WEST VIRGINIA PARKWAYS AUTHORITY

AUTHORITY MEMBERS

GOVERNOR JIM JUSTICE

BRAY CARY
BYRD E. WHITE, III
DOUGLAS M. EPLING
TOM MAINELLA
BILL SEAVER
MIKE VINCI GUERRA
WILLIAM (BILL) CIPRIANI
TROY N. GIATRAS
ALISHA MADDOX

GREGORY C. BARR
GENERAL MANAGER

CONTRACTOR’S PROPOSAL

NOTICE: ALL PAPERS BOUND WITH OR ATTACHED TO THE PROPOSAL FORM ARE A NECESSARY PART THEREOF AND MUST NOT BE DETACHED.

COUNTY: FAYETTE COUNTY, WEST VIRGINIA

NAME OF PROJECT: BARRIER B CANOPY ROOF REPLACEMENT

BARRIER B MILEPOST 56

CONTRACT NUMBER: BBCR-1-20

BIDS WILL BE RECEIVED UNTIL 3:00 PM JULY 25, 2019 AT THE OFFICE OF THE WEST VIRGINIA PARKWAYS AUTHORITY’S GENERAL MANAGER, 3310 PIEDMONT ROAD, CHARLESTON, WEST VIRGINIA 25306.

THE WEST VIRGINIA PARKWAYS AUTHORITY RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.
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ADVERTISEMENT FOR PROPOSALS

Sealed proposals will be received by the West Virginia Parkways Authority for:

CONTRACT BBCR-1-20
BARRIER B CANOPY ROOF REPLACEMENT
BARRIER B MILEPOST 56
FAYETTE COUNTY, WEST VIRGINIA

Please be advised that there have been revisions made to the standard bid documents on page 8. For the bid to be considered, the Contractor must sign the WV Jobs Act sheet and include as part of the bid package per special provision 102.2.

This contract is located in Fayette County. This project consists of removing the existing EPDM roofing and underlying insulation to expose the existing built-up roof and install new insulation and EPDM roof.

A MANDATORY PRE-BID will be held on July 18, 2019 at 3:00 pm at the office of the West Virginia Parkways Authority, Administration Building, Charleston, West Virginia. The bidder must have a permanent full-time employee in attendance.

The estimated roofing area is as follows:

4,608 Square Feet

All work under this contract shall not begin prior to September 9, 2019 and shall be completed by October 31, 2019.

Proposals will be received at the office of the West Virginia Parkways Authority, Administration Building, Charleston, West Virginia until 3:00 PM July 25, 2019 at which time and place said proposals will be publicly opened and read. If proposals are to be mailed via the U.S. Postal Service regular mail, they must be addressed to the West Virginia Parkways Authority, P.O. Box 1469, Charleston, WV 25325. This mail is picked up by the Authority once a day between 7:00 AM and 8:00 AM. However, Express Mail, One Day Service, Federal Express, United Parcel Service (UPS) etc., must be sent to the West Virginia Parkways Authority, 3310 Piedmont Road, Charleston, WV 25306. It shall be the bidder’s responsibility to determine his transmittal method such that his bid will arrive in the Authority’s office prior to the scheduled bid opening. Bids received in the Authority’s office after the scheduled opening will be returned to the bidder unopened.

Prospective bidders must be prequalified in accordance with SECTION 102.1 of the WVDOH Standard Specifications. Contract Documents without Standard Specifications or other referenced standards can be obtained from HNTB Corporation, 41 Mission Way, Scott Depot, WV 25560, Phone (304) 760-1825, or email bbosley@HNTB.com.

Proposals must be made upon the forms furnished by the Authority in the manner designated in the specifications, and must be enclosed in sealed envelopes bearing the name and address of the bidder and the number of the contract on the outside, and must be accompanied by a CASHIER’S or CERTIFIED CHECK or BID BOND in favor of the West Virginia Parkways Authority, FOR AN AMOUNT EQUAL TO FIVE PERCENT (5%) OF THE AMOUNT OF THE PROPOSAL OR $2,000 WHICHEVER IS THE GREATER, and must be delivered at the place designated above on or before the day and hour named.

Pursuant to Bureau of Employment Programs (BEP) Rule 96 C.S.R.1 Implementation Rule dated June 30, 2000, Contractors requesting plans must furnish their FEIN Number, company name and any name they are doing business as. Firms listed in the BEP Default Directory will not be issued Bidding Documents.

The Authority reserves the right to reject any and all Proposals submitted, and to waive any or all formalities in bidding, as it may deem in its best interest.

The Authority strongly encourages Minority Owned and Women Owned businesses to submit proposals for this contract.

The WVPA is an Equal Opportunity Employer. All firms submitting proposals must certify that they practice Equal Employment Opportunities.

WEST VIRGINIA PARKWAYS AUTHORITY

[Signature]

DATE: July 3, 2019

Gregory C. Barr, General Manager
SPECIAL PROVISIONS FOR
NOTICE TO BIDDERS

Prior to the bid date, questions that are technical/engineering or contract administration in nature or involve quantity discrepancies concerning this project should be directed to the Design Engineer, HNTB Corporation by calling (304) 760-1825 or by email at bbosley@hntb.com.

The following documents are bound with and are also part of the bid form:

- Proposal Form
- Schedule of Items
- Affidavit of Non-Collusion
- Signed WV Jobs Act
- Drug Free Affidavit
- Contractor’s License
- Certification
- Addenda Certifications
- Non-Discrimination Requirement
- Signature Sheet
- Proposal Guaranty Bond

TO REPORT BID RIGGING ACTIVITIES CALL:
1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "Hotline" Monday through Friday, 8:00 AM to 5:00 PM, Eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "Hotline" to report such activities.

The "Hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

In Addition:

1. Contractor affirms that in regard to this contract and the bidding process which underlies this contract, neither Contractor nor anyone on its behalf, including affiliate and subsidiary entities of Contractor, has:
   a. Been a party to any collusion among potential or actual bidders or with any state or federal official or employee in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding;
   b. Been a party to any collusion with any other potential or actual bidders, federal or state official or employee as to quantity, quality or price in the contract, or any other terms of the contract.
   c. Been a party to any discussions between or among potential or actual bidders and any federal or state official or employees concerning exchange of money or other thing of value for special consideration in the letting or award of this contract;
   d. Exchanged money or other thing of value with other potential or actual bidders, federal or state officials or employees for special consideration in the letting or award of this contract;
   e. Otherwise taken any action in restraint of free competitive bidding.

2. Contractor further affirms that neither Contractor nor anyone on its behalf, including affiliate and subsidiary entities of Contractor, has:
   a. Made its bid in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation and that the bid is genuine and is not a sham;
   b. Directly or indirectly colluded, conspired, connived, or agreed with any potential or actual bidder or anyone else to put in a sham bid.
   c. Otherwise taken any action to put in a sham bid.
CONTRACTOR'S PROPOSAL

CONTRACT BBCR-1-20

Proposal by __________________________________________

(Contractor)

of ________________________________________________

(Address)

for the construction of the West Virginia Parkways Authority's Barrier B Canopy Roof Replacement Contract in Fayette County, West Virginia, known as Contract (BBCR-1-20).

According to the attached plans, related special provisions and the West Virginia Department of Transportation, Division of Highways, Standard Specifications, Roads and Bridges, Adopted 2017, and the latest Supplemental Specifications, the special provisions and all other documents pertaining to this Contract which form a part of this Bid as if set forth at length herein:

TO THE WEST VIRGINIA PARKWAYS AUTHORITY:

The undersigned hereby proposes to construct and build the above described contract for the respective amounts hereinafter set out.

On the acceptance of this proposal for said work, the undersigned will give the required bond with good security, conditioned for the faithful performance of said work and insurance, according to said plans and specifications and the doing of all other things required by said specifications for the consideration herein named and with the further condition that the Authority shall be saved harmless from any and all damages that might accrue to any person, persons or property by reason of negligence of the undersigned, or any person or persons under his employment and engaged in said work. Accompanying this proposal is a proposal guaranty bond, cashier's check or certified check on ______________________________________Bank for $______________________________ (for either $2,000 or 5% of the total bid, whichever is the greater).

In case this proposal shall be accepted by said Authority and the undersigned should fail to execute the contract with and furnish the surety required within the time fixed herein, this money shall become the property of the Authority, and shall be deposited to the credit of the Authority, otherwise, said check is to be returned to the undersigned.

The undersigned certifies that their firm is prequalified with the West Virginia Division of Highways and practices Equal Employment Opportunities and declares to have no interest, direct or indirect, in any other bid for the work covered by the proposal, and to have carefully examined the form of contract and specifications, and the drawings therein referenced to, and will provide all necessary machinery, tools and apparatus and furnish all labor and materials and things necessary in the construction of said project. Said proposer has personally examined the project site considered in this proposal and is acquainted with all conditions and requirements and the location, ground, material, etc., and is relying on personal knowledge, not the Engineer's Estimate. The undersigned agrees to do all work in the most substantial and workmanlike manner called for by said contract plans and specifications, for the respective unit prices named below.
### Schedule of Items

**Contract BBCR-1-20**

**Barrier B Canopy Roof Replacement**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>204001-000</td>
<td>Mobilization</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>701001-001</td>
<td>Barrier B Canopy Roof Replacement</td>
<td>4,608</td>
<td>SF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>701001-002</td>
<td>Canopy Roof Repair</td>
<td>231</td>
<td>SF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>701001-003</td>
<td>Built-Up Roof Curb</td>
<td>352</td>
<td>LF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Bid**

**Written Amount**

**Numerical Amount**
AFFIDAVIT OF NONCOLLUSION

CONTRACT BBCR-1-20

State of ___________________________
County of ___________________________

I, _______________________________________________________________(Contractor) by
_______________________________________________________________ (Name and Title)

(of authorized representative), being duly sworn do depose, say and certify: That said contractor has not, either directly or indirectly,
entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in
connection with Barrier B Canopy Roof Replacement Contract (BBCR-1-20), in FAYETTE COUNTY, WEST VIRGINIA.

____________________________________
Contractor

____________________________________
Name and Title of Authorized
Representative

Taken, subscribed and sworn to before me this____ day of _________________20____.

Notarial Seal if executed
outside West Virginia

____________________________________
Notary Public

Witness my hand and seal this ____ day of _________________, 20____.
WEST VIRGINIA PARKWAYS AUTHORITY
BBCR-1-20

WEST VIRGINIA TURNPIKE
CONTRACT BBCR-1-20
WEST VIRGINIA JOBS ACT

West Virginia Jobs Act (Chapter 21 Article 1C of the West Virginia Code) (The “Act”) and the following shall apply.

The Prime Contractor and all Subcontractors who work onsite are required to provide at least 75% of the workers from the local labor market as defined by the Act. The local labor market as defined by the Act includes all counties in West Virginia and any county that is within fifty miles of the West Virginia border. Each employer is permitted to have two workers from outside the local labor market. If workers are not available from inside the local labor market, the contractor shall obtain an employment waiver certificate from the local office of the Workforce WV.

The Prime Contractor and all Subcontractors who work onsite shall provide to the West Virginia Division of Labor and the WVPA a certified payroll and all employment waiver certificates for each week worked. Certified payroll documents must include the following information: The name and address of the employer, identification of the payroll number and the work week ending date, the name of the project location, identification of the contract number, the names of employees, each employee’s work classification or job title, the physical address of the primary residence for each employee, including the State, County, the days and hours worked, hourly rate of pay or salary, gross wages, federal and state withholding amounts or other authorized deductions, and net pay, per W. Va. Code 21-1C-5(b) and 42-37-2.2. These shall be submitted weekly via email to the West Virginia Division of Labor - JobsAct@wv.gov and Margaret Vickers, Director of Logistics & Procurement at the West Virginia Parkways Authority - mvickers@wvturnpike.com. The required certified payroll format is shown on the following page. In addition, the Prime Contractor and all Subcontractors shall provide to the WVPA a WV Jobs Act Action Plan detailing how each will comply with the provisions and requirements of the Act. This WV Jobs Act Action Plan shall be provided to WVPA at or before the Pre-construction Conference, attendance at which is mandatory.

The West Virginia Division of Labor is responsible for interpreting and enforcing the provisions of the West Virginia Jobs Act. The information in this provision is being provided, as guidance to Contractors and is not meant to be all-inclusive. Not all information relating to the West Virginia Jobs Act is included in this provision; accordingly, all contractors and subcontractors are strongly urged to read the WV Jobs Act in its entirety and to be familiar with its provisions and penalties for non-compliance.

The undersigned agrees to comply with the terms, provisions and requirements of the West Virginia Jobs Act.

________________________________________
Signature of Contractor: __________________________
(CONTRACTOR MUST SIGN FOR BID TO BE CONSIDERED)

DATE: ________________________________
# WEEKLY PAYROLL

(To be completed and submitted on a weekly basis)

<table>
<thead>
<tr>
<th>Name of Employer</th>
<th>Contractor License #</th>
<th>Mailing Address</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Doe</td>
<td>Example of Required Employee Information</td>
<td>Route 1, Box 1A Charleston, WV 25305</td>
<td></td>
</tr>
</tbody>
</table>

The address must be the physical address of the primary residence for each employee, including the county.

<table>
<thead>
<tr>
<th>Classification or Job Title</th>
<th>Type of Time</th>
<th>Payroll Number</th>
<th>Project Name</th>
<th>Project Location</th>
<th>Project or Contract Number</th>
<th>Hours Worked Each Day</th>
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<th>F</th>
<th>SA</th>
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</table>

<table>
<thead>
<tr>
<th>Rate of Pay</th>
<th>Gross Wages Earned</th>
<th>Deductions</th>
<th>Net Wages Paid for Week</th>
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</table>

I hereby certify under penalty of perjury that the information above is true and accurate.

JA01-0518

Name and Title

Signature
STATE OF WEST VIRGINIA,

COUNTY OF ________________, TO-WIT:

I, ________________, after being first duly sworn, depose and state as follows:

1. I am an employee of _______________________________; and,
   (Company Name)

2. I do hereby attest that _______________________________
   (Company Name)
   maintains a valid written drug free workplace policy and that such policy is in compliance with West Virginia Code §21-1D-5.

The above statements are sworn to under the penalty of perjury.

__________________________________________________________________________

(Company Name)

By: ________________________________

Title: ________________________________

Date: ________________________________

Taken, subscribed and sworn to before me this _____ day of ____________.

By Commission expires __________________________

(Seal)

__________________________
(Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.
CONTRACTOR LICENSE

BARRIER B CANOPY ROOF REPLACEMENT CONTRACT (BBCR-1-20)

*West Virginia State Code* 21-11-2 requires that all persons desiring to perform contractual work in this State must be duly licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor’s license. Application for contractor’s license may be made by contacting The West Virginia Department of Labor, Building 6 Room 749B, 1900 Mercer Blvd. East, Charleston, WV 25305, telephone (304) 558-7890.

