUND CHECK:** In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information



to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision.

The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Service providers should contact the West Virginia Division of Protective Services by phone at (304)558-9911 for more information.

**52. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS:** Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.

The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:

- a. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
- b. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

**53. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL:** In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a “substantial labor surplus area”, as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products.

This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.



**CERTIFICATION AND SIGNATURE PAGE**

By signing below, I certify that I have reviewed this Solicitation in its entirety, understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

---

(Company)

---

(Authorized Signature)

---

(Representative Name, Title)

---

(Phone Number)

(Fax Number)

---

(Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: 0514089**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

\_\_\_\_\_  
Company

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

**SPECIFICATIONS**

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the Division of Highways to establish a contract for the one time purchase of Prestressed Concrete Bridge Beams.
2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.
  - 2.1 **“Contract Item”** means Prestressed Concrete Bridge Beams.
  - 2.2 **“Pricing Page”** means the page upon which Vendor should list its proposed price for the Contract Items in the manner requested. The Pricing Page is either included on the last page of this RFQ or attached hereto as Exhibit A.
  - 2.3 **“RFQ”** means the official request for quotation published by the Purchasing Division and identified as 0514089.
3. **GENERAL REQUIREMENTS:**
  - 3.1 **Contract Items:** Vendor shall provide Agency with the Contract Items listed below.
    - 3.1.1 **Contract Item #1 - Exterior Beams**
      - 3.1.1.1 Exterior Beams must be 21” depth by 36” width by 37’-6” overall length. (36’-0” c-c bearing anchor bolt holes).
      - 3.1.1.2 Exterior beams must be shipped complete, with all guardrail, inserts, guardrail posts, and guardrail attached.
    - 3.1.2 **Contract Item #2 - Interior Beams**
      - 3.1.2.1 Interior Beams must be 21” depth by 36” width by 37’-6” overall length. (36’-0” c-c bearing anchor bolt holes).

**3.1.3 Contract Item #3 – Elastomeric Bearing Pads**

3.1.3.1 Elastomeric Bearing Pads must be ¾" thick by 5" wide by 24" length.

**3.1.4 Contract Item #4 – Deformed Anchor Bolts**

3.1.4.1 Deformed Anchor Bolts must be No. 8 Grade 60 bar, 1" diameter by 2'-0" length.

**3.1.5 Contract Item #5 – Preformed Joint Filler**

3.1.5.1 Preformed Joint Filler must be 1" thick by 21" width.

**3.1.6 Contract Item #6 – Post Tensioning Bars**

3.1.6.1 Post Tensioning Bars must be 1" diameter by 30' length.

3.1.6.2 Post Tensioning Bars must be threaded, and supplied with all plates, hex nuts, and other hardware as required in the plans.

**3.2 Mandatory Requirements:** Vendor must meet or exceed the mandatory requirements as shown below:

3.2.1 The following sections of the West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2010 as modified by any Supplemental Specifications shall apply to the administration of this requisition: Sections 101, 102.4, 102.5, 105.1, 105.3, 105.4, 105.10, 105.11, 105.12, 105.13, 106.3, 106.4, 106.5, 106.6, 106.7, 106.9, 107.1, 107.2, 107.3, 107.14, 107.19, 107.20, 108.8, 108.9, 109.1, 109.2 and 109.20.

All items supplied under this requisition shall meet the requirements of the "West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2010, as modified by any Supplemental Specifications.

**3.2.2** All Prestressed Concrete Box Shaped Beams shall be manufactured in accordance with the attached West Virginia Department of Transportation, Division of Highways **Standard Bridge Plan Sheets dated 9/96** for State Project No. S329-11-3.50 as follows:

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

**3.2.3** 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 based on the Design Data Charts provided as a part of this requisition and must be approved prior to award of this requisition purchase order. In addition to the design criteria contained on the Division of Highways Standard Bridge Plan Sheets referenced above, all alternate designs must be based on the following criteria:

**3.2.3.1** Two lane bridge with a deck width of 27'-0" out to out and roadway width of 26'-0" rail to rail.

**3.2.3.2** Guardrail superimposed dead load of 30 pounds per linear foot assumed to be applied equally to all beams.

**3.2.3.3** Future wearing surface superimposed dead load of 50 psf applied equally to all beams.

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

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

**3.2.5** West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2010 and any Supplemental Specifications 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

**3.2.6** 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:

**3.2.6.1** Cracks of 0.004 inch or less shall be treated with a coat of a Division of Highways approved concrete sealer.

**3.2.6.2** Cracks of more than 0.004 inch shall be treated with a second coat of a Division of Highways approved concrete sealer, or epoxy injected.

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

#### **4. CONTRACT AWARD:**

**4.1 Contract Award:** The Contract is intended to provide Agencies with a purchase price for the Contract Items. The Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost as shown on the Pricing Pages.

**4.2 Pricing Page:** Vendor should complete the Pricing Page by filling in the Unit Price for each item, the Amount for the specified Quantity for that item, and the Total Amount for all items. Failure to bid all items shall be cause for rejection. Vendor should complete the Pricing Page in full as failure to complete the Pricing Page in its entirety may result in Vendor's bid being disqualified.

Notwithstanding the foregoing, the Purchasing Division may correct errors as it deems appropriate. Vendor should type or electronically enter the information into the Pricing Page to prevent errors in the evaluation.

## **5. PAYMENT:**

**5.1 Payment:** Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia. Methods of acceptable payment must include the West Virginia Purchasing Card. Payment in advance is not permitted under this Contract, except as noted under partial payment below.

**5.2 Partial Payment of Approved Beams:** Upon completion of manufacture and approval by the Division of Highways of all Beams, specified on the Requisition Purchase Order, the vendor may invoice and the Division will pay for the cost of manufacturing the beams, not to exceed 65% of the total cost of the Beams. Partial payment for Beams shall be subject to the following conditions:

- 5.2.1** The vendor must request partial payment and furnish an official invoice for the manufactured and approved beams.
- 5.2.2** The partial payment invoice shall be accompanied by a surety bond equal to the invoiced amount guaranteeing delivery of all items specified on the Requisition Purchase Order.
- 5.2.3** The vendor shall furnish a statement of approved beam condition and exact storage locations.
- 5.2.4** The vendor shall furnish a legal right-of-entry onto the storage site to Division of Highways' employees and/or agents for the purpose of inspecting, sampling, testing and removing any or all Beams.
- 5.2.5** The vendor shall certify that the stored beams are suitably marked and identified as property of the Division of Highways and will not be used for any purpose not designed by the Division.

**5.3 Vendor Invoice:** Vendors invoices must be submitted in original and one copy and contain the following:

**5.3.1** Division of Highways Requisition Purchase Order number.

**5.3.2** 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.

**6. DELIVERY AND RETURN:**

**6.1 Shipment and Delivery:** Vendor should deliver the Contract Items in accordance with the following procedure after receiving a purchase order or notice to proceed. Contract Items must be delivered to agency at the project site shown on the location map.

Upon receipt of a State Purchase Order the Vendor shall submit shop drawings to the District Five Bridge Engineer within twenty (20) calendar days. Shop drawings must be approved by 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. Should the vendor fail to have the beams available within the 60 day requirement, the vendor may be subject to a penalty of \$100.00 per day. (Saturday's and Sunday's excluded.) Although this penalty may be waived by the Engineer subject to written approval of Vendors request.

The Division of Highways requires that all of the beam sections be delivered on the same date. Should the Vendor fail to meet the same day delivery requirement, the vendor shall be assessed a penalty of \$2,000.00 per day (Saturday's and Sunday's excluded) up to a maximum of \$10,000.

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 2010 and as modified by any Supplemental Specifications.

**6.2 Late Delivery:** The Agency placing the order under this Contract must be notified in writing if the shipment of the Contract Items will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for:

**6.2.1** cancellation of the Contract, and

**6.2.2** obtaining the Contract Items from a third party.

Any Agency seeking to obtain the Contract Items from a third party under this provision must first obtain approval of the Purchasing Division.

**6.3 Delivery Payment/Risk of Loss:** Vendor shall deliver the Contract Items F.O.B. destination to the Agency's location or locations identified above.

**6.4 Return of Unacceptable Items:** If the Agency deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no charge. Vendor shall either make arrangements for the return within five (5) days of being notified that items are unacceptable, or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive a full credit or refund for the purchase price, at the Agency's discretion.

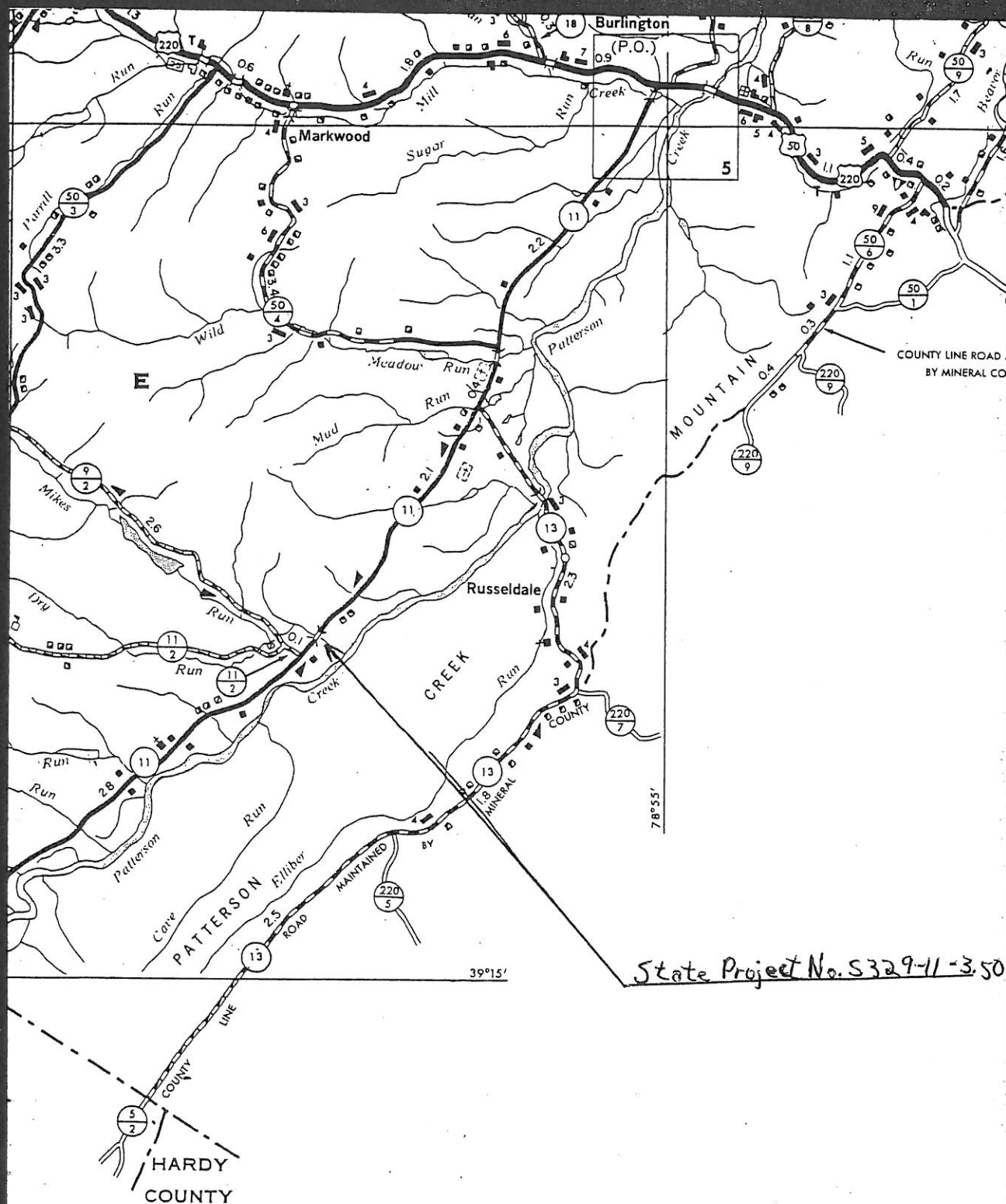
**6.5 Return Due to Agency Error:** Because of the nature of these items, anything ordered by the Agency in error will be accepted by the Agency at no cost to the Vendor.

# Bid Evaluation Page

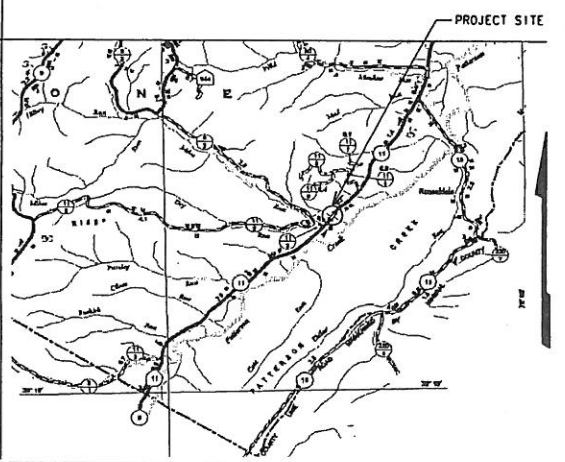
RFQ#: 0514C089

## Exhibit A

| Item Number | Quantity | Unit of Measure | Description                                                                                            | Unit Price | Total |
|-------------|----------|-----------------|--------------------------------------------------------------------------------------------------------|------------|-------|
| 1           | 2        | Each            | Exterior Beams<br>21" depth X 36" width X 37' - 6" length<br>(ship with guardrail & hardware attached) |            |       |
| 2           | 7        | Each            | Interior Beams<br>21" depth X 36" width X 37' - 6" length                                              |            |       |
| 3           | 18       | Each            | Elastomeric Bearing Pads<br>3/4" thick X 5" wide X 24" length                                          |            |       |
| 4           | 18       | Each            | Deformed Anchor Bolts<br>1" diameter X 2' - 0" length                                                  |            |       |
| 5           | 56       | Linear Feet     | Preformed Joint Filler<br>1" thick X 21" width                                                         |            |       |
| 6           | 4        | Each            | Post Tensioning Bars<br>1" diameter X 30' length with hardware, threaded                               |            |       |
| Grand Total |          |                 |                    |            | \$    |







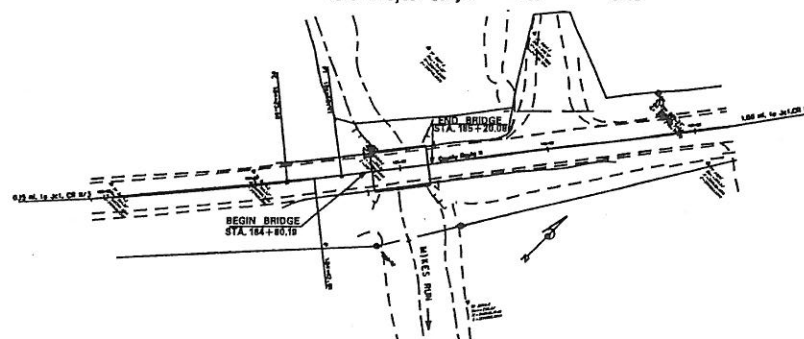
UTILITIES  
FRONTIER COMMUNICATIONS

# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS CONSTRUCTION PLANS OF STATE HIGHWAY

FEDERAL PROJECT NO. -----  
STATE PROJECT NO. S329-II-3.50  
ROUTE NO. 11  
DISTRICT ONE  
MINERAL COUNTY

## MIKES RUN BRIDGE

| Station              | Station      | f. l. | mile(s) |
|----------------------|--------------|-------|---------|
| Roadway 184+50.00    | to 184+80.19 | 30.19 | .       |
| Bridge 184+80.19     | to 185+20.08 | 39.89 | .       |
| Roadway 185+20.08    | to 185+50.00 | 29.92 | .       |
| Total Project Length |              | 100   | 0.02    |



SCALES  
PLAN HOR. 0 20 ft.  
5 ft.

