VILLAGE OF BEECH BOTTOM
BROOKE COUNTY, WEST VIRGINIA

BEECH BOTTOM STORM SEWER LINE UPGRADE PROJECT

ADDENDUM #2

JUNE 23, 2022

THRASHER PROJECT #020-01569

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Wednesday, June 15, 2022, on the above-referenced project, a copy of the sign in sheet is included in this Addendum. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. GENERAL

1. **THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT.**

2. **AN ATTACHED DRAFT WEST VIRGINIA DEPARTMENT OF HIGHWAYS DRAFT IS ENCLOSED IN THIS ADDENDUM.**

B. TECHNICAL SPECIFICATIONS

Specification Section 011000 has been updated as part of this addendum.
Specification Section 012000 has been updated as part of this addendum.

C. DRAWINGS

1. Sheet GN1: Revised to add five (5) additional notes pertaining to Traffic Control and storage area.
2. Sheet GN2: Revised notes in the Maintaining Traffic section.
3. Sheet S3: Revised Pro Strom 3 Profile that ties into the Existing Drop Inlet near Basketball Court. Added two notes pertaining to Waterline and Gas Line that runs through manhole No. 9.
4. Sheet S4: Note added to ensure Wingwall No. 4 is at least eight (8) feet away from Edge of Pavement.
5. Sheet D8: Detail addressed to change Trench Detail for 60" to 108" Pipe from an O.D. Min. to an 18" Min.

6. Sheet D10: Changes made to the WVDOH Type "A" and Type "B" Trench Repair detail at the request of the WVDOH.
7. Sheet D11: Removal of one (1) of the Resurfacing Heel-In Details that was on the sheet twice.
8. Sheet D14: Was added to show the Traffic Control Plan that was selected and approved by the WVDOG for construction when working on WV-2 and 49 Hill Road.

D. QUESTIONS AND RESPONSES

QUESTION

1. What is the cost of the Building Permit and Building License within the Village of Beech Bottom?

RESPONSE

For this project, a Business License will be required by the Village of Beech Bottom as well as a Building Permit. The Annual Business License cost $25.00 and can be purchased through the Village of Beech Bottom by either mail or in person at the Village office building. The Building Permit can be purchased for one (1) percent of the project cost. This can be purchased through an application at the Village of Beech Bottom office building, the permit is for six (6) months. This permit can be extended one (1) time at no-cost for an additional six (6) months. Application shall be made at least five (5) business days prior to commencement of construction. Per the pre-bid meeting on Wednesday June 15th, 2022 the Mayor of Beech Bottom stated that B&O Taxes would be waived.

QUESTION

2. Does this project have to adhere to the Build America, Buy America Act (BABAA)?

RESPONSE

This project does not have to adhere to the Build America, Buy America Act.

QUESTION

3. Would any alternate pipe types be considered or accepted in lieu of the Steel Reinforced Polyethylene Pipe?

RESPONSE

This would be entertained once a successful bidder has been selected. Due to the type of funding that has been secured we are not going to change the scope of the project or type of materials until a successful bidder has been selected.

QUESTION

4. What is the Engineer's Estimate on the Project?

RESPONSE

The Engineer's Estimate for this project is $2,500,000.00.

QUESTION

5. Do wage rates apply for this project?

RESPONSE

Yes, wage rates do apply for this project, and they were included in the initial contract documents.

QUESTION

6. Would a stored materials type of payment/process be considered?

RESPONSE

Yes, this will be considered as a potential payment method under certain circumstances. This will be discussed with the successful bidder once the contract has been awarded.

QUESTION

7. How are unsuitable materials going to be dealt with during the project?

RESPONSE

Located in Technical Specification Section 312316 – Excavation. Here it states that if unsuitable material is encountered at a depth of two (2) feet below required elevations, then any additional excavation beyond the first two (2) feet will be measured as directed by Engineer and paid as a change in the quantity of work. There has been an additional Bid Item that has been added to address the possibility of excavating through unsuitable material.

QUESTION

8. Will the substitution of other materials instead of aggregate be considered above the haunches of the pipe?

RESPONSE

This scenario will be entertained once a successful bidder has been selected for the contract.

QUESTION

9. With the Trench Detail on Sheet D8 stating that the minimum clear space on each side of the pipe be "O.D. Min.", this will cause a Trench to be approximately 18 feet wide. How will this be accommodated in the alley through town without enough clearance?

RESPONSE

Please see Sheet D8 in the plans that properly address this question. A minimum of 18" clearing will be required on each side of the pipe.

QUESTION

10. Is a permit needed to discharge Storm Water into the River?

RESPONSE

There will not be a permit needed to discharge Storm Water into the Ohio River.

QUESTION

11. Manhole #9 in the plans shows a Gas Line and Water Line running directly through it, how will this be addressed?

RESPONSE

This scenario will be covered underneath the Utility Relocation Allowance Bid Item shall there be a need to relocate these lines.

QUESTION

12. Will there be an allowance for the reconnection for the Church Sanitary Sewer Line Relocation?

RESPONSE

Yes, there will be a new Bid Item that will address an allowance for the Utility Relocation.

QUESTION

13. Does the project have a Right-Of-Way through the Brownlee Property?

RESPONSE

Yes, a Right-Of-Way has been obtained with the Brownlee Property to complete the construction.

QUESTION

14. Will contractors have a place to store excess pipe and materials for the project?

RESPONSE

Yes, the successful bidder will have an area to store excess pipe and materials on the Brownlee Property. Successful Bidder may contact Ed Brownlee, Property Owner, to obtain the area that will be used for storage.

QUESTION

15. What is the difference between the Open Manholes and Closed Manholes within the plans?

RESPONSE

The Open Manhole will look like the detail on Sheet D9 in the plans and is labeled as Tilt Bar Grate (Open Top Manhole). The Closed Manhole Detail is also located on Sheet D9 and is labeled as Manhole Cover Detail. The Tilt Bar Grate (Open Manhole) must follow in accordance with the Technical Specification in Section 334200.

QUESTION

16. Is there a need for a Check Valve at the Storm Drain Outlet at the river discharge?

RESPONSE

There will be no need for a Check Valve unless necessary.

QUESTION

17. Will the existing inlets be tie-into the new Storm Line?

RESPONSE

The sole purpose of this project is to convey storm water from the upper section of town through the town and discharge into the Ohio River. There will be at least one (1) inlet that will be tied-into the new line at the basketball court.

QUESTION

18. Will 8'-0" diameter manholes be allowed in lieu of 9'-0" diameter manholes specified?

RESPONSE

For areas that have 90-Degree and 180-Degree runs through the manholes 8' by 8' square manholes will be considered in lieu of the 9'-0" manholes.

QUESTION

19. For Manhole No. 10, can a square or rectangular manhole be supplied if submitted with a PE stamped design?

RESPONSE

Yes, a square or rectangular manhole can be used for Manhole No. 10 and once a successful bidder has been selected this scenario will be considered.

QUESTION

20. WVDOH details provided for the 72" end section calls for 11.22 CY of concrete, can an alternate design be provided if stamped by a PE?

RESPONSE

Alternative design will be considered once a successful low bidder has been selected.

QUESTION

21. Can the Steel Reinforced Polyethylene Pipe per AASHTO MP-42 be considered?

RESPONSE

Once a successful bidder has been selected this scenario will be considered.

QUESTION

22. Will the owner cover DOH Fees?

RESPONSE

Yes, the owner will cover the DOH Fees

QUESTION
23. Is 100% granular backfill require under paved surfaces?

RESPONSE
Yes, under the DOH roadways 100% granular backfill will need to be placed due to the amount of traffic that these see.

QUESTION
24. Are the solid manhole castings to be watertight and bolted down with anchor bolts?

RESPONSE
Yes, these manholes are required to be watertight and bolted down as stated in the Contract Documents.

QUESTION
25. What is the current flow of this line during rain events and dry weather?

RESPONSE
The flow through the line varies depending on rain events that occurring in the area and accounts for approximately 284 acres.

QUESTION
26. Are pipe connectors required for proposed storm manholes?

RESPONSE
Yes, pipe connectors are required in the storm manholes. Refer to Contract Documents in Section 334200 – Stormwater Conveyance.

QUESTION
27. Regarding the fence around the existing headwall at the East End of the project, will we be responsible for putting the fence back?

RESPONSE
Yes, the successful bidder will be responsible for repairing the fence if damaged during the construction of the project.

QUESTION
28. What is feeding the creek flowing through this line?

RESPONSE
Small tributaries and run off from the above roads and communities around the town, and a drainage area of approximately 284 acres.

QUESTION

29. Is there a detention pond above and/or is the water flow controllable in some way?

RESPONSE

There are no know detention ponds in the area. The flow is depending upon the drainage area of the project.

QUESTION

30. What is the normal elevation of the river?

RESPONSE

The normal elevation of the river according to the WV Flood Tool Map supplied by FEMA is 644 feet.

QUESTION

31. Can the bid be postponed?

RESPONSE

No, the bid will not be postponed and will commence at the scheduled time of 2:00 PM Tuesday June 28th, 2022.

E. CLARIFICATIONS

1. The Bid Form (C-410) has been revised and included with this Addendum. **YOU MUST USE THE REVISED BID FORM INCLUDED WITH THIS ADDENDUM WHEN PREPARING YOUR BID PACKAGE.**

2. (The bidding process is a two (2) envelope system. Envelope No. 1 must have the following information presented on the front:

   Name and address of Bidder
   Bid on Contract – Beech Bottom Storm Sewer Line Upgrade
   Received by the Village of Beech Bottom

Envelope No. 2 labeled "Bid Proposal" shall also be placed inside of Envelope #1

Envelope No. 1 will be opened first and the Bid Opening Requirement items checked for compliance as outlined on the Bid Opening Checklist (BOR-1). If such documents are found to be in order, Envelope No. 2 "Bid Proposal", will be opened and will publicly read aloud. If the documents required to be contained in Envelope No. 1 **are not in order**, Envelope No. 2 "Bid Proposal", **will not be opened** and the Bid will be considered non-responsive.

3. The Bid Opening Requirements consist of the ***blue*** pages of the contract books and are labeled with BOR at the bottom of the page. The Bid Form consists of the ***yellow*** pages of the contract documents.

4. All work is to be coordinated through the Engineer and the Village of Beech Bottom to ensure no disruption to the existing collection or water distribution system.

5. Engineer's Approved Equal means material, equipment, or method approved by the engineer for use in the work, as being acceptable as an equivalent in essential attributes to the material, equipment, or method specified in the contract documents.

6. Bid Item #26 on the updated Bid Form is a Utility Relocation Allowance of $10,000. This allowance is included to cover any additional costs of the relocation of existing utilities that may be required during this project. This allocation will be in accordance with Section 13 of the General Conditions. **YOU MUST USE THE REVISED BID FORM INCLUDED WITH THIS ADDENDUM WHEN PREPARING YOUR BID PACKAGE.**

7. Sealed Bids for the construction of the Beech Bottom Storm Sewer Line Upgrade Project will be received by, the Village of Beech Bottom, located at 11 Third Street, Brooke County, Beech Bottom, West Virginia 26030 until **2:00 PM** local time on **Tuesday June 28, 2022**, at which time the Bids will be publicly opened and read.

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on Tuesday, June 28, 2022 at 11 Third Street, Brooke County, Beech Bottom, WV 26030. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

DOUG SMITH, P.E.
Project Manager

Enclosures: Pre Bid Conference Sign In Sheet
C410 Bid Form
Specification Section 011000 Summary
Specification Section 012000 – Price and Payment Procedures
MM-109
Plan Sheets

DOUGLAS R. SMITH
REGISTERED
11841
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

6/23/22

VILLAGE OF BEECH BOTTOM
BROOKE COUNTY, WEST VIRGINIA
STORM SEWER LINE UPGRADE

PRE-BID CONFERENCE
Wednesday, June 15, 2022

Thrasher Project #020-01569

Name	Representing	Phone #	Email Address
Bob Sadler	Beech Bottom	304-639-1551	bobsadler@hotmail.com
Anthony Baumgard	Triple H	740-350-6197	anthony@tripleHenterprises.ne
Will Allison	Alex E Paris Contr	724 947 2235	Wallison@alexparis.com
PAUL FILIPIAK	FOSTER SUPPLY	304-545-0097	PAUL@FOSTERSUPPLY.COM
Garren Goudy	OWV Exc.	740-676-7464	ggoudy@owvexcavating.com
Michael Giannì	James White Const	304 448 8181	mgiannì@jameswhiteconstruction.com
Becky Unity	Beech Bottom	304-574-5334	mayor@bbwv.org
Matt Powell	Triton Const.	740-391-5847	matt.powell@tritonwv.com
Jimmy Johnson	Triple H	336-209-8508	Jimmy@tripleHenterprises.ne

VILLAGE OF BEECH BOTTOM
BROOKE COUNTY, WEST VIRGINIA
PROPOSED
BEECH BOTTOM STORM SEWER LINE UPGRADE
THRASHER PROJECT #020-01569

BID FORM

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

Village of Beech Bottom
11 Third Street
Beech Bottom, WV 26030

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous

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Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.

I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.

J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;

2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the e execution of the Contract.

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ARTICLE 5 – BASIS OF BID

GENERAL

The Bidder shall take notice of and shall be responsible for any local or state taxes levied and applicable, and the cost for the same shall be included as part of the submitted Bid.

The total Bid cost stated includes a complete operating installation including furnishing and installation of any and all changes or additions in plans, piping, mechanical work, additional electrical work, accessories, controls, etc. necessary to accommodate alternative equipment systems or materials used in construction.

BID PROPOSAL

The Bidder agrees to perform all required Work described in the detailed Specifications and as shown on the Plans for the complete construction and placing in satisfactory operation the Beech Bottom Storm Sewer Line Upgrade. The Project "Sequence of Construction" has been detailed in the Drawings and Specification Division 1, Project Summary, Section 011000. The Bidder agrees to perform all the Work proposed for the total of the following Bid prices.

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

PROPOSED
BEECH BOTTOM STORM SEWER LINE UPGRADE
FOR THE

VILLAGE OF BEECH BOTTOM
BROOKE COUNTY, WEST VIRGINIA

THRASHER PROJECT #020-01569

BID SCHEDULE

NOTE: Bid Unit PRICE amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. Bids shall include sales tax and all other applicable taxes and fees.