*West Virginia State Code* 21-11-11 requires any prospective bidder to include the contractor’s license number on their bid.

BIDDERS TO COMPLETE:

Contractor’s Name:____________________________________

Contractor’s License No.:_______________________________

The successful bidder will be required to furnish a copy of their contractor’s license prior to issuance of a Purchase Order/Contract.
CERTIFICATION

By submitting the within bid/proposal, the undersigned certifies in accordance with the West Virginia Code 5-22-1(b)1 that it:

A. Is ready, able and willing to timely furnish the labor and materials to complete the Contract.

B. Is in compliance with all applicable Laws of the State of West Virginia; and,

C. Has supplied a valid bid bond or other surety authorized or approved by the contracting or public entity.

Contractor:______________________________   By:______________________________________

(Authorized Representative)
ADDENDA FOR BARRIER B CANOPY ROOF REPLACEMENT
CONTRACT BBCR-1-20

I hereby acknowledge receipt of the following addenda and have made the necessary revisions to the Contractor’s Proposal, plans and/or specifications, or other applicable documents, and have considered the addenda in the calculation of my bid.

Addendum Numbers

1. _________________________
2. _________________________
3. _________________________
4. _________________________
5. _________________________
6. _________________________

I further acknowledge that the failure to confirm receipt of the addenda will cause my proposal to be rejected.
SPECIAL PROVISIONS FOR
NON-DISCRIMINATION
CONTRACT (BBCR-1-20)

NON-DISCRIMINATION OF EMPLOYEES FOR INTERSTATE, PRIMARY & SECONDARY PROJECTS

THE CONTRACTOR FURTHER AGREES AS FOLLOWS:

During the performance of the Contract, the Contractor and any of his subcontractors shall provide equal employment opportunities for all qualified persons and shall not discriminate against any employees or applicants because of race, color, religion, sex or national origin. The Contractor and his subcontractors shall comply with the executive orders of the Governor of the State of West Virginia dated October 16, 1963 and December 15, 1965, the Presidential Executive Order Number 11246 as amended by Executive Order Number 11375 and as supplemented in Department of Labor Regulations (Title 41 Codes of Federal Regulations, Part 60) and the Civil Rights Act of 1964 as amended, with the relevant rules, regulations and orders of the Secretary of Labor pertaining thereto, and with all related non-discrimination, non-segregation, affirmative action, veterans employment and handicapped employment laws, rules, regulations and orders (collectively the "EEO Requirements"). The Contractor will furnish upon request information and reports required by the EEO Requirements. The Contractor shall include these provisions in every subcontract or purchase order, unless exempted by the EEO Requirements, so that such provisions will be binding upon each Contractor, subcontractor or vendor performing services or providing materials relating to the work.
COMPLETION DATE

Construction under the above proposal and calculation of working time will begin no later than 10 calendar days after “Notice to Proceed”, and will be completed by date of October 31, 2019.

It is agreed that time is of the essence for this contract, and that I (we) will, in the event of my (our) failure to complete the contract within the time limited named, reimburse the West Virginia Parkways Authority an amount to be determined by the said Authority as sufficient to cover fully any additional demonstrable costs incurred by the Authority because of such failure, including extra engineering costs, in addition to that specified in section 108.7 of the Standard Specifications.

CERTIFICATE OF COMPLIANCE

IN Volving the supply ing of Al um inum, Glass, Steel or Iron Products

We have complied and shall continue to comply with the provisions of Chapter 5, Article 19, of the Official West Virginia code, 1931, as amended, which statute is incorporated herein by reference and the applicable specifications involving Domestic Aluminum, Glass and Iron in Public Works Projects. We have also complied and shall continue to comply with the provisions of Chapter 5A, Article 3, Section 56 of the West Virginia code, 1931, as amended, which statute is incorporated herein by reference and the applicable specifications, involving Domestic Steel Products in State Supported Projects.
SIGNATURE SHEET
CONTRACT (BBCR-1-20)

IF AN INDIVIDUAL, SIGN BELOW:

________________________________________________________________________
(Name) ____________________________  (Post Office Address)

IF AN INDIVIDUAL DOING BUSINESS UNDER
A TRADE NAME, SIGN BELOW:

________________________________________________________________________
(Trade Name) ____________________________  (Street and Post Office Address)

________________________________________________________________________
(Sole Owner) ____________________________  By ____________________________

IF A PARTNERSHIP, SIGN BELOW:

________________________________________________________________________
(Name of Partnership) ____________________________  (Street and Post Office Address)

By ____________________________
(Authorized Partner) ____________________________  (Street and Post Office Address)

IF A JOINT BID, SIGN BELOW:

________________________________________________________________________
(Name of Corporation) ____________________________  (Name of Corporation)

Incorporated under the laws of the
State of ____________________________  Incorporated under the laws of the
State of ____________________________

By ____________________________  By ____________________________

________________________________________________________________________
(Title of Officer) ____________________________  (Title of Officer)

(Street and Post Office Address) ____________________________  (Street and Post Office Address)

IF A CORPORATION, SIGN BELOW:

________________________________________________________________________
(Name of Corporation)

Incorporated under the laws of the
State of ____________________________  By ____________________________

________________________________________________________________________
(Street and Post Office Address) ____________________________  (Title of Signing Officer)
ACKNOWLEDGMENT, MUST BE NOTARIZED:
Taken, subscribed and sworn to before me this _____ day of ________________, 20 ___.

My commission Expires ____________________________________________________________.

Notary seal if not
Executed in West Virginia ________________________________________________________

(Notary Public)
PROPOSAL GUARANTY BOND

CONTRACT NUMBER: BARRIER B CANOPY ROOF REPLACEMENT (BBCR-1-20)

COUNTIES: FAYETTE, WEST VIRGINIA

KNOW ALL MEN BY THESE PRESENTS, that we________________________________________
_________________________________________________________________________________

Hereinafter called the "Principal" and _____________________________________________
_________________________________________________________________________________
corporation(s) incorporated under the laws of the State(s) of ______________________________________ and duly authorized to do business in the State of West Virginia, hereinafter (collectively, if two or more Sureties) called the "Surety" are held and firmly bound unto the West Virginia Parkways Authority, in the full and just sum of TWO THOUSAND DOLLARS ($2,000) OR FIVE PERCENT (5%) OF TOTAL BID, WHICHEVER IS GREATER, lawful money of the United States of America, to be paid to the West Virginia Parkways Authority, which payment well and truly to be made and done, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

SIGNED, sealed and dated this _________ day of ____________________________, 20 ________.

The condition of the above obligation is such that whereas the Principal has submitted to the West Virginia Parkways Authority, a proposal attached hereto and hereby made a part hereof, to enter into a contract in writing for:

CONTRACT NUMBER: BARRIER B CANOPY ROOF REPLACEMENT (BBCR-1-20)

NOW, THEREFORE,

If said Proposal shall be rejected by the West Virginia Parkways Authority or in the alternative;

If said Proposal shall be accepted by the West Virginia Parkways Authority, and the Principal shall duly execute the Contract and furnish the required Contract Bond within the stipulated time.

Then this obligation shall be void; otherwise the same shall remain in force and effect, and the Principal and Surety will pay unto the obligee the amount of this bond, which sum shall become the property of the West Virginia Parkways Authority, pursuant to Paragraph 103.9 of the Standard Specifications of the West Virginia Department of Transportation, Division of Highways, Adopted 2017 as applicable: it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligation of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which The Authority may accept such proposal; and said Surety does hereby waive notice of any such extension.

The Principal and the Surety have hereunto set their hands and seals, and such of them, as are corporations, have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers.
PRINCIPAL
By
TITLE

SURETY
By
TITLE

IF CO/SURETY
By
TITLE

(Acknowledgment)
(Surety)

The foregoing instrument was acknowledged before me this _____ day of ___________, 20__.  
My Commission Expires ________________________________________________

NOTARY PUBLIC
(If Co/Surety)

The foregoing instrument was acknowledged before me this _____ day of ___________, 20__.  
My Commission Expires ________________________________________________

NOTARY PUBLIC

Attach Powers of Attorney Involved.
CONTRACT

THIS AGREEMENT, made _______________, 20___, between the West Virginia Parkways Authority, a Corporation, hereinafter called “AUTHORITY” and ______________________________, hereinafter called “CONTRACTOR”.

WITNESSETH: WHEREAS “AUTHORITY” did by certain advertisement duly published and posted in accordance to law, invite proposals for the construction according to the plans and specifications of the “AUTHORITY”, now on file in the office of the “AUTHORITY” the following project:

PROJECT NAME: BARRIER B CANOPY ROOF REPLACEMENT
FAYETTE COUNTY, WEST VIRGINIA
KNOWN AND DESIGNATED AS:
CONTRACT NO.: BBCR-1-20

WHEREAS, pursuant to said advertisement, “CONTRACTOR” submitted in writing a proposal and bid hereto attached for the construction of the above referenced project, according to said plans and specifications; and whereas, the contract for said project was duly awarded to Contractor, said “CONTRACTOR”, being the lowest responsible bidder in said proposal, which proposal in the amount of ___________________________ ______________________________

(written out)

($Figures)

is hereto attached and made a part hereof:

(1) NOW, THEREFORE, in consideration of the premises aforesaid, and the payments to be paid by “AUTHORITY” as set forth in said proposal “CONTRACTOR” agrees to furnish at his own cost and expense all the necessary materials, labor, tools, and equipment to build and complete said project in accordance with the plans, specifications and Special Provisions therefore on file in the office of the “AUTHORITY” which are hereby made a part of this contract.

(2) “CONTRACTOR” AGREES he is fully informed as to all conditions affecting the work to done, as well as to the labor and materials to be furnished for the completion of this contract, and that such information was secured by personal investigation and research and not wholly from the estimate of the engineer, and that he will make no claim against the said “AUTHORITY” by reason of estimates, tests, or representations heretofore made by an officer or agent of said “AUTHORITY.”

(3) THE WORK under this contract shall be performed in accordance with the true intent and meaning hereof and according to plans and specifications, without expense of any nature whatsoever to said “AUTHORITY”, other than the consideration named in this contract.
The “AUTHORITY”, however, reserves the right to make such additions, deductions, or changes as it deems necessary, making an allowance or deduction therefore at the prices named in the proposal for this work, and the contract shall in no way be invalidated for any loss of anticipated profits because of such change by reason of any variations between the estimated quantities and the quantities of the work done.

(4) "CONTRACTOR" AGREES to conform to the laws of the State of West Virginia in reference to keeping the project open, and to all other legal requirements not mentioned herein, or specified; to keep all employees engaged on said work protected by the Worker’s Compensation Fund in compliance with the Act of the Legislature of West Virginia, known as The Worker’s Compensation Act, which is made a part hereof, and to save the ‘AUTHORITY” harmless from all liability for damage to persons or property that may accrue during and by reason of the acts or negligence of the “CONTRACTOR”, his agents, employees, or subcontractors, if there be such.

(5) CONSTRUCTION UNDER the above proposal and calculation of working time will begin with a Notice to Proceed and will complete by/or on October 31, 2019.

IT IS AGREED that time is of the essence of this contract, and that “CONTRACTOR” will, in the event of failure to complete the contract within the time limit named, reimburse to the “AUTHORITY” an amount to be determined by said “AUTHORITY” as sufficient to cover fully any additional demonstrable costs incurred by the “AUTHORITY” because of such failure, including extra engineering costs, in addition to that specified in section 108.7 of the Standard Specifications.

(6) IT IS FURTHER AGREED if at any time during the prosecution of the work, the “AUTHORITY” shall determine that the work provided for is not being performed according to the contract, it may suspend the work under the contract, and thereupon complete it in compliance with the contract.

(7) ON THE FAITHFUL PERFORMANCE of the work set forth in the contract and the acceptance of the “AUTHORITY”, the “AUTHORITY” hereby agrees to pay the 'CONTRACTOR” the amount due and owing.

(8) THE AUTHORITY SHALL, once in each month make an estimate of work done, and of material which has been actually put in place, in accordance with the terms and conditions of this contract, during the preceding month, and compute the value thereof as set forth in the contract. From the total of the amounts so ascertained, there shall be deducted an amount equivalent to two (2) percent (2%) of the whole to be retained by the “AUTHORITY” until after completion of the entire contract, and its acceptance.
(9) IT IS FURTHER AGREED that so long as any lawful or proper directions concerning the work or material given by the
“AUTHORITY” shall remain unaccomplished, the “CONTRACTOR” shall not be paid any estimate on account of work
done or material furnished until such lawful or proper direction aforesaid has been fully and satisfactorily complied with.

(10) “CONTRACTOR” AGREES that in the employment of labor, in the performance of this contract, no preference or
discrimination among citizens of the United States shall be made.

(11) IT IS UNDERSTOOD and agreed that the plans, specifications, and proposals, as well as the “Information for Bidders”,
a copy of which is hereto attached, are each made part of this contract, and each and every provision thereof not herein
specifically set forth shall be considered as binding upon the parties hereto as though same were herein written.

(12) CONTRACTOR SHALL NOT assign, transfer, convey, sublet, or otherwise dispose of this contract, or of his right, title
or interest therein, or his power to execute such contract, to any other persons, company, or corporation, without the
previous consent in writing of the “AUTHORITY.”

(13) A COPY of the bond given by the “CONTRACTOR” to secure proper compliance with the terms and provisions of this
contract is hereto attached and made a part thereof.

(14) WHEREVER the term “West Virginia Department of Highways” is used in any contract document, it means “West
Virginia Parkways Authority.”

(15) THIS CONTRACT has been recommended by the General Manager and in witness thereof, the “AUTHORITY” has
causd its corporate name to be signed hereto by Gregory C. Barr, General Manager, and its corporate seal affixed hereto,
and “CONTRACTOR” has caused this contract to be properly executed as set forth below:
(SEAL)

(Name of Corporation)

ATTEST: By __________________________________________
Signature

______________________________       __________________________________________
Witness      Name and Title of Officer Signing

______________________________    WEST VIRGINIA PARKWAYS
Witness      AUTHORITY, a Corporation

______________________________
Date

______________________________
Witness

______________________________
General Manager
CONTRACT BOND

KNOW ALL MEN BY THESE PRESENTS, that we

Hereinafter called the “PRINCIPAL” and

a corporation, incorporated under the laws of the State of

hereinafter called the “SURETY” are held and firmly bound unto the West Virginia Parkways Authority and the Trustee in the full and just sum of

lawful money of the United States of America, to be paid to the West Virginia Parkways Authority, which payment well and truly too be made and done, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally firmly by these presents.