PROFILE  
VERT. 0 10 ft.  
HOR. 0 10 ft.

| DESIGN DESIGNATION |      |
|--------------------|------|
| A. D. T (2008.2)   | 1200 |
| A. D. T (20)       |      |
| D. H. V            |      |
| D                  |      |
| T                  |      |
| V                  |      |

### CONVENTIONAL SIGNS

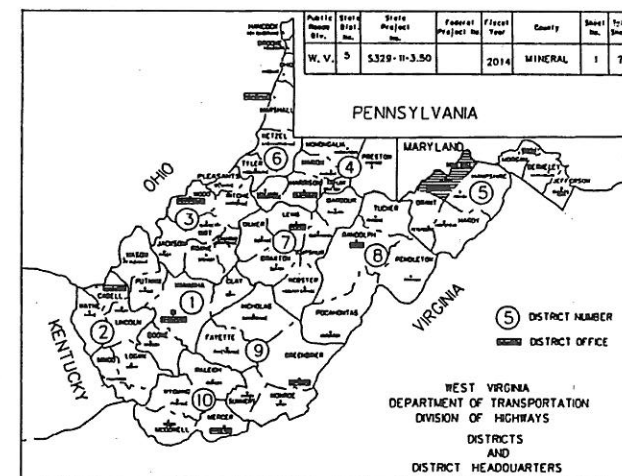
|     |                                   |
|-----|-----------------------------------|
| --- | STATE LINE                        |
| --- | COUNTY LINE                       |
| --- | CORPORATION LINE                  |
| --- | PROPOSED R/R & EASEMENT LINE      |
| --- | EXISTING R/R LINE                 |
| --- | PROPERTY LINE                     |
| --- | EXISTING FENCE                    |
| --- | PROPOSED FENCE                    |
| --- | EDGE OF STREAM                    |
| --- | PROPOSED GUARD RAIL               |
| --- | EXISTING GUARD RAIL               |
| --- | RAILROAD                          |
| --- | GAS LINE                          |
| --- | WATER LINE                        |
| --- | TELEPHONE LINE                    |
| --- | ELECTRIC LINE                     |
| --- | TELEPHONE POLE                    |
| --- | POWER POLE                        |
| --- | COMBINED POWER AND TELEPHONE POLE |
| --- | TREE                              |
| --- | SHRUB                             |
| --- | RIGHT OF WAY MARKER               |

LAYOUT SCALE 0 40'

### INDEX TO SHEETS

| NO.  | DESCRIPTION            |
|------|------------------------|
| 1    | TITLE                  |
| 2    | ESTIMATE OF QUANTITIES |
| 3    | GENERAL NOTES          |
| 4    | MAINTENANCE OF TRAFFIC |
| 5    | PLAN                   |
| 6    | PROFILE                |
| 7-18 | BRIDGE PLANS           |

| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
| 1   |           |      |    |
| 2   |           |      |    |
| 3   |           |      |    |
| 4   |           |      |    |
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| 14  |           |      |    |
| 15  |           |      |    |
| 16  |           |      |    |
| 17  |           |      |    |
| 18  |           |      |    |



TYPE OF CONSTRUCTION/SUBMISSION:  
SUPERSTRUCTURE REPLACEMENT  
AND PAVE BRIDGE NO. 29-II-3.50

SIGNED: \_\_\_\_\_  
RESPONSIBLE CHARGE ENGINEER  
DATE: \_\_\_\_\_

RECOMMENDED ..... DESIGNER

APPROVED ..... DISTRICT ENGINEER / MANAGER

PROJECT NO. S329-II-3.50

MikesRun\_constr\_title.dgn 8/20/2013 9:50:41 AM

| PUBLIC<br>ROADS<br>DIV. | STATE<br>DIST.<br>NO. | PROJECT NUMBER | COUNTY  | SHEET TOTAL |
|-------------------------|-----------------------|----------------|---------|-------------|
| W.V.A.                  | 5                     | 5329-11-3.50   | MINERAL | 8 20        |

#### CONTROL ELEVATIONS

| CODE | ABUTMENT 1 | ABUTMENT 2 |
|------|------------|------------|
| 1    | 745.86     | 746.28     |
| 2    | 743.46     | 742.87     |

CONTROL ELEVATIONS  
ESTABLISHED FROM SURVEY

#### CONTROL STATIONING

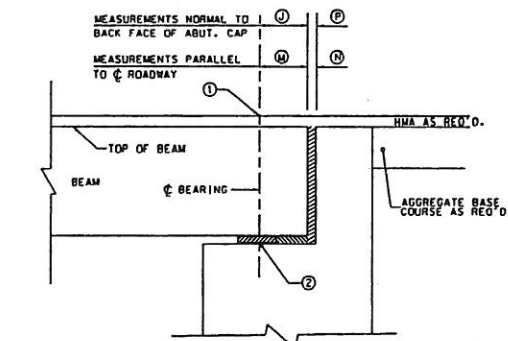
| CODE | LOCATION                | STATION VALUE |
|------|-------------------------|---------------|
| 3    | BRIDGE AT<br>CL BEARING | 184+02.13     |
| 4    | BRIDGE AT<br>CL BEARING | 185+10.13     |

CONTROL STATIONING  
ESTABLISHED FROM SURVEY

#### CONTROL DIMENSIONS

| DIMENSION                                                        | CODE | VALUE  |
|------------------------------------------------------------------|------|--------|
| SKEWED CROSSING                                                  | A    | NORMAL |
| LENGTH OF BEAMS, OUT-TO-OUT                                      | B    | 31'-6" |
| DECK WIDTH, OUT-TO-OUT                                           | C    | 27'-0" |
| NUMBER OF BEAMS                                                  | D    | 8      |
| SPAN LENGTH, CL BEARING TO<br>CL BEARING                         | E    | 35'-0" |
| DISTANCE FROM END OF BEAM TO<br>CL OF DRAIN                      | H    | N/A    |
| NUMBER OF DRAINS, EACH SIDE                                      | I    | N/A    |
| PERPENDICULAR DISTANCE FROM<br>CL BEARING TO END OF BEAM         | J    | 9"     |
| DISTANCE FROM END OF BEAM TO<br>FIRST GUARDRAIL POST             | K    | 1'-9"  |
| NUMBER OF GUARDRAIL POSTS<br>EACH SIDE                           | L    | 12     |
| DISTANCE FROM CL BEARING TO END<br>OF BEAM (PARALLEL TO CL ROAD) | M    | 9"     |
| WIDTH OF EXPANSION OPENING<br>PARALLEL TO CL OF ROADWAY          | N    | 1"     |
| PERPENDICULAR WIDTH OF EXPANSION<br>OPENING                      | P    | 1"     |
| GRADE %                                                          | R    | 1.33%  |

\* IF BEARING SURFACE IS  
DELETED, AFFECTED  
ELEVATIONS SHALL BE  
TAKEN AT THE TOP SURFACE  
OF THE BEAM.



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

#### ESTIMATE OF QUANTITIES

| ITEM   | DESCRIPTION                | UNIT | QUANTITY |
|--------|----------------------------|------|----------|
| 603-01 | PRESTRESSED CONCRETE BEAMS | LF   | 319.5    |
| 401-02 | HMA WEARING COURSE         | TON  | 12.0     |

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - STRUCTURES

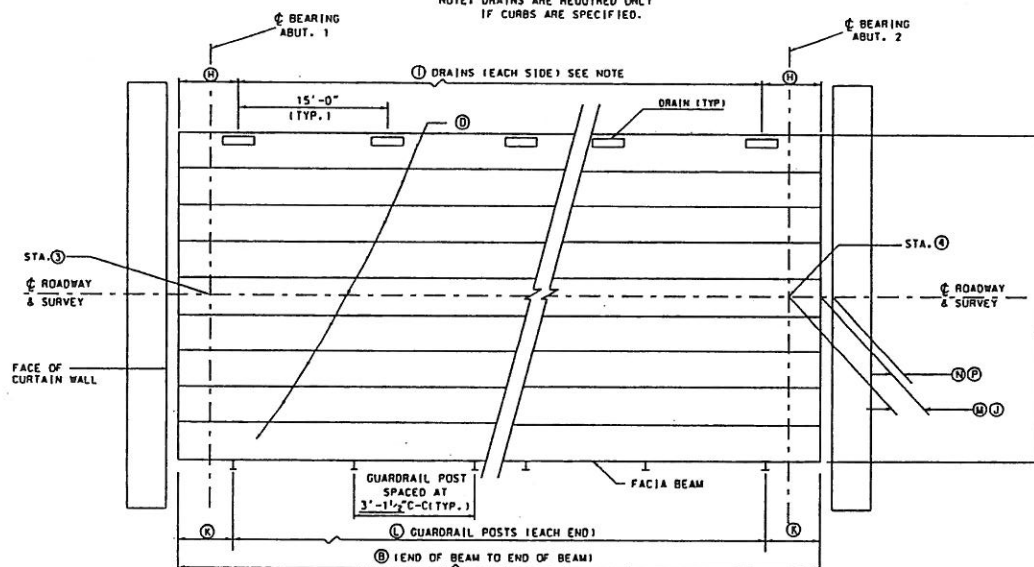
MIKES RUN BRIDGE  
OVER  
MIKES RUN  
IN  
MINERAL COUNTY

SUPERSTRUCTURE PLAN

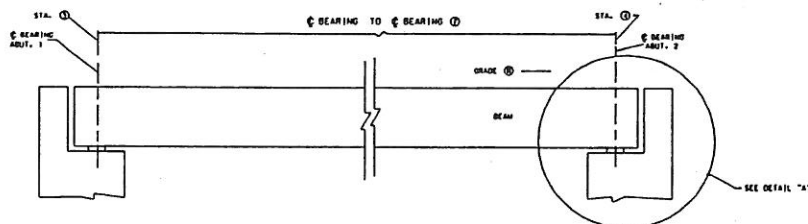
|                   |            |
|-------------------|------------|
| DESIGNED BY       | PLS        |
| DRAWN BY          | CLM        |
| CHECKED BY        |            |
| DATE              | 5/13       |
| SCALE             | NONE       |
| PROJECT NO.       | 29-11-3.50 |
| BRIDGE NUMBER     | 29-11-3.50 |
| BRIDGE DESIGN NO. | XXXX       |

|                                                                                                                                                                                           |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| WEST VIRGINIA DEPARTMENT OF TRANSPORTATION<br>DIVISION OF HIGHWAYS - STRUCTURES<br>PRESTRESSED OR POST-TENSIONED<br>CONCRETE BEAMS<br>SUPERSTRUCTURE PLAN - NORMAL CROSSING<br>SHEET BR-1 | REVISIONS |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|

NOTE: DRAINS ARE REQUIRED ONLY  
IF CURBS ARE SPECIFIED.



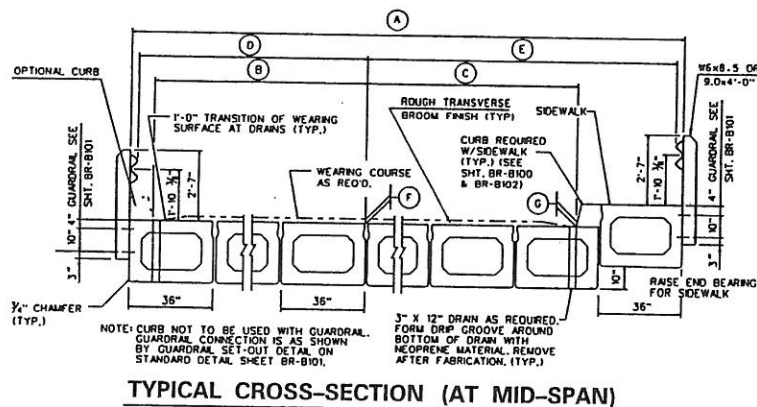
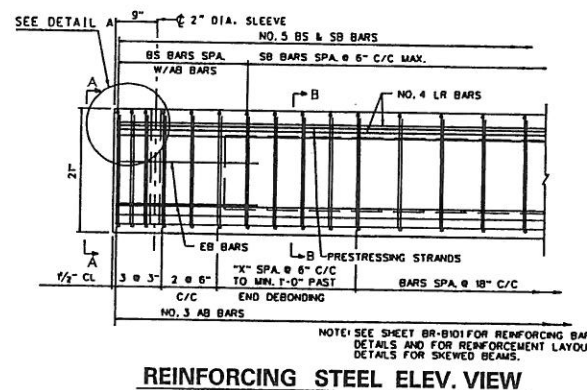
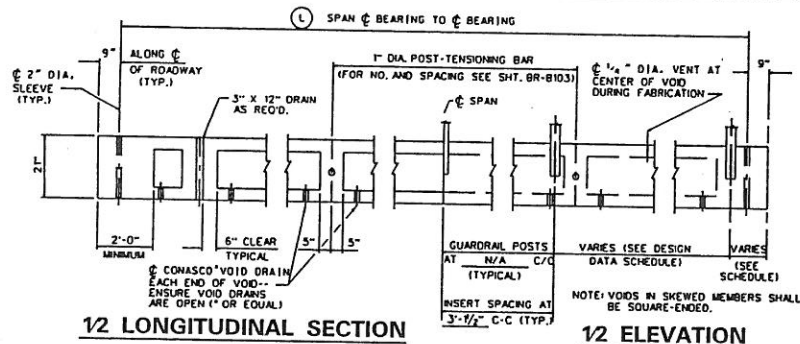
SUPERSTRUCTURE LAYOUT PLAN



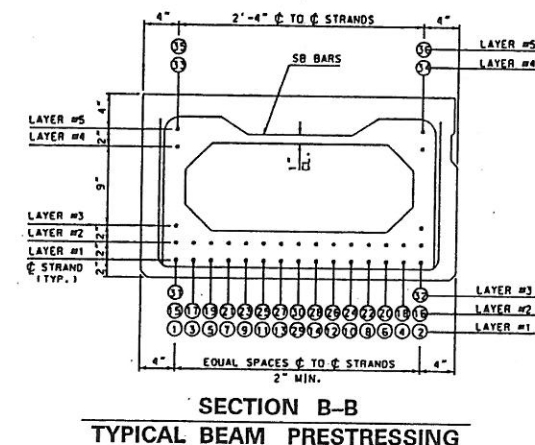
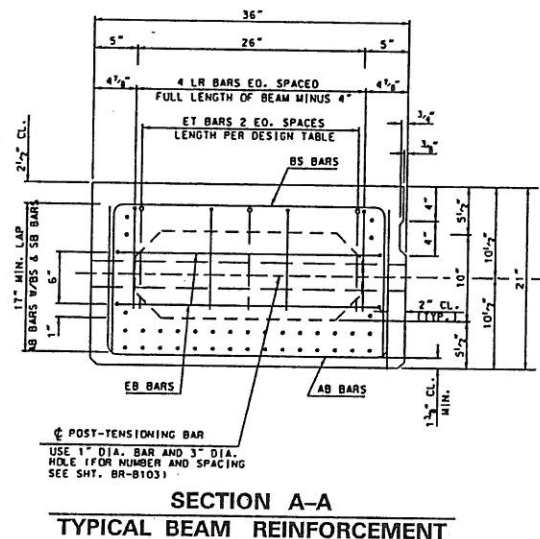
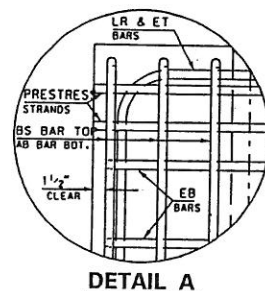
SUPERSTRUCTURE ELEVATION ALONG CL ROADWAY

| PUBLIC<br>ROADS<br>DIV. | STATE<br>DIST.<br>NO. | PROJECT NUMBER | COUNTY  | SHEET TOTAL<br>NO. SHEETS |
|-------------------------|-----------------------|----------------|---------|---------------------------|
| W.V.A.                  | 5                     | 5329-11-3.50   | MINERAL | 13 18                     |

- NOTES:**
1. ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
  2. ALL LAP SPICE LENGTHS, EXCEPT WHERE SHOWN, SHALL BE AS IN TABLE ON SHEET BR-B101.
  3. ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED.
  4. ALL STRANDS SHALL BE ENCLOSED INSIDE STIRRUP CAGE ENTIRE LENGTH OF BEAM.
  5. THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS BR-101 OR BR-1A, BR-B27B, BR-B100, BR-B101, BR-B102, AND BR-B103.
  6. WHEN STRAND NO'S. 29 AND 30 ARE USED, SEE SHEET BR-B101 FOR DETAIL OF 2" DIA. ANCHOR SLEEVE.



| CONTROL DIMENSIONS                                                    |                                                              |        |
|-----------------------------------------------------------------------|--------------------------------------------------------------|--------|
| CODE                                                                  | DESCRIPTION                                                  | VALUE  |
| (A)                                                                   | DECK WIDTH, OUT TO OUT                                       | 27'-0" |
| (B)                                                                   | DISTANCE FROM C/Roadway TO FACE OF CURB (NO SIDEWALK)        | N/A    |
| (C)                                                                   | DISTANCE FROM C/Roadway TO FACE OF CURB (WITH SIDEWALK)      | N/A    |
| (D)                                                                   | DISTANCE FROM C/Roadway TO FACE OF GUARDRAIL (NO SIDEWALK)   | 13'-0" |
| (E)                                                                   | DISTANCE FROM C/Roadway TO FACE OF GUARDRAIL (WITH SIDEWALK) | N/A    |
| (F)                                                                   | THICKNESS OF WEARING COURSE AT C/Roadway                     | 3"     |
| (G)                                                                   | THICKNESS OF WEARING COURSE AT FACE OF CURB                  | 1"     |
| (L)                                                                   | SPAN LENGTH, C/Bearing TO C/Bearing                          | 36'    |
| OPTIONAL 10" CURB TO BE INCLUDED (YES OR NO)                          |                                                              |        |
| OPTIONAL PARAPET TO BE INCLUDED (YES OR NO) (REQUIRES SPECIAL DESIGN) |                                                              |        |
| TOE PLATE REQUIRED (YES OR NO)                                        |                                                              |        |



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

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS-STRUCTURES

**MIKES RUN BRIDGE**  
OVER  
**MIKES RUN**  
IN  
**MINERAL COUNTY**

21" PRESTRESSED CONCRETE  
BOX BEAMS

DESIGN & ASSEMBLY DETAILS  
SHEET BR-B21A

DESIGNED BY: THB/PMS  
CHECKED BY: CLM  
DATE: 9-13  
SCALE: NONE  
BRIDGE NUMBER: 29-11-3.50  
BRIDGE DESIGN NO.

| PUBLIC<br>ROADS<br>DIV. | STATE<br>DIST.<br>NO. | PROJECT NUMBER | COUNTY  | SHEET<br>NO. | TOTAL<br>SHTS |
|-------------------------|-----------------------|----------------|---------|--------------|---------------|
| W.VA.                   | 5                     | 5329-11-3.50   | MINERAL | 14           | 18            |

MIN. CONCRETE STRENGTH @ DETENSION = 4,000 PSI.  
MIN. CONCRETE STRENGTH @ 28 DAYS = 5,000 PSI.  
JACKING FORCE /LOW RELAX. STRAND = 30,980 LBS.