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
1	LS	204002-000 Mobilization/Demobilization _____ Dollars _____ Cents	_____	_____
2	LS	628003-001 Pre-Construction Videotaping _____ Dollars _____ Cents	_____	_____
3	LS	Erosion and Sediment Controls _____ Dollars _____ Cents	_____	_____

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Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
4	LS	636001-001 Temporary Traffic Controls _____ Dollars _____ Cents	_____	_____
5	2,499 LF	72 Inch Steel Reinforced Polyethylene Pipe _____ Dollars _____ Cents	_____	_____
6	97 LF	60 Inch Steel Reinforced Polyethylene Pipe _____ Dollars _____ Cents	_____	_____
7	23 LF	18 Inch Corrugated Polyethylene Storm Sewer _____ Dollars _____ Cents	_____	_____
8	6 EA	605016-001 Modified Type B Manhole, Sealed Top _____ Dollars _____ Cents	_____	_____
9	6 EA	605016-001 Modified Type B Manhole, Open Top _____ Dollars _____ Cents	_____	_____
10	4 EA	675027-001 Manhole Removal _____ Dollars _____ Cents	_____	_____
11	1 EA	605004-001 Type B Storm Sewer Inlet _____ Dollars _____ Cents	_____	_____
12	2 EA	603028-001 Reinforced Concrete Wingwall _____ Dollars _____ Cents	_____	_____
13	2 EA	603028-001 Reinforced Concrete Wingwall, With Trash Grate _____ Dollars _____ Cents	_____	_____

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Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
14	185 CY	218001-000 Riprap Outlet Protection _____ Dollars _____ Cents	_____	_____
15	450 CY	601041-001 Injection Grouting _____ Dollars _____ Cents	_____	_____
16	160 LF	WVDOH Type "A" Trench Repair _____ Dollars _____ Cents	_____	_____
17	520 LF	WVDOH Type "B" Trench Repair _____ Dollars _____ Cents	_____	_____
18	115 TN	415005-001 1.5" Milling and Overlay of Bituminous Concrete Pavement (WVDOH Marshall Type 1 Wearing Course) _____ Dollars _____ Cents	_____	_____
19	60 TN	415005-001 2" Milling and Overlay of Bituminous Concrete Pavement (WVDOH 12.5MM "SUPERPAVE") _____ Dollars _____ Cents	_____	_____
20	290 LF	Asphalt Pavement Repair _____ Dollars _____ Cents	_____	_____
21	310 LF	Stone Roadway Repair _____ Dollars _____ Cents	_____	_____
22	135 SY	Concrete Sidewalk Repair _____ Dollars _____ Cents	_____	_____

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Item	Quantity	Description with Unit Price Written		Unit Price	Total Price
23	130 LF	610001 Concrete Curbing	Dollars Cents		
24	2 EA	609005-001 & 609006-001 Curb Ramp with Detectable Warning Surface	Dollars Cents		
25	1 Allowance	Utility Relocation Ten Thousand Zero	Dollars Cents	10,000.00	10,000.00
26	500 CY	Removal of Unsuitable Material	Dollars Cents		

TOTAL BID: _____

($)

(Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

NOTE: THE CONTRACTOR'S UNIT PRICES SHALL INCLUDE PURCHASE AND INSTALLATION, COMPLETE IN PLACE, PER BID ITEM IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

METHOD OF AWARD

If at the time this contract is to be awarded, the lowest total bid submitted by a qualified, responsible Bidder does not exceed the amount of funds then estimated by the Owner, as available to finance the contract, the construction contract will be awarded. If such bids exceed such amount, the Owner may reject all bids.

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The owner may award the contract on the Total Bid submitted by a qualified responsible Bidder less the amount(s) of the Deductive Alternate(s) subtracted in numerical order, as listed in the contract to produce the lowest bid within the funds available for financing.

A. Unit prices have been computed in accordance with paragraph 13.03.A of the General Conditions.

B. Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

A. Bid Opening Requirements

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

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ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

_____

By:
[Signature] _____

[Printed name] _____
(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:
[Signature] _____

[Printed name] _____

Title: _____

Submittal Date: _____

Address for giving notices:

_____

_____

_____

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

_____

Bidder's License No.: _____
(where applicable)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

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SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Access to site.
4. Work restrictions.
5. Permits.
6. Specification and drawing conventions.

1.2 PROJECT INFORMATION

A. Project Identification: Beech Bottom Storm Sewer Line Upgrade Project

1. Project Location: Brooke County, WV.

B. Owner: Village of Beech Bottom
11 Third Street
Beech Bottom, WV 26030

C. Engineer: Douglas R. Smith, PE, The Thrasher Group, Inc.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

1. Construction of 1 LS 204002-000 Mobilization/Demobilization, 1 LS 628003-001 Pre-Construction Videotaping, 1 LS Erosion and Sediment Controls, 1 LS 636001-001 Temporary Traffic Controls, 2,499 LF 72" Steel Reinforced Polyethylene Storm Sewer, 97 LF 60" Steel Reinforced Polyethylene Storm Sewer, 23 LF 18" Corrugated Polyethylene Storm Sewer, 6 EA 605016-001 Modified Type B Manhole, Sealed Top, 6 EA 605016-001 Modified Type B Manhole, Open Top, 4 EA 675027-001 Manhole Removal, 1 EA 605004-001 Type B Storm Sewer Inlet, 2 EA 603028-001 Reinforced Concrete Wingwall, 2 EA 603028-001 Reinforced Concrete Wingwall with Trash Grate, 185 CY 218001-000 Riprap Outlet Protection, 450 CY 601041-001 Injection Grouting, 160 LF WVDOH Type "A" Trench Repair, 520 LF WVDOH Type "B" Trench Repair, 115 TN 415005-001 1.5" Milling and Overlay of Bituminous Concrete Paving (WVDOH Marshall Type 1 Wearing Course), 60 TN 415005-001 2" Milling and Overlay of Bituminous Concrete Pavement (WVDOH 12.5MM "SUPERPAVE"), 290 LF Asphalt Pavement Repair, 310 LF Stone Roadway Repair, 135 SY Concrete Sidewalk Repair, 130 LF 610001 Concrete Curbing, 2 EA 609005-001 & 609006-001 Curb Ramp with

Detectable Warning Surface, 1 Allowance Utility Relocation, 500 CY Removal of Unsuitable Material, and related appurtenances.

B. Type of Contract.

1. Project will be constructed under a single prime contract.

1.4 ACCESS TO SITE

A. General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the limits of construction.

B. Use of Site: Limit use of Project site to areas within the limits of construction as indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated. Contractor is not permitted to work or store material outside of the limits of construction.

1.5 WORK RESTRICTIONS

A. Work Restrictions, General: Comply with restrictions on construction operations.

1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction. Contractor access to the project site is indicated on the contract drawings.

B. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:

1. Notify Engineer and Owner's Representative not less than two days in advance of proposed utility interruptions.
2. Obtain Owner Representative's written permission before proceeding with utility interruptions.

C. Environmental Protection

1. Applicable Regulations

a. The Contractor and his subcontractors, in the performance of this Contract, shall comply with all applicable Federal, State and local laws and regulations concerning environmental pollution control and abatement as well as the specific requirements stated elsewhere in the Contract Documents.
b. Water Pollution

1) The Contractor shall take all precautions necessary to avoid pollution of water in adjacent watercourses or water storage areas including wells.
2) All earthwork, equipment movement, control of water in excavations and other operations which may create silting shall be conducted in a manner to keep water pollution to an absolute minimum.
3) Water used during the contract work which has become polluted with oil, harmful or objectionable chemicals, sewage or other pollutants shall be

disposed of in a manner that will not affect nearby waters and land. The Contractor shall not, under any circumstances, discharge pollutants into any watercourse.

D. Obtain Owner Representative's written permission before proceeding with disruptive operations.

1.6 PERMITS

A. The Owner is responsible for obtaining the following permits as required:

1. West Virginia Dept. Of Highways Utility Occupation Permit
2. West Virginia DEP Stormwater Construction Permit
3. Railroad Occupation License

1.7 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:

1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:

1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
2. Abbreviations: Materials and products are identified by abbreviations.

D. Plans and Working Drawings

1. Approved plans will show the location, profile, typical cross section, structures except as hereinafter specified, incidental items, and a summary of all items appearing in the proposal. Any deviations which may be required by the construction will be determined by the Engineer and authorized by him in writing. The Contractor shall keep one set of approved plans available of the work at the project site at all times.
2. Plans will show details necessary to give a comprehensive idea of the construction contemplated. Any information which may be shown on drawings regarding results obtained from test borings will be a record of conditions encountered at the place where such test borings were made, as nearly as these conditions could be interpreted by the Engineer observing the operations. The Contractor shall interpret the data in the light of

his own experience. The Contractor is not bound to accept or rely on the data shown on the drawings, but may make additional borings and investigations, including test piles, to satisfy himself concerning the conditions governing or entering into the construction of foundations.

3. The Contractor shall submit to the Engineer for approval additional calculation sheets, shop details, and other working drawings required for the construction of any part of the work; and prior to the approval of such plans, any work done, or materials ordered shall be at the Contractor's risk.

E. Conformity with Plans and Specifications

1. All work performed, and all materials furnished shall be in reasonably close conformity with the lines, grades, cross sections, dimensions, and material requirements, including tolerances, shown on the plans or indicated in the specifications.
2. Should the Engineer determine the materials, or the finished product does not conform with the specifications or the plans, he will then make a determination if the work will be accepted and remain in place. In this event, the Engineer will document the basis of acceptance by contract modification which will provide for an adjusted payment. All nonconforming material or construction judged to be inadequate for the use intended shall either be reworked or removed and replaced at no expense to the Owner.

F. Errors or Omissions in Plans

1. The Contractor shall take no advantage of any apparent error or omission in the plans or specifications. In the event the Contractor discovers such an error or omission, he shall immediately notify the Engineer. The Engineer will then make such corrections and interpretations necessary for fulfilling the intent of the plans and specifications.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION 011000

SECTION 012000 - PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Schedule of Values.
2. Application for Payment.
3. Change procedures.
4. Defect assessment.
5. Unit prices.

1.2 SCHEDULE OF VALUES

A. Submit printed schedule on Progress Estimate schedule on EJCDC C-620 or Contractor's standard form or electronic media printout will be considered for this use.

B. Submit Schedule of Values in duplicate within twenty (20) days after date established in Notice to Proceed.

C. Format: Identify each line item with number and title of major Specification Section. Contractor shall submit a balanced Schedule of Values. The total value of activities shall equal the identifiable Contract Price. The Schedule of Values shall be accompanied by a proposed cash flow for the duration of the Project. Line items shall be broken down as appropriate and listed as units. Overhead and profit shall be prorated to all the activities.

1. Unless otherwise specified, the Schedule of Values shall include the following percentages for each of the listed activities:

   a. Mobilization, Bonds, Insurance, and Demobilization: 5 percent, maximum.
   b. As-Built Drawings: 1 percent, minimum.
   c. Punchlist: 2 percent, minimum.
   d. Final Bound O&M Manuals: 1 percent, minimum.
   e. All Spare Parts Values not specifically assigned elsewhere : 0.5 percent, minimum.
   f. Testing: 1 percent, minimum.

2. Schedule of Values whose non-equipment related cash flow exceeds 10 percent of the total Contract amount (exclusive of equipment) in any one (1) month, or 45 percent of the total Contract amount (exclusive of equipment) in any three (3) consecutive months shall be deemed unacceptable and require revision. Exceptions may be granted at the discretion of the Engineer for unusual circumstances or non-routine construction.
3. If, in the opinion of Engineer or Owner, the Schedule of Values is unbalanced, Contractor shall submit documentation substantiating the cost allocations of those activities believed to be unbalanced. No pay requests will be accepted until the Schedule of Values submittals has been marked "No Exceptions Taken" or "Make Corrections Noted" by Engineer.

D. Include within each line item, direct proportional amount of Contractor's overhead and profit.

E. Revise schedule to list approved Change Orders with each Application for Payment.

1.3 APPLICATION FOR PAYMENT

A. Submit five (5) copies of each Application for Payment on EJCDC C-620 - Contractor's Application for Payment.

B. Content and Format: Use Schedule of Values for listing items in Application for Payment.

C. Submit updated construction schedule with each Application for Payment.

D. Payment Period: Submit at intervals stipulated in the Agreement.

E. Submit submittals with transmittal letter as specified in Section 013300 - Submittal Procedures.

F. Substantiating Data: When Engineer requires substantiating information, submit data justifying dollar amounts in question. Include the following with Application for Payment:

1. Current construction photographs
2. Partial release of liens from major Subcontractors and vendors.
3. Record Documents as specified in Section 017000 - Execution and Closeout Requirements, for review by Owner, which will be returned to Contractor.
4. Affidavits attesting to off-Site stored products.
5. Construction Progress Schedule, revised and current as specified in Section 013300 - Submittal Procedures.

1.4 CHANGE PROCEDURES

A. Submittals: Submit name of individual who is authorized to receive change documents and is responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.

B. Carefully study and compare Contract Documents before proceeding with fabrication and installation of Work. Promptly advise Engineer of any error, inconsistency, omission, or apparent discrepancy.

C. Requests for Interpretation (RFI) and Clarifications: Allot time in construction scheduling for liaison with Engineer; establish procedures for handling queries and clarifications.

1. Use Request for Information Form for requesting interpretations (provided by Engineer upon request).
2. Engineer may respond with a direct answer on the Request for Information form, separate Engineer Response, EJCDC C-942 - Field Order, or Work Directive Change Form.

D. Engineer will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions on EJCDC C-942.

E. Engineer may issue Notice of Change including a detailed description of proposed change with supplementary or revised Drawings and Specifications, a change in Contract Time for executing the change with stipulation of overtime work required and with the period of time during which the requested price will be considered valid. Contractor will prepare and submit estimate within 10 days.

F. Contractor may propose changes by submitting a request for change to Engineer, describing proposed change and its full effect on the Work. Include a statement describing reason for the change and the effect on Contract Sum/Price and Contract Time with full documentation and a statement describing effect on the Work by separate or other Contractors.

G. Stipulated Sum/Price Change Order: Based on Proposal Request or Word Directive Change and Contractor's maximum price quotation or Contractor's request for Change Order as approved by Engineer.