Sealed with our respective seals and dated

The condition of this obligation is such: THAT WHEREAS, the said “PRINCIPAL” as “Contractor” has entered into a certain contract dated

with the West Virginia Parkways Authority, a corporation, to build and complete according to the plans and specifications therein described and referred to, that certain project in Fayette County, West Virginia, described as follows:

PROJECT NAME: BARRIER B CANOPY ROOF REPLACEMENT CONTRACT
BARRIER B, MILEPOST 56
FAYETTE COUNTY, WEST VIRGINIA
KNOWN AND DESIGNATED AS:
CONTRACT NO.: BBCR-1-20

WHEREAS, it was one of the conditions of the award of said contract that this bond be executed by “PRINCIPAL” and “SURETY” and delivered to the West Virginia Parkways Authority.

NOW, THEREFORE, if the said “PRINCIPAL” as contractors, shall in all respects well and truly comply with the terms and conditions of said contract, and his, their or its obligations thereunder, including the plans and specifications therein described and referred to, all, of which are made a part hereof, and such alterations and modifications as may be made in said plans and specifications as therein provided, which alterations and modifications shall not operate to discharge the “PRINCIPAL” or “SURETY” on this bond, and said Contractor shall well and truly, and in a manner satisfactory to the West Virginia Parkways Authority, complete the work contracted for in accordance with the terms and conditions of said contract and within the completion date therein specified, and shall promptly pay in full to the persons, entitled thereto for all materials, gas, oil, repairs, suppliers, equipment, rental charges for equipment and charges for the use of the equipment, and labor used by the Contractor in and about the performance of such contract, including such claims, services, and obligations against subcontractors, and shall save harmless the West Virginia Parkways Authority, and the Trustee from any expense incurred through the failure of said Contractor, including subcontractors, to complete the work as specified, and for any damages growing out of the carelessness or negligence of said Contractor, his, their or its servants, agents and employees, or his subcontractors, their agents, servants, and employees, and shall fully pay off and discharge and secure the release of any and all mechanics’ liens which may be placed upon said property by any subcontractor, laborer, or material men, and shall also save and keep harmless the West Virginia Parkways Authority and the Trustee from all losses to it or them from any cause whatever including patent, trademark, and copyright infringements in the manner or constructing said contract including errors in drawings furnished by the Contractor, then this obligation shall be null and void. Otherwise it shall remain in full force and effect.
(Affix Corporation Seal Here)  

Name of Corporation  
By: ________________________________  

Title of Officer Signing  

If Co/Surety Company  
By: ________________________________  

Surety Company  
By: ________________________________  

Title  

Street Address  
By: ________________________________  

Title  

City, State, Zip Code  
By: ________________________________  

Street Address  
By: ________________________________  

City, State, Zip Code  
By: ________________________________  

Phone Number  

(for Contractor if a Corporation)  

State of ________________________________ County of ________________________________  

The foregoing instrument was acknowledged before me this _______ day of ____________, 20___.  
by: ________________________________  

Name of Officer  
by: ________________________________  

Title of Officer  
of: _____________________________________________________________________________________  

(Insert Name of Corporation)  

a _________________________________________________ Corporation, on behalf of the Corporation.  

(State of Incorporation)  

My commission expires ___________________  

Notary Public  

(For Surety if Corporation)  

State of ________________________________ County of ________________________________  

The foregoing instrument was acknowledged before me this _______ day of ____________, 20___.  
by: ________________________________ as Attorney-In-Fact on behalf of  

(Name of Attorney-In-Fact)
(Insert Name of Corporation)

A __________________________ Corporation, on behalf of the Corporation.

(State of Corporation)

My commission expires _____________________

Notary Public

(For Co/Surety if Corporation)

State of __________________________ County of __________________________

The foregoing instrument was acknowledged before me this ____ day of ________, 20___.

BY: ____________________________ __________________________

Name of Officer Title of Officer

OF: ____________________________

(Insert Name of Corporation)

A __________________________ Corporation, on behalf of the corporation.

(State of Corporation)

My commission expires _____________________

Notary Public
I/We ______________________________ hereby certify that all bills, charges and salaries for labor, services, materials and rental of equipment, arising out of the prosecution of the work under Contract/Project No. BARRIER B CANOPY ROOF REPLACEMENT CONTRACT (BBCR-1-20) have been paid, or satisfactory arrangements for payment have been made. I/We further certify that all other just demands and liens relating to this project have been fully satisfied. I/We hereby release the West Virginia Parkways Authority, its Engineers and representatives from all claims demands and liability of whatsoever nature arising from anything done or furnished under this contract.

SIGNED AND SEALED THIS _______ day of ________________, 20___.

__________________________________________
Business Name

__________________________________________
Address

Witness or Attest:                           By: ________________________________ (L.S.)
__________________________________________   Title: ________________________________

(Affix Corporate Seal Here)
WEST VIRGINIA PARKWAYS AUTHORITY

SPECIAL PROVISIONS
TO
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
ROAD AND BRIDGES SPECIFICATIONS OF 2017

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PREFACE:

The “Road and Bridges Specifications” of the West Virginia Department of Transportation, Adopted 2017, copies of which are issued separately, as amended and augmented by the latest Supplemental Specifications and the Special Provisions following, shall govern the work of this Project and the performance of the Contract. These specifications are hereby made a part of the Contract as fully and with the same effect as if set forth at length herein.

Attention is directed to the fact that any other documents printed by the West Virginia Department of Transportation modifying or supplementing said “Road and Bridges Specifications”, such as Special Provisions (by the Department), Notice to Bidders, etc., do not form a part of this Contract nor govern its performance, unless specifically so-stated in the Special Provisions herein contained. The current edition of the WVDOT “Standard Details Book”, Volume I and II, as amended are hereby made a part of this contract.

References to “Proposal” have been used interchangeably with “Bid” in the Authority’s documents for this contract. This shall be accounted for when working contract documents prepared by the Authority with those standards prepared by WVDOT.

References made to specific section numbers in these Supplemental Specifications, or in any of the various documents which constitute the complete Contract Documents, shall, unless otherwise denoted, be construed as referenced to the corresponding section of the “Road and Bridges Specifications” issued by the West Virginia Department of Transportation in 2017.
The following provisions represent modifications to the corresponding sections of the West Virginia Department of Transportation Specifications, described above, and relate exclusively to the West Virginia Parkways Authority Contracts. In case of conflicting requirements between the West Virginia Department of Transportation Specifications and these modifications, the modifications shall govern. Any applicable provision in the West Virginia Department of Transportation Specifications not amended by and not in conflict with any Supplemental Specifications or Special Provision shall be in full effect.

All modifications contained herein are additions to the provisions of the designated sections of the West Virginia Department of Transportation Specifications unless the text specifically identifies a requirement to be an amendment to deletion of or substitution for a provision in the West Virginia Department of Transportation Specifications.

SECTION 101 – DEFINITION OF TERMS

101 Terms

The following new definitions are added to amended by this section:

ADDENDUM – A written, fax or telegraphic revision or addition to any of the Contract Documents, transmitted in advance of the opening of Bids to all parties who have been recorded by the Authority as having secured full sets of Contract Documents directly from the Authority or their designee.

AUTHORITY – The West Virginia Parkways Authority, an agency of the state created by an amendment to the Code of West Virginia by amending, in Chapter 17, an Article 16A containing Section Nos. 17-16A-1 to 17-16A-23 inclusive. The Authority’s principal office is presently located at 3310 Piedmont Road, Charleston, West Virginia, 25306.

MOT – Maintenance of Traffic

BID BOND – One of the two permissible means of security offered as the Bid Guaranty, in the form of a surety bond executed by the Bidder and the Contractor’s Surety, guaranteeing that if the Authority Should award the Contract to the Contractor, the Bidder will execute and deliver the Contract Agreement and Contract Bond, together with other required documents (see Sec. 103.5), all within the prescribed time (see Sec. 103.8).

STANDARD DRAWINGS – Whenever the Plans and/or Specifications refer to “Standards” or “Standard Drawings” such reference shall be construed to mean the set of drawings issued by the West Virginia Department of Transportation, Division of Highways, and entitled Standard Details Book, Volumes I and II. Those standards or standard drawings current at the date of advertisement are applicable to work on this Contract.
FULL COMPLETION OF ALL WORK (OR TO FULLY COMPLETE ALL WORK) – The completion of all work specified under this Contract as evidenced by the formal acceptance thereof by the Authority.

TRAFFIC CONTROL MANUAL – Manual on Temporary Traffic Control for Streets and Highways, dated May, 2006 and all subsequent revisions when revised.

Whenever in the various Contract Documents the term, “Commission” or “State” appears, it shall be replaced by the term, “West Virginia Parkways Authority.” Similarly, the term, “Commissioner” shall be replaced by the term, “General Manager” of the West Virginia Parkways Authority.

Whenever in the West Virginia Department of Transportation Specifications and Standard Drawings the term “Division” or “West Virginia Department of Transportation” appears, it shall be replaced by the term, “West Virginia Parkways Authority,” except in references to said West Virginia Department of Transportation, Division of Highways, as being the author of certain Specifications and Standard Drawings, and in reference to said Division’s Internet Web Site and as the agency prequalifying prospective Bidders.

Whenever in the West Virginia Department of Transportation Specifications, Special Provisions and Standard Drawings the term, “District Engineer” appears, it shall be replaced by the term, “Engineer”.

The definitions for the following terms as they appear in this section are deleted and the following definitions substituted therefore:

CONTRACT TIME – Each calendar date indicated in the Specifications or Special Provisions as the time allowed for the completion of any designated portion or for all of the work under the Contract, including any extensions thereto that may subsequently be authorized.

ENGINEER – The authorized representative(s) of the firm of the General Consultant, HNTB Corporation, or other firm who have been duly appointed by the Authority to prepare Plans and Specifications for the Contract and to monitor the construction work performed in connection therewith.

The headquarters office of HNTB Corporation, for this project is located at 41 Mission Way, Scott Depot, WV 25560, telephone (304) 760-1831.

SPECIFICATIONS – The general term comprising all the directions, provisions and requirements contained in the West Virginia Department of Transportation, “Roads and Bridges Specifications”, 2017, Edition, and their latest Supplemental Specifications, the Authority’s Supplemental Specifications and Special Provisions, and in any Addenda and Change Orders or Supplemental Agreements that may be issued, all of which are necessary for the proper performance of the Contract.

SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS

102.2 Contents of Proposal Forms

The following documents are bound with and are also a part of the Bid Form:

- Proposal Form
- Schedule of Items
- Affidavit of Non-Collusion
- Signed WV Job Act
- Drug Free Affidavit
- Contractor’s License
- Certification
- Addenda Certifications
- Non-Discrimination Requirement
- Signature Sheet
- Proposal Guaranty Bond
102.5 Examination of Plans, Specifications and Site of Work

Add the following paragraphs:

The Bidders are required to visit the Project site to form their own conclusions regarding access requirements, effort required to perform the tasks and other information needed to prepare their bid. Prior to visiting the site, a Bidder shall schedule a site visit within the days of Monday through Thursday; no site visits will be permitted from Friday through Sunday.

INSTRUCTIONS FOR SITE VISITS

Call the West Virginia Turnpike Facilities Administrator, Cheryl Porterfield at (304)256-6685. Please have the following information:

1. Name of company and description of vehicle.
2. Purpose to visit construction site between Mile ___ and ___.
3. Will be parked on the Turnpike shoulders.
4. Requested date and approximate time of visit.

Special Instructions:

1. Park vehicle as far off of the road as possible.
2. Leave flashers on when parked on berm.
3. All persons are required to wear WVPA approved safety vests when out of the vehicle.
4. When leaving, use shoulder to accelerate to speed of traffic.

Any Addenda that may be issued will be sent either by certified mail, overnight mail, facsimile, or some other means by which receipt of same can be accurately documented. The return to the Authority of a prospective Bidder’s receipt of such Addenda will also be prima facie evidence that the Bidder has received and acknowledged the Addenda and has taken the contents thereof into consideration in preparing the Bidder’s Bid.

102.6 Preparation of Bid

The Non-Collusion Affidavit must be executed by the person signing the Bid. In the case of Joint Venture Bidders, only the person signing the Bid on behalf of the Contractors involved need execute the Non-Collusion Affidavit.

The West Virginia Parkways Authority may elect to receive bids on more than one construction contract on the same date. When this event occurs, the Authority will award the various contracts after all of the bids for the various contracts are received and analyzed.

102.7 Bid Guaranty

The following is added:

If a certified check is submitted as the Bid Guaranty, the check is to be made payable to the West Virginia Parkways Authority, and the project name and Contract number shall also appear on the face of the check, as well as the business name of the bidder.

A bid bond will be accepted only if executed on a form which contains the exact wording as the Bid Bond included in these contract documents form. Any bid accompanied by a bond having wording, which differs in any respect from the Bid Bond form may be rejected.
102.9 Delivery of Proposals

The third sentence of the first paragraph of this Section is deleted, and the following clause substituted:

Bids will be accepted at the Authority’s office at 3310 Piedmont Road, Charleston, West Virginia 25306 until scheduled bid opening time.

SECTION 103 – AWARD AND EXECUTION OF CONTRACTS

103.2 Award of Contract

Delete the contents of 103.2 and replace with the following:

The Authority will award a contract within thirty (30) days of the bid opening for said Contract. If a Contract is not awarded within this time period, the Bidder shall have the right to withdraw the Bidder’s Bid for the Contract without penalty or prejudice, unless the award date is extended by mutual consent.

The Authority agrees that Award of Contract, if made, will be determined without discrimination on the ground of race, creed, color, sex or national origin.

103.6 Insurance Requirements

Add the following.

103.6.6 General

The Contractor shall procure and maintain at his own expense, until acceptance by the Authority of the Project, insurance for liability for damages imposed by law and assumed under this Contract, of the kinds and in the amounts herein provided, with insurance companies authorized to do business in the State. Before commencing the work, certificates of insurance together with declaration pages in satisfactory form shall be submitted to the Authority showing that he and all of his subcontractors have complied with this Subsection. The certificate or certificates and declaration pages shall provide that the policies shall not be changed or canceled until 30 days notice has been given to the Authority. All certificates and notices of cancellation or change shall be mailed to Gregory C. Barr, General Manager, WV Parkways Authority, P.O. Box 1469, Charleston, WV 25325. Upon request, the Contractor shall furnish the Authority with a certified copy of each policy, including the provisions establishing premiums.

Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve the Contractor for liability in excess of such coverage, nor shall it preclude the Authority from taking such other actions as are available to it under any other provision of this Contract or otherwise in law.

The above required CGL Insurance shall name as additional insureds the WVPA, the Engineer and his consultants and each of their officers, agents and employees.