| DESIGN DATA FOR 21" DEPTH BOX BEAM                                          |                                                         |                                      |                                      |                                  |                                  |                    |                    |                        |                        |                                |           | (4) | (4) | (4) | (4) |
|-----------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------|--------------------------------------|----------------------------------|----------------------------------|--------------------|--------------------|------------------------|------------------------|--------------------------------|-----------|-----|-----|-----|-----|
| SPAN LENGTH $\phi$ TO $\phi$ BEARING                                        | 30'                                                     | 32'                                  | 34'                                  | 36'                              | 38'                              | 40'                | 42'                | 44'                    | 46'                    | 48'                            |           |     |     |     |     |
| OVERALL LENGTH ALONG $\phi$ ROADWAY                                         | 31'-6"                                                  | 33'-6"                               | 35'-6"                               | 37'-6"                           | 39'-6"                           | 41'-6"             | 43'-6"             | 45'-6"                 | 47'-6"                 | 49'-6"                         |           |     |     |     |     |
| NO. OF GRADE 270, 1/2" DIA. LOW-RELAX. STRANDS. AREA/STRAND = 0.153 SQ. IN. | 8                                                       | 10                                   | 10                                   | 12                               | 12                               | 14                 | 14                 | 15                     | 15                     | 17                             |           |     |     |     |     |
| STRAND POSITION NUMBER                                                      | 1, 7, 8, 13, 14<br>35 & 36                              | 1, 2, 5, 6, 9, 10, 13, 14<br>35 & 36 | 1, 2, 5, 6, 9, 10, 13, 14<br>35 & 36 | 1, 2, 5 thru 10, 13, 14, 35 & 36 | 1, 2, 5 thru 10, 13, 14, 35 & 36 | 1 thru 12, 35 & 36 | 1 thru 12, 35 & 36 | 1 thru 12, 29, 35 & 36 | 1 thru 12, 29, 35 & 36 | 1 thru 12, 15, 16, 29, 35 & 36 |           |     |     |     |     |
| PRESTRESSING FORCE AT DETENSION (KIPS/BEAM)                                 | 241                                                     | 299                                  | 299                                  | 356                              | 357                              | 413                | 418                | 441                    | 470                    | 498                            |           |     |     |     |     |
| FINAL PRESTRESSING FORCE (KIPS/BEAM)                                        | 223                                                     | 273                                  | 274                                  | 321                              | 323                              | 368                | 370                | 393                    | 417                    | 440                            |           |     |     |     |     |
| ULTIMATE DESIGN MOMENT (FT-KIPS/BEAM)                                       | 349                                                     | 397                                  | 444                                  | 493                              | 542                              | 592                | 643                | 696                    | 746                    | 797                            |           |     |     |     |     |
| ULTIMATE RESISTING MOMENT (FT-KIPS/BEAM)                                    | 375                                                     | 481                                  | 481                                  | 583                              | 583                              | 679                | 679                | 725                    | 757                    | 801                            |           |     |     |     |     |
| TOTAL NUMBER OF DEBONDED STRANDS                                            | -                                                       | -                                    | -                                    | -                                | -                                | -                  | -                  | 1                      | -                      | 1                              |           |     |     |     |     |
| LAYER 1-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END            | -                                                       | -                                    | -                                    | -                                | -                                | -                  | -                  | 29 @ 3'-0"             | -                      | 29 @ 3'-0"                     |           |     |     |     |     |
| LAYER 2-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END            | -                                                       | -                                    | -                                    | -                                | -                                | -                  | -                  | -                      | -                      | -                              |           |     |     |     |     |
| END TENSION STEEL EACH END (SIZE & LENGTH)                                  | 3-#4 x 6'-6"                                            | 3-#4 x 7'-0"                         | 3-#4 x 7'-5"                         | 3-#4 x 8'-0"                     | 3-#4 x 8'-0"                     | 3-#4 x 8'-6"       | 3-#4 x 9'-0"       | 3-#4 x 9'-6"           | 3-#4 x 10'-0"          | 3-#4 x 10'-0"                  |           |     |     |     |     |
| CAMBER (3)                                                                  | DETENSION, INCHES +UPWARD (in)                          | 0.08                                 | 0.18                                 | 0.18                             | 0.30                             | 0.31               | 0.46               | 0.46                   | 0.55                   | 0.61                           | 0.71      |     |     |     |     |
|                                                                             | ERECTION, INCHES +UPWARD (in)                           | 0.11                                 | 0.27                                 | 0.26                             | 0.47                             | 0.46               | 0.70               | 0.69                   | 0.82                   | 0.88                           | 1.02      |     |     |     |     |
|                                                                             | FINAL, INCHES +UPWARD (in)                              | 0.09                                 | 0.28                                 | 0.24                             | 0.48                             | 0.43               | 0.72               | 0.66                   | 0.78                   | 0.79                           | 0.91      |     |     |     |     |
| WEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (TONS) (1),(2)                   | 9.1                                                     | 9.6                                  | 10.1                                 | 10.6                             | 11.2                             | 11.7               | 12.2               | 12.7                   | 13.4                   | 13.9                           |           |     |     |     |     |
| NUMBER AND SPACING OF GUARDRAIL INSERTS                                     | NO. OF INSERTS                                          | 10                                   | 11                                   | 12                               | 12                               | 13                 | 14                 | 14                     | 15                     | 15                             |           |     |     |     |     |
|                                                                             | END OF BEAM TO $\phi$ OF FIRST INSERT EACH END          | 1'-9"                                | 1'-9"                                | 1'-9"                            | 1'-9"                            | 1'-9"              | 1'-9"              | 1'-9"                  | 1'-9"                  | 1'-9"                          |           |     |     |     |     |
|                                                                             | $\phi$ OF FIRST INSERT TO $\phi$ SECOND INSERT EACH END | 3'-0 1/4"                            | 2'-6"                                | 1'-11/4"                         | 2'-0 1/4"                        | 2'-4 1/2"          | 1'-8 1/4"          | 2'-9 1/4"              | 2'-3"                  | 1'-8 1/4"                      | 2'-8 1/4" |     |     |     |     |

#### NOTES:

1. BEAM WEIGHTS LISTED IN DESIGN TABLES ARE APPROXIMATE AND ARE BASED ON ZERO SKEW AND DIAPHRAGMS SPA @ 15'-0" C-C MAX. ADDITION OF SKEW AND EXTRA DIAPHRAGMS WILL INCREASE WEIGHT.
2. FOR STANDARD CURB, ADD 93 LBS. (10.05 TON) PER CURB, PER FOOT OF BEAM.
3. 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.
4. DATA LISTED IN THE DESIGN TABLE MAY NOT BE VALID FOR SPAN LENGTHS THAT FALL BETWEEN THE SPAN LENGTHS LISTED. IF DIFFERENCES ARE ENCOUNTERED, CALCULATE AND ENTER SPECIFIC DATA FOR BEAM LENGTH REQUIRED IN THIS COLUMN.
5. THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS BR-1 OR BR-1A, BR-821A, BR-8100, BR-8101, BR-8102, BR-8103, AND BR-8104.
6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
7. 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 AT THE TIME OF BEAM ERECTION BEFORE BEAMS ARE SECURED IN PLACE. METHOD OF CORRECTION SHALL PROVIDE EVEN, TOTAL BEARING ON THE PADS AND A LEVEL TOP BEAM SURFACE. METHOD SHALL BE A PRE-APPROVED METHOD BY DIRECTOR OF STRUCTURES DIVISION.
8. BEAM FABRICATOR SHALL NOTIFY CONTRACTOR THAT BEAM ENDS ARE TWISTED PRIOR TO SHIPPING OF BEAMS.

James E. Dutton, Inc. 4-18-85  
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS-STRUCTURES  
DESIGN TABLE FOR 21"  
PRESTRESSED BOX BEAM  
STANDARD SHEET BR-821B

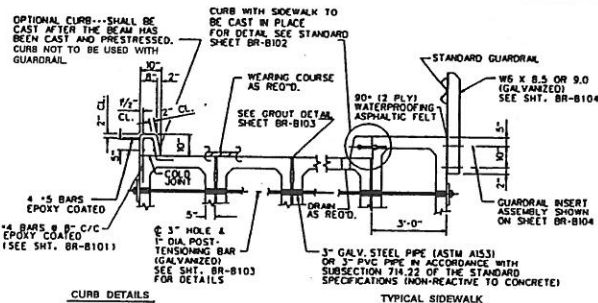
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS-STRUCTURES

**MIKES RUN BRIDGE**  
OVER  
**MIKES RUN**  
IN  
**MINERAL COUNTY**

DESIGN TABLE FOR 21"  
PRESTRESSED BOX BEAM

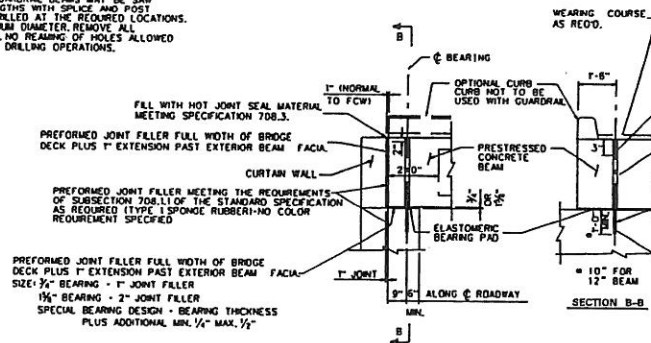
BRIDGE NUMBER  
29-11-3.50

| PUBLIC<br>ROADS<br>DIST. | STATE<br>DIST. | PROJECT NUMBER | COUNTY  | SHEET TOTAL |
|--------------------------|----------------|----------------|---------|-------------|
| WVA                      | 5              | 5329-11-3.50   | MINERAL | 15 18       |

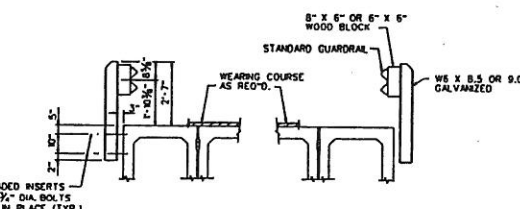


TYP. BEAM CROSS SECTION AND  
POST-TENSIONING BAR DETAILS

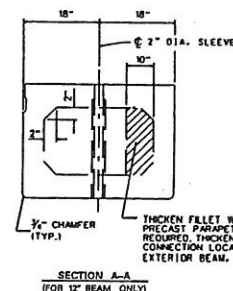
TO FACILITATE GUARDRAIL FABRICATION, STANDARD LENGTH GALVANIZED GUARDRAIL BEAMS MAY BE SAW CUT TO REQUIRED LENGTHS WITH SPICE AND POST ATTACHMENT HOLES DRILLED AT THE REQUIRED LOCATIONS. HOLES TO BE 1" MAXIMUM DIAMETER. REMOVE ALL BURRS AFTER DRILLING. NO REPAIRING OF HOLES ALLOWED AFTER COMPLETION OF DRILLING OPERATIONS.



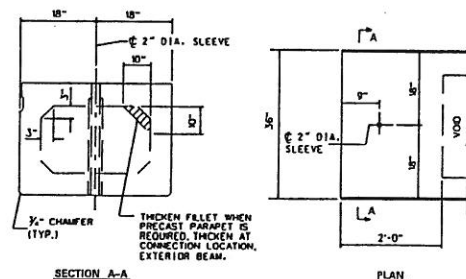
TYPICAL END BEARING DETAIL/BACKWALL  
(ALONG CENTER LINE ROADWAY)



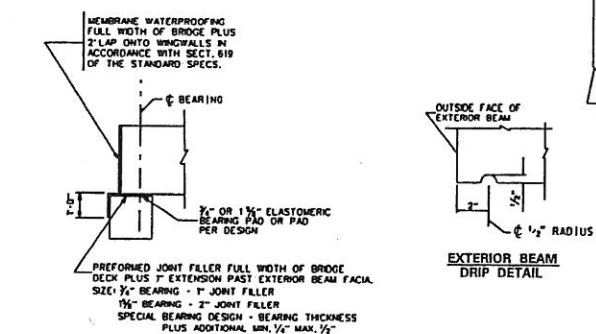
TYPICAL CROSS SECTION  
WITHOUT CURB



SECTION A-A  
(FOR 12" BEAM ONLY)



END BLOCK DETAILS



EXTERIOR BEAM  
DRIP DETAIL

TO FACILITATE GUARDRAIL FABRICATION, STANDARD LENGTH GALVANIZED GUARDRAIL BEAMS MAY BE SAW CUT TO REQUIRED LENGTHS WITH SPICE AND POST ATTACHMENT HOLES DRILLED AT THE REQUIRED LOCATIONS. HOLES TO BE 1" MAXIMUM DIAMETER. REMOVE ALL BURRS AFTER DRILLING. NO REPAIRING OF HOLES ALLOWED AFTER COMPLETION OF DRILLING OPERATIONS.

TO FACILITATE GUARDRAIL FABRICATION, STANDARD LENGTH GALVANIZED GUARDRAIL BEAMS MAY BE SAW CUT TO REQUIRED LENGTHS WITH SPICE AND POST ATTACHMENT HOLES DRILLED AT THE REQUIRED LOCATIONS. HOLES TO BE 1" MAXIMUM DIAMETER. REMOVE ALL BURRS AFTER DRILLING. NO REPAIRING OF HOLES ALLOWED AFTER COMPLETION OF DRILLING OPERATIONS.

WATERPROOFING DETAIL  
WITHOUT BACKWALL

- THE WEST VIRGINIA DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS, ROADS AND BRIDGES, ADOPTED 2010, AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS OF THE WEST VIRGINIA DIVISION OF HIGHWAYS, CURRENT ISSUE, THE CONTRACT PLANS AND CONTRACT DOCUMENTS ARE THE GOVERNING PROVISIONS APPLICABLE TO THE PROJECT.
- THE PRESTRESSED CONCRETE BOX BEAMS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF THE SECTION 603 OF THE STANDARD SPECIFICATIONS.
- ALL REINFORCING STEEL BARS SHALL BE INTERMEDIATE GRADE BILLET STEEL GRADE 60 IN ACCORDANCE WITH SUBSECTION 709.1 OF THE STANDARD SPECIFICATIONS. REINFORCING BARS SHALL BE EPOXY COATED IN ACCORDANCE WITH SECTION 711.3 OF THE STANDARD SPECIFICATIONS.
- DESIGN AND FABRICATION NOTES**
- ALL MEMBERS ARE DESIGNED FOR 125KSI (4.4 INSI) LIVE LOADING IN ACCORDANCE WITH 1992 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AS AMENDED BY CURRENT INTERIM SPECIFICATIONS. THE DESIGN PROVIDES FOR A WEARING SURFACE OF 50 POUNDS PER SQUARE FOOT OF ROADWAY. THE DESIGN ALSO PROVIDES FOR AN ADDITIONAL GUARDRAIL SUPERIMPOSED DEAD LOAD OF 30 POUNDS PER LINEAR FOOT OF BEAM AND DIAPHRAGM DEAD LOAD BASED UPON NO. REQ'D.
  - THE DESIGN IS BASED ON A TWO-LANE BRIDGE WITH A DECK WIDTH OF 33'-8" AND A ROADWAY WIDTH OF 33'-1".
  - COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF PRESTRESSING (1-D) SHALL NOT BE LESS THAN 4,000 PSI-17" THRU 33" BOX BEAMS; 5,000 PSI-42" BOX BEAM.
  - COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS (1-C) SHALL NOT BE LESS THAN 5,000 PSI-17" THRU 33" BOX BEAMS; 6,000 PSI-42" BOX BEAM.
  - PRESTRESSING STEEL SHALL BE SEVEN-WIRE UNCOATED LOW RELAXATION STRAND IN ACCORDANCE WITH ASTM A416 GRADE 270 WITH MINIMUM TENSILE STRENGTH (F<sub>u</sub>) OF 270,000 PSI, EXCEPT FOR 42" BOX BEAM. PRESTRESSING STEEL SHALL BE SEVEN-WIRE UNCOATED LOW-RELAXATION OVERSIZE (AS-0.167 SO-M) IN ACCORDANCE WITH ASTM A416 GRADE 270 WITH MINIMUM TENSILE STRENGTH (F<sub>u</sub>) OF 270,000 PSI.
  - CALCULATED INITIAL STRESSES SHALL NOT EXCEED THE FOLLOWING ALLOWABLE TEMPORARY STRESSES BEFORE LOSSES DUE TO CREEP AND SHRINKAGE: CONCRETE COMPRESSION - 0.60 f<sub>ci</sub>; CONCRETE TENSION - 200 PSI OR 3/16" PRESTRESSING STEEL - 0.75 f<sub>ps</sub> FOR LOW RELAX. STRAND.
  - CALCULATED FINAL STRESSES SHALL NOT EXCEED THE FOLLOWING ALLOWABLE SERVICE LOAD STRESSES AFTER ALL LOSSES HAVE OCCURRED: CONCRETE COMPRESSION - 0.40 f<sub>ci</sub>; CONCRETE TENSION - 3/16" PRESTRESSING STEEL - 0.80 f<sub>ps</sub>.
  - WHERE THE CALCULATED INITIAL STRESSES EXCEED THE ALLOWABLE STRESS VALUES, STRAND DEBONDING OR TOP STRANDS SHALL BE PROVIDED TO REDUCE THE CALCULATED VALUES TO BELOW THE ALLOWABLE VALUES. ADDITIONALLY, BONDED NON-PRESTRESSED REINFORCEMENT SHALL BE PROVIDED TO RESIST THE TOTAL TENSION.
  - ULTIMATE LOAD CAPACITY SHALL NOT BE LESS THAN 1.35 [D<sub>L</sub> + 1/2 HLL + 1/2] WHERE 1.0 FOR FACTORY PRODUCED PRECAST PRESTRESSED MEMBERS.
  - ALL ANCHOR DOWELS, NON-HEADED ANCHOR BOLTS, GUARDRAIL ATTACHMENT HARDWARE, GUARDRAIL POSTS, CONNECTION PLATES AND DRAP PLATES SHALL CONFORM TO AASHTO M183 AND SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111, EXCEPT WHERE NOTED. ALL CAST-IN-PLACE THREADED INSERTS SHALL BE FABRICATED FROM HEX BAR STOCK MEETING THE REQUIREMENTS OF AASHTO M183, ASTM A608 OR A576.
  - GRADE 4020 THRU 6035 OR GRADE 42H, ALL GUARDRAIL POST ATTACHMENT BOLTS, IN OR OUT OF CONCRETE, SHALL MEET AASHTO M184 OR ASTM A507. NUTS AS REQUIRED SHALL BE HEAVY HEX AND SHALL MEET AASHTO M184. GRADE OF NUTS SUPPLIED SHALL BE AS SHOWN IN TABLE 11.1 OF M184. NUTS MAY ALSO BE SUPPLIED TO AASHTO M292, GRADE 2H. WASHERS SHALL BE CIRCULAR CARBON STEEL MEETING THE REQUIREMENTS OF AASHTO M293. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED TO AASHTO M232.
  - ALL WELDING TO BE ACCOMPLISHED PRIOR TO GALVANIZING, EXCEPT WHEN NOTED.
  - GUARDRAIL END TERMINAL SECTIONS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS BOOK VOLUME 1, CURRENT ISSUE.
  - DEBONDING OF STRANDS SHALL BE ACCOMPLISHED BY TAPING OR TIGHT-FIT PLASTIC TUBING. LENGTH OF DEBONDING SHALL BE MEASURED FROM ENDS OF BEAM. DEBONDING SHALL BE ACCOMPLISHED BY SHELING STRANDS IN A SYMMETRICAL FASHION ABOUT THE CL OF THE BEAM NUMBER AND LENGTHS OF DEBONDED STRANDS FOR EACH SPAN LENGTH IS GIVEN IN THE PARTICULAR BEAMS DESIGN DATA TABLE. PLASTIC TUBING SHALL BE TAPED AT BOTH ENDS.
  - WHEN ALTERNATE BEAMS ARE TO BE SUPPLIED, THEIR DESIGNS SHALL BE BASED ON LOAD FACTOR DESIGN AND ALLOWABLE STRESS DESIGN AT ALL LOAD STAGES. ADDITIONALLY, ALL BEAMS SHALL BE DESIGNED TO MINIMIZE CAMBER, BUT SHALL HAVE A POSITIVE (UPWARD) CAMBER AFTER ALL LOSSES.
  - DEFINITIONS: JACKING FORCE/STRAND-MAX. FORCE IN INDIVIDUAL STRAND BEFORE ANY LOSSES HAVE OCCURRED, AS DEFINED BY AASHTO SPECIFICATIONS. INITIAL PRESTRESS FORCE-TOTAL PRESTRESS FORCE IN BEAM AT RELEASE AFTER 10% LOSSES DUE TO ELASTIC SHORTENING, CREEP AND SHRINKAGE HAVE BEEN DEDUCTED.
  - FINAL PRESTRESS FORCE-TOTAL PRESTRESS FORCE IN BEAM AT SERVICE LOADS AFTER ALL LOSSES HAVE OCCURRED.
  - BRIDGE GRADE: DUE TO THE DESIGN OF THE STANDARD ELASTOMERIC BEARING PADS, BEARING GRADES SHALL BE LIMITED TO 5 PER CENT OR LESS WHEN USING THESE PADS. IN CASES WHERE THE GRADE MUST BE GREATER THAN 5 PER CENT, A SPECIALLY DESIGNED PAD WILL BE REQUIRED.
  - DIMENSIONAL TOLERANCES SHALL BE AS SPECIFIED BY DIVISION VI, SECTION 6.4 OF THE P.C.I. "MANUAL FOR QUALITY CONTROL", 3RD EDITION.
  - THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-1A, BR-512A, BR-512B, BR-617A, BR-617B, BR-621A, BR-621B, BR-627A, BR-627B, BR-633A, BR-633B, BR-642A, BR-642B, BR-601, BR-602, BR-603, AND BR-604 AS APPLICABLE.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - STRUCTURES

DESIGNED BY: JRS-DHW  
CHECKED BY: GLH  
DATE: 3/13  
SCALE: NONE  
BRIDGE NUMBER: 29-11-3.50  
BRIDGE DESIGN NO.