H. Unit Price Change Order: For Contract unit prices and quantities, the Change Order will be executed on a fixed unit price basis. For unit costs or quantities of units of that which are not predetermined, execute Work under Work Directive Change. Changes in Contract Sum/Price or Contract Time will be computed as specified for Time and Material Change Order.

I. Work Directive Change: Engineer may issue directive, on EJCDC C-940 - Work Change Directive, instructing Contractor to proceed with change in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute change.

J. Time and Material Change Order: Submit itemized account and supporting data after completion of change, within time limits indicated in Conditions of the Contract. Engineer will determine change allowable in Contract Sum/Price and Contract Time as provided in Contract Documents.

K. Maintain detailed records of Work done on time and material basis. Provide full information required for evaluation of proposed changes and to substantiate costs for changes in the Work.

L. Document each quotation for change in Project Cost or Time with sufficient data to allow evaluation of quotation.

M. Change Order Forms: EJCDC C-941 - Change Order.

N. Execution of Change Orders: Engineer will issue Change Orders for signatures of parties as provided in Conditions of the Contract.

O. Correlation of Contractor Submittals:

1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
2. Promptly revise Progress Schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of Work affected by the change, and resubmit.
3. Promptly enter changes in Record Documents.

1.5 DEFECT ASSESSMENT

A. Replace the Work, or portions of the Work, not conforming to specified requirements.

B. If, in the opinion of Engineer or Owner, it is not practical to remove and replace the Work, Engineer or Owner will direct appropriate remedy or adjust payment.

C. The defective Work may remain, but unit sum/price will be adjusted to new sum/price at discretion of Owner.

D. Defective Work will be partially repaired according to instructions of Engineer, and unit sum/price will be adjusted to new sum/price at discretion of Owner.

E. Individual Specification Sections may modify these options or may identify specific formula or percentage sum/price reduction.

F. Authority of Owner to assess defects and identify payment adjustments is final.

G. Nonpayment for Rejected Products: Payment will not be made for rejected products for any of the following reasons:

1. Products wasted or disposed of in a manner that is not acceptable.
2. Products determined as unacceptable before or after placement.
3. Products not completely unloaded from transporting vehicle.
4. Products placed beyond lines and levels of the required Work.
5. Products remaining on hand after completion of the Work.
6. Loading, hauling, and disposing of rejected products.

1.6 MEASUREMENT AND PAYMENT

A. General Requirements:

1. Contractor shall take measurements and compute quantities. Engineer will verify measurements and quantities.
2. Unit Quantities: Quantities and measurements indicated on Bid Form are for Contract purposes only. Actual quantities provided shall determine payment.

    a. When actual Work requires more or fewer quantities than those quantities indicated, provide required quantities at contracted unit sum/prices.
    b. When actual Work requires 25 percent or greater change in quantity than those quantities indicated, Owner or Contractor may claim a Contract Price adjustment.

3. Payment Includes: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services and incidentals; erection, application, or installation of item of the Work; overhead and profit.
4. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities accepted by Engineer multiplied by unit sum/price for Work incorporated in or made necessary by the Work.

B. Measurement of Quantities:

1. Weigh Scales: Inspected, tested, and certified by applicable West Virginia weights and measures department within past year.
2. Platform Scales: Of sufficient size and capacity to accommodate conveying vehicle.
3. Metering Devices: Inspected, tested, and certified by applicable West Virginia department within past year.
4. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel, or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
5. Measurement by Volume: Measured by cubic dimension using mean length, width, and height or thickness.
6. Measurement by Area: Measured by square dimension using mean length and width or radius.
7. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
8. Stipulated Sum/Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as completed item or unit of the Work.

C. Unit Price Schedule:

1. Mobilization/Demobilization

a. This bid item shall include bonds and the performance of construction preparatory operations, including the movement of equipment and personnel to and from the Project Site, establishment and decommissioning of Contractor's Field Office, storage buildings, traffic control and other facilities necessary to conduct Work under this Contract.
b. This Bid Item shall also include any and all costs associated with the following Specification Sections.

1) Section 012500 – Substitution Procedures.
2) Section 012600 – Contract Modification Procedures.
3) Section 013100 – Project Management and Coordination.
4) Section 013216 – Construction Progress Schedule.
5) Section 013300 – Submittal Procedures.
6) Section 014000 – Quality Requirements.
7) Section 015000 – Temporary Facilities and Controls.
8) Section 016000 – Product Requirements.
9) Section 017000 – Execution and Closeout Requirements.
10) Section 017839 – Project Record Documents.

c. Payment shall be made at the lump sum (LS) Bid Price for Mobilization /Demobilization, but in no case shall the total lump sum Bid Price exceed five percent (5%) of the total bid price for this contract.
d. Partial Payments of the lump sum Bid amount for mobilization/demobilization shall be as follows:

1) One-fourth of the amount Bid for Mobilization/Demobilization will be released to the Contractor as the first estimate payable, not less than fifteen (15) days after the start of Work at the Project Site.

2) The second one-fourth of the amount Bid for Mobilization/Demobilization shall be released with the estimate payable thirty (30) days after the first estimate.
3) The third one-fourth of the amount Bid for Mobilization/Demobilization shall be released with the estimate payable thirty (30) days later than the estimate in which the second one-fourth has been paid.
4) The final one-fourth of the amount Bid for Mobilization/Demobilization shall be released with the final payment.
5) No reduction will be made, nor any increase be made, in the lump sum mobilization item amount regardless of decreased or increases in the final total Contract amount or for any other cause

2. Pre-Construction Video Recording – Section 024010

a. This bid item shall include all labor, materials, equipment and other costs associated to provide a complete documentation.
b. Videotaping shall include the entire construction area affected, including any Contractor secured waste site and material storage or staging areas. The measurement for this Bid Item shall be based on a complete video recording on a USB Drive of the entire project area.
c. The Cost of this Work shall be lump sum.

3. Erosion and Sediment Controls – Section 312500

a. The Bid item shall include all costs associated with erosion and sedimentation controls including, but not limited to, all materials and labor for installation, maintenance, and removal.
b. Erosion and Sediment Control shall include the entire construction area affected, as required, including any Contractor secured waste site and material storage or staging areas.
c. The Cost of this Work shall be lump sum.

4. Temporary Traffic Controls – Section 015700

a. The Bid item shall include all costs associated with temporary traffic controls including, but not limited to, all materials, equipment, and labor for installation, maintenance, and removal.
b. Temporary traffic controls shall be in accordance with the approved traffic control plan for the life of the project. Work shall include, but not be limited to, traffic control devices, barriers, signage, traffic signals, lighting, pavement markings, dust control, pilot cars, flaggers, and any other work required for the prosecution of the said work.
c. The Cost of this Work shall be bid as lump sum and shall be paid in 12 equal monthly payments upon initial installation of traffic controls measures.

5. 72" Steel Reinforced Polyethylene Storm Sewer – Section 334200

a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with the complete installation of Storm Sewer culvert pipe including excavation, bedding, backfill, materials, fittings, pipe joints, tools, supplies, marking tape, by-pass pumping, surface repair if another bid item does

not cover repair such as flowerbeds, walls, shrubs, fencing, etc., testing, and incidentals. All fittings used shall be included in the linear foot price of the pipe.

b. The sewers installed under this item shall be measured and paid for unit price bid per linear foot of pipe of each type and size as specified on Drawings or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the center of tie-in to center of tie-in.

c. The cost of this work shall be by the linear foot.

6. 60" Steel Reinforced Polyethylene Storm Sewer – Section 334200

a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with the complete installation of Storm Sewer culvert pipe including excavation, bedding, backfill, materials, fittings, pipe joints, tools, supplies, marking tape, by-pass pumping, surface repair if another bid item does not cover repair such as flowerbeds, walls, shrubs, fencing, etc., testing, and incidentals. All fittings used shall be included in the linear foot price of the pipe.

b. The sewers installed under this item shall be measured and paid for unit price bid per linear foot of pipe of each type and size as specified on Drawings or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the center of tie-in to center of tie-in.

c. The cost of this work shall be by the linear foot.

7. 18" Corrugated Polyethylene Storm Sewer – Section 334200

a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with the complete installation of Storm Sewer culvert pipe including excavation, bedding, backfill, materials, fittings, pipe joints, tools, supplies, marking tape, by-pass pumping, surface repair if another bid item does not cover repair such as flowerbeds, walls, shrubs, fencing, etc., testing, and incidentals. All fittings used shall be included in the linear foot price of the pipe.

b. The sewers installed under this item shall be measured and paid for unit price bid per linear foot of pipe of each type and size as specified on Drawings or as directed by the Engineer, and installed complete in place. The measurement under this item shall be the length of pipe and fittings installed in place and accepted and shall be measured in the horizontal plane along the centerline of each pipe installed, measured from the center of tie-in to center of tie-in.

c. The cost of this work shall be by the linear foot.

8. Modified Type B Manhole, Sealed Top – Section 034100

a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with excavation and backfill, installation of a pre-cast manhole, and other appurtenances as indicated on drawings.

b. Payment for manholes shall be as follows:

1. Gravel sub-base, manhole base, steps, cone top, frame, and cover (watertight where indicated), up to the depth indicated on the drawings, shall be paid at the Contract unit Bid price per each.
2. Manhole riser piping of specified inside diameter required for additional depth shall be included in this bid item.

9. Modified Type B Manhole, Open Top – Section 034100

   a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with excavation and backfill, installation of a pre-cast manhole, and other appurtenances as indicated on drawings.
   b. Payment for manholes shall be as follows:

      3. Gravel sub-base, manhole base, steps, cone top, frame, and cover (watertight where indicated), up to the depth indicated on the drawings, shall be paid at the Contract unit Bid price per each.
      4. Manhole riser piping of specified inside diameter required for additional depth shall be included in this bid item.

10. Manhole Removal – Section 330513.01
    a. This Bid Item shall include all required labor, materials, equipment, and all other costs associated with excavation and removal of existing manholes and all related appurtenances as indicated on drawings.
    b. Payment for manhole removal shall be made at Contract unit Bid price per Each.

11. Type B Storm Sewer Inlet – Section 034100

    a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with excavation and backfill, installation of a pre-cast storm sewer inlet, and other appurtenances as indicated on drawings.
    b. Payment shall be made at the Contract unit Bid price per each.

12. Reinforced Concrete Wingwall – Section 033000

    a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with the construction of a reinforced concrete wingwall as indicated in the contract documents and drawings.
    b. Payment shall be made at the Contract unit Bid price per each.

13. Reinforced Concrete Wingwall with Trash Grate – Section 033000

    a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with the construction of a reinforced concrete wingwall as indicated in the contract documents and drawings.
    b. Payment shall be made at the Contract unit Bid price per each.

14. Riprap Outlet Protection – Section 313716.13

    a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with the installation of riprap outlet protection as indicated in the contract documents and drawings.

b. Payment shall be made at the Contract unit Bid price per cubic yard.

15. Injection Grouting – Section 036000

a. This Bid item shall include all required labor, materials, equipment, and all other costs associated with the injection grouting of the areas of the existing storm sewer that are to be abandoned in place.
b. Payment shall be made at the Contract unit Bid price per cubic yard.

16. WVDOH Type "A" Trench Repair – Section 321216

a. The Bid item installed shall be measured and paid for at the unit price Bid per linear feet of trench repair measured along the centerline of the pipe. Width of repair will not be considered.
b. This Bid item shall include all required labor, materials, equipment, and all other costs associated with trench repair as shown in Contract Documents and details in plans.
c. No payment will be made for temporary paving required during construction.

17. WVDOH Type "B" Trench Repair – Section 321216

a. The Bid item installed shall be measured and paid for at the unit price Bid per linear feet of trench repair measured along the centerline of the pipe. Width of repair will not be considered.
b. This Bid item shall include all required labor, materials, equipment, and all other costs associated with trench repair as shown in Contract Documents and details in plans.
c. No payment will be made for temporary paving required during construction.

18. 1.5" Milling and Overlay of Bituminous Concrete Pavement (WVDOH Marshall Type 1 Wearing Course) – Section 321216

a. The cost for milling and overlay of bituminous concrete pavement of Type 1 shall be paid for at the ton unit bid price for the depth 1.5" of milling and overlay specified and/or shown in the Drawings.
b. The cost for milling and overlay shall include pavement markings to match the existing pavement markings that are milled.
c. This milling shall take place on roads where WVDOH Type "B" trench repair will occur.
d. The cost for milling and overlay shall include tack coat.

19. 2" Milling and Overlay of Bituminous Concrete Pavement (WVDOH 12.5MM "SUPERPAVE")

a. The cost for milling and overlay of bituminous concrete pavement of Type 1 shall be paid for at the ton unit bid price for the depth 2" of milling and overlay specified and/or shown in the Drawings.
b. The cost for milling and overlay shall include pavement markings to match the existing pavement markings that are milled.
c. This milling shall take place on roads where WVDOH Type "A" trench repair will occur.
d. The cost for milling and overlay shall include tack coat.

20. Asphalt Pavement Repair – Section 321216

    a. The Bid item installed shall be measured and paid for at the unit price Bid per linear feet of trench repair measured along the centerline of the pipe. Width of repair will not be considered.
    b. This Bid item shall include all required labor, materials, equipment, and all other costs associated with trench repair.
    c. No payment will be made for temporary paving required during construction.

21. Stone Roadway Repair – Section 321206

    a. The Bid item installed shall be measured and paid for at the unit price Bid per linear feet of trench repair measured along the centerline of the pipe. Width of repair will not be considered.
    b. This Bid item shall include all required labor, materials, equipment, and all other costs associated with trench repair.
    c. No payment will be made for temporary paving required during construction.

22. Concrete Sidewalk Repair – Section 321206

    a. The cost for this work shall be paid for at the linear foot unit bid price for the type of repair specified measured along the centerline of the utility pipe. Width of repair will not be considered.
    b. This Bid item shall include all required labor, materials, equipment, and all other costs associated with trench repair.
    c. The cost for temporary stone to maintain disturbed areas until repairs are made shall be included in the unit bid price for the repair. No additional compensation shall be made.

23. Concrete Curbing – Section 033000

    a. The Bid item installed shall be measured and paid for at the unit price Bid per linear feet of concrete curb installed.
    b. This Bid item shall include all required labor, materials, equipment, and all other associated costs.

24. Curb Ramp with Detectible Warning Surface – Section 033000

    a. The Bid item installed shall be measured and paid for at the unit price Bid per each unit installed.
    b. This Bid item shall include all required labor, materials, equipment, and all other associated costs.