The insurance policy shall be endorsed to include Broad Form Property Damage, Contractual Liability, Completed Operations and Independent Contractors.
103.7 Special Insurance

103.7.1 Marine Liability Insurance

The Contractor and/or Subcontractors engaged in marine operations must obtain "Primary Protection and Indemnity Insurance" with the limit of liability clause to be $1,000,000 single limit for each occurrence.

103.7.2 Worker’s Compensation and Employers Liability Insurance

The Contractor shall provide:

1. Worker’s Compensation Insurance – In accordance with the requirements of the laws of the State of West Virginia and shall include an all states endorsement to extend coverage to any state, which may be interpreted to have legal jurisdiction.

2. Employers Liability Insurance – Limit of not less than $1,000,000 for each accident.

103.7.3 Excess Protection and Indemnity

This insurance shall have a minimum limit of $1,000,000.

103.7.4 Umbrella Liability

This insurance shall have a minimum limit of $1,000,000. The above required Umbrella Liability Insurance shall name as additional insured the WVPA, the Engineer and his consultants and each of their officers, agents, and employees.

103.7.5 Indemnity

To the fullest extent permitted by Law and Regulations, Contractor shall defend, indemnify and hold harmless the WVPA, Engineer, Engineer’s Consultants, and the officers, directors, partners, employees, agents, and other consultants of each and any of them, from and against all claims, costs, losses and damages (including but not limited to all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs) arising out of or resulting from the performance of the Work; provided that such claim, cost, loss or damage: (I) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, and (II) is caused in whole or in part by any negligent act or omission of Contractor, Subcontractor, Supplier, or any person or organization directly or indirectly employed by any of them to perform or furnish any of the Work, or anyone for whose acts any of them may be liable, regardless of whether or not caused in part by the negligence or omission of a person or entity indemnified hereunder or whether liability is imposed upon such indemnified party by Law or Regulations regardless of the negligence of such person or entity. Without limiting the generality of the foregoing, this indemnification obligation shall extend to and include any actions brought by, or in the name of, any employee of Contractor or organization to whom the Contractor is legally liable.

103.10 Preconstruction Conference

Delete this subsection. Substitute the following:

The preconstruction conference will be scheduled at a mutually agreed time as soon as possible after the award of the Contract. It will be held at the WVPA Headquarters at 3310 Piedmont Road. The Contractor, his superintendent or an agent authorized to sign the Contract Documents shall be present at the conference. The Contractor shall present the following items:
1. Contract Bond  
2. Insurance Certificate(s)  
3. Progress Schedule and Operation Plan  
4. List of Material Supplier(s)  
5. West Virginia Workers Compensation Certificate  
6. WVDOH Pre-Qualification Certificate  
7. List of Subcontractor(s)  
8. Quality Control Plan(s)  
9. Pollution Control Plan(s)  
10. List of Contractor’s Key Personnel  
11. Safety Plan  
12. West Virginia Jobs Act Action Plan  
13. Traffic Certification  
14. Superintendent’s Qualifications  
15. MOT Subcontractor(s) Superintendent  
16. Contract (Signed by the Contractor)  
17. West Virginia Ethics Commission-Disclosure of Interested parties to Contracts

The Contractor shall submit a progress schedule using the Bar Chart, Gant Chart, or Critical Path Method (CPM) format. As a minimum, the schedule shall include:

- The duration of activities.
- The interrelationship of critical activities.
- Submission of design mixes.
- Maintenance of traffic changes.
- Any temporary work necessary to complete project.
- An easily distinguishable critical path.
- Final completion by the date specified in the contract (for fixed date contracts) or by the completion date determined by contract duration and NTP.

**SECTION 105 – CONTROL OF WORK**

**105.17 Submission and Disposition of Claims**

The first paragraph of this section is deleted and the following substituted therefore:

Early or prior knowledge by the Authority of an existing or impending claim for damages might alter the plans, scheduling and other actions of the Authority or result in mitigation or elimination of the effect of the act objected to by the Contractor. Therefore, a written statement describing (1) the act of omission or commission by the Authority or its agents that allegedly caused damage to the Contractor and (2) the nature of the claimed damage, must be submitted to the Engineer at the time of occurrence or beginning of the work upon which the claim and subsequent action is base. If such damage is deemed certain in the opinion of the Contractor to result from the Contractor’s acting upon an order emanating from the Engineer, the Contractor shall take written exception to such order immediately. Submission of notice of claim as specified shall be mandatory, failure to comply shall be a conclusive waiver to such claim for damages by the Contractor. Mere oral notice or statement will not be sufficient nor will notice or statement after the event since it tends to hinder, if not prevent, the Authority’s investigation of the pertinent facts. At the time of occurrence or prior to beginning the work, the Contractor shall furnish the Engineer with an itemized list of equipment, labor and materials for which additional compensation will be claimed. The Contractor shall afford the Engineer every facility for keeping actual cost of the work. The Contractor and Engineer shall compare records and bring them into agreement at the end of each day. Failure on the part of the Contractor to afford the Engineer proper facilities for keeping strict account of actual cost will constitute a waiver of the claim for such extra
compensation except to the extent that it is substantiated by Authority records. The filing of such notice by the Contractor and the keeping of cost records by the Engineer shall in no way be construed to establish validity of the claim. In the event the Contractor’s claim contains Contractor-furnished data which cannot be verified from the Authority’s project record, such data shall be subject to complete audit by the Authority or its authorized representative if it is to be used as a basis for claim settlement.

Add the following:

105.18 Contractor’s Parking Access

Use of the Turnpike shoulders or roadway for parking vehicles or equipment will not be permitted. Contractor’s vehicles and equipment needed at the site shall be parked only in the Contractor’s work areas. The Authority will make designated areas located on Turnpike property available for parking for the Contractor’s employees and other vehicles and equipment not in use, provided that areas are restored to their original condition upon completion of the work.

All employees’ and Contractors’ vehicles and equipment not needed in the execution of the work shall be parked in these designated areas.

Tracking of mud and debris onto the Turnpike will not be permitted.

U-turns will not be permitted. This is a traffic violation and tickets will be issued.

105.19 Contractor’s Toll Passage

The Contractor shall be responsible for payment of tolls.

105.20 Material Acceptance

In general, the materials that are covered by the Highway Specifications for this project will be tested and accepted in accordance with the West Virginia Department of Transportation Standard Specifications Road and Bridges, Adopted 2017, and the latest adopted Supplemental Specifications, the Plans and these Special Provisions.

SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

107.7 Public Convenience and Safety

Add the following after the last paragraph:

All workmen at the construction site whether employed by the Contractor or others shall wear safety vests of approved color at all times. There are no exceptions; this includes truck drivers, delivery men, etc. The Contractor shall have a ready supply of vests at all times and issue as required to conform to these requirements.

The Contractor shall be solely responsible for the enforcement of these requirements and shall promptly remove any person that refuses to wear an approved vest on Turnpike Property.

107.14 Responsibility for Damage Claims

Delete the first line of the first paragraph and substitute:

“The Contractor shall indemnify and save harmless the Trustee, the Authority, the Engineer and its employees”.
SECTION 108 - PROSECUTION AND PROGRESS

108.4 Limitation Of Operations

Add the following:

From Labor Day to Memorial Day the following work restrictions apply:

The normal working hours permitted for mainline lane closures will be 24 hours daily with the following restrictions: Lane closures will be permitted Sunday (starting at 9 pm) through 7 am Friday. All lanes must be open to traffic from 7 am Friday to 9 pm Sunday. The Contractor has the option of working Friday night from 7 pm to 7 am in lieu of Sunday night but not both nights. Variations to the normal working hours must be approved by the Authority. Any project specific adjustments to the above restrictions will be included in the plans. See the traffic control plan notes.

From Memorial Day to Labor Day the following work restrictions apply:

The normal working hours permitted for mainline lane closures will be 24 hours daily with the following restrictions: Lane closures will be permitted Sunday (starting at 9 pm) through 7 am Friday. All lanes must be open to traffic from 7 am Friday to 9 pm Sunday. Variations to the normal working hours must be approved by the Authority. Any project specific adjustments to the above restrictions will be included in the plans. See the traffic control plan notes.

During Daylight Savings Season, the Authority may adjust the times above.

See Section 636 “Traffic Restrictions for Holidays” for additional limits on work hours.

Lane closures that interfere with Turnpike mainline traffic and result in long queues during periods of heavy traffic will not be permitted. If long traffic queues occur, the Contractor will be directed to suspend his operations until traffic moderates.

SECTION 109 - MEASUREMENT AND PAYMENT

109.6 Partial Payment

Delete the entire section on "Substitution of Securities for Retainages".

Delete the paragraph regarding investment of retainages in the Consolidated Investment Fund of the State of West Virginia.

109.7 Payment For Material On Hand

This Section is amended to the extent that Contractor's invoices for materials delivered to the site shall show actual prices for such materials.
WEST VIRGINIA PARKWAYS AUTHORITY
SPECIAL PROVISIONS FOR
SUBCONTRACTOR PROMPT PAYMENT

1. GENERAL:

Contractors shall pay subcontractors for work satisfactorily performed by subcontractor, within fourteen (14) calendar days of receipt from the Authority of payment for subcontracted work. Retainage may be held by the contractor during the pendency of a subcontractor’s work in accordance with terms of the subcontract but must be released by the contractor within fourteen (14) calendar days of satisfactory completion of the subcontractor’s work and payment for the completed subcontract work by the Authority. Acceptance of the subcontracted work by the Authority shall constitute satisfactory completion of subcontracted work.

2. WITHHOLDING PAYMENT RESTRICTIONS:

The Contractor may delay or postpone payment, or delay or postpone release of retainage for good cause. This may include but shall not be limited to failure by the Subcontractor to pay for labor, supplies, or materials, or to provide any required documentation. Delay or postponement of payment may only be affected after written approval by the Authority.

3. PENALTIES FOR NONCOMPLIANCE:

Failure to promptly pay subcontractors or to release subcontractor’s retainage may result in disqualification of a contractor as non-responsible or refusal by the Authority to issue a Proposal Form to a contract for future projects as provided in Subsection 102.3. All subcontracting agreements made by the contractor as provided in Subsection 108.1 shall include this special Provision as incorporated in the contract. All disputes between the contractors and subcontractors relating to payment for completed work or retainage shall be referred to an independent dispute resolution arbitrator. Authority will provide internal controls to expedite the determination and processing of final quantities for the satisfactorily completed subcontracted portions of the contract in order to provide for prompt return of retainage.
204.4 Method of Measurement

Add the following:

Item 204001, Mobilization, will be measured as Lump Sum. This item includes all costs associated with the initial contract mobilization during the regular work season as described in section 204.1.
WEST VIRGINIA PARKWAYS AUTHORITY

SPECIAL PROVISION FOR

SECTION 636 - MAINTAINING TRAFFIC

636.2 Shadow Vehicle

Add the following:

<table>
<thead>
<tr>
<th>Material</th>
<th>Subsection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Truck Mounted Attenuator</td>
<td>715.41.3</td>
</tr>
</tbody>
</table>

636.9 Traffic Control Devices

Insert the following after the second paragraph:

If the project is on an Interstate Highway, an APD (Appalachian Highway Corridor), a controlled access highway with posted speed limit of 40 Miles Per Hour (MPH) or greater, or if otherwise noted on the plans, Traffic Control Devices shall include work area signs designated "GIVE 'EM A BRAKE" (GEAB). The sign size, message, and design shall be as shown on Sign Fabrication G30-1 or as directed by the Engineer.

The GEAB sign (Item 636011-*, with a value of 300 units each) shall be installed 500'-1500' after the first lead-in work area sign unless the work zone is greater than one (1) mile, in length, in which case the GEAB sign shall be installed approximately ¼ mile in advance of the active work area. At no time shall the GEAB sign be closer than 500’ from any other work area signing. The sign shall be installed in both directions on the right side of the highway. All GEAB signs shall be installed on three, 3 pound per foot u-channel posts driven to a depth of 3 ½ feet. The u-channel posts shall be continuous in length, or a combination of a stub driven to a depth of 3 ½ feet, an approved splice arrangement and an appropriate length supporting post.

GEAB sign shall only be installed in active work areas where workers are present and visible to passing motorists. During periods of inactivity in the work area, the GEAB sign(s) shall be covered or removed.
636.11 Flagger – Traffic Director

All flaggers shall be furnished by the Contractor, and it shall be the Contractor's responsibility to provide flaggers at any location necessary to assure the safety of the traveling public, when more than two (2) flaggers are required, as a result of operations considered reasonable and necessary by the Engineer to complete the project, payment will be made for the additional flaggers.

Only flaggers used to direct or control traffic through the work area have been included in this project. Flaggers used for the convenience of the Contractor during his construction operations shall be at his own expense.

All flaggers must have a current and valid certification by the American Traffic Safety Services Association (ATSSA) at the time of work.

Two (2) flaggers are required per lane closure. The flaggers shall be located per the Authority’s “Representative”. One (1) flagger is to be positioned in accordance with the Manual, while the other is to continually move with stopping traffic. Flaggers shall be positioned prior to Traffic Control Strategies being implemented. Flaggers shall be equipped with 2-way radios for communication at all times.

Locations where the flaggers are located shall be illuminated in such a manner that the flaggers are visible at all times to the traveling motorists.

In accordance with Title 23 CFR all workers at construction sites shall wear high-visibility safety apparel that meets the Performance Class 3 requirements of the ANSI/ISEA 107-2004 or "equivalent revisions" of publication entitled “American National Standard for High-Visibility Safety Apparel and Headwear.” This apparel may be in the form of a safety vest, jacket, coveralls or T-shirt and the approved colors are chartreuse (lime-green) outer material with silver or white retro-reflective striping.

There are no exceptions; “worker” is defined as all persons within a traffic control zone and/or anyone exposed to risks of moving traffic or construction equipment.

The Contractor shall have a ready supply of vests at all times and issue as warranted to conform to these requirements.

A Traffic Director is required anytime there is a mainline lane closure. For simultaneous lane closures, one (1) Traffic Director is required per closure. The Traffic Director shall be positioned prior to Traffic Control Strategies being implemented. The Traffic Director shall be an off-duty state police officer. The Traffic Director shall have all of the necessary equipment including uniform and a properly identified police vehicle so that the public recognizes the law enforcement power of the individual. The Contractor shall provide the traffic director.