STANDARD SHEET BR-8100

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS - STRUCTURES

MIKES RUN BRIDGE  
OVER  
MIKES RUN  
IN  
MINERAL COUNTY

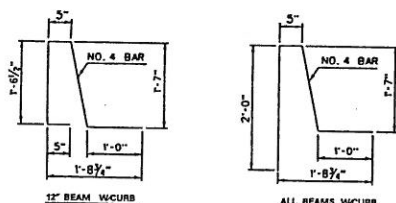
PRESTRESS CONCRETE BEAM  
DESIGN & ASSEMBLY DETAILS



| PUBLIC<br>ROADS<br>DIV. | STATE<br>DIST.<br>NO. | PROJECT NUMBER | COUNTY  | SHEET<br>NO. | TOTAL<br>SHTS |
|-------------------------|-----------------------|----------------|---------|--------------|---------------|
| W.VA.                   | 5                     | 5329-11-3.50   | MINERAL | 16           | 18            |

TO ACCOMMODATE THE 2" DIAMETER ANCHOR SLEEVE WHEN CENTER STRAND(S) IS/ARE SPECIFIED, STRANDS IN LAYER 1 AND 2 MAY BE MOVED HORIZONTALLY AS LONG AS THEY REMAIN SYMMETRICAL ABOUT THE CENTERLINE OF THE STRAND PATTERN. WHEN NECESSARY TO MOVE STRANDS VERTICALLY, THE ENGINEER SHALL CHECK DESIGN OF NEW PATTERN AND COMPLETE DESIGN TABLE WITH NEW DATA.

OPTION NO. 1

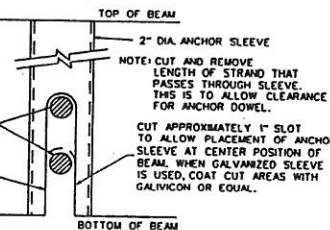


ALL BEAMS W/CURB  
(EXCEPT 12" BEAM)

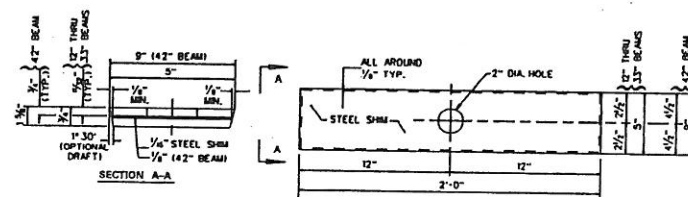
OPTION NO. 2

NOTE: WHEN CENTER STRANDS ARE USED, THEY ARE TO BE DEBOND A MINIMUM OF 1'-0". SEE SPECIFIC DESIGN DATA FOR PROPER DEBOND LENGTH.

TAPE CUT-OUT PORTION OF SLEEVE TO PREVENT CONCRETE FROM ENTERING ANCHOR HOLE.



ANCHOR SLEEVE DETAILS  
(USE WHEN CENTER STRAND IS SPECIFIED)



ELASTOMERIC BEARING PAD DETAIL

NOTES: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION 8, WITH A DUROMETER HARDNESS OF 60.

| 12" BEAM                              | 17" BEAM | 21" BEAM | 27" BEAM | 33" BEAM | 42" BEAM |
|---------------------------------------|----------|----------|----------|----------|----------|
| 0'-7"                                 | 0'-8"    | 0'-11"   | 1'-5"    | 1'-11"   | 2'-5"    |
| LENGTH OF BEAM MINUS 4"               |          |          |          |          |          |
| 1/10 SPAN, 26" LAP MIN. (SPLICE MIN.) |          |          |          |          |          |
| NO. 4 LR BAR                          |          |          |          |          |          |

| 12" BEAM                              | 17" BEAM | 21" BEAM | 27" BEAM | 33" BEAM | 42" BEAM |
|---------------------------------------|----------|----------|----------|----------|----------|
| 0'-7"                                 | 0'-8"    | 0'-11"   | 1'-5"    | 1'-11"   | 2'-5"    |
| LENGTH PER DESIGN TABLE               |          |          |          |          |          |
| 1/10 SPAN, 26" LAP MIN. (SPLICE MIN.) |          |          |          |          |          |
| NO. 4 ET BAR                          |          |          |          |          |          |

REINFORCING BAR DETAIL

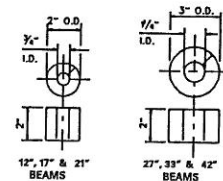
NOTES

- MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS. EXCEPT THAT NO. 3 AB AND AB-1 BARS THE MINIMUM BAR BENDING DIAMETER SHALL BE 4 BAR DIAMETERS. ALL DIMENSIONS ARE OUT TO OUT.
- IF OPTIONAL SPLICING OF LR AND ET BARS IS USED, TERMINATION OF LAP SPLICE SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10 OF THE SPAN LENGTH. ADDITIONALLY ALL LAP SPLICES SHALL BE CONTACT TYPE.

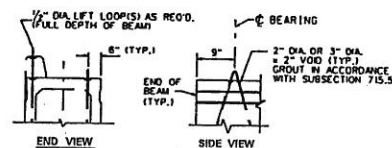
NOTE

THIS SHEET TO BE USED WITH STANDARD SHEET BR-10R BR-1A, BR-S12A, BR-S12B, BR-B17A, BR-B17B, BR-B21A, BR-B21B, BR-B27A, BR-B27B, BR-B33A, BR-B33B, BR-B42A, BR-B42B, BR-B10D, BR-B10E, BR-B10F, AND BR-B10G AS APPLICABLE.

| LAP SPLICE TABLE |       |       |       |       |       |
|------------------|-------|-------|-------|-------|-------|
| BAR NO.          | NO. 3 | NO. 4 | NO. 5 | NO. 6 | NO. 7 |
| GRADE 60         | 20"   | 26"   | 33"   | 38"   | 45"   |

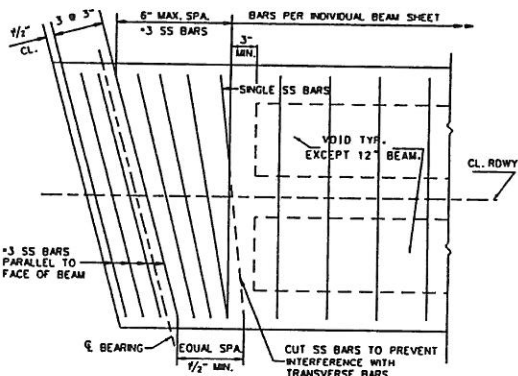


LIFTING LOOP  
BLOCKOUT DETAILS

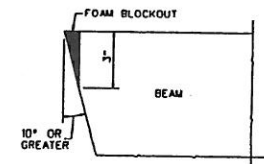


LIFT DETAILS

NOTE: LIFTING LOOPS SHALL NOT BE EPOXY COATED. ON SKEWED BEAMS LIFTING DEVICES SHALL BE LOCATED IN A LINE TRANSVERSE TO THE CENTERLINE OF BEAM.



SHEAR REINFORCEMENT DETAIL  
SKEWED BEAMS



BLOCKOUT DETAIL

- NOTES:
- FABRICATOR SHALL PROVIDE BLOCKOUT OF ACUTE CORNERS ON ALL BEAMS WITH SKEWS OF 10 DEGREES OR GREATER.
  - AFTER ERECTION, ALL INTERIOR BLOCK-OUT VOIDS SHALL BE FILLED WITH GROUT IN ACCORDANCE WITH SUBSECTION 715.5 OF THE STANDARD SPECIFICATIONS.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS-STRUCTURES

MIKES RUN BRIDGE  
OVER  
MIKES RUN  
IN  
MINERAL COUNTY

PRESTRESSED CONCRETE BEAM  
DESIGN & ASSEMBLY DETAILS

| REVISION | DATE   |
|----------|--------|
| 1        | 4-1-95 |
| 2        | 8-24   |
| 3        | 8-24   |

STANDARD SHEET BR-B101

|                    |            |
|--------------------|------------|
| DESIGNED BY:       | PKS        |
| DRAWN BY:          | OWW        |
| CHECKED BY:        | CLH        |
| DATE:              | 3/13       |
| SCALE:             | NONE       |
| SHEET NO.:         | 16         |
| BRIDGE NUMBER:     | 29-11-3.50 |
| BRIDGE DESIGN NO.: |            |



# GENERAL NOTES

1. POST-TENSIONING THREAD-BARS SHALL BE STRESSED AS FOLLOWS:  
Z-BARS TO KIPS AND Y-BARS TO KIPS AFTER FINAL POSITIONING OF BOX BEAMS AND GROUTING OF JOINTS BETWEEN BEAMS. CALCULATED THEORETICAL ELONGATION FOR Z-BAR IS 0.000 INCHES AND FOR Y-BAR IS 0.000 INCHES.
2. POST-TENSIONING THREAD-BARS SHALL BE ONE INCH DIAMETER, 150 KSI STEEL, AND SHALL CONFORM TO AASHTO M 255, TYPE I. STEEL THREAD-BARS SHALL BE DESIGNED TO ALLOW THE USE OF HEX NUTS AND COUPLERS THAT THREAD INTO THE DEFORMATIONS. 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 WILL BE PROVIDED FOR EACH HEAT OF STEEL THREAD-BARS.
3. ALL POST-TENSIONING THREAD-BARS, NUTS, BEARING PLATES, COUPLERS AND ANCILLARY HARDWARE SHALL BE HOT-DIP GALVANIZED TO AASHTO M 111. THE GALVANIZING PLANT SHALL ADMINISTER ADEQUATE QUALITY CONTROL MEASURES TO GUARANTEE AGAINST HYDROGEN EMBRITTLEMENT. QUALITY CONTROL MEASURES SHALL COMPLY WITH ASTM A-143. CERTIFICATIONS FOR HOT-DIP GALVANIZING SHALL BE PROVIDED BY THE GALVANIZING PLANT.
4. ALL REINFORCING STEEL SHALL BE GRADE 60 AND EPOXY COATED.
5. EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY MANUFACTURER AT THE FABRICATION PLANT WITH AN APPROVED CONCRETE SEALER (SILANE). AN APPROVED LIST OF CONCRETE SEALERS ARE ON FILE AT THE WEST VIRGINIA DIVISION OF HIGHWAYS - MATERIALS CONTROL, SOILS AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF INTERIOR BEAMS, AND TOP, BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAMS. APPLICATION RATE TO BE PER MANUFACTURER'S RECOMMENDATIONS.
6. AFTER COMPLETION OF SILANE TREATMENT BY MANUFACTURER AND A MAXIMUM OF FIVE WORKING DAYS BEFORE SHIPMENT OF BEAMS, THE MANUFACTURER SHALL BE RESPONSIBLE FOR SANDBLASTING TO CLEAN WHITE CONCRETE THE INTERIOR SIDES OF BEAMS FOR THE ENTIRE LENGTH. CLEAN WHITE CONCRETE SHALL MEAN REMOVAL OF ALL DIRT, GREASE AND LOOSE PIECES OF CONCRETE AND A FINISHED, UNCOLORED SURFACE. BLASTING MEDIUM SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.
7. SHEAR KEY GROUT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER FOR A POURABLE GROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA WILL ATTAIN A MINIMUM OF 4500 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER CONDITIONS REPRESENTATIVE OF THE CONDITION TO BE EXPERIENCED AT THE SITE. THE GROUT MUST ALSO 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 PRE-TEST THE PROPOSED GROUT FOR COMPRESSIVE STRENGTH AT 3 AND 7 DAYS AND SUBMIT THE RESULTS TO THE STRUCTURES DIVISION FOR APPROVAL PRIOR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A POURABLE CONSISTENCY WITH THE SAME WATER/GROUT MIXTURE RATIO TO BE USED IN THE STRUCTURE. TEST PROCEDURE SHALL BE THE STANDARD CYLINDER TEST PER AASHTO T 22.
8. CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH PROJECT, THE GROUT PRE-TEST RESULTS OBTAINED IN NOTE 7 ABOVE. CONTRACTOR SHALL BE REQUIRED TO PERFORM A NEW PRE-TEST AND SUBMISSION FOR APPROVAL UNDER THE FOLLOWING CONDITIONS:  
A) A PERIOD OF 18 MONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING; OR  
B) GROUT MANUFACTURER HAS REVISED OR CHANGED GROUT SPECIFICATIONS; OR  
C) CONTRACTOR ALTERS WATER/GROUT MIXTURE RATIO OR CHANGES GROUT TYPE OR MANUFACTURER.

## PROCEDURES

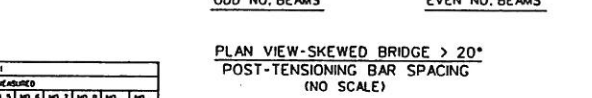
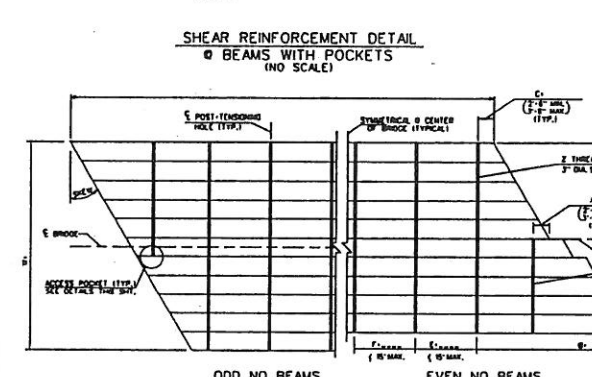
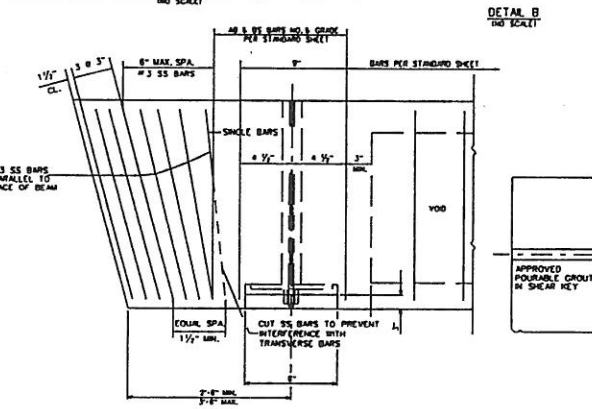
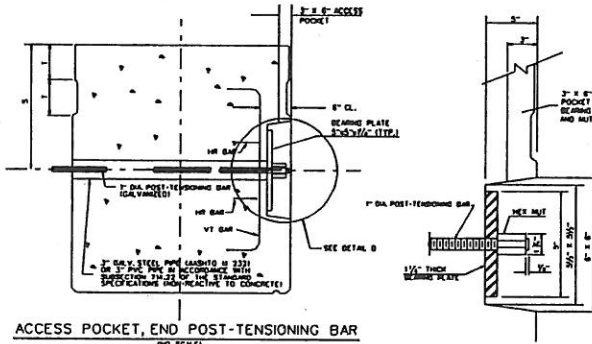
1. BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
2. AFTER ALL BEAMS ARE SET, THE BEAMS SHALL BE PULLED TOGETHER TRANSVERSELY BY APPLYING A SLIGHT POST-TENSIONING FORCE, APPROXIMATELY 3,000 POUNDS.
3. FILL THE SHEAR KEY GAP WITH THE PRE-APPROVED GROUT MIXTURE.
4. AFTER GROUT HAS BEEN PLACED FOR A MINIMUM OF 24 HOURS, APPLY 50% OF THE FINAL POST-TENSIONING TO ALL THREAD-BARS. WORKING BEAM ENDS TO MID-SPAN. AFTER ALL THREAD-BARS ARE TENSIONED TO 50% OF THE POST-TENSIONING FORCE, APPLY REMAINING PERCENTAGE OF FINAL POST-TENSIONING FORCE, TENSIONING IN SAME SEQUENCE AS ABOVE.
5. MEASURE AND RECORD, ON THE SPACE PROVIDED ON THE PLANS, THE ACTUAL TOTAL ELONGATION OF EACH THREAD-BAR. COMPARE THE ACTUAL ELONGATION TO THE PREDICTED ELONGATION. A SIGNIFICANT DIFFERENCE IN ACTUAL ELONGATION VERSUS PREDICTED ELONGATION COULD INDICATE IMPROPER JACKING TECHNIQUES, IMPROPER MATERIALS, FAULTY JACK OR IMPROPERLY CALIBRATED JACK. IF THE DIFFERENCE IS MORE THAN 15%, THEN THE JACK WILL BE RECALIBRATED AND THE JACKING TECHNIQUES EVALUATED. IF, AFTER RECALIBRATION OF THE JACKS AND ASSURANCE THAT THE JACKING TECHNIQUES ARE SATISFACTORY, THE ELONGATION DIFFERENCE IS MORE THAN 10% FROM THE ESTIMATED ELONGATION THEN THE ENGINEER WILL BE CONTACTED FOR ADVICE.
6. USING SAW, TRIM EXCESS THREAD-BAR LEAVING A MINIMUM OF 4" PAST THE NUT. DO NOT TRIM THREAD-BARS BY TORCH CUTTING. TOUCH UP TRIMMED ENDS WITH GALVICON, OR EQUAL.
7. INSTALL ANCHOR DOVELS AT EACH END.