25. Utility Relocation – Section 012100

    a. The cost associated with this allowance shall be in accordance with General Conditions Article 13. A Ten Thousand ($10,000) allowance shall be included to allow any relocations of existing utilities during the construction of this project. This Bid Item specifically pertains to the work that may occur when placing storm sewer line around existing utilities.

26. Removal of Unsuitable Material – Section 312316
    a. This bid item shall include all labor, materials, equipment, and other costs associated with encountering any material or subsurface conditions not anticipated in the project.
    b. All necessary work associated with over excavation and removal and proper disposal of material not anticipated during construction of storm sewer pipe.
    c. The bid for Removal of Unsuitable Material shall be per cubic yard.

27. Incidental Costs

    a. The cost of work for all Specification Sections not specifically referenced in the above unit price schedule shall be included in the unit bid item(s) for which the specific item(s) are required.
    b. Include in appropriate pay items cost for the following:

        1) Labor.
        2) Equipment.
        3) Materials.
        4) Transportation.
        5) Plant.
        6) Tools.
        7) Insurance.
        8) Workmen's Compensation.
        9) Licenses.
        10) Bonds.
        11) Permits.
        12) Taxes.
        13) General Overhead.
        14) Profits.
        15) Disinfection of Water Mains.
        16) Temporary Cap and Blocking for Testing of Water Mains and Sewer Mains.
        17) Shop Drawings Preparation and Submittal.
        18) All other expenses necessary for the prosecution of the work.

    c. Tests – Incidental to the appropriate pay items.

        1) Laboratory and Shop Tests.
        2) Hydrostatic and Leakage Tests.
        3) Soil Tests (Including compaction testing).
        4) Operational Tests of Valves.
        5) Start-up Testing and Commissioning.
        6) Temporary Cap and Blocking.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION 012000

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West Virginia Department of Transportation
Division of Highways
Right-of-way Encroachment Permit Application

Form MM-109
Rev. 06-29-2021

PERMIT NO. _____

PERMIT TO ENTER UPON, UNDER, OVER OR ACROSS THE STATE ROADS OF THE STATE OF WEST VIRGINIA.

THIS PERMIT, Made this 23 day of May 20 22, between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, a statutory corporation hereinafter called DIVISION and Village of Beech Bottom

Address: 11 Third Street, Beech Bottom, WV 26030 Phone No: (304) 394-5545

hereinafter called APPLICANT.

WITNESSETH

In consideration of the hereinafter set out covenants and in accordance with W. Va. Code §17-2E-1 *et seq.*, §17-4-8, §17-16-6, §17-16-9, §31H-1-1 *et seq.*, federal law, and the rules, policies, guidelines, manuals, and federal regulations promulgated thereunder, APPLICANT does hereby apply to enter

Route Type & No. WV ST. RT. 2 & 49 Hill Rd. DOH Project No. _____ (if applicable);

at See attached plans Mile Post N/A

in Brooke County, for the purposes hereinafter set forth and in accordance with the plans and specifications which are attached hereto and made a part hereof: For the installation of 72" SRCPP to be open cut through portions of West Virginia State RT. 2 and 49 Hill Rd. The total amount of linear footage to be open cut in DOH Right-of-Way is 153 linear feet.

APPLICANT further agrees to accept the conditions hereinafter set forth:

1. APPLICANT shall deposit with DIVISION the sum of $ 515.61 in the form of an official, certified or cashier's check, or executed bond with surety satisfactory to DIVISION to cover any damage and inspection costs DIVISION may sustain by reason of the granting of this permit, including any expense incurred in restoring said highway to its original condition or the proper repair of any and all damages that may result within one (1) year from the date of the completion of said work.

2. APPLICANT agrees to reimburse DIVISION for inspection costs as follows:
   - ☐ A. For any inspection costs incurred under this permit.
   - ☐ B. At $ _____ per linear foot for _____ feet of water line installed under this permit
   - ☑ C. At $ 3.37 per linear foot for 153 feet of sewer line installed under this permit

3. APPLICANT shall notify DIVISION at least 48 hours in advance of the date the work will begin. Failure to comply will be cause for cancellation of this permit.

4. APPLICANT agrees to protect its employees, equipment and users of the highway at all times in accordance with the current Division of Highways manual "Traffic Control For Street and Highway Construction and Maintenance Operations".

5. APPLICANT agrees to comply with all applicable state and federal laws in the performance of work under this permit, including but not limited to the requirement to provide DIVISION copies of any NEPA

clearance documentation for utility installations along or across the Interstate highway system and/or controlled-access rights of way.

6. Supplementary conditions cited below are understood and agreed to be a part hereof.

7. The work authorized under this permit shall be completed on or before (Date):

8. APPLICANT, by signing below, hereby warrants and represents that, to the extent its entrance onto DOH right of way involves or affects any other entity's property, real or personal, on or within DOH right of way, that APPLICANT has full legal authorization or the legal right to do so. To the fullest extent permitted by law, APPLICANT agrees to defend, indemnify and hold harmless DIVISION for damage to any persons or property arising from APPLICANT'S breach of this representation and warranty.

I attest that I have not modified the terms of this document. All attachments are inclusive to this permit.

Recommended by DOH Reviewer: _____

Title: _____

Applicant Signature: Casey [illegible] 5/23/2022

Title: Engineer for Village of Beech Bottom

BOND REQUIREMENT:

BOND _____ /DATE _____

Attached ☐ On File ☐

INSPECTION: Owner/Consultant ☐

Full Time ☐ Part Time ☐

Periodic ☐ Reimbursable ☐ No Cost ☐

APPROVED: _____

Title: _____

West Virginia Division of Highways

AUTHORIZATION _____ PERMIT _____

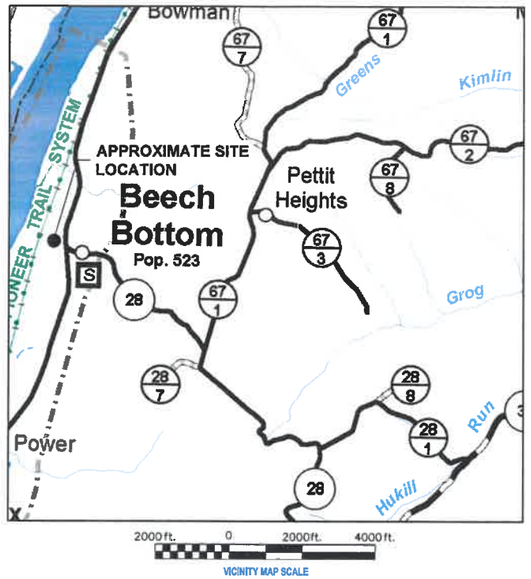
SUPPLEMENTARY CONDITIONS

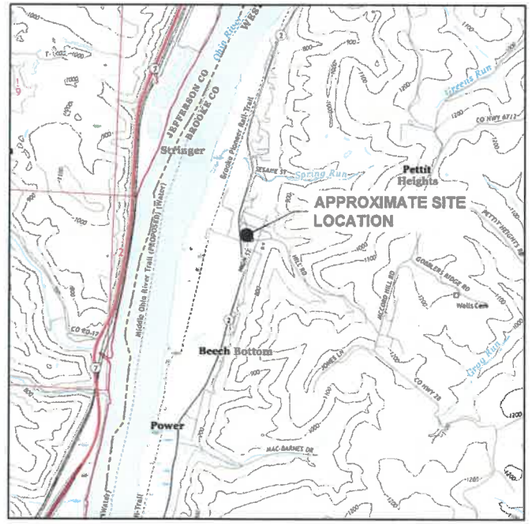
1. The person, firm or corporation to whom a permit is issued agrees to hold the State of West Virginia and DIVISION harmless on account of any damages to persons or property which may arise during the process of the work authorized by this permit or by reason thereof.
2. Applications for permission to perform work within highway rights of way shall be made on DIVISION'S standard permit form and shall be signed by the authorized representative of the person, firm or corporation applying.
3. The APPLICANT shall give detailed information concerning the work to be performed and the application must include a sketch sufficient to show the nature of the work performed.
4. APPLICANT, his agents, successor, heirs or assigns, contractors or any other person, firm or corporation working under APPLICANT'S real or apparent authority, shall perform the work in a manner satisfactory to DIVISION. Damage to the road resulting at any time from work authorized under this permit shall be repaired by APPLICANT. Unsatisfactory repairs may be a corrected by DIVISION or its authorized agent and the cost thereof paid by APPLICANT.
5. DIVISION assumes no liability for damage to the proposed work by reason of construction or maintenance work on the road.
6. This permit is granted subject to removal of the authorized installation by APPLICANT at no cost to DIVISION when required for improvement of the road, and subject to all regulations now or hereafter adopted by DIVISION.
7. Utility installation shall be in accordance with the current manual, "Accommodation of Utilities on Highway Right of Way".
8. Driveways shall be in accordance with the current manual, "Rules and Regulations for Constructing Driveways on State Highway Rights-of-Way."
9. DIVISION reserves the right to cancel this permit at any time, should APPLICANT fail to comply with the terms and conditions under which it is granted.
10. This permit is granted only insofar as the DIVISION has a right to do so.

VILLAGE OF BEECH BOTTOM
ISSUED FOR PERMIT PLANS FOR THE
BEECH BOTTOM STORM SEWER LINE UPGRADE
020-1569
BROOKE COUNTY, WEST VIRGINIA
JUNE 2022

SHEET INDEX

SHEET	DESCRIPTION
GN1-GN2	GENERAL NOTES
EC1-EC2	EXISTING CONDITIONS
S1	OVERALL PLAN
S2-S4	PLAN AND PROFILE SHEETS
S5	EASEMENT PLAN
S6	STORM NETWORK AND EASEMENT TABLE
D1-D14	DETAILS





THRASHER

EXISTING INFORMATION SOURCES

BASE CONTOUR DATA PROVIDED BY OTHERS.

BENCHMARK:
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, US SURVEY FOOT
VERTICAL - NAVD 88 (GEOID12B), US SURVEY FOOT

ROAD DESIGNATIONS OBTAINED FROM WV-DOH
(http://www.transportation.wv.gov)

WEST VIRGINIA 811

CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.
CALL811.COM/811-IN-YOUR-STATE

VILLAGE OF BEECH BOTTOM
PHONE: (304) 394-5545 | FAX: (304) 394-4772
P.O. BOX 100
11 THIRD STREET
BEECH BOTTOM, WV 26030

CONTACTS

CLIENT'S CONTACT
VILLAGE OF BEECH BOTTOM
ATTN: REBECCA UHLLY - MAYOR
(304) 394-5545

BRIDGEPORT, WV OFFICE
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
(304) 624-4108
PO BOX 940

ENGINEER
THE THRASHER GROUP, INC.
ATTN: DOUG R. SMITH, P.E.
(304) 435-9184

PLAN REPRODUCTION WARNING

THESE PLANS ARE INTENDED TO BE PLOTTED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE. THESE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THESE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES. **WARNING**: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

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NOT FOR CONSTRUCTION
2022-05-25

DOUGLAS R. SMITH REGISTERED 11841 STATE OF WEST VIRGINIA ENGINEER

6/23/22

DOUG R. SMITH, WV P.E. #11841

☐	ISSUED FOR PERMITS	DATE:		BY:
☒	ISSUED FOR BID	DATE:	06/23/22	BY: DRS
☐	ISSUED FOR CONSTRUCTION	DATE:		BY:

CAD FILE: R:\020\020-1569-FUNDING APPLICATION-VILLAGE OF BEECH BOTTOM-\Drawing\020-1569 - Cover_undated.dwg PLOT DATE/TIME: 6/23/2022 4:13 PM USER: casey.l_smith