To obtain these services you need to write a letter to the Superintendent of the State Police requesting approval for Extraordinary Police Service for Maintenance of Traffic on the West Virginia Turnpike. You will be charged by the State Police for providing the trooper, vehicle, etc. For additional information contact Paula Totten (304) 746-2280.
SPECIAL PROVISIONS FOR

SECTION 636 - TRAFFIC RESTRICTIONS FOR HOLIDAYS

Clear Zone Non-Work Day – Non work days within the Clear Zone shall be all holiday periods as follows:

- New Years
- Easter Day
- Memorial Day
- 4th of July
- Labor Day
- Thanksgiving
- Christmas

<table>
<thead>
<tr>
<th>HOLIDAY DAY OF WEEK</th>
<th>NON-WORK DAYS*</th>
</tr>
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<tbody>
<tr>
<td>Monday</td>
<td>Friday, Saturday, Sunday, Monday, Tuesday</td>
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<td>Friday, Saturday, Sunday, Monday</td>
</tr>
<tr>
<td>Sunday</td>
<td>Friday, Saturday, Sunday, Monday</td>
</tr>
</tbody>
</table>

No work within the clear zone shall be performed during the entire week of and the Monday following the Thanksgiving Holiday and the days between Christmas and New Years Day.

* The non-work period, as shown above in the table, starts at 7am on the first day of the restricted period and ends at 7 pm on the last day of the restricted period.
SECTION 637 - INVOICING

1. **INVOICES**

   Contractor invoicing shall be done promptly so that expenditures can be monitored. Invoices are due two weeks after the closing date for the invoice period. Delinquent invoices will result in work stoppage pending invoice receipt. Invoices shall be submitted to HNTB Corporation, 41 Mission way, Scott Depot, WV 25560; Attention Bruce Bosley. Invoicing will be every two weeks. Invoices will be submitted to HNTB at the end of the 15th and 30th of each month as to expedite invoice review and payment.

   All invoices shall be accompanied by materials receipts, equipment rental receipts, copies of applicable signed daily time sheets, and certified payrolls. A retainage of two percent shall be deducted from the accumulative total for each invoice period. In addition, the invoice shall contain a certification and affidavit signed by a duly authorized company officer in accordance with the examples below:

1.1 Example Certification

   I the undersigned do hereby certify that: (1) the above invoice reflects a true and accurate accounting of the records of (COMPANY), and that the amount has been paid or previously invoiced; and (2) insurance coverage as specified in the agreement furnished by (Insurance Company(s) and Workers’ Compensation coverage are still in effect.

   By ______________________________________________________________
   Title ____________________________________________________________
   Company ________________________________________________________

1.2 Example Affidavit

   CONTRACT NO. ____________________________________________________
   INVOICE NO. ____________________________________________________
   DATE __________________________________________________________

   AFFIDAVIT

   STATE OF ___________________       _______________ COUNTY

   I, (name), being first duly sworn, say that I am a(n) (title) with (company).

   I do hereby certify that the attached billing, including invoice No.____ and the supporting documents, is true and correct and is in Accordance with applicable provisions of Contract _______ and Change order (Supplemental Agreement) dated__________.

   I do hereby certify that all associated records and documents not submitted herewith as may be required to support the aforementioned billings are assembled and readily available in the contractor’s office for subsequent inspection by the Authority.

2. **Other**

   Any and all questions pertaining to these specifications or this procurement process must be in writing and submitted to: Margaret Vickers, Director of Purchasing
   Fax: 304-926-1900
   Email: mvickers@wvturnpike.com
SECTION 701 - BARRIER B CANOPY ROOF REPLACEMENT

701.00 General

SCOPE OF WORK

The West Virginia Parkways Authority, hereafter referred to as "Authority," is accepting bids for the removal, disposal, repair and replacement of the existing EPDM toll canopy roof located at the Authority’s Toll Barrier B, Milepost 56.

1. Remove existing EPDM roof and underlying insulation to expose the existing built-up roof. Take precautions to prevent clogging or obstruction of the canopy roof drains.

2. Inspect existing roof underlayment for deterioration and damage and replace as necessary. This contract assumes that five percent (5%) of the existing roof area is damaged. Contractor shall repair all damaged sections of the existing roof to original condition and to the satisfaction of the Engineer. All roof repair work shall be included in the contractor’s bid for Item 701001-002, Canopy Roof Repair. Any damaged areas beyond the assumed five percent (5%) that require repair will be approved by the Engineer and the cost associated with this repair will be by mutual agreement between the Authority and the contractor.

3. Inspect the existing fascia curb for deterioration and damage and replace as necessary. If any more than 10% of a 10LF area is rotted, soft or otherwise damaged, it is to be replaced. Adjust the height of the fascia curb with pressure treated wood to allow for ¼:12 slope to the centerline of roof with 2” of freeboard. Contractor is to assume that 5% of the total length of existing curb meets the 10% damage criteria and shall include cost of material and labor to replace in-kind in the cost for Item 701001-003, Built-Up Roof Curb.

4. Install one (1) layer of 1.5” polyisocyanurate insulation over the existing built-up roof system. Insulation shall be mechanically fastened to the existing roof system in accordance with the manufacturer’s recommendations. Insulation shall be tapered ¼:12 toward the drains located as shown in Appendix B, Existing Roof Drain Layout Plan.

5. Install new flashing at each drain location.

6. Install one (1) layer of 60 mil (0.060”) thick, non-reinforced Ethylene Propylene Diene Monomer (EPDM) roof covering over the entire canopy roof. The EPDM color shall be black and shall be fully adhered to the newly installed polyisocyanurate insulation.

7. Fabricate and install new 24 gage, kynar finished gravelstop flashing around the entire inside perimeter of the roof.

8. Install four (4) fall protection anchors on the roof. Fall protection anchors shall meet or exceed the requirements as set forth in Section 701.03 of these contract documents.

9. Clean-up all construction debris and leave site in original condition. Check downspouts for clogging and test for positive drainage flow. Remove any obstructions and demonstrate that downspouts drain freely.

WARRANTY

Material shall be warranted for a period of twenty (20) years after completion.

PAYMENT

The costs for all materials, labor, removal, disposal, repair and replacement as indicated in this contract shall be paid for as item 701001-001, Barrier B Canopy Roof Replacement.
WORK SEQUENCE AND TRAFFIC CONTROL

1. Contractor shall perform no work over live traffic. Barrier B has ten (10) toll lanes. All work shall be scheduled and executed during periods of off-peak traffic volume to allow closure of barrier lane(s). All scheduled work shall be coordinated with and approved by WVPA designated Personnel. Maintenance of traffic, equipment and labor, to close toll lane(s) necessary for roofing work shall be the responsibility of the contractor and cost shall be included in his bid for Item 701001-001, Barrier B Canopy Roof Replacement.

2. Contractor shall sequence all roof work, removal of existing and placement of new, to correspond with the toll lane closures. Stop points and seams shall be constructed so as to prevent leaks in the existing and as-built new condition. Contractor shall be responsible to repair any such leaks that occur.

3. Contractor staging and equipment shall be placed so as to not interfere with normal activities and operations of the toll barrier. Contractor shall coordinate all work, equipment staging and any such activities related to the roof replacement with WVPA designated Personnel.

4. Contractor is advised that only one lane can be closed at a time for lanes 2 through 9 during daylight hours. These hours are 7:00 AM until 8:00 PM.

5. Contractor is required to perform work over wide load lanes (lanes 1 and 10) during night hours. These hours are 8:00 PM until 7:00 AM. In the event the contractor is required to perform any work over these lanes in daylight hours, contractor is required to have two (2) flaggers on standby to direct wide load to the wide load lane. The contractor is to stop all work over the wide load lane and remove traffic control restriction from the lane to allow passage of the wide load; must be coordinated and approved by WVPA designated Personnel. Cost of flaggers and any traffic control equipment shall be considered incidental to pay item 701001-001 and included in that item.

EXISTING CONDITIONS

1. It is the contractor’s responsibility to verify all existing conditions of the roof prior to bidding. Dimensions, square foot areas, locations of drains, etc., given in this contract shall be verified by the contractor.

2. Estimated area canopy roof is 4,608 sq. ft. Contractor shall verify prior to bidding.

3. This contract assumes five percent (5%) of the roof area and fascia curb contains damaged or deteriorated built-up roof underlayment. Contractor shall include a cost for repair of this damaged area in Bid Item 701001-002, Barrier B Canopy Roof Repair and 701001-003, Built-Up Roof Curb.

4. If during the contractor’s inspection of the existing built-up roof a structural defect of the supporting steel space frame is found or suspected, the contractor is to immediately stop work and notify WVPA designated personnel. The WVPA Engineer will inspect the defect and make a determination on how to proceed.

TEMPORARY FACILITIES AND CONTROLS

1. Temporary Utilities:

   a. Water and power for construction purposes are available at the site and will be made available to the roofing contractor. Contractor shall not use or store water for any purpose, other than personal drinking water, on the canopy roof. Cleaning of tools or equipment shall be in an area designated for that purpose by the WVPA.

   b. Contractor shall be responsible to provide all hoses, valves and connections for water from a source designated by WVPA. In addition, the contractor shall be responsible for providing all temporary construction lighting and power chords.
2. Temporary Sanitary Facilities:
   a. Sanitary facilities are available at the site.

3. Facilities and Grounds:
   a. The roofing contractor shall exercise all reasonable care to protect the building, facilities and grounds against damages. Any such damage that occurs shall be the responsibility of the contractor to repair.
   b. The roofing contractor shall remove all debris from the job site in a timely manner so as not to detract from the site aesthetics and function of the facility. It is the contractor’s responsibility to dispose of the debris at an approved waste facility.

4. Security:
   a. It is the contractor’s responsibility to obey the WVPA requirements for security. Only contractor personnel working on this project will be allowed on the project site.

ASBESTOS INSPECTION

1. The existing canopy roof system has been inspected for the presence of asbestos; however, the report results are pending and will be provided at the Mandatory Pre-Bid Meeting.

2. Copies of the report are available from the Authority or the Authorities Engineer at the following address:

   HNTB Corporation  
   41 Mission Way  
   Scott Depot, WV  25560-9406  
   Attn:  Bruce Bosley  
   Direct:  304-760-1825  
   Email:  bbosley@hntb.com

JOB SITE PROTECTION

1. The roofing contractor shall take all precautions to protect toll building, canopy, toll booths, parking lots, trees and shrubs from damage while performing the roof replacement project. Provide properly secured protective barriers such as canvas, boards and sheet metal for protection. Remove all protective barriers upon completion of the job or when not needed. The contractor shall be responsible for all damage that occurs as a result of his operations.

2. In addition to protecting property the roofing contractor shall take special precautions to protect traveling motorists and WVPA personnel performing day to day toll barrier operations. Contractor shall not be permitted to perform work over live traffic.

3. The roofing contractor shall take precautions to prevent the spread of dust and debris. Dust and debris shall not be allowed to infiltrate into the existing canopy enclosure. Any such material shall be removed at the contractor’s expense. The roofing contractor shall be responsible for erection of all temporary containment to prevent the spread of dust and debris.
4. In no instance is the contractor permitted to overload the safe load capacity of the canopy structural framework or any portion of the canopy. It is assumed that the safe live load capacity of the roof and structural framing is 20 psf; however, it is the contractor’s responsibility to assure that no overloading of the roof, roof framing or canopy supports occurs. Any damage that occurs due to overloading shall be the contractor’s responsibility to repair to pre-work condition. Debris shall be removed promptly. Building materials and equipment shall be stored in areas designated by WVPA. Materials and equipment shall not be stored on the canopy roof.

5. The roofing contractor shall take all precautions necessary to prevent fire and flame spread. Properly maintained and inspected fire extinguishers shall be in close proximity to the work at all times.

6. The roofing contractor shall take all precautions to prevent clogging or obstructing the canopy roof drains. Any obstructive debris shall be promptly removed and the drains tested to ensure proper drainage.

7. All moisture sensitive roofing materials shall be stored in a dry location or covered with waterproof coverings.

**WORKER PROTECTION**

The roofing contractor shall be responsible for all means and methods as they relate to worker safety and protection. Contractor shall comply with all applicable local, state and federal requirements for worker safety. The contractor is required to complete a daily safety meeting with each work crew and Turnpike/HNTB inspectors with instructions on personal protection, maintaining a safe working environment for the facility occupants and maintaining safety precautions for the traveling public. The contractor is required to keep a daily log of safety meeting and attendees.

**701.01 - Insulation**

**PART 1 – GENERAL**

**1.1 RELATED DOCUMENTS**

A. Drawings and general provisions of the Contract, including the Conditions of the Contract and Division 01 Specification Sections apply to this section.

**1.2 SUMMARY**

A. Section includes roof insulation over the properly prepared deck substrate.

**1.3 REFERENCES**

A. American Society for Testing and materials (ASTM):

2. ASTM A653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanized) by the Hot-Dip Process.
15. ASTM D36 Standard Test Method for Softening Point of Bitumen (Ring and Ball Apparatus).

B. Cast Iron Soil Pipe Institute, Washington, D.C. (CISPI)
C. Factory Mutual Research (FM):
   1. Roof Assembly Classifications.
D. National Roofing Contractors Association (NRCA):
E. Underwriters Laboratories, Inc. (UL):
   1. Fire Hazard Classifications.
F. Warnock Hersey (WH):
   1. Fire Hazard Classifications.
G. Sheet Metal and Air Conditioning Contractors National Association (SMACNA)
H. Steel Deck Institute, St. Louis, Missouri (SDI)
I. Southern Pine Inspection Bureau, Pensacola, Florida (SPIB)
J. Insulation Board, Polyisocyanurate (FS HH-I-1972)

1.4 SUBMITTALS

A. Product Data: Provide manufacturer’s specification data sheets for each product in accordance with provisions of this contract.
B. Provide approval letters from insulation manufacturer for use of their insulation within this particular roofing system type.
C. Provide a sample of each insulation type.
D. Shop Drawings
1. Submit manufacturer’s shop drawings indicating complete installation details of tapered insulation system, including identification of each insulation block, sequence of installation, layout, drain locations, roof slopes, thicknesses, crickets and saddles.

2. Shop drawing shall include: Outline of roof, location of drains, complete board layout of tapered insulation components sloping toward the drains, thickness and the average “R” value for the completed insulation system.

3. All submittals shall be sent to the following address:

   HNTB Corporation
   41 Mission Way
   Scott Depot, WV  25560-9406
   Attn:  Bruce Bosley
   Direct:  304-760-1825
   Email:  bbosley@hntb.com

E. Certification

1. Submit roof manufacturer’s certification that insulation fasteners furnished are acceptable to roof manufacturer.

2. Submit roof manufacturer’s certification that insulation furnished is acceptable to roofing manufacturer as a component of roofing system and is eligible for roof manufacturer’s system warranty.

1.5 QUALITY ASSURANCE

A. Fire Classification, ASTM E-108.

B. Manufacturer’s Certificate: Certify that roof system furnished is approved by Factory Mutual, Underwriters Laboratories, Warnock Hersey or approved third party testing facility in accordance with ASTM E108, Class A for external fire and meets local or nationally recognized building codes.