| GROUT STRENGTH TABLE      |                   |
|---------------------------|-------------------|
|                           | 3 DAY 1 DAY (psi) |
| PRE-TEST STRENGTH         |                   |
| JOB CONTROL STRENGTH      |                   |
| GROUT TYPE & MANUFACTURER |                   |

- NOTES:
1. SHEAR REINFORCEMENT DETAIL FOR BEAMS WITHOUT POCKETS ARE PER STD. SHEET BR-801.
  2. 1 DIMENSION IS PER STD. BEAM SHEET.
  3. POST-TENSIONING BARS SHOULD BE SPACED TO AVOID INTERFERENCE WITH GUARDRAIL INSERTS.

| ELONGATION (INCHES) |      |
|---------------------|------|
| BAR                 | CODE |
| Z                   | ①    |
| Y                   | ②    |
| W                   | ③    |
| U                   | ④    |
| V                   | ⑤    |
| W                   | ⑥    |
| U                   | ⑦    |
| V                   | ⑧    |
| W                   | ⑨    |
| U                   | ⑩    |
| V                   | ⑪    |
| W                   | ⑫    |
| U                   | ⑬    |
| V                   | ⑭    |
| W                   | ⑮    |
| U                   | ⑯    |
| V                   | ⑰    |
| W                   | ⑱    |
| U                   | ⑲    |
| V                   | ⑳    |
| W                   | ㉑    |
| U                   | ㉒    |
| V                   | ㉓    |
| W                   | ㉔    |
| U                   | ㉕    |
| V                   | ㉖    |
| W                   | ㉗    |
| U                   | ㉘    |
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| V                   | ㊿    |

CALCULATED ① = WPT.1 / 24.8  
CALCULATED ② = WPT.1 / 10.2  
CALCULATED ③ = WPT.1 / 31.1  
CALCULATED ④ = WPT.1 / 31.2



NOTE  
THIS SHEET IS TO BE USED WITH STANDARD SHEET BR-101 OR BR-102, BR-103, BR-104, BR-105, BR-106, BR-107, BR-108, BR-109, BR-110, BR-111, BR-112, BR-113, BR-114, BR-115, BR-116, BR-117, BR-118, BR-119, BR-120, BR-121, BR-122, BR-123, BR-124, BR-125, BR-126, BR-127, BR-128, BR-129, BR-130, BR-131, BR-132, BR-133, BR-134, BR-135, BR-136, BR-137, BR-138, BR-139, BR-140, BR-141, BR-142, BR-143, BR-144, BR-145, BR-146, BR-147, BR-148, BR-149, BR-150, BR-151, BR-152, BR-153, BR-154, BR-155, BR-156, BR-157, BR-158, BR-159, BR-160, BR-161, BR-162, BR-163, BR-164, BR-165, BR-166, BR-167, BR-168, BR-169, BR-170, BR-171, BR-172, BR-173, BR-174, BR-175, BR-176, BR-177, BR-178, BR-179, BR-180, BR-181, BR-182, BR-183, BR-184, BR-185, BR-186, BR-187, BR-188, BR-189, BR-190, BR-191, BR-192, BR-193, BR-194, BR-195, BR-196, BR-197, BR-198, BR-199, BR-200, BR-201, BR-202, BR-203, BR-204, BR-205, BR-206, BR-207, BR-208, BR-209, BR-210, BR-211, BR-212, BR-213, BR-214, BR-215, BR-216, BR-217, BR-218, BR-219, 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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, BR-1001, BR-1002, BR-1003, BR-1004, BR-1005, BR-1006, BR-1007, BR-1008, BR-1009, BR-1010, BR-1011, BR-1012, BR-1013, BR-1014, BR-1015, BR-1016, BR-1017, BR-1018, BR-1019, BR-1020, BR-1021, BR-1022, BR-1023, BR-1024, BR-1025, BR-1026, BR-1027, BR-1028, BR-1029, BR-1030, BR-1031, BR-1032, BR-1033, BR-1034, BR-1035, BR-1036, BR-1037, BR-1038, BR-1039, BR-1040, BR-1041, BR-1042, BR-1043, BR-1044, BR-1045, BR-1046, BR-1047, BR-1048, BR-1049, BR-1050, BR-1051, BR-1052, BR-1053, BR-1054, BR-1055, BR-1056, BR-1057, BR-1058, BR-1059, BR-1060, BR-1061, BR-1062, BR-1063, BR-1064, BR-1065, BR-1066, BR-1067, BR-1068, BR-1069, BR-1070, BR-1071, BR-1072, BR-1073, BR-1074, BR-1075, BR-1076, BR-1077, BR-1078, BR-1079, BR-1080, BR-1081, BR-1082, BR-1083, 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## SECTION 101 DEFINITION OF TERMS

### 101.1-ABBREVIATIONS:

Whenever the following abbreviations are used in these Specifications, Plans or Contract Documents, they are to be construed the same as the respective expressions represented:

|         |                                                                       |
|---------|-----------------------------------------------------------------------|
| AAN     | American Association of Nurserymen                                    |
| AAR     | Association of American Railroads                                     |
| AASHTO  | American Association of State Highway and Transportation Officials    |
| AIA     | American Institute of Architects                                      |
| AISC    | American Institute of Steel Construction, Incorporated                |
| AISI    | American Iron and Steel Institute                                     |
| AMA     | Automotive Manufacturer's Association                                 |
| AMS     | Aerospace Material Specification                                      |
| ANSI    | American National Standards Institute                                 |
| ARA     | American Railway Association                                          |
| AREA    | American Railway Engineering Association                              |
| AREMA   | American Railway Engineering and Maintenance of Way Association       |
| ASCE    | American Society of Civil Engineers                                   |
| ASD     | Aluminum Standards & Data-Aluminum Association                        |
| ASLA    | American Society of Landscape Architects                              |
| ASTM    | American Society for Testing and Materials                            |
| ATSSA   | American Traffic Safety Services Association                          |
| AWWA    | American Water Works Association                                      |
| AWS     | American Welding Society                                              |
| FHWA    | Federal Highway Administration                                        |
| FSS     | Federal Specifications and Standards, General Services Administration |
| IEEE    | Institute of Electronic and Electrical Engineers                      |
| IPCEA   | Insulated Power Cable Engineers Association                           |
| ISA     | Instrument Society of America                                         |
| MIL     | Military Specification                                                |
| MP      | Materials Procedure (see 101.2 in definition)                         |
| NBFU    | National Board of Fire Underwriters                                   |
| NEC     | National Electric Code                                                |
| NEMA    | National Electrical Manufacturer's Association                        |
| NFPA    | National Fire Protection Association                                  |
| PEI-ALS | Porcelain Enamel Institute: Aluminum Standards                        |
| UL      | Underwriters Laboratories                                             |
| SAE     | Society of Automotive Engineers                                       |
| SSPC    | Society for Protective Coatings                                       |
| TTE-TTP | Federal Specifications and Standards                                  |

**101.2-DEFINITIONS:**

~ A ~

**ACCESS CONNECTION**-Any roadway facility by means of which vehicles enter or leave arterial highways.

**ADVERTISEMENTS**-The public announcement, as required by law, inviting bids for work to be performed, or material to be furnished.

**ARTERIAL HIGHWAY**-A general term denoting a highway primarily for through traffic.

**AUXILIARY LANE**-The portion of the roadway adjoining the traveled way for parking, speed-change or other purposes supplementary to through traffic movement.

**AWARD**-The acceptance by the Division of a bid.

~ B ~

**BASE COURSE**-A layer or layers of specified material of designated thickness placed on a subbase or a subgrade to support a surface course or courses.

**BIDDER**-An individual, firm, corporation, or combination thereof, acting directly or through a duly authorized representative, and prequalified according to the requirements and provisions of the Division, submitting a bid for the proposed work.

**BRIDGE**-A structure, including supports, erected over a depression or an obstruction, such as water, a highway or railway and having a track or passageway for carrying traffic or other moving loads and having a length measured along the center of roadway of more than 20 ft. (6.1 meters) between undercopings of abutments or extreme ends of openings for multiple boxes.

The length of a bridge structure is the overall length measured along the line of survey stationing back to back of abutments if present, otherwise, end to end of the bridge floor, but in no case less than the total clear opening of the structure. Roadway width is the clear width measured at right angles to the longitudinal centerline of the bridge between the bottom of curbs.

~ C ~

**CALENDAR DAY**-Every day shown on the calendar.

**CERTIFIED TECHNICIAN-A** Certified Technician is an individual who has been examined by the joint Industry-Division Certification Board and deemed competent in the particular technical field for which the individual has been examined. This competency is documented by written notification and issuance of a certificate to the individual and remains in effect for a given period of time as determined by the regulations of the Board. Should any questions develop concerning the status of an individual, verification may be made through the Training section of the Personnel Division of the Division.

**CHANGE ORDER-A** general term referring to force account work orders, supplemental agreements, and work orders of the Contract.

**CHANNEL-A** natural or artificial water course.

**CITY, TOWN OR DISTRICT-A** subdivision of the county used to designate or identify the location of the proposed work.

**COMMISSIONER-West Virginia** Commissioner of Highways.

**CONSTRUCTION LIMITS-The** physical limits of construction as described by designated lines drawn on the Plans.

**CONTRACT-The** written agreement between the Division and the Contractor covering the performance of the work, the furnishing of labor, equipment and materials, and the basis of payment. The Contract includes the invitation of bids, proposal, contract form, contract bond, specifications, supplemental specifications, special provisions, plans, notice to proceed, any change orders and supplemental agreements that are required to complete the construction of the work in an acceptable manner, including authorized extensions thereof, all of which constitute one instrument.

**CONTRACT BOND-The** approved form of security, executed by the Contractor and their surety, guaranteeing completion of the work and payment of all legal debts pertaining to the construction of the project.

**CONTRACT PERIOD-The** period from the specified date of commencement of work to the specified date of completion of the work, both dates inclusive, as is specified in the Contract.

**CONTRACT TIME-The** number of work or calendar days specified in the proposal, indicating the time allowed for the completion of the work contemplated, including authorized time extensions.

**CONTRACTOR-The** individual, firm or corporation, party of the second part to the Contract, acting directly or through their agents, employees, or subcontractors.

**CONTROL OF ACCESS, FULL**-The condition where the right of owners or occupants of abutting land or other persons to access, light, air or view in connection with a highway is fully controlled by public authority. The authority to control access is exercised to give preference to through traffic by providing access connections with selected public roads only and by prohibiting crossings at grade or direct driveway connections.

**CONTROL OF ACCESS, PARTIAL**-The condition where the right of owners or occupants of abutting land or other persons to access, light, air or view in connection with a highway is partially controlled by public authority. The authority to control access is exercised to give preference to through traffic to a degree that, in addition to access connections with selected public roads, there may be some crossings at grade and some private driveway connections.

**COUNTY**-The County or Counties of West Virginia in which the work is to be done.

**CULVERT**-Any structure not classified as a bridge which provides an opening under the roadway.

~ D ~

**DEPARTMENT**-West Virginia Department of Transportation.

**DIVISION**-West Virginia Division of Highways

**DIVIDED HIGHWAY**-A highway with separated roadways for traffic in opposite directions.

~ E ~

**EASEMENT**-A right acquired by one party to use land belonging to another party for a specified purpose.

**EMBANKMENT**-The structure of soils, soils aggregate and broken rock between the embankment foundation and the subgrade.

**EMBANKMENT FOUNDATION**-The material below the original ground surface whose physical characteristics affect the support of the embankment.

**EMPLOYEE**-Any person working on behalf of the project who is under the direction of the Contractor or any subcontractor.

**ENGINEER**-The State Highway Engineer of the Division, or an authorized representative, limited by the scope of duties assigned.



**EQUIPMENT**-All machinery and equipment, together with the necessary supplies for upkeep and maintenance, and also tools and apparatus necessary for the proper construction and acceptable completion of the work.

**ESTIMATES**-The official written itemization of the value of materials in place and work performed.

**EXPRESSWAY**-A divided arterial highway for through traffic with full or partial control of access and generally with grade separations at intersections.

**EXTRA WORK**-An item of work not provided for in the contract as awarded, but found essential to the satisfactory completion of the Contract within its intended scope. See further 104.3.

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**FORCE ACCOUNT WORK ORDER**-An order signed by the Engineer or an authorized representative, directing additional work to be performed, with payments based on labor, materials used, equipment cost, plus specified percentages.

**FREEWAY**-An expressway with full control of access.

**FRONTAGE STREET OR ROAD**-A local street or road auxiliary to and located on the side of an arterial highway for service to abutting property and adjacent areas, and for control of access.

~ G ~

~ H ~

**HIGHWAY**-The entire improvement comprising the entire right-of-way. See definition for Road in Section 101.

**HIGHWAY GRADE SEPARATION**-Any structure carrying highway or street traffic over or under another highway or street.

**HOLIDAYS**-Official holidays are New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, West Virginia Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Christmas Day, and any day in which an election (Primary or General) is held through the State and such other days as the President, Governor, or other duly constituted authority shall proclaim to be holidays. If a holiday falls on Sunday, the following Monday shall be observed in lieu thereof. If a holiday falls on a Saturday, the previous Friday shall be observed in lieu thereof.

## ~ I ~

**INSPECTOR**-The Engineer's authorized representative assigned to make any or all necessary inspection of the work as further described in 105.10.

**INSTRUCTIONS TO BIDDERS**-The notice to Contractors containing all necessary information as to provisions, requirements, date and time of submitting Proposals.

**INVITATION FOR BIDS**-The advertisement for bids, as required by law, inviting bids for work to be performed or material to be furnished.

**ITEM**-A specifically described unit of work for which a price is provided in the contract.

## ~ J ~

## ~ K ~

## ~ L ~

**LABORATORY**-The testing laboratories of the Division or any other testing laboratory designated by the Division.

**LOT**-A lot is an isolated quantity of specified material from a single source or a measured amount of specified construction assumed to be produced by the same process.

## ~ M ~

**MATERIALS**-Any substances specified for use in the construction of the project and its appurtenances.

**MATERIALS PROCEDURE**-A procedure defining standard methods or guidelines for the inspection, sampling, testing, evaluation, and documentation of the Material's Division activities relative to the quality assurance program for materials, products, and processes. Each Materials Procedure is identified by the letters MP followed by seven digits, (i.e. MP XXX.XX.XX).

**MEDIAN**-The portion of a divided highway separating the traveled ways for traffic in opposite directions.

**MEDIAN LANE**-A speed-change lane within the median to accommodate left-turning vehicles.

**MULTIPLE DEFICIENCY**-A multiple deficiency is defined as a failure to meet specified requirements involving more than one characteristic of a material within the same lot.

~ N ~

**NOTICE TO PROCEED**-Written notice to the Contractor to proceed with the contract work including, when applicable, the date of beginning of contract time.

~ O ~

~ P ~

**PARKING LANE**-An auxiliary lane primarily for the purpose of vehicular parking.

**PARKWAY**-An arterial highway for non-commercial traffic, with full or partial control of access, and usually located within a park or a ribbon of parklike development.

**PAVEMENT STRUCTURE**-The combination of subbase, base course, and surface course placed on a subgrade to support the traffic load and distribute it to the roadbed.

**PLANS**-The approved Plans, profiles, typical cross sections, working drawings, standard drawings, and supplemental drawings, or exact reproductions thereof, which show the location, character, dimensions and details of the work to be done.

**PRE-CONSTRUCTION CONFERENCE**-A conference normally called by the District Engineer, following award and prior to start of construction, to be attended by Division officials and by the responsible officials of the Contractor and other affected parties.

**PRE-QUALIFICATION STATEMENT**-The approved form or forms upon which Contractors shall furnish information as to their ability to perform work, their experience, personnel, equipment and financial condition.

**PROFILE GRADE**-The trace of a vertical plane intersecting the top surface of the proposed wearing surface, usually along the longitudinal centerline of the roadway. Profile grade means either elevation or gradient of such trace according to the context.

**PROJECT**-The specific section of the highway, together with all appurtenances and construction to be performed, under the Contract.

**PROJECT ENGINEER OR PROJECT SUPERVISOR**-The representative of the Engineer on a project. See further 105.9.

**PROPOSAL**-The offer of a bidder, on the prescribed form, to perform the work and to furnish the labor and material at the prices quoted.

**PROPOSAL FORM**-The approved form on which the Division requires a bid to be prepared and submitted for the work.

**PROPOSAL GUARANTY**-The security furnished with a bid to guarantee that the bidder will enter into the Contract if their bid is accepted.

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**RAILWAY-HIGHWAY SEPARATION**-Any structure carrying highway traffic over or under the tracks of any railway.

**RAMP**-A connecting roadway between two intersecting highways, usually at a highway grade separation.

**RIGHT-OF-WAY**-A general term denoting land, property, or interest, usually in a strip, acquired for or devoted to a highway.

**ROAD**-A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way, or needed for the maintenance of travel. See West Virginia Code, Chapter 17, Article 1, Section 3.

**ROADBED**-The grade portion of a highway, within top and side slopes, prepared as a foundation for the pavement structure and shoulders.

**ROADSIDE**-A general term denoting the area adjoining the outer edge of the roadway. Extensive areas between the roadways of a divided highway may also be considered roadside.

**ROADSIDE DEVELOPMENT**-Those items necessary to the complete highway which provide for the preservation of landscape materials and features; the rehabilitation and protection against erosion of all areas disturbed by construction through seeding, sodding, mulching and the placing of other ground covers; such suitable planting and other improvements as may increase the effectiveness and enhance the appearance of the highway.

**ROADWAY**-The portion of the highway within limits of construction.

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**SEASONAL RESTRICTIONS**-Limitations imposed on the work which prohibit the Contractor from performing certain types of work during specific seasons of the year.

**SHOULDERS**-The portion of the roadway contiguous with the traveled way for accommodation of stopped vehicles, for emergency use, and for lateral support of base and surface courses.

**SIDEWALK**-That portion of the roadway primarily intended for the use of pedestrians.

**SINGLE DEFICIENCY**-A single deficiency is defined as a failure to meet specified requirements involving one characteristic of a material.

**SPECIAL PROVISIONS**-Additions and revisions to the Standard and Supplemental Specifications covering conditions peculiar to an individual project.

**SPECIALTY ITEM**-An item of work designated as "Specialty Item" in the proposal that is limited to work which requires highly specialized knowledge, craftsmanship, or equipment that is not ordinarily available in contracting organizations prequalified to bid and is usually limited to minor components of the overall Contract.

**SPECIFICATIONS**-A general term applied to all directions, provisions, and requirements pertaining to performance of the work.

**STATE**-The State of West Virginia.

**STREET**-A general term denoting a public way for purposes of vehicular travel, including the entire area within the right-of-way.

**STRUCTURES**-Bridges, culverts, catch basins, drop inlets, retaining walls, cribbing, manholes, endwalls, buildings, sewers, service pipes, underdrains, foundation drains, and other features which may be encountered in the work and not otherwise classed.