WVDOH GENERAL NOTES

1. ALL METER SETTINGS ACROSS PAVED ROADS SHALL BE BORED OR MOLED UNLESS OPEN CUT HAS BEEN APPROVED BY WVDOH AND SPECIFICALLY INDICATED ON PLANS.
2. NOTIFICATION OF PROPOSED EXCAVATION, DEMOLITION OR ANY OTHER EARTH DISTURBING ACTIVITIES ARE REQUIRED TO BE PLACED TO THE MISS UTILITY OF WEST VIRGINIA (1-800-245-4848) NOT LESS THAN FORTY-EIGHT (48) BUSINESS HOURS BEFORE ANY SUCH WORK IS TO BEGIN.
3. BEDDING SHALL BE PLACED ON ASPHALT SURFACE TO PROTECT WHEN A TRENCHER OR TRACKED VEHICLE IS USED.
4. THE WVDOH PUBLICATION "STANDARD SPECIFICATIONS ROADS AND BRIDGES" AND "ACCOMMODATIONS OF UTILITIES ON HIGHWAY OF RIGHT OF WAY" LATEST EDITIONS ARE A PART OF THE PROJECT SPECIFICATIONS AND WILL BE ADHERED TO BY THE CONTRACTOR.
5. ALL DAMAGE TO ROAD SURFACES SHALL BE REPAIRED ACCORDING TO WVDOH STANDARD SPECIFICATIONS AND DETAILS.
6. ALL EXISTING DUMP ROCK OR RIP RAP DITCHES DISTURBED BY THE UTILITY/CONTRACTOR SHALL BE RESTORED WITH THE SAME SIZE, GRADE, AND QUALITY OF THE ROCK AFTER THE UTILITY HAS BEEN INSTALLED. NEW DUMP ROCK IS TO BE PLACED IN ALL LOCATIONS WHERE THE DITCH LINE IS GREATER THAN 5% AND THERE IS NO EXISTING RIP RAP.
7. TRAFFIC CONTROL SHALL CONFORM TO THE WVDOH PUBLICATION "TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATION" LATEST EDITION. THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN FOR THE DIVISION'S APPROVAL AND SHALL IMPLEMENT THE TRAFFIC CONTROL PLAN.
8. ALL BACKFILL MATERIAL AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THE "ACCOMMODATIONS OF UTILITIES ON HIGHWAY RIGHT OF WAY AND ADJUSTMENT AND RELOCATION OF UTILITY FACILITIES ON HIGHWAY PROJECTS" AND SUBJECT TO WVDOH APPROVAL. EVIDENCE OF PROPER COMPACTION BY TESTING WILL BE THE RESPONSIBILITY OF THE APPLICANT. THE TESTING SHALL BE 1 (ONE) PER DAY OR EVERY 500 LINEAL FEET (LF), OR AS DETERMINED BY THE DISTRICT MANAGER (ENGINEER) OR AUTHORIZED REPRESENTATIVE.
9. UTILITY LINES SHALL BE PLACED EITHER AROUND OR UNDER DRAINAGE CULVERTS.
10. AGGREGATE SHOULDER STONE SHALL BE PLACED ON THE SHOULDER AT A THICKNESS EQUAL TO 6 INCHES OR ITS ORIGINAL THICKNESS, WHICHEVER IS GREATER. PAVED SHOULDERS WILL BE PAVED.
11. MAGNETIC MARKING TAPE SHALL BE INSTALLED AT A DEPTH OF 18 INCHES BELOW THE SURFACE AND DIRECTLY ABOVE ALL LINES OR PIPE.
12. REPAIR TO DRIVEWAYS ON WVDOH RIGHTS-OF-WAY SHALL CONFORM TO THE APPROPRIATE WVDOH TYPICAL REPAIR DETAIL.
13. CLEANUP WILL BE ACCOMPLISHED DAILY. ALL CULVERTS AND DRAINAGE DITCHES SHALL BE OPEN AND MAINTAINED DURING CONSTRUCTION. SHOULDERS WILL BE RESTORED AND STABILIZED DAILY WITH THE APPROPRIATE STONE AT THE DISCRETION OF THE WVDOH.
14. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF COMPLETION OF THE BACKFILL OPERATION.
15. NO EXCESS EXCAVATION MATERIAL SHALL BE WASTED ON WVDOH RIGHTS- OF-WAY WITHOUT THE AGREEMENT OF THE WVDOH.
16. THE WVDOH RESERVES THE RIGHT TO RELOCATE UTILITY LINES AND FACILITIES AS DEEMED NECESSARY.
17. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN UTILITY LOCATIONS AND PERFORMING EXPLORATORY WORK TO DETERMINE SUBSURFACE MATERIALS AND STRUCTURES THAT MAY AFFECT ITS WORK.
18. PRIOR TO THE START OF ANY WORK WITHIN STATE HIGHWAY RIGHTS-OF-WAY, THE CONTRACTOR SHALL GIVE WVDOH 48 HOUR NOTICE.
19. THE CONTRACTOR IS RESPONSIBLE FOR ANY OFFSITE DISPOSAL REQUIRED. DISPOSAL SHALL BE TO AN ACCEPTABLE LEGAL SITE. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AT DISPOSAL SITES.
20. ALL ELEVATIONS, GRADES, AND DISTANCES SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE PRIOR TO CONSTRUCTION.
21. ALL CONSTRUCTION SHALL MAINTAIN 5' FROM EDGE OF PAVEMENT OR BOTTOM OF DITCH UNLESS NO OTHER PRACTICAL MEANS OF CONSTRUCTION EXISTS.
22. PERFORM ACCEPTABLE REPAIR OF ANY AND ALL SUB-BASE FAILURES THAT ARE CAUSED BY THE CONTRACTOR OPERATION ON A DAILY BASIS.
23. PERFORM TOTAL REPAIR AND/OR REPLACEMENT OF ANY DAMAGED ASPHALT SURFACE AS DETERMINED BY THE WVDOH REPRESENTATIVE.
24. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL MAKE A COMPLETE VIDEO SHOWING THE ROAD SURFACE OF THE ENTIRE PROJECT, OF ROADS TO BE UTILIZED IN THE CONSTRUCTION OF THE PROJECT AND PRESENT IT TO THE WVDOH UTILITY DEPARTMENT SUPERVISOR.
25. REMOVE DITCH-LINE OBSTACLES AND/OR PERFORM RECONSTRUCTION OF THE DITCH-LINE.
26. IN THE CASE OF MANHOLES OR VALVES, THEY SHALL BE PLACED OUTSIDE OF THE ROADWAY, SHOULDER, OR DITCH-LINE. IF PLACED IN THE SHOULDER, THERE IS TO BE A MINIMUM OF 6 INCHES OF COVER. IN THE DITCH-LINE THERE IS TO BE 12 INCHES OF COVER BETWEEN THE MANHOLE AND THE INVERT OF THE DITCH.
27. ANY MANHOLES OR VALVES OR VALVE BOXES PLACED IN THE ROADWAY WILL BE ON THE SAME PLANE AS THE ROADWAY AND SET FLUSH WITH ROADWAY.
28. ANY ROADS REQUIRING A HOT LAID BITUMINOUS CONCRETE OVERLAY, FULL WIDTH OR PARTIAL, SHALL HAVE THE SHOULDER STONE FROM AN APPROVED SOURCE PLACED AS PER WVDOH SPECIFICATIONS.
29. WVDOH REQUIRES THERE BE NO WORK WITHIN THE DIVISION'S RIGHTS-OF-WAY DURING SNOW AND ICE REMOVAL (SRIC). THERE MAY BE EXCEPTIONS FOR EMERGENCY AND CASE BY CASE SITUATIONS WITH NOTIFICATION TO THE WVDOH.
30. IT IS ANTICIPATED THAT OTHER CONTRACTORS WILL BE WORKING IN THIS AREA, AND IT IS IMPERATIVE THAT STRICT COORDINATION BETWEEN CONTRACTORS IS AGREED UPON IN REFERENCE TO LANE CLOSURES, WORKING PLANS AND STORAGE AREAS.

GENERAL NOTES

1. WVDOH "STANDARD SPECIFICATION ROADS AND BRIDGES," WITH SUPPLEMENTS, EDITION AS OF PROJECT ADVERTISEMENT DATE, IS HEREBY INCORPORATED INTO THE PROJECT SPECIFICATIONS FOR WORK WITHIN WVDOH RIGHTS-OF-WAY AND/OR WHERE "WEST VIRGINIA DIVISION OF HIGHWAYS," "WVDOH," OR SIMILAR REFERENCES ARE MADE IN THE PLANS AND/OR SPECIFICATIONS.
   A. PRICE ADJUSTMENTS FOR FUELS AND/OR ASPHALT WILL NOT BE MADE IN ACCORDANCE WITH SECTIONS 109.9 AND 109.10, RESPECTIVELY.
   B. COMPACTION TESTING SHALL BE PERFORMED AS DIRECTED BY WVDOH OR THE ENGINEER IN ACCORDANCE WITH SECTION 670.4.5.
   C. PAYMENT SHALL BE MADE IN ACCORDANCE WITH THE MEASUREMENT AND PAYMENT SECTION OF THE PROJECT SPECIFICATIONS RATHER THAN WVDOH MEASUREMENT AND PAYMENT SPECIFICATIONS.
2. ALL UNDERGROUND UTILITIES DEPICTED IN THE PLANS ARE SHOWN AT APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. EXACT LOCATIONS, DEPTHS, MATERIALS, AND SIZES OF ALL EXISTING PUBLIC AND/OR PRIVATE UTILITIES IN THE PROJECT AREA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR WITH A REPRESENTATIVE OF THE APPROPRIATE PUBLIC AND/OR PRIVATE UTILITY. CONTRACTOR SHALL NOTIFY THE 811 SYSTEM AT 1-800-245-4848 OR 811 OR WV811.COM AND SHALL HAVE ALL UTILITIES MARKED IN THE PROJECT AREA PRIOR TO COMMENCING EXCAVATION. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THE INCONVENIENCE OR DELAY RESULTING FROM HAVING TO WORK AROUND EXISTING UTILITIES EITHER SHOWN IN THE PLANS OR NOT SHOWN IN THE PLANS AND DISCOVERED DURING CONSTRUCTION.
3. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS PROVIDED IN A SEPARATE BOUND VOLUME.
4. CONFIRM ALL DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING MATERIALS AND/OR MAKING CONNECTIONS.
5. NEATLY SAWCUT ALL HOT MIXED ASPHALT AND/OR PORTLAND CEMENT CONCRETE PAVEMENTS PRIOR TO AND AS PART OF EXCAVATION.
6. ALL CONSTRUCTION SHALL BE PERFORMED IN THE PERMITTED PUBLIC RIGHTS-OF-WAY, THE PERMANENT RIGHTS-OF-WAY, AND THE TEMPORARY CONSTRUCTION EASEMENTS OBTAINED FOR THE PROJECT AND DEPICTED IN THE DRAWINGS. IF NO EASEMENTS ARE SHOWN, THE LIMITS OF DISTURBANCE DEPICTED SHALL REPRESENT THE LIMITS OF CONSTRUCTION.
   A. IF WORK IS DEPICTED OUTSIDE OF THESE RIGHTS-OF-WAY AND/OR EASEMENTS, PRESCRIPTIVE RIGHTS HAVE BEEN ASSUMED BY THE PROJECT OWNER. AT THOSE LOCATIONS THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER(S) AT LEAST ONE (1) WEEK IN ADVANCE OF THE PLANNED WORK.
7. ALL TREES AND VEGETATION WITHIN TEMPORARY CONSTRUCTION EASEMENT LIMITS SHALL BE CLEARED (AND GRUBBED IF SO SPECIFIED) UNLESS THE PROPERTY OWNER INDICATES IN WRITING THAT CERTAIN TREES ARE TO REMAIN AND THAT THE PROPERTY OWNER WILL ASSUME ALL RESPONSIBILITIES FOR REMOVAL OF THE TREES IN THE FUTURE. ANY SUCH LETTER FROM THE OWNER SHALL BE SUBMITTED TO THE ENGINEER FOR THE RECORD.
8. WHEN A DISCREPANCY IN THE DRAWINGS AND/OR SPECIFICATIONS SEEMS APPARENT, THE MATTER SHALL BE REVIEWED WITH THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
9. EXCEPT AS NOTED BELOW, THE OWNER HAS OBTAINED ALL APPLICABLE PERMITS FOR THE PROJECT. COPIES OF THE PERMITS SHALL BE PROVIDED TO THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS. CONTRACTOR SHALL OBTAIN ALL BUILDING PERMITS AND PAY ALL FEES ASSOCIATED WITH LOCAL AND STATE CONTRACTOR'S LICENSES AS WELL AS BUSINESS AND OCCUPATION TAXES, AS APPLICABLE.
10. COORDINATE ALL STREAM CROSSINGS SO AS NOT TO DELAY CONSTRUCTION. PERFORM STREAM CROSSINGS IN ACCORDANCE WITH THE PERMITS DURING TIMES OF LOW FLOW AND NON-SPAWNING SEASON.
11. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE ALL STAGING AND STORAGE AREAS AND WASTE AREAS.
12. THE LOCATION OF PROPERTY LINES DEPICTED IN THE PLANS ARE APPROXIMATE BASED ON COUNTY TAX MAPS. WVDOH RIGHTS-OF-WAY ARE APPROXIMATE BASED ON THE RIGHTS-OF-WAY DIMENSIONS PROVIDED BY WVDOH.
13. EXISTING MANHOLE RIM ELEVATIONS THAT HAVE BEEN FIELD SURVEYED MAY SHOW VARIANCES ON PROFILES DUE TO CONTOUR INTERVALS AND ACCURACY STANDARDS OF CONTOUR MAPPING.
14. CONSTRUCT GRAVITY LINES IN REASONABLE CONFORMANCE TO THE DEPTHS AND SLOPES INDICATED IN THE PLANS, BUT IN NO CASE LESS THAN THE PLANNED SLOPE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
15. MAKE FIELD ADJUSTMENTS OF THE LOCATIONS OF SERVICE LINES AND/OR METERS AS APPLICABLE AS DIRECTED BY THE ENGINEER.
16. HORIZONTAL CONTROL DATUM IS NAD 83 WVN. VERTICAL CONTROL DATUM IS NAVD 88.
17. ANY PAVEMENT DISTURBED BY THE CONTRACTOR SHALL BE MILLED AND FILLED AT A MINIMUM DEPTH OF 2", UNLESS OTHERWISE SPECIFIED BY THE OWNER AND/OR ENGINEER. ANY CONCRETE DISTURBED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT FULL DEPTH, UNLESS OTHERWISE SPECIFIED BY THE OWNER AND/OR ENGINEER.
18. ANY SIDEWALK, CURB, OR RAMPS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO MEET THE WVDOH, COUNTY, OR CITY SATISFACTION AT NO ADDITIONAL EXPENSE TO THE OWNER.
19. NO ADDITIONAL COSTS SHALL BE CLAIMED BY THE CONTRACTOR FOR DISPOSAL OF MATERIALS.
20. CONTRACTOR SHALL NOTIFY THE WVDOH DISTRICT AT-LEAST 7-DAYS PRIOR TO IMPEDING TRAFFIC, AND AT-LEAST 48-HOURS NOTICE WHEN TRAFFIC WILL NOT BE IMPEDED.
21. CONTRACTOR SHALL FOLLOW CASE A2, AS SHOWN IN THE WVDOH "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS."
22. IF CONSTRUCTION OF STORM SEWER IS ANTICIPATED TO LAST LONGER THAN 1 DAY, THE USE OF STEEL PLATES WILL BE REQUIRED.
23. ALL DISTURBED AREA ADJACENT TO WV-2 AND 49, HILL RD. SHALL BE RESTORED TO ORIGINAL SLOPES AS THE WERE PRIOR TO CONSTRUCTION.

1

CONSTRUCTION SEQUENCE OF EVENTS:

1. CALL WEST VIRGINIA 811 OR 1-800-245-4848 OR VISIT WV811.COM.
2. PRE-CONSTRUCTION VIDEO OF PROJECT SITE.
3. MOBILIZATION TO PROJECT SITE.
4. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES FOLLOWING THE DETAILS PROVIDED WITHIN THE CONSTRUCTION PLANS.
5. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED SANITARY SEWER NETWORK AS INDICATED WITHIN THE CONSTRUCTION PLANS AND RECONNECT EXISTING SANITARY PIPES AS NECESSARY.
6. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY SURFACE MATERIALS DISTURBED DURING THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER NETWORK.
7. SUBSTANTIAL COMPLETION.
8. COMPLETE PUNCH LIST ITEMS.
9. THE CONTRACTOR SHALL REMOVE EROSION AND SEDIMENT CONTROL MEASURES UPON FINAL STABILIZATION OF THE PROJECT. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS.
10. FINAL COMPLETION AND DEMOBILIZATION.
11. PROJECT CLOSEOUT.