C. Manufacturer’s Certificate: Certify that the roof system is adhered properly to meet or exceed the requirements of FM [1-90].

D. Pre-installation meeting: Refer to Division 07 roofing specifications for pre-installation meeting requirements.

1.6 DELIVERY, STORAGE AND HANDLING

A. Deliver products to site with seals and labels intact, in manufacturer’s original containers, dry and undamaged.

B. Store all insulation materials in a manner to protect them from the wind, sun and moisture damage prior to and during installation. Any insulation that has been exposed to any moisture shall be removed from the project site.

C. Keep materials enclosed in a watertight, ventilated enclosure (i.e. tarpaulins).

D. Store materials off the ground. Any warped, broken or wet insulation boards shall be removed from the site.
PART 2 – PRODUCTS

2.1 PRODUCTS, GENERAL

A. Basis of Design: Materials, manufacturer’s product designations, and/or manufacturer’s names specified herein shall be regarded as the minimum standard of quality required for work of this Section. Comply with all manufacturer and contractor/fabricator quality and performance criteria specified in Part 1.

B. Substitutions: Products proposed as equal to the products specified in this Section shall be submitted in accordance with Bidding Requirements and provisions. All requests for substitution of products shall be forwarded to:

HNTB Corporation
41 Mission Way
Scott Depot, WV 25560-9406
Attn: Bruce Bosley
Direct: 304-760-1825
Email: bbosley@hntb.com

1. Proposals shall be accompanied by a copy of the manufacturer’s standard specification section. That specification section shall be signed and sealed by a professional engineer licensed in the state in which the installation is to take place. Substitution requests containing specifications without licensed engineer certification shall be rejected for non-conformance.

2. Include a list of three (3) projects of similar type and extent, located within a one hundred mile radius from the location of the project. In addition, the three projects must be at least five (5) years old and be available for inspection by the Architect, Owner or Owner’s Representative.

3. Equivalency of performance criteria, warranty terms, submittal procedures, and contractual terms will constitute the basis of acceptance.

4. The Owner’s decision regarding substitutions will be considered final. Unauthorized substitutions will be rejected.

2.2 INSULATION MATERIALS

A. Thermal Insulation Properties and Approved Insulation Boards.

1. Tapered Polyisocyanurate Roof Insulation; ASTM C1289-06, Type II, Class II.
   a. Qualities: Factory Tapered, closed cell polyisocyanurate foam core bonded to heavy duty glass fiber mat facers.
   b. Thickness: 1.5”
   c. Tapered Slope: ¼:12
   d. Compliances: UL, WH or FM listed under Roofing Systems Federal Specification HH-I-1972, Class 1
   e. Acceptable Products/Manufacturers:
      1) Weather Bond XFP Polyisocyanurate
      2) Approved Equal

2. High density fiberboard Roof insulation; ASTM C208
2.3 RELATED MATERIALS

A. Protection Board: Pre-molded semi-rigid asphalt composition board one half (1/2) inch.

B. Roof Deck Insulation Adhesive: Single component, low rise foam adhesive as recommended by insulation manufacturer and approved by FM indicated ratings.

1. Tensile Strength (ASTM D412)……250 psi
2. Density (ASTM D1875)………8.5 lbs./gal.
3. Viscosity (ASTM D2556)………8,000 to 32,000 cP.
4. Peel Strength (ASTM D903)……17 lb/in.
5. Flexibility (ASTM D816)………Pass @ -70°F

C. Fasteners: Corrosion resistant screw fastener as recommended by roof membrane manufacturer.

1. Factory Mutual Tested and Approved with three (3) inches coated disc for I-90 rating, length required to penetrate metal deck one inch.

PART 3 – EXECUTION

3.1 EXECUTION, GENERAL

A. All work and products will comply with the requirements of Section 701, “Barrier B Canopy Roof Replacement”.

3.2 INSPECTION OF SURFACES

A. Roofing contractor shall be responsible for preparing an adequate substrate to receive insulation.

1. Examine surfaces for defects, rough spots, ridges, depressions, foreign material, moisture, and unevenness.
2. Do not proceed until defects are corrected.
3. Do not apply insulation until substrate is sufficiently dry.
4. Broom clean substrate immediately prior to application.
5. Use additional insulation to fill depressions and low spots that would otherwise cause ponding water.

3.3 INSTALLATION

A. Attachment with Mechanical Fasteners.

1. Ensure that all built-up roofing substrate surfaces are clean, dry, free of dirt, debris, oils, loose or embedded gravel, unadhered coatings, or other material that may damage new insulation.
2. Fasten each 4’ x 8’ insulation board to the existing built-up roof substrate with the number of fasteners recommended by the insulation manufacturer.
3. Fasteners shall be Weather Bond HPW, ASAP or InsulTite fasteners or approved equal.
4. Fasteners shall be capable of full penetration through the existing 18 gauge steel deck.
B. Fascia Curb Height Extension

1. Inspect existing fascia curb for soundness; replace if necessary.

2. Adjust height of curb with pressure treated wood to allow for 1/4:12 slope to centerline of roof with 2” freeboard.

3.4 CLEANING

A. Remove debris and cartons from roof deck. Leave insulation clean and dry, ready to receive roofing membrane.

701.02 – EPDM Roofing

ADD ENTIRE SECTION BELOW:

PART 1 – GENERAL

A. DESCRIPTION

1. This specification covers the material properties and installation requirements for placement of the Reinforced Ethylene Propylene Diene Monomer (EPDM) roof covering over the toll canopy roof located at Barrier B. Barrier B is located at I-77 milepost 56.

2. The roofing shall be single ply with a nominal thickness of 60 mils (0.060”), and shall be fully adhered to the newly installed 1.5” polyisocyanurate insulation.

3. Color shall be black.

4. The EPDM roofing system shall be WeatherBond RBR Reinforced EPDM Roofing or an approved equal. Included in Appendix C are typical details for installation of the WeatherBond RBR EPDM roofing system. These details are included for example only. Successful bidder shall submit installation drawings showing all details of installation for the insulation board, EPDM roofing, seam lapping, corner details, flashing, drain flashing and sealing and roofing stops. Submissions shall be to:

HNTB Corporation
41 Mission Way
Scott Depot, WV  25560-9406
Direct: 304-760-1825
Attn: Bruce Bosley
Email: bbosley@hntb.com
B. SPECIFICATIONS AND MINIMUM PROPERTIES

<table>
<thead>
<tr>
<th>Property Description</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td></td>
<td>60 mils</td>
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<tr>
<td>Tolerance on nominal Thickness</td>
<td>ASTM D751</td>
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<td>Weight, psf</td>
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<tr>
<td>Breaking Strength, lb$_t$</td>
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<td>Elongation, %</td>
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<td>Tear Strength, lb$_t$</td>
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<td>Factory Seam Strength</td>
<td>Mod ASTM D816 Membrane Rupture</td>
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<tr>
<td>Resistance to Heat Aging</td>
<td>ASTM D573</td>
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<td>Properties after 4 weeks @ 240 ° F</td>
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<td>Elongation, Ultimate, %</td>
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<td>Brittleness Temperature, °F</td>
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<td>Resistance to Water Absorption, Change in Mass, %</td>
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<tr>
<td>Resistance to Ultraviolet Weathering</td>
<td>ASTM D4637</td>
<td>No Cracks</td>
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</table>

C. The WeatherBond RBR EPDM Roofing shall be full adhered to the new 1.5” polyisocyanurate insulation that has been mechanically fastened to the existing roof deck. The brand of EPDM roofing and polyisocyanurate insulation shall be from the same manufacturer of brands that are compatible.

D. EXTENT OF WORK

1. The roofing contractor is to provide all labor, material, tools, equipment and supervision necessary to complete the installation of the 60 mil thick, reinforced EPDM roofing. Complete installation includes removal of existing EPDM roofing and insulation, inspection of existing built-up roof substrate, repair of deteriorated or damaged existing substrate, placement of polyisocyanurate insulation, placement of the EPDM roofing, flashing around drains and corners, installation of four (4) fall protection anchors and restoration of site to original condition.

2. The roofing contractor shall be fully knowledgeable of all requirements of the contract documents and shall make themselves aware of all job site conditions that will affect their work.

3. The roofing contractor is required to confirm all given information and advise the WVPA, prior to bid, of any conflicts that will affect their cost proposal. The contractor is required to verify canopy roof area to accurately determine roofing material needed, including adhesive, mechanical attachment hardware for insulation, adhesive, seam tape, flashing and any other hardware required to completely finish the project.
E. SUBMITTALS

1. Prior to starting work, the roofing contractor must submit the following:
   a. Shop drawings showing layout, details of construction and identification of materials
   b. Sample of the manufacturer’s Membrane System Warranty.
   c. Submission of a letter of certification from the manufacturer which certifies that the roofing contractor is authorized to install the manufacturer’s roofing system and a list of foremen who have received training from the manufacturer along with dates of training.
   d. Certification of the manufacturer’s warranty reserve.

2. Upon completion of the roof replacement project, contractor shall submit copies of the manufacturer’s final inspection prior to issuance of the manufacturer’s warranty.

F. PRODUCT DELIVERY, STORAGE AND HANDLING

1. Deliver materials to the job site in the manufacturer’s original, unopened containers or wrappings with the manufacturer’s name, item number and installation instructions intact and legible. Deliver materials in sufficient quantity to permit work to continue without interruption.

2. Comply with the manufacturer’s written instructions for proper material storage.
   a. Store membrane in the original undisturbed wrapping in a cool, dry shaded area.
   b. Store curable materials, such as adhesives and sealants between 60 °F to 80 °F in dry areas that are protected from water and direct sunlight.
   c. Store materials containing solvents in dry, well ventilated areas with proper fire and safety precautions. Do not allow work materials such as rags, paper, etc., to be stored near the solvent containing material.
   d. Work materials such as rags, paper, brushes, etc. must be disposed of at the end of each shift or properly cleaned to prevent spontaneous combustion.

3. Any materials which are found to be damaged shall be removed and replaced at the contractor’s expense.

G. WORKMANSHIP

1. Contractor employees installing new roof, flashing and related work shall be factory trained and approved by the manufacturer furnishing the material.

2. All work shall be in strict accordance with the manufacturer’s published specifications and installation instructions along with complete satisfaction of the WVPA.

3. The roofing contractor shall keep a qualified job Forman at the site at all times that work is in progress.

H. QUALITY ASSURANCE

1. The roofing system supplied shall achieve a UL Class A.

2. The roofing system supplied shall have been successfully tested by a qualified testing agency to resist the design uplift pressures calculated according to the following specifications:
WEST VIRGINIA PARKWAYS AUTHORITY
BBCR-1-20

b. Design wind uplift shall be in accordance with the American Society of Civil Engineers (ASCE 7-10) as referenced in Chapter 15 of the International Building Code (IBC).
c. Factor of Safety to determine the Factored Tested Load Capacity shall be 1.15. Results of Factored Tested Load Capacity shall be supplied to the WVPA. Results shall be stamped by a WV Professional Engineer.

3. All materials used in the roofing system shall be from the same manufacturer or written documentation provided certifying that sub-components from different manufacturers are compatible with one another.

4. The roofing system shall be installed by a roofing contractor who is trained and certified by the manufacturer of the system that is in compliance with the shop drawings. The contractor shall provide proof of five (5) years of verified experience in installing single ply EPDM roofing systems and at least one (1) year of experience installing single ply EPDM roofing systems on similar type and size of this project.

5. Any deviation from the manufacturer’s installation procedures must be supported by a written certification on the manufacturer’s letterhead and presented to the WVPA for approval.

6. Upon completion of the roof installation, the contractor shall arrange for an inspection to be made by a non-sales technical representative of the roofing system manufacturer in order to determine if corrective action is required prior to issuance of the warranty. The contractor is required to notify the WVPA seventy-two (72) hours prior to the final inspection. The engineer representing the WVPA will be present at the final inspection.

7. Any such defective construction or construction material found to be non-compliant with the manufacturer’s specifications shall be corrected by the contractor at his sole expense.

I. JOB SITE CONDITIONS, CAUTIONS AND WARNINGS

1. Material Safety Data Sheets (MSDS) must be posted on location at all times during the transportation, storage and application of materials.

2. When positioning membrane sheets, exercise care to locate all field splices away from low spots and out of drain sumps.

3. When loading materials onto the roof, the contractor shall take all measures to prevent overloading.

4. Proceed with roofing work only when weather conditions are in compliance with the manufacturer’s limitations, and when conditions will permit the work to proceed in accordance with the manufacturer’s requirements and recommendations.

5. The surface on which the roofing membrane is to be applied shall be clean, dry, and free of projections or contaminants that would prevent proper application or be compatible with the new installations, such as fins, sharp edges, foreign materials, oil and grease.

6. Each phase of new roofing, consistent with toll lane closure work area, shall be complete and weather tight at the end of the work day.

7. Contaminants shall not come in direct contact with the roofing membrane.
J. WARRANTY

1. Provide manufacturer’s 20-year Material Warranty covering material failure due to weathering with no dollar limitation. In addition, the warranty coverage shall include provisions for the design and installation of the roofing system against failure due to wind. The system shall be designed and installed with the capability of resisting ground wind speeds of 90 mph measured at 33 feet without incurring damage. Certification is required with bid submittal indicating the manufacturer has reviewed and agreed to such wind coverage.

2. Warranty shall also cover leaks caused by accidental coverage.

3. Pro-rated System Warranties shall not be accepted.

4. Evidence of the manufacturer’s warranty reserve shall be included as part of the project submittals.

PART 2 – PRODUCTS

A. GENERAL

1. All components of the specified system shall be products of WeatherBond or approved equal.

2. All components of the roof system shall be covered by roof system manufacturer’s warranty.

B. MEMBRANE

1. Membrane supplied shall be WeatherBond RBR Reinforced EPDM membrane or approved equal.

2. Nominal thickness shall be 60 mils (0.060”).

3. Membrane shall be full adhered.

4. Color shall be black.

C. INSULATION UNDERLAYMENT

1. Insulation shall be WeatherBond XFP Polyisocyanurate foam core insulation board or approved equal. Alternate insulation board shall be fully compatible with the membrane supplied.

2. Standard 4’ x 8’ sheets with a nominal thickness of 1.5” shall be used unless otherwise approved the WVPA.

3. The sheets shall contain a foam core and have both sides coated with glass fiber mat facer meeting ASTM C1289-06, Type II, Class 2 (20 psi).