**SUBBASE**-The layer or layers of specified or selected materials of designed thickness placed on a subgrade to support a base course.

**SUBCONTRACTOR**-An individual, firm, or corporation to whom the Contractor sublets part of the Contract.

**SUBGRADE**-The upper portion of a roadbed upon which the pavement structure and shoulders are constructed.

**SUBSTANTIAL COMPLETION or SUBSTANTIALLY**

**COMPLETE**-The work on the Contract will be considered substantially complete when the Project could be opened continuously for the safe, convenient, and unimpeded use of the traveling public, or the Project has met the intention of the plans, as reasonably determined by the Engineer.

**SUBSTRUCTURE**-All that part of the structure below the bearings of simple and continuous spans, skewbacks of arches and tops of footings of rigid frames, together with the backwalls, wingwalls, and wing protection railings.

**SUPERINTENDENT**-The Contractor's authorized representative in responsible charge of the work.

**SUPERSTRUCTURE**-The entire structure except the substructure.

**SUPPLEMENTAL AGREEMENT**-A modification of the Contract covering changes in the Plans or quantities, or both, and establishing the basis of payment and time adjustment for the work necessitated by reason of the modification, requiring the signature of the Commissioner, the Contractor, and the Surety, or their authorized representatives.

**SUPPLEMENTAL SPECIFICATIONS**-Additions to and revisions of the Standard Specifications that are approved subsequent to issuance of the printed book. Supplemental Specifications prevail over Standard Specifications when in conflict therewith.

**SURETY**-The corporation, partnership, or individual, other than the Contractor, executing a bond furnished by the Contractor.

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**TEMPORARY STRUCTURE**-A structure required for the use of traffic or other purpose while construction is in progress and not to be retained as a part of the improvement.

**TITLES**-The titles or headings of the sections and subsections are intended for convenience of reference and shall not be considered as having any bearing on their interpretation except those titles and headings used in conjunction with the definition of terms.

**TRAFFIC LANE**-The portion of the roadway for the movement of a single line of vehicles.

**TRAVELED WAY**-The portion of the roadway for the movement of vehicles, exclusive of shoulders and auxiliary lanes.



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**WORK-Work** shall mean the furnishing of all labor, materials, equipment, and other incidentals necessary or convenient to the successful completion of the project and the carrying out of all duties and obligations imposed by the contract.

**WORKING DAY**-Every day shown on the calendar, exclusive of Saturdays, Sundays, and Holidays as set forth in definitions for Holidays in Section 101, on which weather and other conditions not under the control of the Contractor will permit construction operations to proceed for a minimum of five hours with normal working forces engaged in performing the controlling item or items of work.

**WORKING DRAWINGS**-The Contractor shall submit to the Engineer all stress sheets, shop drawings, erection plans, falsework plans, framework plans, cofferdam plans, bending diagrams for reinforcing steel, or any other supplemental plans or similar data for the Engineer's use.

**WORK ORDER**-A written order, signed by the Engineer, requiring certain performance by the Contractor without negotiation. Such order shall not change quantities of major items beyond the twenty-five percent (25%) limitations, shall not create new items, nor make revisions to item prices.

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### 101.3-INTERPRETATIONS:

In order to avoid cumbersome and confusing repetition of expressions in these Specifications, it is provided that whenever anything is, or is to be done, if, as, or, when, or where "contemplated, required, determined, directed, specified, authorized, ordered, given, designated, indicated, considered necessary, deemed necessary, permitted, reserved, suspended, established, approval, approved, disapproved, acceptable, unacceptable, suitable, accepted, satisfactory, unsatisfactory, sufficient, insufficient, rejected, or condemned," it shall be understood as if the expression were followed by the words "by the Engineer" or "to the Engineer".

The Division may at its discretion issue to a Contractor a Proposal requiring prequalification in excess of the amount allotted the Contractor provided it considers that this Contractor is particularly fitted by reason of their experience or equipment, or both, to perform work of this type involved in an amount exceeding their prequalification limits and further provided that the prospective bidder furnish the Division with a letter from a reputable Surety advising of their willingness to furnish bond to the Contractor for the project.

When more than one project is advertised, Proposals will be issued on as many projects as the Contractor requests, providing the Contractor is qualified as above for each individual project, but no contracts will be awarded exceeding the permissible limit of the Contractor's prequalification rating except as otherwise provided in 103.1.

#### **102.4-INTERPRETATION OF APPROXIMATE ESTIMATES:**

The quantities appearing in the proposal form are approximate only and are prepared for the comparison of bids. Payment to the Contractor will be made only for the work accepted, or for materials furnished in accordance with the Contract. If upon completion of the construction the actual quantities show either increase or decrease, the unit bid prices offered in the Proposal will prevail except as further provided.

#### **102.5-EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:**

The bidder is required to examine carefully the Plans, Specifications, Supplemental Specifications, contract forms, and the site of the work contemplated. The submission of a bid shall be considered prima facie evidence that the bidder has made such examination and has judged for and satisfied themselves as to the character, quality, and quantity of work to be performed and material required to be furnished under the Contract.

#### **102.6-PREPARATION OF PROPOSAL:**

The bidders Proposal must be submitted through the Division's Bid Express Website. The bidder must furnish a unit price or a lump sum price as called for in the Proposal, in numerical figures, for each pay item listed, except that in the case of alternates, the bid may be made on only one alternate if so desired.

The Contractor or qualified and authorized agent shall use a digital signature as provided at law for the Proposal submission.

The proposal shall comply with West Virginia Contractor Licensing Act, Chapter 21, Article 11 Code of West Virginia, except that on Federal-Aid Projects a Contractor's license is not required at time of bid, but will be required before work can begin.

#### **102.7-IRREGULAR PROPOSALS:**

Proposals will be considered irregular and will be rejected for any of the following reasons:

## **SECTION 105**

### **CONTROL OF WORK**

#### **105.1-AUTHORITY OF THE ENGINEER:**

The Engineer will decide all questions which may arise as to the quantity, quality, and acceptability of materials furnished and work performed, and as to the rate of progress of the work; all questions which may arise as to the interpretation of the Plans and Specifications; and all questions as to the acceptable fulfillment of the Contract on the part of the Contractor. The decision of the Engineer will be final.

The Engineer will have the authority to suspend the work wholly or in part due to the failure of the Contractor to correct conditions unsafe for the employees or the general public, for failure to carry out orders, for such periods as the Engineer may deem necessary due to unsuitable weather, for conditions considered unsuitable for the prosecution of the work, or for any other condition or reason deemed to be in the public interest. All such suspension orders will be directed to the Contractor in writing.

The Engineer is not authorized to increase the obligation of the Division to any Contract except as provided.

#### **105.2-PLANS AND WORKING DRAWINGS:**

Approved Plans will show the location, profile, typical cross section, structures, except as specified, incidental items, and a summary of all items appearing in the Proposal. Any deviations which may be required by the exigencies of the construction will be determined by the Engineer and authorized by the Engineer in writing. The Contractor shall keep one set of approved Plans available on the work at all times.

Plans will show such details as are necessary to give a comprehensive idea of the construction contemplated. Any information which may be shown on drawings regarding results obtained from test piles or borings will be a record of conditions encountered at the place where such test piles were driven or borings were made, as nearly as these conditions could be interpreted by the Engineer observing the operations. The Contractor shall interpret the data in the light of their own experience. The Contractor is not bound to accept or rely on the data shown on the drawings, but may make such additional borings and investigations, including test piles, as the Contractor may desire in order to satisfy themselves concerning the lengths of piles and the conditions governing or entering into the construction of foundations.

The Plans will show the foundation depths and dimensions on which the estimate of quantities is based. These depths and foundation dimensions, however, are subject to such variations as may be necessary to secure a foundation satisfactory to the Engineer, and the right is expressly reserved to increase or diminish the dimensions and depths of the foundations as the Engineer may determine.

The Contractor shall submit to the Engineer all stress sheets, shop drawings, erection plans, falsework plans, framework plans, cofferdam plans, bending diagrams for reinforcing steel, or any other supplemental plans or similar data for the Engineers use.

any submittal which does not comply with the requirements of this Special Provision. The verification and distribution or rejection of Contractor approved shop drawings will normally require seven (7) calendar days after receipt of the drawings.

Additional certifications and/or slightly different wording of the above tow certification may be used if approval is given by the Legal Division. This approval must be obtained prior to any submission of contractor approved shop drawings. This approval may take up to thirty (30) days to be obtained. If this approval is obtained, a copy of the approval letter must be submitted with the first submission of shop drawings for distribution.

The Division shall reserve the right to review any submission of shop drawings or catalog sheets. This review shall not delay the contractor in the construction project or delay the distribution of the approved shop drawings or catalog sheets.

### **105.3-CONFORMITY WITH PLANS AND SPECIFICATIONS:**

All work performed and all materials furnished shall be in reasonably close conformity with the lines, grades, cross sections, dimensions and material requirements, including tolerances, shown on the Plans or indicated in the Specifications.

Should the Engineer determine the materials, or the finished product do not conform to the Specifications or the Plans, the Engineer will then make a determination if the work will be accepted and remain in place in accordance with 106.3.1 and 106.7. In this event, the Engineer will document the basis of acceptance by contract modification which will provide for an adjusted payment. All nonconforming material or construction judged to be inadequate for the use intended shall be either reworked or removed and replaced at no expense to the Division.

Each supplemental agreement containing an adjusted price will also have added the sum of Two Hundred Dollars to each adjusted price, for the Divisions administration costs, to be deducted from monies due the Contractor.

### **105.4-COORDINATION OF PLANS, SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS:**

These Specifications, the Supplemental Specifications, the Plans, Special provisions, and all Supplementary Documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. In case of discrepancy, calculated dimensions will govern over scaled dimensions; Supplemental Specifications will govern over Specifications; Plans will govern over Specifications and Supplemental Specifications; Special Provisions will govern over Specifications, Supplemental Specifications and Plans. When the plans provide that new work is to connect with existing structures, the Contractor must verify all dimensions with the Engineer before proceeding with the work.

The Specifications, Supplemental Specifications, and Special Provisions are in dual units. The first Primary unit is in English with the Metric unit

following in parentheses “( )”. The Metric values are considered replacements for the English units and they are not conversions.

The Contractor shall take no advantage of any apparent error or omission in the Plans or Specifications. In the event the Contractor discovers such an error or omission, the Contractor shall immediately notify the Engineer. The Engineer will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the Plans and Specifications.

#### **105.5-COOPERATION BY CONTRACTOR:**

The Contractor will be furnished One (1) complete set of plans and profile sheets, and one (1) set of Cross Sections upon request, without charge. The Contractor shall maintain on the Project at all times one complete set of Plans, Specifications, and Special Provisions.

The Contractor shall give the work the constant attention necessary to facilitate the progress thereof, and shall cooperate with the Engineer, their inspectors, other Contractors, and utilities in every way possible.

The Contractor shall have on the work at all times, as an agent, a competent superintendent capable of reading and thoroughly understanding the Plans and Specifications, and thoroughly experienced in the type of work being performed, who shall receive instructions from the Engineer or an authorized representatives. The Superintendent shall have full authority to execute orders or directions of the Engineer without delay, and to promptly supply such materials, equipment, tools, labor, and incidentals as may be required. Such superintendence shall be furnished irrespective of the amount of work sublet.

The Contractor shall furnish to the Engineer a list of addresses and telephone numbers of their personnel who may be reached in case of emergency during hours when no work is to be performed. On weekends, holidays, during suspensions of work, and during storms the Contractor shall alert certain of their personnel to stand by and shall inform the Engineer of arrangements so made.

The Contractor shall provide all reasonable facilities and furnish the Division the information, assistance and samples required by the Engineer and Inspector for proper inspecting or testing of materials and workmanship.

On some contracts it may be necessary, to insure proper coordination between the work of the Contractor and the work of various utilities, to hold a pre-construction utility meeting. The Division will arrange for the affected utilities to be present. The Contractor or their representative, authorized to make decisions for them in regard to the scheduling of the proposed work, is required to attend the meeting. A report of the pre-construction utility meeting will be prepared and distributed by the Engineer to all represented at the meeting.

#### **105.6-COOPERATION WITH UTILITIES:**

The Division will notify all utility companies, all pipe line owners, or other parties affected, and endeavor to have all necessary adjustments of the public or private utility fixtures, sewers, pipe lines, and other appurtenances within or adjacent to the limits of construction, made as soon as practicable.

Water lines, gas lines, wire lines, sewer lines, service connections, water and gas meter boxes, water and gas valve boxes, light standards, cableways, signals, and all other utility appurtenances within the limits of the proposed construction which are to be relocated or adjusted are to be moved by the owners



with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others.

In the event the Engineer finds further coordination effort is necessary, the Engineer shall call a meeting of the Contractors involved. After the meeting has been held, the Engineer may notify the Contractors of the action required of each and the Engineer's decision shall be final.

#### **105.8-CONSTRUCTION STAKES, LINES AND GRADES:**

Except when "Construction Layout Stakes", is included in the Contract, the Engineer will set construction stakes establishing lines, slopes and continuous profile-grade, together with necessary reference stakes and bench marks. The Engineer will set sufficient right-of-way stakes to define the right-of-way limits. The Engineer will set stakes to mark centerline and establish bench marks for bridges and special structures as may be considered necessary.

The stakes and marks in the paragraph above shall constitute field control by and in accordance with which the Contractor shall establish all additional stakes and marks necessary to secure a correct layout of all the work. All stakes, except those set by the Engineer, shall be furnished by the Contractor. The Contractor shall not engage the services of any person or person in the employ of the Division for the performance of any of the Contractor's layout work.

The Contractor shall be responsible for having the finished work in reasonably close conformity with the lines, grades, elevations, and dimensions called for on the Plans or established by the Engineer. The Contractor shall be held responsible for the preservation of stakes, marks, and references, and shall have them reset at the Contractor's expense when they are damaged, lost, displaced, or removed.

#### **105.9-AUTHORITY AND DUTIES OF THE PROJECT ENGINEER OR PROJECT SUPERVISOR:**

The project Engineer or Supervisor has immediate charge of the engineering details of each construction project. The Engineer or Supervisor are responsible for the administration and satisfactory completion of the project.

The Project Engineer or Supervisor has the authority to reject defective material and to suspend any work that is being improperly performed.

The Project Engineer or Supervisor will have the authority to suspend the work wholly or in part due to the failure of the Contractor to correct conditions unsafe for the employees or the general public; for failure to carry out provisions of the Contract; for failure to carry out orders; for such periods as they may deem necessary due to unsuitable weather. All such suspension orders will be directed to the Contractor in writing. The suspension of the work for the above reasons does no relieve the Contractor of their responsibility according to 107.16.

#### **105.10-AUTHORITY AND DUTIES OF THE INSPECTOR:**

Inspectors employed by the Division will be authorized to inspect all work done and materials furnished. Such inspection may extend to all or any part of the work and to the preparation, fabrication or manufacture of the materials to be used. The Inspector is not authorized to alter or waive the provisions of the Contract. The Inspector is authorized to call the attention of the Contractor to any failure of the work or materials to conform to the Specifications and Contract.



The Inspector is authorized to reject materials which do not meet specification requirements or suspend the portion of the work involved until any question at issue can be referred to the Project Engineer or Project Supervisor. The Inspector is not authorized to issue instructions contrary to the Plans and Specifications. The Inspector shall not act as foreman or perform other duties for the Contractor, nor interfere with the management of the work by the latter.

#### **105.11-INSPECTION OF WORK AND MATERIALS:**

All materials and each part or detail of the work shall be subject to inspection by the Engineer. The Engineer or a representative shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection. To facilitate the inspection of materials, all delivery tickets shall contain as a minimum the information required in MP 700.00.01.

At the Engineer's request, the Contractor, at any time before acceptance of the work, shall remove or uncover such portions of the finished work as may be directed. After examination, the Contractor shall restore said portions of the work to the standard required by the Specifications. Should the work thus exposed or examined prove acceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed will be paid for as extra work; but should the work so exposed or examined prove unacceptable, the uncovering, or removing, and the replacing of the covering or making good of the parts removed shall be at the Contractor's expense.

Any work done or materials used without supervision or inspection by an authorized Division representative may be ordered removed and replaced at the Contractor's expense. Failure to reject any defective material or work shall not in any way prevent later rejection when such defects are discovered, nor obligate the Division to final acceptance.

When any unit of government or political subdivision or any railroad corporation is to pay a portion of the cost of the work covered by this Contract, its respective representatives shall have the right to inspect the work. Such inspection shall in no sense make any unit of government or political subdivision or any railroad corporation a party to this Contract, and shall in no way interfere with the rights of either party hereunder.

No work shall be done at night, Saturdays, Sundays, or Holidays without documented prior approval of the Engineer.

#### **105.12-REMOVAL OF UNACCEPTABLE AND UNAUTHORIZED WORK:**

Except as provided in 105.3, all work which does not conform to the requirements of the Contract will be considered as unacceptable work.

Unaccepted work, whether the result of poor workmanship, use of defective materials, damage through carelessness or any other cause, found to exist prior to the final acceptance of the work, shall be removed immediately and replaced in an acceptable manner.

Unacceptable material shall be removed from the job site.

No work shall be done without lines and grades having been given or approved by the Engineer. Work done contrary to the instructions of the Engineer, work done beyond the lines shown on the Plans, or as given, except as specified, or any extra work done without authority, will be considered as

unauthorized and will not be paid for under the provisions of the Contract. Work so done may be ordered removed or replaced at the Contractor's expense.

Upon failure on the part of the Contractor to comply promptly with any order of the Engineer, made under the provisions of this Subsection, the Engineer will have authority to cause unacceptable work to be remedied or removed and replaced and unauthorized work to be removed, and to deduct the costs from any monies due or to become due the Contractor.

#### **105.13-LOAD RESTRICTIONS:**

The Contractor shall comply with all legal load restrictions in the hauling of materials on public roads. A special permit will not relieve the Contractor of liability for damage which may result from the moving of equipment.

The operation of equipment of such weight or so loaded as to cause damage to structures or the roadway or to any other type of construction will not be permitted. Hauling of materials over the base course or surface course under construction shall be limited as directed. No loads will be permitted on a concrete pavement, base or structure before the expiration of the curing period. In no case shall legal load limits be exceeded unless permitted in writing. The Contractor shall be responsible for all damage done by their own equipment.

#### **105.14-MAINTENANCE DURING CONSTRUCTION:**

The Contractor shall maintain the work during construction and until the project is accepted except as otherwise provided in 105.16.1. This maintenance shall constitute continuous and effective work prosecuted day by day, with adequate equipment and forces to the end that the roadway and structures are kept in satisfactory condition at all times.