EROSION & SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT MEASURES SHALL BE IN ACCORDANCE WITH WEST VIRGINIA ONLINE BMP MANUAL FOR STANDARD GUIDELINES AND SPECIFICATIONS AVAILABLE AT: HTTP://WWW.DEP.WV.GOV/WWE/PROGRAMS/STORMWATER/CSW/PAGES/ESC_BMP.ASPX
2. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN SHOWN WITHIN THE PLANS AND DETAILED IN THE SPECIFICATIONS.
3. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY AND FINAL SEEDING AS DESCRIBED IN SPECIFICATIONS.
4. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE FOURTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW. INSPECTION FREQUENCY SHALL BE EVERY 4 DAYS & WITHIN 24 HOURS OF A PRECIPITATION EVENT OF 0.25" OR GREATER.
5. TEMPORARY CONSTRUCTION RIGHT-OF-WAY LINE REPRESENTS LIMITS OF DISTURBANCE.
6. WHERE NOT SHOWN, THE LOD IS ASSUMED TO BE 10-FEET WIDE.
7. STORMWATER INLETS & DRAINS MUST BE PROTECTED WITH APPROPRIATE BMP'S.
8. IN AREAS WHERE STORMWATER DRAINAGE WILL NOT FLOW INTO A DESIGNATED ROAD SIDE DITCH, PERIMETER BMP'S MUST BE INSTALLED DOWN SLOPE OF THE DISTURBANCE.
9. ALL BORE PITS OUTSIDE OF CONCRETE OR ASPHALT SURFACES SHALL HAVE BELTED SILT RETENTION FENCE. REFER TO DETAIL SHEETS.

UTILITY AGENCIES SERVING PROJECT AREA

MISS UTILITY
1-800-245-4848

WEST VIRGINIA DIVISION OF HIGHWAYS
DISTRICT #6
1 DOT DRIVE
MOUNDSVILLE, WV 26401-1605
304-843-4000
304-554-4014 (FAX)

ELECTRIC
MON POWER
P.O. BOX 1392
FAIRMONT, WV 26555-1392
1-800-LIGHTSS (1-800-554-4877)

TELEPHONE
FRONTIER
1-800-961-0470

WATER
VILLAGE OF BEECH BOTTOM
WATER DEPARTMENT BOARD
11 THIRD STREET
BEECH BOTTOM, WV 26030
304-394-5545

GAS
MOUNTAINEER GAS COMPANY
1346 COVE ROAD
WEIRTON, WV 26062
304-723-1628

SEWER:
VILLAGE OF BEECH BOTTOM
SANITARY BOARD
11 THIRD STREET
BEECH BOTTOM, WV 26030
304-394-4772

CABLE
COMCAST
1-888-415-4265

RESPONSE TEAMS:

NATIONAL RESPONSE CENTER FOR REPORTING CHEMICAL OR OIL SPILLS
1-800-424-8802

STATE EMERGENCY SPILL NOTIFICATION
1-800-642-3074

AMBULANCE, FIRE, LAW ENFORCEMENT
911

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NO.	BY	DATE	DESCRIPTION
1	AS	6/2/22	ADDENDUM #2

SCALE: AS NOTED
DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:
SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:

THRASHER
800 WHITE OAKS BLVD. P.O. BOX 940
BRIDGEPORT WV 26330
www.thethrashergroup.com
PHONE (304) 624-4108 FAX (304) 624-7831

PHASE No.
CONTRACT No.
PROJECT No. 020-1569

VILLAGE OF BEECH BOTTOM
BEECH BOTTOM STORM
SEWER LINE REPLACEMENT
BROOKE COUNTY, WEST VIRGINIA
GENERAL NOTES

GN1

LAYOUT TAB:
CAD FILE: R:\020\020-1569-FUNDING APPLICATION-VILLAGE OF BEECH BOTTOM-\Drawing\020-1569 - General Notes.dwg
PLOT DATE/TIME: 6/21/2022 12:33 PM
USER: andrew sayre

CONDITIONS OF WORK

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ACT, STATE, COUNTY, AND ALL OTHER APPLICABLE LAWS AND REGULATIONS. ALL WORK, AT ALL TIMES SHALL BE SUBJECT TO OBSERVATION BY THE OWNER AND/OR THEIR REPRESENTATIVE. ALL WORK SHALL COMPLY WITH THE CONDITIONS OF THE CONTRACT DOCUMENTS AND WEST VIRGINA DEP, AND STANDARDS OF THE OWNER. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, AND APPLICABLE CITY, COUNTY, STATE AND FEDERAL CODES.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES TO THE PROJECT SITE. ADJACENT ROADS SHALL BE MAINTAINED AND KEPT CLEAN OF MUD AND OTHER DEBRIS THAT MAY BE CAUSED BY TRAFFIC EXITING THE WORK SITE. THE CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL NECESSARY TRAFFIC CONTROL. TRAFFIC CONTROL SHALL FOLLOW THE MORE STRINGENT GUIDELINES OF THE LOCAL TOWN OR WVDOH AT THE DISCRETION OF THE OWNER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND MAINTAIN FACILITIES FOR A CONSTRUCTION OFFICE, EMPLOYEE PARKING, AND EMPLOYEE SANITARY FACILITIES. ON STREET PARKING WILL NOT BE PERMITTED. THE CONTRACTOR SHALL PROVIDE FOR THE LAWFUL OFF-SITE DISPOSAL OF DEMOLITION DEBRIS AND CONSTRUCTION WASTE.

CONTRACTOR AVAILABILITY

THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A 24 HOUR PHONE NUMBER WHERE THE CONTRACTOR SHALL BE AVAILABLE FOR EMERGENCIES.

EXISTING DATA

EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND BECOME THOROUGHLY FAMILIARIZED WITH THE SITE PRIOR TO BID SUBMISSION.

EXISTING STRUCTURES, GRADES, PIPING, ETC. ARE INDICATED IN APPROXIMATE LOCATION ON THE PLAN. INFORMATION SHOWN IS NOT GUARANTEED TO BE CORRECT AND COMPLETE. THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.

EXISTING UNDERGROUND UTILITIES SHOWN ARE RECORDS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE ONLY. SERVICE LATERALS ARE NOT SHOWN.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNER, PRIOR TO BID OPENING, OF NON-CONFORMING OR CONFLICTING INFORMATION.

SUBSURFACE CONDITIONS

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING THEIR BID. PROSPECTIVE BIDDERS ARE TO COORDINATE WITH THE OWNER FOR ACCESS TO THE SITE FOR INSPECTIONS AND EXPLORATORY EXCAVATION. THE BIDDER SHALL CONTACT THE OWNER AT LEAST 72 HOURS IN ADVANCE OF THE DESIRED INSPECTION OR EXCAVATION. THE BIDDER SHALL CONTACT WEST VIRGINIA 811 AND OBTAIN LOCATIONS OF OTHER UTILITIES.

QUANTITIES

QUANTITIES ARE INDICATED FOR COMPARISON OF BIDS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY QUANTITIES BEFORE ORDERING MATERIALS. VARIATIONS FROM THE PLAN QUANTITIES SHALL BE APPROVED BY THE OWNER BEFORE MATERIAL ORDERS ARE PLACED. MATERIALS REJECTED DUE TO INCOMPATIBILITY BETWEEN ORDERED QUANTITIES AND FIELD CONDITIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

PRESERVATION OF EXISTING UTILITY SERVICES & PRIVATE PROPERTY

ANY EXISTING WATER LINE, SANITARY SEWER, STORM SEWER, GAS LINE, OR OTHER UTILITY IN OR OUTSIDE OF THE CONSTRUCTION LIMITS, DAMAGED DURING CONSTRUCTION OF THE PROPOSED PROJECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE, OR DESTROY ANY SIGNS, PROPERTY PINS, LANDSCAPING ITEMS, ETC. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.

ACCESSIBILITY TO PRIVATE PROPERTY

ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN OR ADJACENT TO THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. THE TRENCH SHALL BE BACKFILLED AT THE END OF EACH WORK DAY TO PROVIDE ACCESS. THE CONTRACTOR MUST NOTIFY EACH PROPERTY OWNER AT LEAST 24 HOURS IN ADVANCE OF CUTTING THEIR DRIVEWAY.

REMOVAL AND RELOCATION OF EXISTING UTILITIES

THE CONTRACTOR IS REQUIRED TO COOPERATE WITH EACH RESPECTIVE UTILITY OWNER FOR THE REMOVAL AND RELOCATION OF ANY AND ALL UTILITIES THAT CREATE A CONFLICT WITH CONSTRUCTION OF THE PROJECT.

CROSSING OR CONNECTING TO EXISTING PIPES AND UTILITIES

WHERE THE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE OWNER AND THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

PAYMENT FOR THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT CONDUIT ITEM.

REVIEW OF SANITARY AND DRAINAGE FACILITIES

AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK SHALL BE COMPLETED BEFORE WORK HAS COMMENCED AND AFTER WORK HAS COMPLETED. FINAL ACCEPTANCE BY OWNER WILL NOT OCCUR UNTIL AFTER SAID INSPECTION. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE OBSERVATIONS SHALL BE PROVIDED IN WRITING BY THE CONTRACTOR TO THE OWNER.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.
ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT SANITARY AND DRAINAGE ITEMS.

ABANDONING SANITARY SEWER

WHERE SANITARY SEWER STRUCTURES OR PIPES ARE REMOVED FROM THE NETWORK, VIA A PIPE CONNECTION BEING REMOVED, THE PREVIOUS CONNECTION POINT WILL BE SEALED WATER TIGHT USING MORTAR. THE SANITARY FLOW IS TO BE DIRECTED TO THE EXISTING SANITARY SEWER.

CONTRACTOR'S EQUIPMENT - OPERATION STORAGE

A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE RIGHT-OF-WAY. THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE OWNER. NO EQUIPMENT SHALL BE PARKED IN THE MEDIAN OF THE HIGHWAY. ADEQUATE BARRICADES AND LIGHTS SHALL BE PLACED ON THE PAVEMENT SIDE OF THE EQUIPMENT TO IDENTIFY THE LIMITS OF THE EQUIPMENT. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE STOCKPILED AND STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS OR OTHER CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS TO BE COMPLETED. SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, AND NATURAL WATERCOURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF THE WORK, ALL MATERIAL STOCKPILES SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER. ALL EXCAVATED WASTE MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE, AS DIRECTED BY THE ENGINEER. THE WASTE SITE SHALL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER, UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS, ALONG WITH A LETTER FROM THE PROPOSED WASTE SITE OWNER.

BITUMINOUS MATERIAL

THE RATE OF APPLICATION OF THE BITUMINOUS MATERIAL SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE OWNER. QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.08 GALLONS PER SQUARE YARD OF BITUMINOUS MATERIAL FOR ESTIMATING PURPOSES ONLY.

RESTORATION

ALL SOIL AREAS DISTURBED BY THE CONTRACTOR SHALL BE TOPSOILED, SEEDED, AND MULCHED. CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS. CONTRACTOR TO USE HOT APPLIED JOINT CRACK SEALER ON ASPHALT PAVEMENT AT ALL ENDS AND INTERSECTIONS.

TOPSOIL, SEEDING, AND MULCHING

TOPSOIL, SEEDING, AND MULCHING SHALL BE APPLIED TO ALL EXPOSED SOIL AREAS DISTURBED DURING CONSTRUCTION.

THE OWNER SHALL APPROVE SEED MIX PRIOR TO APPLICATION TO BE USED THROUGHOUT CONSTRUCTION LIMITS.

MAINTAINING TRAFFIC

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING AND MAINTAINING SAFE AND EFFECTIVE TRAFFIC CONTROL 24 HOURS A DAY FOR THE DURATION OF THIS PROJECT. ALL TRAFFIC CONTROL DEVICES (PAVEMENT MARKINGS, SIGNS, BARRELS, CONES, ETC.) SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.

CONTRACTOR SHALL NOTIFY THE WVDOH DISTRICT AT-LEAST 7-DAYS PRIOR TO IMPEDING TRAFFIC, AND AT-LEAST 48-HOURS NOTICE WHEN TRAFFIC WILL NOT BE IMPEDED.
CONTRACTOR SHALL FOLLOW CASE A2, AS SHOWN IN THE WVDOH "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS."
IF CONSTRUCTION OF STORM SEWER IS ANTICIPATED TO LAST LONGER THAN 1 DAY, THE USE OF STEEL PLATES WILL BE REQUIRED.

1

FINAL APPROVAL

A VIDEO IN THE FORM INDICATED WITHIN THE SPECIFICATIONS WILL BE MADE BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO THE PROJECT COMMENCING. AFTER THE FINAL INVOICE IS SUBMITTED THE SITE SHALL BE VIDEOED AGAIN BY THE CONTRACTOR. ANY DISCREPANCIES WILL BE RESOLVED PRIOR TO FINAL PAYMENT. AS BUILT DRAWINGS SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER IN A CLEAR AND LEGIBLE MANNER PRIOR TO FINAL INVOICE.

COST OF THIS WORK SHALL BE INCLUDED IN ITEM SPECIAL - VIDEO TAPING OF PROJECT AREA.