4. The insulation board shall be tapered ¼:12.

5. Insulation board shall be mechanically fastened in accordance with the manufacturer’s specifications.

6. In addition, the insulation board provided shall meet or exceed all applicable specifications contained in Section 701.01 – Roof Deck and Insulation.
D. ADHESIVES AND CLEANERS

1. Seam Tape
   a. Seam tape, if required, shall be WeatherBond P&S Seam Tape or approved equal. Tape shall be 6” wide.

2. Primer
   a. Shall be in accordance with membrane manufacturer and shall be low VOC.

3. Bonding Adhesive
   a. Shall be membrane manufacturer’s low VOC bonding adhesive used for fully bonding EPDM to the newly installed insulation board.

E. EDGES AND TERMINATIONS

1. Drip Edge
   a. Drip edge, if required, shall be compatible with fully adhered EPDM roof systems.
   b. The drip edge shall be a 22 gauge continuous and 12’ long. The drip edge shall be pre-punched with 90-degree angle cleats.
   c. The drip edge shall be Kynar 500 coated in brown color.

2. Termination Bar
   a. Termination bars shall be 1” wide, 98 mil thick extruded aluminum bars pre-punched on 6” centers. The bar shall incorporate a sealant edge to support lap sealant and provide increased stability for membrane terminations.

PART 3 – MEMBRANE PLACEMENT AND SECUREMENT

A. GENERAL

1. Ensure that water does not flow beneath any completed sections of the membrane system by completing all flashings, terminations and daily seals by the end of each workday or prior to wet weather.

2. Sweep all loose debris from the substrate and ensure that no contamination of the substrate. Clean all surfaces with a manufacturer approved cleaner if required.

3. Use caution to protect installed membrane from contamination and/or damage.

4. Adjoining sheets of EPDM membrane shall be spliced together with manufacturer’s Seam Tape and Primer.

5. In addition to the primary membrane securement, additional membrane securement is required at the perimeter roof section, corners, angle changes and roof line projections, such as drains.

B. Membrane Placement

1. Position EPDM membrane over the substrate without stretching.

2. Allow the membrane to relax approximately 30 minutes prior to splicing or bonding.
3. Adjoining membrane sheets shall be placed in the same manner as previous sheets, overlapping edges appropriately to provide for the minimum splice width. If recommended by the manufacturer, all splices shall be shingled to avoid bucking of water.

C. Membrane Securement

1. Adhere the EPDM membrane to the 1.5” thick Polyisocyanurate substrate. The substrate shall be of the membrane manufacturer’s brand or a manufacturer approved equal.

2. The bonding adhesive shall be as specified herein, or of a manufacturer approved equal. Roofing contractor shall comply with labels, MSDS sheets and Manufacturer’s Technical Data Bulletins for installation procedures and use.

3. Adhesive shall be applied to both the membrane and substrate.

4. When folding membrane sheets back, it shall be accomplished in a manner not crease, wrinkle or buckle the sheet.

5. Thoroughly stir the adhesive, scraping the sides and bottom of the can. Stirring time shall be in accordance with the manufacturer’s instructions.

6. Apply bonding adhesive evenly, without globs or puddles. A medium nap roller shall be used using the longest roller that will fit in a 5-gallon container.

7. Coating rate shall be per manufacturer’s instructions.

8. If a mechanical dispensing roller or mechanical sprayer is used to apply the adhesive, the contractor will ensure that adhesive is uniformly distributed by rolling with a medium nap roller.

9. Allow adhesive to dry until it is tacky but will not string.

10. Roll the coated membrane into the coated substrate to avoid wrinkles.

11. Brush down the bonded half of the membrane sheet immediately after rolling the membrane sheet into the adhesive, with a soft bristle brush to achieve maximum contact.

12. Fold back the unbonded half of the membrane sheet and repeat the bonding procedure.

D. Membrane Splicing

1. Side lap splices shall be a minimum of 5 ½” wide using 6” wide peel and stick seam tape.

2. End lap splices shall be a minimum of 5 1/2” wide using 6” wide peel and stick seam tape.
E. Flashing

1. General
   a. All vertical field splices at the base of walls or curbs shall be overlaid with peel and stick “T” Joint Covers and a 6” x 6” section, with rounded corners, of uncured EPDM flashing centered over the field splice.

2. Curbs/Parapets
   a. Use continuous deck membrane with peel and stick Reinforced Perimeter Strip.
   b. Adhere flashing to the parapet/curb and terminate in accordance with the membrane manufacturer’s installation instructions.
   c. Use a “T” Joint Cover or 6”x6” Uncured Flashing with rounded corners to overlay vertical splices.
   d. Flashing around drains shall be in accordance with the membrane manufacturer’s installation instructions.
   e. Termination bars shall be installed directly to the parapet/curb surface.
   f. Existing flashing, edging, drain flashing, copings, etc. shall not be re-used unless approved by the membrane manufacturer.
   g. All metal flashing shall be 24 Gauge coated with Kynar 500 in brown color. Flashing shall be gravelstop.

701.03 – Roof Mounted Fall Protection Anchors

ADD ENTIRE SECTION BELOW:

A. DESCRIPTION

1. This specification covers the material properties and installation requirements for installation of four (4) roof mounted Fall Protection Anchors on the toll canopy roof located at Barrier B, which is located at I-77 mile post 56.

2. The Fall Protection Anchors shall be mounted on the newly installed roofing system. The new roof consists of one (1) new layer of 1.5” Polyisocyanurate insulation board and one (1) new layer of 60 mil (0.06”) thick fully adhered EPDM roofing. The new EPDM roofing is black in color.

3. The new roofing system shall be installed over the existing built up roof.

4. The Fall Protection Anchors shall be installed by the roofing contractor at the time of roof replacement.

5. The existing substrate and decking consists of built-up roof, ½” sheathing and 1 ½” x 18 Gauge steel ribbed deck. Supporting structural framing consists of a braced steel space frame. Roofing contractor is responsible for verification of substrate and roof decking and condition thereof to insure that full capacity of fall protection anchors is obtained.

6. The Fall Protection System supplied shall be the Miller Fusion Roof Anchor Post or approved equal, capable of mounting through the membrane roof system. It shall be securely anchored to structural framework near the centerline of the roof; however, final mounting location will be at the approval of the engineer.
B. SPECIFICATIONS AND MINIMUM PROPERTIES

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<th>Roof Anchor Post Material</th>
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<tr>
<td>Energy Absorber</td>
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<tr>
<td>Internal Connecting Components</td>
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<tr>
<td>Top and Bottom Post Plates</td>
<td>Anodized Cast Aluminum</td>
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<tr>
<td>Standing Seam/Wood/Metal Base Plate</td>
<td>Two-Layer Zinc/Powder Coated Steel</td>
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<td>Post Tube</td>
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<td>Post/Base Plate Seal</td>
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<th>Connection Components</th>
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<tr>
<td>Extender Bar for Standing Seams</td>
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<tr>
<td>Hardware for Metal Sheathing</td>
<td>Hot Dip Galvanized/Neoprene</td>
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<tr>
<td>Hardware for Membrane</td>
<td>Zinc-Plated Steel/PVC/Neoprene</td>
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<tr>
<td>Activation Force</td>
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<tr>
<td>Minimum Capacity</td>
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</table>

1. The Fall Protection Anchors shall be designed that in the event of a fall, the anchor post orients in the direction of the force, the built-in energy-absorbing component activates and the base remains securely attached to the roof surface.

2. The Fall Protection Anchors supplies shall meet or exceed all applicable industry standards including but not limited to: OSHA, ANSI A10.32 and Z359.1-2007.

C. EXTENT OF WORK

1. The roofing contractor shall fully install the Fall Protection anchors at the time of the roof system installation.

2. Installation location of the anchors shall be such that full protection coverage is obtained on all sides of the roof.

3. The roofing shall ensure that no damage occurs to the membrane roofing and the anchor base is completely sealed.

4. Prior to installation, the roofing contractor shall notify the WVPA of the installation intent and shall provide the WVPA with a drawing of the proposed mounting locations. No installation work shall commence until approval of the locations is given.

D. SUBMITTALS

1. Prior to starting work, the roofing contractor must submit the following:
   a. Shop drawings, cut sheets, etc., with manufacturer’s name and model number along with manufacturer’s recommended mounting instructions and maintenance requirements.
   b. Manufacturer’s proof of testing clearly stating activation force and maximum capacity.

E. WARRANTY

1. Roofing contractor shall supply the manufacturer’s standard warranty prior to installation.

F. PAYMENT

1. Contractor shall include cost of all labor, materials and equipment to fully install roof mounted fall protection anchors in contractor’s bid for item 701001-001, Barrier B Canopy Roof Replacement.
APPENDIX A
EXISTING ROOF AND CANOPY DETAILS
APPENDIX B
PHOTOGRAPHS
Barrier B, Looking Northwest

Barrier B, Looking West
Existing Canopy Roof Condition, Looking East

Typical Canopy Drain Condition
Typical Ponding at West End

Typical Fascia Curb Condition
Typical Canopy Drain Detail

Typical Canopy Structural Framework
APPENDIX C
PROPOSED ROOF SYSTEM
NOTES:

1. HPWX FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.

2. ROOF DRAIN SIZE AND NUMBER OF DRAINS SHALL BE IN ACCORDANCE WITH THE LOCAL CODES.

3. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" (13mm) FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.

4. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.

5. REMOVE EXISTING LEAD, FLASHING MATERIAL & ENSURE THE DRAIN RING IS COMPLETELY CLEAN DOWN TO BARE METAL.

6. PRIOR TO INSTALLATION OF SPLICING TAPE, APPLY EPDM PRIMER TO SPLICE AREAS.
CAUTION

DETAIL NOT FOR USE WHEN USING 90-MIL MEMBRANE. ACCEPTABLE EDGING SHALL CONFORM TO RBR COMMON DETAIL WBRC-1.3.

NOTES:

1. DECK FLANGE MUST BE TOTALLY COVERED BY PEEL & STICK CURED COVER STRIP WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEADS.
2. WOOD NAILEER MUST EXTEND PAST TOTAL WIDTH OF METAL EDGE.
3. TO REMOVE FINISHING OILS, SCRUB METAL FLANGE WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY PRIOR TO APPLYING PRIMER.
4. LAP SEALANT MUST BE APPLIED AT FLASHING OVERLAPS AND INTERSECTIONS WITH JOINTS IN METAL EDGING.
5. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE (UNDER THE 6"X6" T-JOINT COVER) COVERING THE EXPOSED SPLICE TAPE 2" (51mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.
6. REFER TO APPLICABLE WEATHERBOND METAL EDGING INSTRUCTION MANUAL FOR STEP-BY-STEP INSTALLATION PROCEDURES.

DIMENSIONS

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<tr>
<td>A</td>
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<tr>
<td>/</td>
<td>1/2&quot; 13 TO</td>
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<tr>
<td>/</td>
<td>1&quot; 25</td>
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UNIVERSAL SEALANT (BELOW JOINT COVER FLANGE)
REFER TO DETAIL WBRC-2.1B FOR WARRANTY PROJECTS USING 90-MIL MEMBRANE.

MIN. 3" (76mm) WIDE P&S SEAM TAPE IN CONJUNCTION WITH EPDM PRIMER

PRE-APPLIED TAPE IN CONJUNCTION WITH EPDM PRIMER

NOTES:

1. FIELD APPLIED P&S SEAM TAPE IS TO BE OVERLAPPED A MINIMUM OF 1" (25mm) AT THE ENDS OF EACH CUT PIECE. APPLY LAP SEALANT AT TAPE OVERLAPS 2" (51mm) IN ALL DIRECTIONS AS SHOWN.

2. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE UNDER THE 6"X6" (152mm X 152mm) T-JOINT COVER, COVERING THE EXPOSED SPLICE TAPE 2" (51mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.

3. 6" (152mm) WIDE PEEL & STICK UNCURED EPDM FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MAY ALSO BE CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION.

4. LAP SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED EPDM MEMBRANE.
NOTES:

1. PROJECTS WITH 90-MIL EPDM MEMBRANE. TAPE SPLICES MAY BE A MINIMUM 6" (152mm) WIDE PRE-APPLIED TAPE. IN ADDITION, AND IN LIEU OF THE CONTINUOUS CURED COVERSTRIP, ALL SPLICE INTERSECTIONS MUST BE OVERLAID WITH TWO LAYERS OF PEEL & STICK UNCURED EPDM FLASHING. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE COVERING 2" (51mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION AND OVERLAY WITH A 6"X6" (152mm X 152mm) T-JOINT COVER. A SECOND LAYER OF 12"X12" (305mm X 305mm) PEEL & STICK UNCURED EPDM FLASHING IS REQUIRED. BOTH LAYERS SHALL BE CENTERED OVER THE SPLICE INTERSECTION AND SEALED WITH CONTINUOUS LAP SEALANT.
POSITION MEMBRANE TO ALLOW AN APPROXIMATE 3" (76mm) OVERLAP. MARK THE BOTTOM SHEET WITH AN INDELIBLE MARKER 1/2" (13mm) FROM THE EDGE OF THE TOP SHEET AS SHOWN. THE PRE-MARKED LINE ON THE MEMBRANE EDGE CAN ALSO BE USED AS A GUIDE.

FOLD SHEETS BACK AS SHOWN. APPLY EPDM PRIMER TO THE SPLICE AREA ON BOTH SURFACES AND ALLOW TO PROPERLY DRY. APPLY P&S SEAM TAPE WITH RELEASE FILM ALIGNED WITH MARKER LINE.

SPICE SHEET B TO SHEET A AND APPLY SECOND PIECE OF P&S SEAM TAPE BETWEEN SHEET B AND C. TRIM RELEASE FILM AS SHOWN.

SPICE SHEET C TO SHEET A AND B, PRESS TOP SHEET ONTO BOTTOM SHEET USING HAND PRESSURE TOWARDS THE OUTER EDGE OF THE SPLICE AND ROLL THE SPLICE AREA WITH A 2" (51mm) WIDE STEEL ROLLER.

NOTES:
1. THE USE OF LAP SEALANT ALONG ENTIRE SPLICE EDGE IS OPTIONAL, EXCEPT AT CUT EDGES OF REINFORCED MEMBRANE AND TAPE OVERLAPS. REFER TO DETAIL WBRC-2.1A.

2. APPLY LAP SEALANT ALONG THE EDGE OF THE MEMBRANE SPLICE UNDER THE 6"X6" (152mm X 152mm) T-JOINT COVER, COVERING THE EXPOSED SPLICE TAPE 2" (51mm) IN EACH DIRECTION FROM THE SPLICE INTERSECTION.

3. REFER TO DETAIL WBRC-2.1B FOR PROJECTS USING 90-MIL MEMBRANE.
NOTES:

1. APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE (UNDER THE PEEL & STICK UNCURED EPDM FLASHING) COVERING THE EXPOSED SPLICE TAPE APPROXIMATELY 2" (51mm) BEYOND THE SPLICE EDGE.