In the case of a Contract for the placing of a course upon a course or subgrade previously constructed, the Contractor shall maintain the previous course or subgrade during all construction operations.

All cost of maintenance work during construction and before the project is accepted shall be included in the unit prices bid on the various pay items, and the Contractor will not be paid an additional amount for such work except as otherwise provided in 104.5.

#### **105.15-FAILURE TO MAINTAIN ROADWAY OR STRUCTURE:**

If the Contractor, at any time, fails to comply with the provisions of 105.14, the Engineer will immediately notify the Contractor of such non-compliance. If the Contractor fails to remedy unsatisfactory maintenance within 24 hours after receipt of such notice, the Engineer may immediately proceed to maintain the project, and the entire cost of maintenance will be deducted from monies due or to become due the Contractor on their Contract.

#### **105.16-ACCEPTANCE:**

**105.16.1-Partial Acceptance:** If at any time during the prosecution of the project, the Contractor completes a unit or portion of the project, such as a structure, an interchange, or a section of road or pavement, the Contractor may request the Engineer to make final inspection of that unit. If the Engineer finds upon inspection that the unit has been completed in compliance with the

as provided in 652 without additional compensation. Where practicable, borrow pits, gravel pits, and quarry sites shall be located so they will not be visible from the highway.

In accordance with the agreement between the Division of Highways and the Division of Environmental Protection, the Contractor cannot furnish material from borrow areas outside the right of way for any other public or private use.

### **106.3-SAMPLES, TESTS, CITED SPECIFICATIONS:**

All materials will be inspected, tested and approved prior to incorporation into the work. Any work which incorporates materials prior to the above evaluation shall be performed at the Contractor's risk, and may subsequently be considered as unacceptable. Unless otherwise specified, the materials shall meet the applicable Standard or Interim Specifications of the American Association of State Highway and Transportation Officials, the Standard or Tentative Specifications of the American Society for Testing and Materials, or Standards adopted by other specifying agencies, with preference given in the same order in which the above agencies are listed. The specification which is current at the time of advertisement for bids shall govern, except that, with the approval of the Engineer, subsequent revisions or adoptions may govern. All materials being used are subject to inspection, testing or rejection at any time prior to final acceptance of the completed work.

The Contractor shall be responsible for the quality of construction and materials incorporated. When called for in the Specifications, the Contractor shall perform all necessary process control inspection, sampling and testing. All materials will be approved for acceptance through the Division's acceptance procedures. The Division has the exclusive right and responsibility for determining the acceptability of the construction and materials incorporated. The Division may use the results of the Contractor's inspection, sampling and testing for acceptance purposes.

Lot or subplot sizes will normally be designated. In the event that operational conditions cause work to be interrupted, or only partially completed before the lot size designated has been achieved, the lot or subplot may be redefined by the Engineer as being either the amount of work accomplished within the day or that work partially completed combined with the next lot or subplot of work. It is the intent of these Specifications that the number of samples required to evaluate each lot or subplot will be unchanged even when the lot or subplot is redefined.

When an acceptance plan is cited, it shall be in accordance with 106.3.1.

#### **106.3.1-Acceptance Plans:**

**106.3.1.1-Percent Within Tolerance:** The percentage of each lot or subplot of material, product, item of construction, or completed construction within the specified tolerances will be determined by the procedures as referenced by the specification requirements. When West Virginia AP-A is referenced, it will consist of Tables 106-1 to 106-5 inclusive, published in MP 106.00.20.

**106.3.1.2-Sampling of Reworked Lots or Sublots:** It is the intent of these Specifications that lots or sublots of materials, products, items of construction or completed construction meet specification requirements at the time of submission. Lots or sublots generally will not be resampled unless reworked before submission. Sampling after reworking will be at the expense of the Contractor.

**106.4-PLANT INSPECTION:**

The Engineer may undertake the inspection of materials at the source.

In the event plant inspection is undertaken, the following conditions shall be met:

- i. The Engineer shall have the cooperation and assistance of the Contractor and the producer with whom the Contractor has contracted for materials.
- ii. The Engineer shall have full entry at all times to such parts of the plant as may concern the manufacture or production of the materials being furnished.
- iii. Adequate safety measures are to be provided and maintained.

The Division reserves the right to retest all materials, which have been tested and accepted at the source of supply, after the materials have been delivered to the project and prior to incorporation into the work and to reject all materials which, when retested, do not meet the requirements of these Specifications or those established for the specific project.

**106.5-STORAGE OF MATERIALS:**

Materials shall be so stored as to assure the preservation of their quality and fitness for the work. Stored materials, even though approved before storage, may again be inspected prior to their use in the work. Stored materials shall be located so as to facilitate their prompt inspection. Approved portions of the right-of-way may be used for storage purposes and for the placing of the Contractor's plant and equipment, but any additional space required therefore must be provided by them at their expense. Private property shall not be used for storage purposes without written permission of the owner or lessee, and if requested by the Engineer, copies of such written permission shall be furnished. All storage sites shall be restored to their original condition by the Contractor at their expense. This shall not apply to the stripping and storing of topsoil, or to other materials salvaged from the work.

Care shall be exercised to protect finished concrete surfaces from being stained from storing or placing materials, including but not limited to reinforcing bars or mesh or unpainted structural steel, on same. Any such material so stored shall be adequately protected from weather. Any stains resulting from storage of materials on finished concrete surfaces shall be removed by the Contractor at their expense.

Aggregate stockpiles may be made on ground that is denuded of vegetation, hard, and well drained. If necessary, the ground shall be covered with two inch (50 mm) plank. Different kinds and sizes of aggregates shall be kept separate during transportation, handling, and storage until batched. If necessary,

partitions of suitable height and strength shall be constructed between stockpiles to prevent different materials from becoming mixed. Care must be taken to prevent segregation of the coarse and fine particles of aggregates from taking place during handling or hauling. The inclusion of foreign materials will not be permitted. Aggregates placed directly on the ground shall not be removed from the stockpiles within one foot (300 mm) of the ground until the final cleaning up of the work, and then only the clean aggregate will be permitted to be used.

#### **106.6-HANDLING MATERIALS:**

All materials shall be handled in such manner as to preserve their quality and fitness for the work. Aggregates shall be transported from the storage site to the work in tight vehicles, so constructed as to prevent loss or segregation of materials after loading and measuring, in order that there may be no inconsistencies in the quantities of materials intended for incorporation in the work as loaded and the quantities as actually received at the place of operations.

#### **106.7-UNACCEPTABLE MATERIALS:**

**106.7.1-Acceptance or Rejection:** Following the application of the appropriate acceptance plan, the decision of the Engineer will be final as to the acceptance, rejection, or acceptance at an adjusted price of sampled lots or sublots.

**106.7.2-Disposition of Lots or Sublots:** Lots or sublots not conforming to specification requirements may be reworked or removed and replaced and resubmitted for acceptance. All nonconforming lots or sublots evaluated as unsatisfactory for the use intended shall be reworked or removed and replaced and resubmitted for acceptance. When the evaluation indicates the lots or sublots may satisfactorily remain in place, acceptance will be an adjusted price as stated in the Specifications or as directed by the Engineer.

#### **106.8-DIVISION-FURNISHED MATERIAL:**

The Contractor shall furnish all materials required to complete the work, except those specified to be furnished by the Division.

Materials furnished by the Division will be delivered or made available to the Contractor at the points specified in the Contract.

The cost of handling and placing all materials after they are furnished to the Contractor shall be considered as included in the contract price for the item in connection with which they are used.

The Contractor will be held responsible for all material delivered to them, and deductions will be made from any monies due the Contractor to make good any shortages and deficiencies, from any cause whatsoever, and for any damage which may occur after such delivery, and for any demurrage charges.

#### **106.9-SILENCE OF SPECIFICATIONS:**

The apparent silence of these Specifications, Supplemental Specifications, plans and Special Provisions as to any detail, or the apparent omission from them of a detailed description concerning any point shall be regarded as meaning that only material and workmanship of acceptable quality are to be used.



## **SECTION 107**

### **LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**

#### **107.1-LAWS TO BE OBSERVED:**

The Contractor shall keep fully informed of all Federal and State laws, all local laws, ordinances, and regulations and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the work, or which in any way affect the conduct of the work. The Contractor shall at all times observe and comply with all such laws, ordinances, regulations, orders and decrees; and shall protect and indemnify the State and its representatives against any claim or liability arising from or based on the violation of any such laws, ordinances, regulations, orders, or decrees, whether by themselves, their subcontractors or their employees.

#### **107.2-PERMITS, LICENSES AND TAXES:**

The Contractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the work.

#### **107.3-PATENTED DEVICES, MATERIALS, AND PROCESSES:**

If the Contractor employs any design, devise, material, or process covered by letters of patent or copyright, the Contractor shall provide for such use by suitable legal agreement with the patentee or owner. The Contractor and the surety shall indemnify and save harmless the Division, and affected third party, or political subdivision from and claims for infringement by reasons of the use of any such patented design, device, material or process, or any trademark or copyright, and shall indemnify the Division for any costs, expenses, and damages which it may be obligated to pay by reason of any infringement, at any time during the prosecution or after the completion of the work.

#### **107.4-RESTORATION OF SURFACES OPENED BY PERMIT:**

The right to construct or reconstruct any utility service in the highway or street or to grant permits for same, at any time, is expressly reserved by the Division for the proper authorities of the municipality in which the work is done, and the Contractor shall not be entitled to any damages either for the digging up of the street or for any delay occasioned.

Any individual, firm, or corporation wishing to make an opening in the highway must secure a permit from the Division. The Contractor shall allow parties bearing such permits, and only those parties, to make openings in the highway. The Contractor shall, when ordered by the Engineer, make in an acceptable manner all necessary repairs due to such openings and such necessary work will be paid for as "Extra Work", or as provided in these Specifications, and will be subject to the same conditions as original work performed.

#### **107.5-FEDERAL-AID PROVISIONS:**

When the United States Government pays any portion of the cost of a project, the Federal Laws and the Rules and Regulations made pursuant to such laws must be observed by the Contractor, and the work shall be subject to the inspection of the appropriate Federal Agency.



#### **107.12-PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE:**

The Contractor shall be responsible for the preservation of all public and private property and shall protect carefully from disturbance or damage all land monuments and property marks until the Engineer has witnessed or otherwise referenced their location and shall not move them until directed.

The Contractor shall be responsible for all damage or injury to property of any character, during the prosecution of the work, resulting from any act, omission, neglect, or misconduct in the Contractor's manner or method of executing the work, or at any time due to defective work or materials, and this responsibility will not be released until the project shall have been completed and accepted.

When or where and direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or in consequence of the nonexecution thereof by the Contractor, the Contractor shall restore, at their own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or the Contractor shall make good such damage or injury in as acceptable manner.

#### **107.13-FOREST PROTECTION:**

In carrying out work within or adjacent to State or National Forests, the Contractor shall comply with all regulations of the State Fire Marshall, Division of Natural Resources, or any other authority having jurisdiction, governing the protection of forests and the carrying out of work within forests, and shall observe all sanitary laws and regulations with respect to the performance of work in forest areas. The Contractor shall keep the areas in an orderly condition, dispose of all refuse, obtain permits for the construction and maintenance of all construction camps, stores, warehouses, residences, latrines, cesspools, septic tank, and other structures in accordance with the requirements of the Forest Supervisor.

The Contractor shall take all reasonable precaution to prevent and suppress forest fires and shall require their employees and subcontractors, both independently and at the request of forest officials, to do all reasonably within their power to prevent and suppress and to assist in preventing and suppressing forest fires and to make every possible effort to notify a forest official at the earliest possible moment of the location and extent of any fire seen by them.

#### **107.14-RESPONSIBILITY FOR DAMAGE CLAIMS:**

The Contractor shall indemnify and save harmless the Division, its officers and employees, from all suits, actions, or claims of any character brought because of any injuries or damage received or sustained by any person, persons, or property on account of the operations of the Contractor; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in constructing the work; or because of any act or omission, neglect, or misconduct of the Contractor; or because of any claims or amounts recovered from any infringements of patent, trademark, or copyright; or from any claims or amounts arising or recovered under the "Worker's Compensation Act," or any other law, ordinance, order, or decree; and so much of the money due the Contractor under and by virtue of their Contract as may be

considered necessary by the Division for such purpose may be retained for the use of the Division or, in case no money is due, their surety may be held until such suit or suits, action or actions, claim or claims for injuries or damages as aforesaid shall have been settled and suitable evidence to that effect furnished to the Division; except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that the Contractor is adequately protected by public liability and property damage insurance.

#### **107.15-OPENING SECTIONS OF PROJECT TO TRAFFIC:**

At the option of the Engineer, certain sections of the work may be opened for traffic. Such opening will not constitute acceptance of the work, or any part thereof, or a waiver of any provisions of the Contract; provided however, that on such portions of the project as are accepted for use of traffic, the Contractor shall not be required to assume any expense entailed in maintaining the roadway for traffic. Such expense will be borne by the Division or will be compensated for in the manner provided in 109.4. Any damage to the highway not attributable to traffic which might occur on such section, except slides, shall be repaired by the Contractor at their expense. The removal of slides shall be performed by the Contractor and payment will be in accordance with 104.3.

If the Contractor is dilatory in completing shoulders, drainage structures, or other features of the work, the Engineer may order all or a portion of the project open to traffic, but in such event the Contractor shall not be relieved of their liability and responsibility during the period the work is so opened prior to final acceptance. The Contractor shall conduct the remainder of their construction operations so as to cause the least obstruction to traffic.

#### **107.16-CONTRACTOR'S RESPONSIBILITY FOR WORK:**

Until final written acceptance of the project by the Engineer, the Contractor shall have the charge and care thereof and shall take every precaution against injury or damage to any part thereof by the action of the elements, or from the nonexecution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof except damage to the work due to unforeseeable causes beyond the control of and without the fault of or negligence of the Contractor, including but not restricted to acts of God, of the public enemy or governmental authorities.

In case of suspension of work from any cause whatever, the Contractor shall be responsible for the project and shall take such precautions as may be necessary to prevent damage to the project, provide for normal drainage and to erect any necessary temporary structures, signs, or other facilities at their expense. During such period of suspension of work, the Contractor shall properly and continuously maintain in an acceptable growing condition all living material in newly established plantings, seedings, and soddings furnished under their Contract, and shall take adequate precautions to protect new tree growth and other important vegetative growth against injury.

#### **107.17-CONTRACTOR'S RESPONSIBILITY FOR UTILITY PROPERTY AND SERVICES:**

At points where the Contractor's operations are adjacent to properties of railway, telegraph, telephone, and power companies, or are adjacent to other property, damage to which might result in considerable expense, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal and rearrangement operations in order that these operations may progress in a reasonable manner, that duplication of rearrangement work may be reduced to a minimum, and that services rendered by those parties will not be unnecessarily interrupted.

In the event of interruption to water or utility services as a result of accidental breakage, or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority and shall cooperate with such authority in the restoration of service. If water service is interrupted, repair work shall be continuous until the service is restored. No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

#### **107.18-FURNISHING RIGHT-OF-WAY:**

The Division will be responsible for securing all necessary right-of-way in advance of construction. Any exceptions will be indicated in the Contract.

#### **107.19-PERSONAL LIABILITY OF PUBLIC OFFICIALS:**

In carrying out any of the provisions of these Specifications, or in exercising and power or authority granted to them by or within the scope of the Contract, there shall be no liability upon the Commissioner, Engineer, or their authorized representatives, either personally or as officials of the State, it being understood that in all such matters they act solely as agents and representatives of the Division.

#### **107.20-NO WAIVER OF LEGAL RIGHTS:**

The Division shall not be precluded or estopped by any measurement, estimate, or certificate made either before or after the completion and acceptance of the work and payment therefor, from showing the true amount and character of the work performed and materials furnished by the Contractor, nor from showing that any such measurement, estimate or certificate is untrue or is incorrectly made, nor that the work or materials do not in fact conform to the Contract. The Division shall not be precluded or estopped, notwithstanding and such measurement, estimate, or certificate and payment in accordance therewith, from recovering from the Contractor or sureties, or both, such damage as it may sustain by reason of their failure to comply with the terms of the Contract. Neither the acceptance by the Division or any representative of the Division, nor any payment for or acceptance of the whole or any part of the work, nor any extension of time, nor any possession taken by the Division, shall operate as a waiver of any portion of the Contract or of any power reserved or of any right to damages. A waiver of any breach of the Contract shall not be held to be a waiver of any other or subsequent breach.

### **108.8-DEFAULT AND TERMINATION OF CONTRACT:**

If the Contractor:

1. fails to begin work under the Contract within the time specified in the "Notice to Proceed"; or
2. fails to perform the work with sufficient employees and equipment or sufficient materials to assure the prompt completion of the work; or
3. performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable;
4. discontinues the prosecution of the work; or
5. fails to resume work which has been discontinued within a reasonable time after notice to do so; or
6. becomes insolvent or is declared bankrupt or commits any act of bankruptcy or insolvency; or
7. allows any final judgment to stand against the Contractor unsatisfied for a period of ten (10) days; or
8. makes an assignment for the benefit of creditors; or
9. for any other cause whatsoever, fails to carry out the Contract terms in an acceptable manner;

the Engineer will give notice in writing to the Contractor and his/her Surety of such delay, neglect or default. If the Contractor or Surety, within a period of ten (10) days after such notice, shall not proceed in accordance therewith, the Division will, upon written notification from the Engineer of the fact of such delay, neglect, or default and the Contractor's failure to comply with such notice, have full power and authority, without violating the Contract, to terminate the Contract. The Division may appropriate or use any or all materials and equipment on the ground as may be suitable and acceptable and may enter into an agreement with another contractor for the completion of the Contract according to the terms and provisions thereof, or use such other methods as in the opinion of the Engineer will be required for the completion of the Contract in an acceptable manner.

All cost charges incurred by the Division, together with the cost of completing the work under Contract, will be deducted from any money due or which may become due the Contractor. If such expense exceeds the sum which would have been payable under the Contract, then the Contractor and the surety shall be liable and shall pay to the Division the amount of such excess.

### **108.9-TERMINATION OF CONTRACT FOR CONVENIENCE OF THE STATE:**

The Division may terminate the entire Contract or any portion thereof, if the Engineer determines that a termination is in the Division's interest. The Engineer will deliver to the Contractor a Notice of Termination specifying the extent of termination and the effective date.