CONSTRUCTION LAYOUT STAKING

COSTS FOR ADDITIONAL CONSTRUCTION LAYOUT STAKING, BEYOND WHAT IS INDICATED WITHIN THE SPECIFICATIONS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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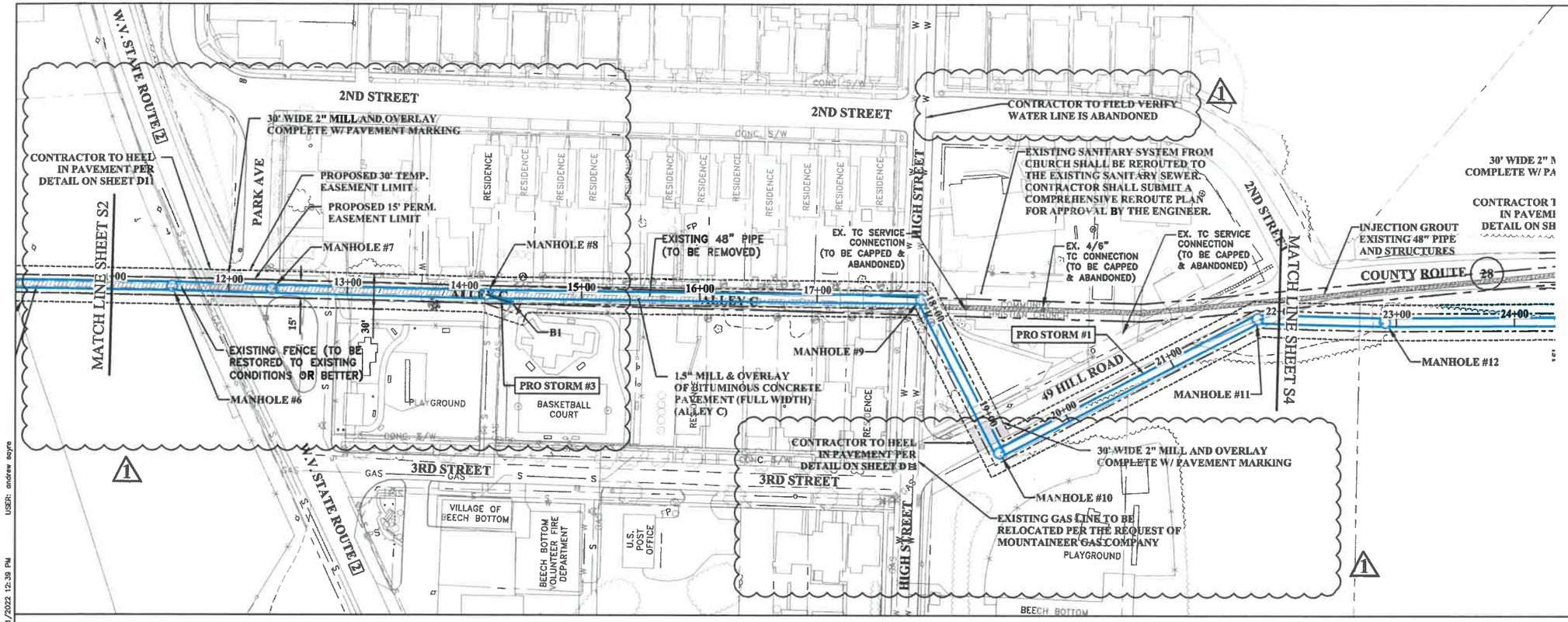
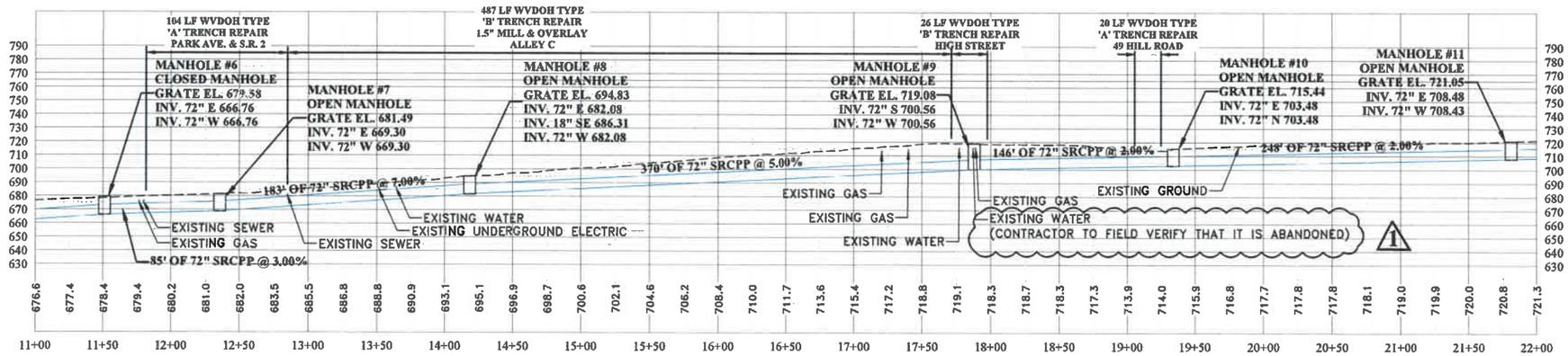
PHASE No.
CONTRACT No.
PROJECT No. 020-1569

VILLAGE OF BEECH BOTTOM
BEECH BOTTOM STORM
SEWER LINE REPLACEMENT
BROOKE COUNTY, WEST VIRGINIA
GENERAL NOTES

GN2



PRO STORM 1 PROFILE



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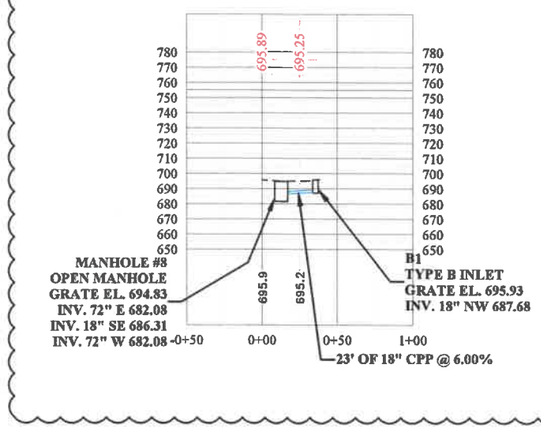

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PHASE No.
CONTRACT No.
PROJECT No. 020-1569

VILLAGE OF BEECH BOTTOM
BEECH BOTTOM STORM SEWER LINE REPLACEMENT
BROOKE COUNTY, WEST VIRGINIA
PLAN & PROFILE SHEET

S3

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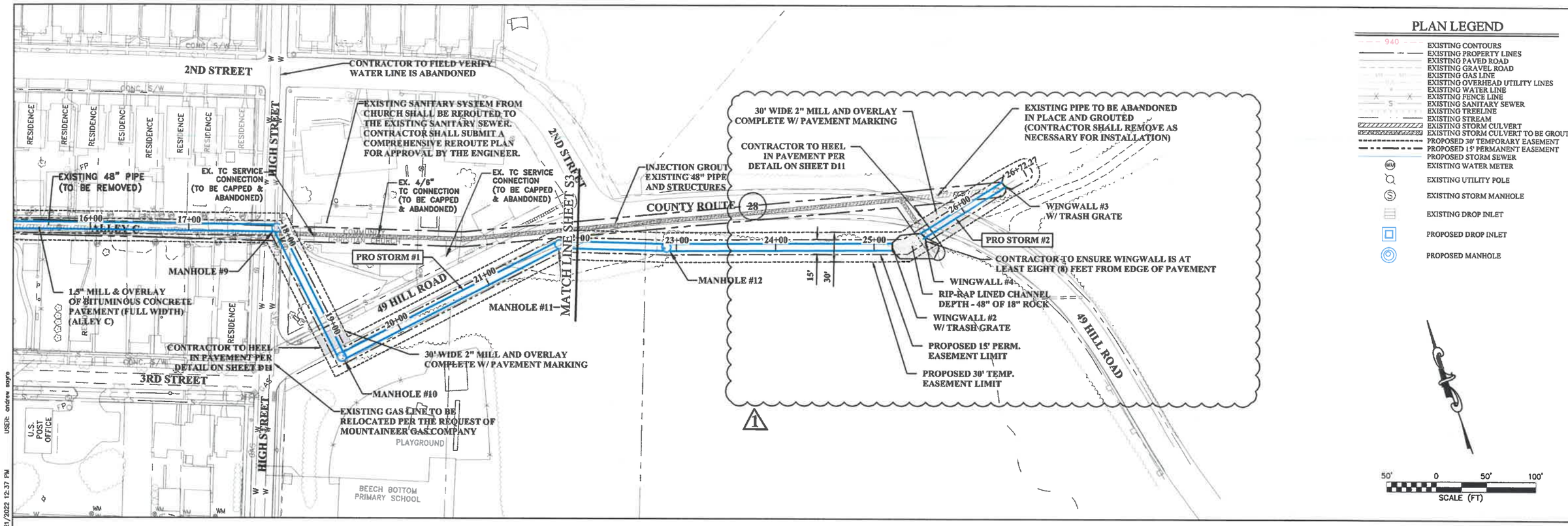
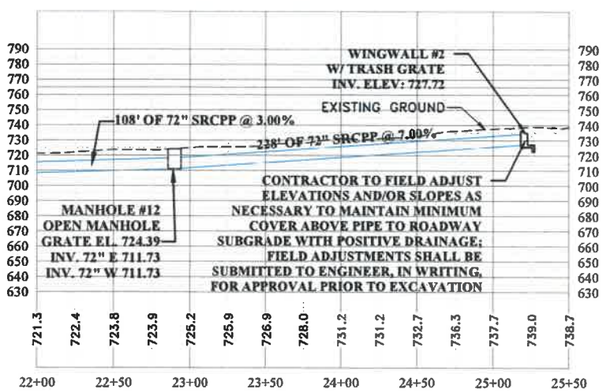


PLAN LEGEND

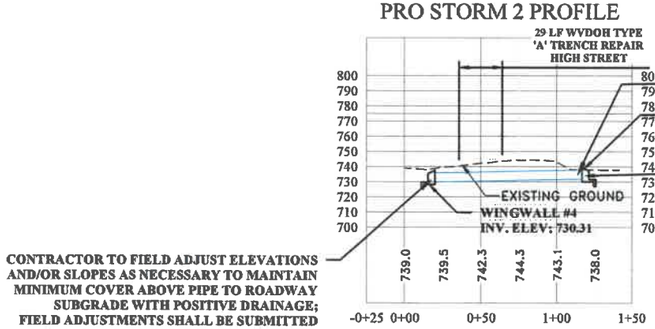
- EXISTING CONTOURS
- EXISTING PROPERTY LINES
- EXISTING PAVED ROAD
- EXISTING GRAVEL ROAD
- EXISTING GAS LINE
- EXISTING OVERHEAD UTILITY LINES
- EXISTING WATER LINE
- EXISTING FENCE LINE
- EXISTING SANITARY SEWER
- EXISTING TREELINE
- EXISTING STREAM
- EXISTING STORM CULVERT
- EXISTING STORM CULVERT TO BE GROUTED
- PROPOSED 30' TEMPORARY EASEMENT
- PROPOSED 15' PERMANENT EASEMENT
- PROPOSED STORM SEWER
- EXISTING WATER METER
- EXISTING UTILITY POLE
- EXISTING STORM MANHOLE
- EXISTING DROP INLET
- PROPOSED DROP INLET
- PROPOSED MANHOLE

50' 0 50' 100'
SCALE (FT)

PRO STORM 1 PROFILE



PRO STORM 2 PROFILE



50'
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1	AS	6/21/22	ADDENDUM #2

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PROJECT No.	020-1569

VILLAGE OF BEECH BOTTOM
BEECH BOTTOM STORM SEWER LINE REPLACEMENT
BROOKE COUNTY, WEST VIRGINIA
PLAN & PROFILE SHEET

S4

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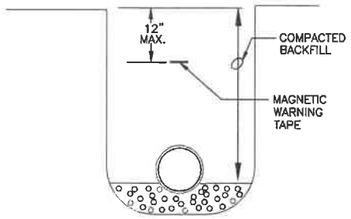
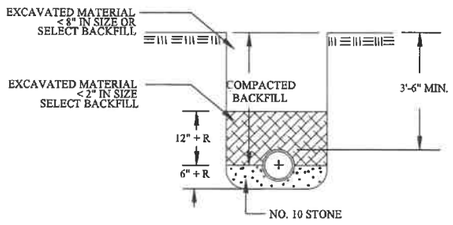
USER: andrew agyo

RED	ELECTRIC
YELLOW	GAS – OIL
ORANGE	TELEPHONE
BLUE	WATER
GREEN	SEWER

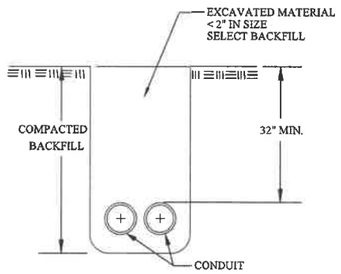
COLOR CODES FOR UTILITY LOCATING MAGNETIC WARNING TAPE



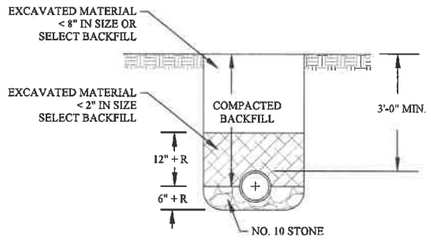
UTILITY MAGNETIC WARNING TAPE



BEDDING FOR WATER PIPE



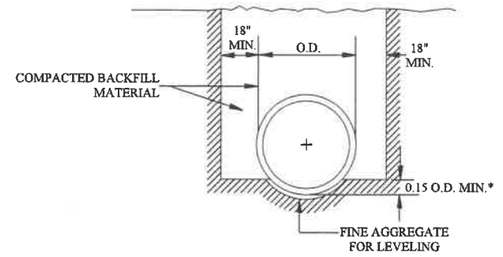
BEDDING FOR CONDUIT FOR ELECTRIC



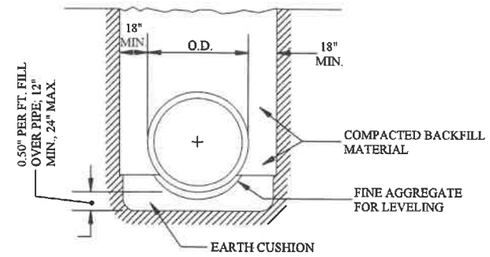
BEDDING FOR SEWER PIPE

NOTES:
1. PROVIDE NYLON PULL STRINGS AND CAPS IN EACH CONDUIT.
2. INSTALL PER INDIVIDUAL UTILITY SPECIFICATIONS.
3. MAINTAIN MINIMUM SEPARATION AS REQUIRED BY EACH UTILITY AND BY CODE.
4. PIPE SHALL NOT BE INSTALLED DIRECTLY ON BEDROCK.
5. WATERLINE SHALL BE INSTALLED WITH MINIMUM 4' SEPARATION FROM OTHER UTILITY LINES (ELECTRIC, GAS, COMMUNICATIONS). WATERLINE AND SEWER SHALL BE SEPARATED 10' HORIZONTALLY AND 18" VERTICALLY.
6. CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY OWNER TO VERIFY BEDDING REQUIREMENTS.