2. PEEL & STICK T-JOINT COVER OR 6" (152mm) WIDE PEEL & STICK FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER FIELD SPLICES AT THE ANGLE CHANGE. PROJECTS USING 90-MIL MEMBRANE REQUIRE FIELD SPLICES TO BE OVERLAIW WITH TWO LAYERS OF PEEL & STICK UNCURED EPDM FLASHING. THE BOTTOM LAYER SHALL BE 6" (152mm) WIDE COVERED WITH A 12" WIDE TOP LAYER (305mm). BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.
NOTES:

1. FOR EXPANSION JOINT INTERSECTIONS AND INTERSECTIONS BETWEEN EXPANSION JOINTS TO WALL OR EDGING, USE TWO LAYERS OF PEEL & STICK UNCURED EPDM FLASHING WITH SECOND LAYER 3" (76mm) LARGER THAN PREVIOUS LAYER IN ALL DIRECTIONS.

2. WIDTH OF JOINT SHALL BE A MINIMUM OF 3/4" (19mm) AND SHALL NOT EXCEED 3" (76mm) WHEN WEATHERBOND EXPANSION JOINT SUPPORT IS USED.

3. ON MECHANICALLY ATTACHED SYSTEMS, HPWX FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED OVER STEEL DECKS.

4. EPDM PRIMER MUST BE APPLIED TO BACK SIDE OF DECK MEMBRANE PRIOR TO COMPLETING SPLICE TO PEEL & STICK RPS.

DIMENSIONS

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<th>mm</th>
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<tbody>
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<td>A</td>
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- EPDM MEMBRANE
- APPROVED SUBSTRATE
- SEE NOTE(S)

RBR ROOFING SYSTEM

WBRC-3.1
NOTES:

1. ROOF DRAIN SIZE AND NUMBER OF DRAINS SHALL BE IN ACCORDANCE WITH THE LOCAL CODES.

2. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.

3. THE HOLE IN THE MEMBRANE SHALL EXCEED THE DIAMETER OF THE DRAIN PIPE, BUT SHALL BE NO LESS THAN 1/2" (13mm) FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.

4. REMOVE EXISTING LEAD, FLASHING MATERIAL & ENSURE THE DRAIN RING IS COMPLETELY CLEAN DOWN TO BARE METAL.

5. FIELD SPLICES MUST BE LOCATED AT LEAST 6" (152mm) OUTSIDE THE DRAIN SUMP.

6. INSULATION TAPER SHALL NOT BE GREATER THAN 6" (152mm) IN 12" (305mm) HORIZONTAL.
NOTES:

1. WATER CUT-OFF MASTIC MUST BE UNDER CONSTANT COMPRESSION.

2. APPLY EPDM PRIMER TO METAL FLANGE AND MEMBRANE SURFACE PRIOR TO INSTALLING PEEL & STICK FLASHING.

3. PEEL & STICK CURED COVER STRIP FLASHING MUST OVERLAP DECK MEMBRANE MINIMUM 3" (76mm).

4. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF DECK FLANGE.

5. DRAIN INSERT FLANGE MUST BE TOTALLY COVERED BY PEEL & STICK CURED COVER STRIP WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEADS.

6. CONSULT SPECIFIER OR APPLICABLE CODES FOR ADEQUATE DRAINAGE STRAINER TO AVOID PONDING WATER. DO NOT RESTRICT WATER FLOW.
NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD—FABRICATED FLASHING.

2. TEMPERATURE OF PIPE PENETRATION MUST NOT EXCEED 180°F (82°C).

3. PIPE FLASHING MAY BE USED WITH SQUARE OR RECTANGULAR STRUCTURAL TUBING WITH ROUNDED CORNERS.

4. FOR STRUCTURAL STEEL TUBING GREATER THAN 12" (305mm) ACROSS, USE DETAIL(S) WBRC-5.

5. EPDM PRIMER MUST BE APPLIED TO THE MATING SURFACES PRIOR TO APPLYING PEEL & STICK UNCURED EPDM FLASHING.

6. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PEEL & STICK UNCURED EPDM FLASHING.

7. ON MECHANICALLY ATTACHED ROOFING SYSTEMS, ADDITIONAL MEMBRANE SECUREMENT IS REQUIRED. REFER TO DETAIL WBRMA-8.2.

8. MEMBRANE SECUREMENT IS REQUIRED AROUND ALL ROUND PIPE PENETRATIONS GREATER THAN 18" (457mm) IN DIAMETER.

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NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING PEEL & STICK PIPE SEAL.
2. PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE, REGARDLESS OF PIPE DIAMETER.
3. DECK FLANGES OF THE MOLDED PIPE SEAL SHALL NOT BE OVERLAPPED, CUT OR APPLIED OVER ANY ANGLE CHANGE.
4. AT THE CUT IN THE FIELD MEMBRANE, 60-MIL THICK CURED EPDM FLASHING OVERLAY MUST EXTEND 3" (76mm) BEYOND THE MOLDED PIPE FLASHING FLANGE ON 3 SIDES AND WITHIN 1" (25mm) OF THE EDGE OF THE FIELD MEMBRANE, AS SHOWN.
5. CENTER 9" (229mm) WIDE PEEL & STICK UNCURED EPDM FLASHING OVER THE MEMBRANE SPLICE EDGE AND EXTEND 3" (76mm) BEYOND THE MEMBRANE OVERLAY, AS SHOWN.
6. SEAL ALL EDGES WITH CONTINUOUS LAP SEALANT.
FOR PROJECTS USING 90-MIL MEMBRANE, REFER TO DETAIL WBRC-15.4B FOR REQUIRED FLASHING ENHANCEMENTS.

WEATHERBOND FASTENER & SEAM FASTENING PLATE, MAX. 12" (305mm) O.C.

9"X9" (229 x 229mm) MIN. PEEL & STICK UNCURED EPDM FLASHING IN CONJUNCTION WITH EPDM PRIMER

NOTES:
1. APPLY EPDM PRIMER TO THE MEMBRANE SURFACES PRIOR TO INSTALLING PEEL & STICK FLASHING.
2. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PEEL & STICK UNCURED EPDM FLASHING.

DIMENSIONS mm

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MIN. 3" (76mm) WIDE SPlice

APPROVED SUBSTRATE

EPDM MEMBRANE

RBR ROOFING SYSTEM

WBRC-15.4A
1. **EPDM PRIMER**

CLEAN DRY SPLICE AREA OF THE EPDM MEMBRANE BY SCOURING WITH EPDM PRIMER.

3. **3" (76mm) MIN.**

PLACE QUARTER SECTION ONTO DECK WITH LONG FOLDED SIDE FACING THE WALL. REMOVE REMAINING RELEASE PAPER. PRESS FIRMLY AND PROCEED WITH SECOND QUARTER GOING UP THE VERTICAL WALL BY PRESSING FIRMLY INTO CORNER.

5. **ANY WBRC-9 TERMINATION**

ROLL WITH TWO INCH WIDE ROLLER.

**NOTES:**

1. FOR PROJECTS USING 90-MIL MEMBRANE, ALL INSIDE CORNERS MUST BE OVERLAID WITH TWO LAYERS OF PEEL & STICK FLASHING. THE BOTTOM LAYER SHALL BE A 7"X9" (178mm X 229mm) PEEL & STICK PRE-CUT INSIDE/OUTSIDE CORNER OR A 6"X6" (152mm X 152mm) PEEL & STICK UNCURED EPDM FLASHING PIECE COVERED WITH A 12"X12" TOP LAYER (305mm X 305mm) OF PEEL & STICK UNCURED EPDM FLASHING. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.

2. EPDM PRIMER MUST BE APPLIED TO ALL SPLICE AREAS AND FOR EACH LAYER OF PEEL & STICK FLASHING.
1. As an option, 6" (152mm) wide peel & stick RPS may be fastened into the vertical substrate, see detail WBRC-12.1.

Form pig ear with continuous membrane at corner as shown.

Cut & remove excessive membrane.

6" (152mm) wide peel & stick uncured EPDM flashing in conjunction with EPDM primer.
6" (152mm) WIDE PEEL & STICK RPS

WEATHERBOND SEAM FASTENING PLATE & FASTENER.

EPDM PRIMER

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NOTE:
1. PEEL & STICK UNCURED EPDM FLASHING INSIDE / OUTSIDE CORNERS MUST BE USED.
2. AS AN OPTION, 6" (152mm) WIDE PEEL & STICK RPS MAY BE FASTENED INTO THE VERTICAL SUBSTRATE, SEE DETAIL WBRC-12.1.

CUT 45° AND APPLY EPDM PRIMER/P&S SEAM TAPE

EPDM PRIMER

9"X9" (229mm X 229mm) PEEL & STICK UNCURED EPDM FLASHING OR 7"X9" (178mm X 229mm) PRE-CUT PEEL & STICK FLASHING, FOR PROJECTS USING 90-MIL MEMBRANE, REFER TO DETAIL WBRC-15.3.

3" (76mm) MIN. SPLICE

PIG EAR ON OPPOSITE WALL
NOTES:

1. FOR PROJECTS USING 90-MIL MEMBRANE, ALL INSIDE CORNERS MUST BE OVERLAIRED WITH TWO LAYERS OF PEEL & STICK FLASHING. THE BOTTOM LAYER SHALL BE A 7"X9" (178mm X 229mm) PEEL & STICK PRE-CUT INSIDE/OUTSIDE CORNER OR A 6"X6" (152mm X 152mm) PEEL & STICK UNCURED EPDM FLASHING PIECE COVERED WITH A 12"X12" TOP LAYER (305mm X 305mm) OF PEEL & STICK UNCURED EPDM FLASHING. BOTH LAYERS SHALL BE CENTERED AND SEALED WITH CONTINUOUS LAP SEALANT.

2. EPDM PRIMER MUST BE APPLIED TO ALL SPLICE AREAS AND FOR EACH LAYER OF PEEL & STICK FLASHING.
NOTES:

1. **WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.**

2. **INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.**

3. **METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS. SOLDER ALL SCUPPER SEAMS WATER-TIGHT.**

4. **WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.**

5. **SCUPPER FLANGES MUST BE TOTALLY COVERED BY PEEL & STICK COVER STRIP WITH MINIMUM 2" (51mm) COVERAGE PAST NAIL HEADS.**

6. **TO REMOVE FINISHING OILS, SCRUB METAL FLANGE WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY PRIOR TO APPLYING EPDM PRIMER.**

7. **APPLY EPDM PRIMER TO METAL FLANGE AND MEMBRANE SURFACE PRIOR TO INSTALLING PEEL & STICK FLASHING.**
APPENDIX D
MAINTENANCE OF TRAFFIC
The contractor shall comply with the following maintenance of traffic requirements for this project. Refer to the enclosed maintenance of traffic layout for specific setup requirements.

1. Maintenance of traffic shall be in accordance with Section 636 of the West Virginia Department of Transportation, Division of Highways Standard Specifications for Roads and Bridges, adopted 2017 and the latest supplemental specifications and the latest edition of the “Manual on Temporary Traffic Control for Streets and Highways”.

2. Reflective sheeting for the temporary traffic control devices shall be of new condition at the beginning of the project. This is to ensure that night visibility and legibility are maintained.

3. During periods of inclement weather, no work operations shall be performed on this project.

4. Whenever the contractor’s operations endanger or interfere with vehicular traffic, as determined by the engineer, the contractor shall furnish all additional traffic control devices necessary to direct traffic and protect his workmen at no extra cost to the Authority.

5. From beginning to end of traffic disruption, the contractor shall furnish, operate, maintain and move one changeable message sign for each direction of traffic. The contractor shall coordinate the placement and wording of changeable message signs with the engineer.

6. Contractor shall perform no work over live traffic. All work shall be scheduled and executed during periods of off-peak traffic volume to allow closure of barrier lane(s).

7. All scheduled work shall be coordinated with and approved by WVPA designated Personnel. In addition, the contractor shall submit a project work schedule for the Engineer’s approval prior to start of any work.

8. Contractor is advised that only one lane can be closed at a time for lanes 2 through 9 during daylight hours. These hours are 7:00 AM until 8:00 PM.

9. The roofing contractor is required to perform work over the wide load lanes (lanes 1 and 10) during the night hours of 8:00 pm until 7:00 am. In the event that the contractor is required to perform any work over these lanes in daylight hours, the contractor is required to have two (2) flaggers on standby to direct wide loads to the wide load lanes. The contractor is to stop all work in the affected lane and open said lane to the wide load; must be coordinated and approved by WVPA designated Personnel.

A. Only flaggers used to direct or control traffic through the wide load lanes are expected for this project. Flaggers used for the convenience of the contractor during his construction operations shall be at his own expense.

- All flaggers must have a current and valid certification by American Traffic Safety Services Association (ATSSA) at the time of work.
- Two (2) flaggers shall be provided at each end of the areas where traffic is being delayed or stopped. One flagger is to be positioned in accordance with the manual on Temporary Traffic Control for Streets and Highways, while the other is to continually move with the stopping traffic.
- In accordance with Title 23 CFR all workers at construction sites shall wear high-visibility safety apparel that meets the performance Class 3 requirements of the ANSI/ISEA 107-2004 or “Equivalent Revisions” of publication entitled “American National Standard for High-Visibility Safety Apparel and Headwear.” This apparel may be in the form of a safety vest, jacket, coveralls, or T-shirt and the approved colors are chartreuse (lime-green) outer material with silver or white retro-reflective striping.
- Locations where flaggers are located shall be illuminated in such a manner that the flaggers are visible at all times to motorists.
10. In addition to the advanced warning signs indicated by the various traffic control cases, the following signs are required:

   A. Add two (2) “Road Work Ahead” signs with Type B Lights. Two signs are required with one sign installed on each side of the roadway. The two (2) “Road Work Ahead” signs shall be covered or removed when work is not in progress.

11. For temporary closures only, grabber cones will be used per WVDOH spec 636.13

12. All cones must be 36” high or greater.

13. During a closure of any toll lane, traffic control devices shall be established so that turning and taper geometry accommodates large trucks.

14. Payment: All labor required for maintenance of traffic setups, traffic control devices and maintenance of traffic control devices shall be considered incidental to Item 701001-001, Barrier B Canopy Roof Replacement and cost shall be included in contractors bid for that item.

15. All temporary traffic control devices (i.e. Inactive temporary signs/stands) shall be broke down if left within the 30-ft clear zone and no guardrail is preset. Devices located in areas containing guardrail may be turned and stored behind the rail.
VEHICLE CENTERED, WHEELS TURNED, STROBE LIGHTS ON, ARROW BOARD ON, LANE CLOSED SIGN ON, REAR OF IMPACT ATTENUATOR (SUGGESTED) / TAILGATE, CONES 36" HIGH. ALL NIGHT TIME TRAFFIC CONTROL MUST BE RETROREFLECTIVE