1. **Submittals and Procedures.** After receipt of a Notice of Termination, the Contractor shall immediately proceed with the following obligations:

- a. Stop work as specified in the notice.
- b. Place no further subcontracts or orders for materials, services, or facilities for the terminated portion of the Contract.
- c. Terminate all subcontracts that relate to the work terminated.
- d. Settle all outstanding liabilities and termination settlement Proposals arising from the termination of the contract or portion thereof.
- e. Transfer title and deliver to the Division (1) fabricated, partially fabricated, or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated, and (2) the completed or partially completed plans, drawings, information, and other property that, if the Contract had been completed, would be required to be furnished to the Division.
- f. Complete performance of the work not terminated.
- g. Acceptable materials obtained by the Contractor for the Project that have not been incorporated in the work shall be inventoried in conjunction with the Engineer at a date identified by the Engineer.
- h. Take any action necessary, or that the Engineer may direct, for the protection and preservation of the property related to the Contract that is in the possession of the Contractor and in which the Division has or may acquire an interest.

2. **Settlement Provisions.** When the Division orders termination of all or a part of the Contract effective on a certain date, completed items of work as of that date will be paid for at the Contract bid price. Payment for partially completed work will be made either at agreed prices or under the provisions below. Items that are eliminated in their entirety by such termination shall be paid for as provided in Subsection 109.5.

- a. **Additional Costs.** Within sixty working days of the effective termination date, the Contractor shall submit a claim for additional damages or costs not covered above or elsewhere in the Contract. Such claim may include such cost items as reasonable idle equipment time, mobilization efforts, bidding and project investigative costs, overhead expenses attributable to the project terminated, legal and accounting charges involved in claim preparation, subcontractor costs not otherwise paid for, actual idle labor cost if work is stopped in advance of termination date, guaranteed payments for private land usage as part of the original Contract, and any other cost or damage for which the Contractor feels reimbursement should be made.



The Contractor and the Division may agree upon the whole or any part of the amount to be paid because of the termination. The amount may include a reasonable allowance for profit on work done. Anticipated profits will not be considered as part of any settlement. The agreed amount may not exceed the total Contract price as reduced by the amount of payments previously made, and the Contract price of work not terminated. The Contract shall be amended, and the Contractor paid the agreed amount.

b. **Additional Cost Review.** If the Contractor and the Division fail to agree on the whole amount to be paid the Contractor because of the termination of work, the Division will pay the amounts determined as follows, but without duplication of any amounts agreed upon above:

i. For Contract work performed before the effective date of termination, the total (without duplication of any items) of:

- 1) The cost of work performed;
- 2) The cost of settling and paying termination settlement Proposals under terminated subcontracts that are properly chargeable to the termination portion of the Contract if not included in subparagraph 1 above; and
- 3) A sum, as profit on (1) above determined by the Division to be fair and reasonable. The Division shall allow no profit under this subdivision if the Contractor's costs incurred on work performed exceed the bid item payments made.

ii. The reasonable costs of settlement of the work terminated, including:

- 1) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and support data;
- 2) The termination and settlement of subcontracts (excluding the amounts of such settlements); and
- 3) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory.

iii. Except for normal spoilage, and to the extent that the Division expressly accepts the risk of loss, Division will



exclude from the fair value, all that is destroyed, lost, stolen, or damaged so as to become undeliverable to the Division or to the buyer.

iv. In arriving at the amount due the Contractor under this clause, there will be deducted the following:

- 1) All unliquidated advance or other payments to the Contractor under the terminated portion of the Contract;
- 2) Any claim that the Division has against the Contractor under the Contract; and
- 3) The agreed price for or the proceeds from the sale of materials, supplies, or other things acquired and sold by the Contractor not recovered by or credited to the Division.

If termination is partial, the Contractor may file a Proposal with the Division for an equitable adjustment of the price(s) of the continued portion of the Contract. The Division will make any equitable adjustment agreed upon. Any Proposal for an equitable adjustment under this clause shall be requested within sixty (60) working days from the effective date of termination unless extended in writing by the Engineer.

The Division may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor for the termination portion of the Contract, if these payments will not exceed the amount to which the Contractor is entitled.

The Contractor shall maintain and make available all project cost records to the Division for audit to the extent necessary to determine the validity and amount of each item claimed. This includes all books and other evidence bearing on the Contractor's costs and expenses under the Contract. These records and documents shall be made available to the Division at the Contractor's office, at all reasonable times, without any direct charge. If approved by the Division, photographs, microphotographs, or other authentic reproductions may be maintained instead of original records and documents.

Termination of the Contract or portion thereof shall not relieve the Contractor of contractual responsibilities of the work completed, nor shall it relieve the Surety of its obligation for and concerning any just claim arising out the work performed.

#### **108.10-FIELD OFFICE OVERHEAD:**

The Division may consider compensating the Contractor for Field office overhead costs as long as the Contractor can provide documentation that the field office overhead costs are not covered by the project bid items.

#### **108.11-HOME OFFICE OVERHEAD:**

The Department shall consider payment to the Contractor for any unabsorbed or extended home office overhead costs for which payment is not previously provided for if all of the following criteria are met:

## SECTION 109 MEASUREMENT AND PAYMENT

### 109.1-MEASUREMENT OF QUANTITIES:

All work completed under the Contract will be measured by the Engineer according to United States standard measure.

The method of measurement and computations to be used in determining of quantities of materials furnished and of work performed under the Contract will be those methods generally recognized as conforming to good engineering practice.

Unless otherwise indicated, the requirements prescribed shall govern.

Earthwork will be computed by the average end area method, using the horizontal length measured along the centerline as the distance between sections, applying corrections for curvature where the apparent error exceeds 25 percent of the volume in any one cut. Other acceptable methods may be used.

Unless otherwise specified, longitudinal measurements for area computations will be made horizontally and no deductions will be made for individual fixtures having an area of nine square feet (one square meter) or less. Unless otherwise specified, transverse measurements for area computations will be the neat dimensions shown on the Plans or ordered in writing by the Engineer.

Structures will be measured according to neat lines shown on the Plans or as altered to fit field conditions.

All items which are measured by the linear foot (meter), such as pipe culverts, guardrail, underdrains, etc., will be measured parallel to the base or foundations upon which such structures are placed.

The term "gage" when used in connection with the measurements of plates, will mean the U.S. Standard Gage.

The galvanized sheet thicknesses to be used in the manufacture of metal cribbing, corrugated steel culvert pipe, underdrain pipe, plate pipe, pipe arches, plate pipe arches and plate arches shall be as specified in AASHTO M 36 or AASHTO M 167. The sheet thicknesses to be used in the manufacture of corrugated aluminum alloy culvert pipe, underdrain pipe, plate pipe, pipe arches, plate pipe arches and plate arches shall be as specified in AASHTO M 196 or AASHTO M 219.

The "size number" used in the measurement of wire will be as specified in AASHTO M 32 or AASHTO M 225.

The term ton will mean the short ton consisting of 2,000 lb (The term megagram is defined as a mass of 1,000 kg). All materials which are measured or proportioned by weight shall be weighed on approved scales by competent, qualified personnel. Scales for weighing shall be of either the beam type, springless-dial type or digital recorder type. All plant and truck scales and metering devices shall be inspected, approved and sealed in accordance with the requirements of the West Virginia Division of Labor, Bureau of Weights and Measures, or other appropriate agencies of the State or its political subdivisions. Poises shall be designed to be locked in any position to prevent unauthorized changes. When the beam type scales are used, provisions for a "telltale" dial shall be made for indicating to the operator that the required load in the weighing hopper is being approached. A device on the weighing beams shall clearly indicate the critical position.

Truck scales shall be provided by the producer or Contractor, except that truck scales are not required where the material is weighed at properly calibrated automatic batching plant facilities which are equipped with digital print-out equipment. The scales shall be of sufficient size and capacity to weigh the heaviest loaded trucks that are used for delivery of the material. All truck scales shall be mounted on solid foundations which will ensure their remaining plumb and level.

A weigh person shall be provided by the producer. The weigh person shall certify that the weight of the material, as determined either by the truck scales or from the digital print-out of the weights, is correct. To signify the certification of weight the weigh person must either sign their full name on each ticket, or if the ticket printer prints the weigh person's full name they must at least initial each ticket.

Each truck shall be weighed empty prior to each load, except at automatic batch plants approved to operate without truck scales. A digital recorder shall be required on all truck scales. The digital recorder shall produce a printed record of the gross, tare and net weights, and the time, date, truck identification and project number. Provision shall be made for constant zero compensation and further provision shall be made so that the scales may not be manually manipulated during the printing process. The system shall be interlocked so as to allow printing only when the scale has come to rest.

In case of a breakdown of the automatic equipment, the Engineer may permit manual operation for a reasonable time, normally not to exceed 48 hours, while the equipment is being repaired.

If material is shipped by rail, the car weight may be accepted provided the actual weight of material only will be paid for. However, car weights will not be acceptable for material to be passed through mixing plants.

Devices, used to meter or measure component or other materials in a simultaneous manner, shall be located so as to be readily accessible and visible to a single Inspector, unless otherwise directed by the Engineer.

Materials to be measured by volume in the hauling vehicle shall be hauled in approved vehicles and measured at the point of delivery. Vehicles for this purpose may be of any size or type acceptable to the Engineer, provided that the body is of such shape that the actual contents may be readily and accurately determined. All vehicles shall be loaded to at least their water level capacity, and all loads shall be leveled when the vehicles arrive at the point of delivery.

When approved by the Engineer, material specified to be measured by the cubic yard (meter) may be weighed and these weights converted to cubic yard (meter)s for payment purposes. Further, when it is impractical to measure the material by weighing, or in its original position, the material will be measured in its final position and adjusted by a volume change factor. These conversion factors will be determined by the Engineer and shall be agreed to by the Contractor before these methods of measurement are used.

When bituminous material is measured by volume, the measured volume at loading temperature shall be converted to volume at 60° F (15° C) using the temperature correction factors in 705 for asphaltic materials and 706 for tar materials, except that when volume is measured by an approved temperature compensated metering device, no further volume correction for temperature shall be required. When bituminous material is measured by weight, the actual specific

gravity, API gravity, or weight per gallon (liter) of the material shall be used to convert the measured weight to volume at 60° F (15° C). The Contractor shall furnish all information necessary as determined solely by the Division to determine the amount of bituminous material actually incorporated into the project.

Net certified scale weights or weights based on certified volumes in the case of rail shipments will be used as a basis of measurement, subject to correction when bituminous material has been lost from the car or the distributor, wasted, or otherwise not incorporated in the work.

When bituminous materials are shipped by truck or transport, net certified weights or volume, subject to correction for loss or foaming may be used for computing quantities.

Cement will be measured by the cwt (hundredweight = 100 lb) (kilogram). For the purpose of determining the total amount used in the mixture, one bag of cement shall be considered as weighing 0.94 cwt (42.64 kg), and one barrel of cement shall be considered as weighing 3.76 cwt (175.55 kg).

Timber will be measured by the thousand feet board measure (mfbm) (cubic meters) actually incorporated in the structure. Measurement will be based on nominal widths and thicknesses and the extreme length of each piece.

The term "lump sum" when used as an item of payment will mean complete payment for the work described in the Contract.

When a complete structure or structural unit (in effect, "lump sum" work) is specified as the unit of measurement, the unit will be construed to include all necessary fittings and accessories.

When standard manufactured items are specified such as fence, wire, plates, rolled shapes, pipe conduit, etc., and these items are identified by gage, unit weight, section dimensions, etc., such identification will be considered to be nominal weights or dimensions. Unless more stringently controlled by tolerances in cited specifications, manufacturing tolerances established by the industries involved will be accepted.

#### **109.2-SCOPE OF PAYMENT:**

The Contractor shall receive and accept compensation provided for in the Contract as full payment for furnishing all materials and for performing all work under the Contract in a complete and acceptable manner and for all risk, loss, damage, or expense of whatever character arising out of the nature of the work or the prosecution thereof, subject to the provisions of 107.20.

If the "Basis of Payment" clause in the Specifications relating to any unit price in the bid schedule requires that the unit price cover and be considered compensation for certain work or material essential to the item, this work or material will not also be measured or paid for under any other pay item which may appear elsewhere in the Specifications, except as provided in 104.6.

When the Contract specifies payment of an item or a portion of an item on a plan quantity basis, the quantities for payment will be those shown on the Plans with deductions from or additions to such quantities resulting from authorized deviations from the Plans.

If the Contractor believes that a quantity which is specified for payment on a plan quantity basis is incorrect, the Contractor may request the Division in writing to check the questionable quantity. The request shall be accompanied by calculations, drawing, or other evidence indicating why the plan quantity is believed to be in error. If the plan quantity is found to be in error, payment will be made in accordance with the corrected plan quantity.

The Division reserves the right to check the quantity of an item which is specified for payment on a plan quantity basis if there is reason to believe that it is inaccurate. If the quantity is found to be in error, payment will be made in accordance with the corrected plan quantity.

Should the Division determine during construction that conditions have varied from those anticipated in design to the extent that actual measurement of a plan quantity item is warranted, the Division will make such measurement, and payment will be based in lieu of the plan quantity.

#### **109.2.1-General Basis of Adjusted Payment:**

**109.2.1.1-Single Deficiency:** In the case of the single characteristic deficiency, the resulting deficiency shall be used directly to determine an adjusted price.

**109.2.1.2-Multiple Deficiency:** In the case of a multiple deficiency, the related adjusted percentage of contract price as determined by the acceptance plan for each characteristic shall be determined and the resulting percent of contract price to be paid shall be the product of these related adjusted percentages.

**109.2.2-Basis of Charges for Additional Testing:** When additional acceptance testing is performed by the Division for reworked lots or sublots in accordance with 106.3.1.2, the cost of such testing will be deducted on current estimates from the amount due the Contractor by the Division. The cost of such testing will be determined in accordance with the unit costs per test as shown in Table 9-1, published in MP 109.00.20.

#### **109.3-COMPENSATION FOR ALTERED QUANTITIES:**

When the accepted quantities of work vary from the quantities in the bid schedule, the Contractor shall accept as payment in full, so far as contract items are concerned, payment at the original contract unit price for the accepted quantities of work done. No allowance except as provided in 104.2 will be made for any increased expense, loss of expected reimbursement, or loss of anticipated profits suffered or claimed by the Contractor resulting either directly from such alterations or indirectly from unbalanced allocation among the contract items of overhead expense on the part of the bidder and subsequent loss of expected reimbursements therefore or from any other cause.

Increased work involving supplemental agreements will be paid for as stipulated in such agreements. The Contractor shall furnish substantiating data required in the preparation of these agreements.



The "C" values given per gallon of Liquid Asphalt Material is based on the use of an emulsion which is assumed to contain 65% asphalt material and a gallon of emulsion weights 8.43 pounds of a liter of emulsion weights 1.00 kg. If a cut-back asphalt is used "C" as given in the above table must be multiplied by 1.54 to arrive at a modified "C" factor for use in the formula. No change will be made in the Adjustable Material Cost (C) for variations between these assumptions and actual factors.

The adjustable materials costs ( $C_1$ ) and ( $C_2$ ) are based on the approved job mix formula for the specific asphalt mixture being placed in accordance with the following formulae:

$$(C_1) = I_b \times A_c \times 1 \text{ ton or } [(C_1) = I_b \times A_c \times 1 \text{ megagram}]$$

Where  $A_c$  equals the approved asphalt content expressed in decimals, i.e. 5.8% asphalt content equals 0.058. When reclaimed asphalt pavement (RAP) is used in the mix,  $A_c$  is the % virgin or new asphalt added to the mix.

$$(C_2) = I_b \times A_c \times 1.6 \text{ tons/cy or } [(C_2) = I_b \times A_c \times 1.9 \text{ mg/m}^3 \times 1 \text{ meter}]$$

where  $A_c$  equals approved asphalt content expressed in decimals and it is assumed that a cubic yard of asphalt treated open-graded free draining base weights 1.6 tons or 1.9 Mg. No change will be made in  $C_2$  for variations between this assumption and the actual factor.

#### **109.11 THROUGH 109.19-BLANK:**

#### **109.20-LOAD LIMIT VIOLATIONS AND WEIGH TICKETS:**

The Allowable Gross Weight for any vehicle being used to haul materials on publicly maintained highways under the terms of this contract shall be as follows.

Title 23 Code of Federal Regulations, Section 658.17, establishes maximum allowable gross weight on the Interstate System. The maximum allowable gross weight on WV and US Routes will be as established in Chapter 17C, Articles 17 and 17A of the Official Code of West Virginia, as amended. The Public Service Commission, Weight Enforcement Section is responsible for the enforcement of these provisions.

A weigh ticket shall be required with each load of material from a commercial source which would normally have truck scales. This includes, but is not limited to, all asphalt paving materials and all aggregates regardless of the contract pay unit. The weigh ticket shall include gross, tare, and net weights, time and date of loading, Item Number or Description of Materials, Contract Number or Project Number, number of axles on haul unit, license number of haul unit, and signature of the weigher certifying that all information on the ticket is correct. If the weigher's name is printed by the computer on the ticket, then it only needs to be initialed by the weigher.

For material from a commercial source or a batch plant, which would not normally have truck scales, a weigh ticket documenting the tare weight, number of axles on the haul unit, license number of haul unit, date weighed, location of



scales, and signature of the weigher certifying that all information on the ticket is correct, may be supplied for each haul unit as an alternate to the ticket required in the previous paragraph. The tare weight ticket shall be supplied for each contract on a yearly basis and when modifications are made to the vehicle or combination of vehicles. The weight of the material delivered shall be calculated and furnished by the vendor/supplier shipping the material to the project site or DOH facility. This includes, but is not limited to, concrete, structural steel, piling, reinforcing steel and all prepackaged material of known weight, such as cement, grout, fertilizer, lime, abrasives, etc.

If the haul unit is a combination of vehicles, the license number shall be supplied for each component. The tare weight shall be for the complete haul unit.

All weighing shall be done on scales approved and sealed by the West Virginia Division of Labor, Bureau of Weights and Measures. If the scales are moved or upon the request of the Engineer, the scales shall be reapproved and sealed. The Engineer shall be notified of any scale malfunctions. The Division of Highways may, at its option, accept inspection and sealing by out of state agencies when the material is being loaded outside West Virginia.

Any material, covered by this provision, which is delivered without the proper weigh ticket shall not be accepted by the Division of Highways.

Nothing in this provision relieves any party from compliance with the State Law on load limits or any fines which may be assessed for violation of said law.

## 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.
7. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules.**  
☐ Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

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: \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division  
**PURCHASING AFFIDAVIT**

**MANDATE:** Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

**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.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**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** \_\_\_\_\_

*Purchasing Affidavit (Revised 07/01/2012)*

**NOTE:**

**Vendor and Notary's date must be the same.**

**Notary required to AFFIX SEAL on Purchasing Affidavit.**