TYPICAL CROSS SECTIONS OF TRENCHES
NOT TO SCALE

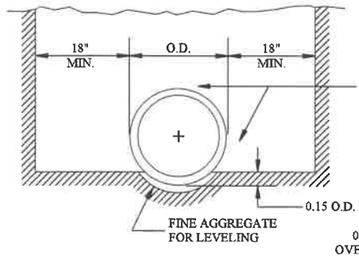


CLASS B BEDDING



CLASS B BEDDING
ON ROCK FOUNDATION

TRENCH SHOWN IS FOR 18" THRU 54" PIPE



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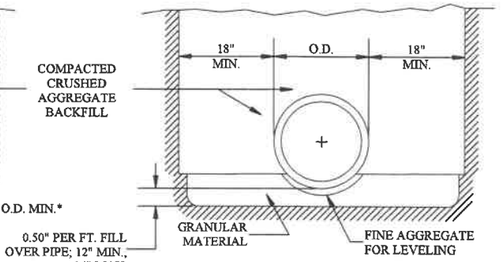
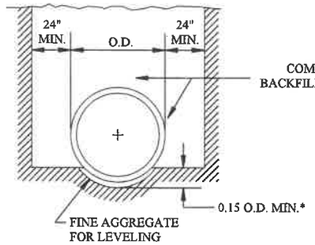


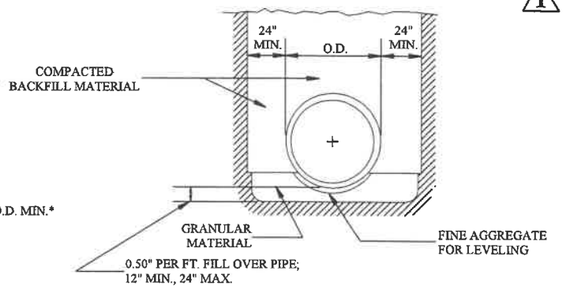
CLASS B BEDDING
ON ROCK FOUNDATION

TRENCH SHOWN IS FOR 60" THRU 108" FLEXIBLE PIPE IN SOIL CUT/FILL SECTIONS

1



CLASS B BEDDING



CLASS B BEDDING
ON ROCK FOUNDATION

TRENCH SHOWN IS FOR 60" THRU 108" RIGID PIPE IN CUT SECTIONS

TYPICAL STORM PIPE BEDDING
NOT TO SCALE

* EXCEPT FOR STRUCTURAL PLATEPIPE WHERE LENGTH OF BEDDING ARC NEED NOT EXCEED WIDTH OF BOTTOM PLATE. HOWEVER, IF STRUCTURAL PLATE PIPE IS FIRST ASSEMBLED AND THEN PLACED IN THE TRENCH, THE 0.15 O.D. MINIMUM VALUE WILL APPLY.

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PROJECT No. 020-1569

VILLAGE OF BEECH BOTTOM
BEECH BOTTOM STORM SEWER LINE REPLACEMENT
BROOKE COUNTY, WEST VIRGINIA
DETAILS

D8

LAYOUT TAB:
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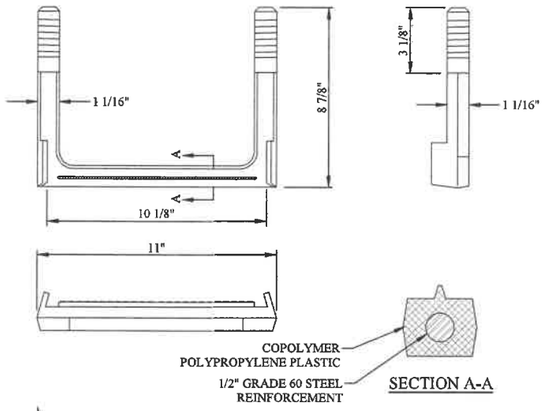
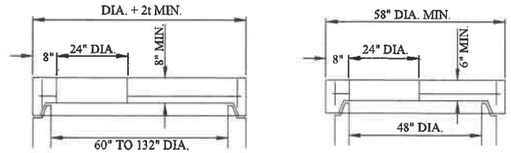


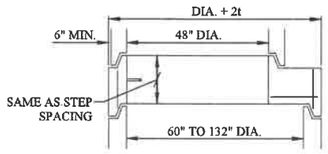
NOTES:

1. MANHOLE STEPS SHALL BE IMPACT RESISTANT CO-POLYMER POLYPROPYLENE PLASTIC MOLDED AROUND 1/2" DIAMETER GRADE 60 REINFORCED STEEL. STEPS SHALL BE STANDARD BLACK IN COLOR AND SHALL HAVE NON-SLIP TREAD ON BOTH SIDES.
2. TOP STEP SHALL NOT BE GREATER THAN 2'-0" FROM TOP OF MANHOLE.
3. LANDING TO BOTTOM STEP SHALL NOT BE GREATER THAN 2'-0".
4. STEPS MEET: ASTM C-478 / ASTM D-4101 / ASTM A-615 / AASHTO M-199

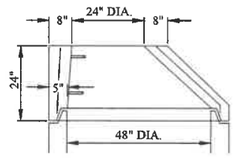
MANHOLE STEP
NOT TO SCALE



FLAT SLAB TOP
NOT TO SCALE

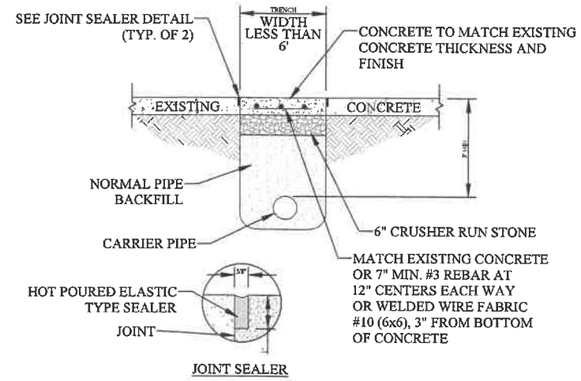


FLAT SLAB TRANSITION
NOT TO SCALE



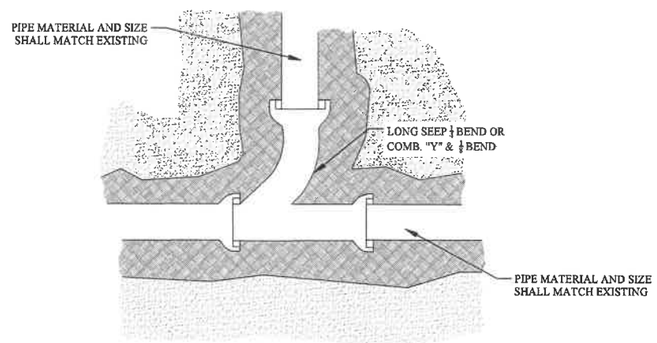
ALTERNATE ECCENTRIC CONE TOP
NOT TO SCALE

STREET, ROAD, AND DRIVEWAY REPAIR NOT IN WVDOH RIGHTS OF WAY



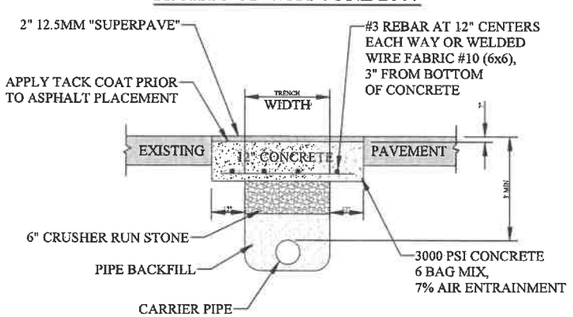
NOTE: ALL CONCRETE TO BE MINIMUM 3000 PSI, 6 BAG MIX, 7% AIR ENTRAINED

CONCRETE PAVEMENT
NOT TO SCALE



WYE CONNECTION DETAIL
NOT TO SCALE

ACCOMMODATION OF UTILITIES ON WV DIVISION OF HIGHWAYS RIGHTS OF WAY JUNE 2007



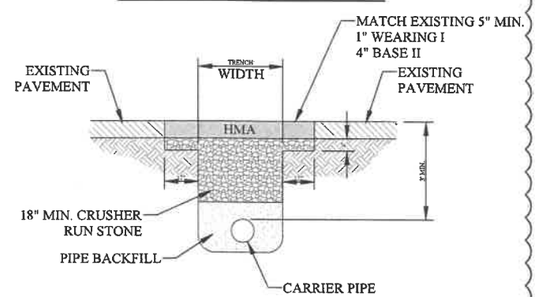
WVDOH TYPE "A" TRENCH REPAIR
NOT TO SCALE

MIX PAVEMENT
PRESENT AVERAGE DAILY TRAFFIC OVER 2000 OR LOWER-VOLUME ROADS WITH HEAVY TRUCK TRAFFIC (20 PER DAY)

NOTE: CONCRETE TO BE ROUGH FOR BONDING OF HMA

NOTES: 1) WHERE TYPE "A" TRENCHES ARE WIDER THAN 7' IN EXISTING BITUMINOUS PAVEMENT, CONCRETE MAY BE DELETED IF EXISTING HMA THICKNESS AND 18" STONE ARE RESTORED.
2) TRAFFIC IS TO BE MAINTAINED AT ALL TIMES BY THE USE OF APPROPRIATE TRAFFIC CONTROL DEVICES. USE OF METAL PLATES, HAVING SUFFICIENT RIGIDITY TO SPAN TYPE "A" TRENCH, IS REQUIRED TO PREVENT WHEEL LOADS FROM BEING TRANSMITTED TO THE CONCRETE FLOWABLE FILL. THE PLATES ARE TO BE SECURELY ANCHORED TO PREVENT MOVEMENT CAUSED BY TRAFFIC. THE PLATES ARE TO BE LEFT IN PLACE UNTIL THE CONTROLLED LOW STRENGTH MATERIAL HAS ATTAINED 50% OF IT'S COMPRESSIVE STRENGTH.

ACCOMMODATION OF UTILITIES ON WV DIVISION OF HIGHWAYS RIGHTS OF WAY JUNE 2007



WVDOH TYPE "B" TRENCH REPAIR
NOT TO SCALE

HMA PAVEMENT
PRESENT AVERAGE DAILY TRAFFIC UNDER 2000 UNLESS HEAVY TRUCK TRAFFIC DEFINED AS 20 TANDEM-AXLE TRUCKS PER DAY, IS EVIDENT

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PHASE No.
CONTRACT No.
PROJECT No. 020-1569

VILLAGE OF BEECH BOTTOM
BEECH BOTTOM STORM
SEWER LINE REPLACEMENT
BROOKE COUNTY, WEST VIRGINIA
DETAILS

D10

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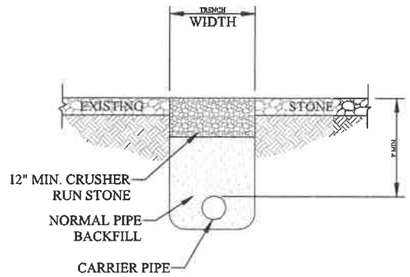
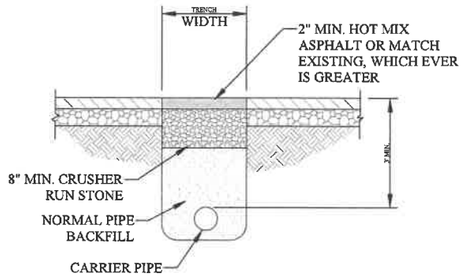
USER: andrew sayre

STREET, ROAD, AND DRIVEWAY REPAIR NOT IN WVDOH RIGHTS OF WAY

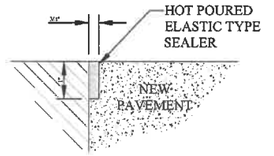


STONE ROADWAYS
NOT TO SCALE

STREET, ROAD, AND DRIVEWAY REPAIR NOT IN WVDOH RIGHTS OF WAY

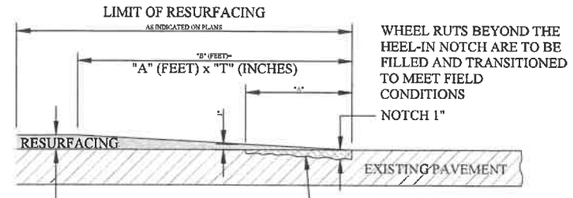


ASPHALT PAVEMENT
NOT TO SCALE



NOTES: 1) EXISTING PAVEMENT TO BE SAWED LOAD TRANSFER PROVISIONS MAY BE REQUIRED.
2) ALL CONCRETE TO BE A MINIMUM 3000 PSI, 6 BAG MIX, AIR ENTRAINED.

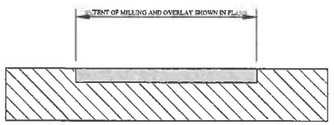
JOINT SEALER DETAIL
NOT TO SCALE



NOTES: 1) PAYMENT FOR HEEL-INS TO BE INCLUDED IN THE COST OF RESURFACING.
2) THIS DETAIL TO BE USED AT THE TERMINATION OF PROJECT.

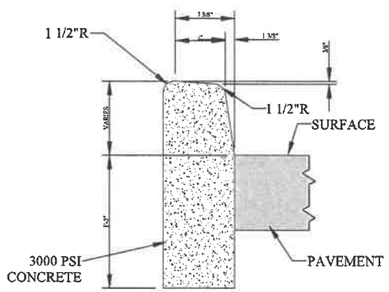
POSTED SPEED LIMIT	"A"
25 MPH	12
30 TO 45 MPH	14
40 TO 45 MPH	16
50 TO 55 MPH	18

RESURFACING HEEL-IN DETAIL
NOT TO SCALE

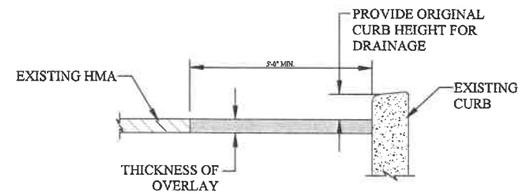


1. MILL TOP 2" OF EXISTING ASPHALT PAVEMENT TO DIMENSIONS SHOWN IN PLANS.
2. APPLY TACK COAT AT RATE(S) REQUIRED IN WVDOH STANDARD SPECIFICATIONS TABLE 408.11.
3. FURNISH AND INSTALL 2" THICK MARSHALL ASPHALT PAVEMENT WEARING MIX TYPE 1.

MILLING AND OVERLAY DETAIL
NOT TO SCALE



CONCRETE CURBING
NOT TO SCALE



NOTE: ALL MILLING AND GRINDING TO BE INCLUDED IN OVERLAY COST

MILL OR GRINDING DETAIL
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LAYOUT TAB:
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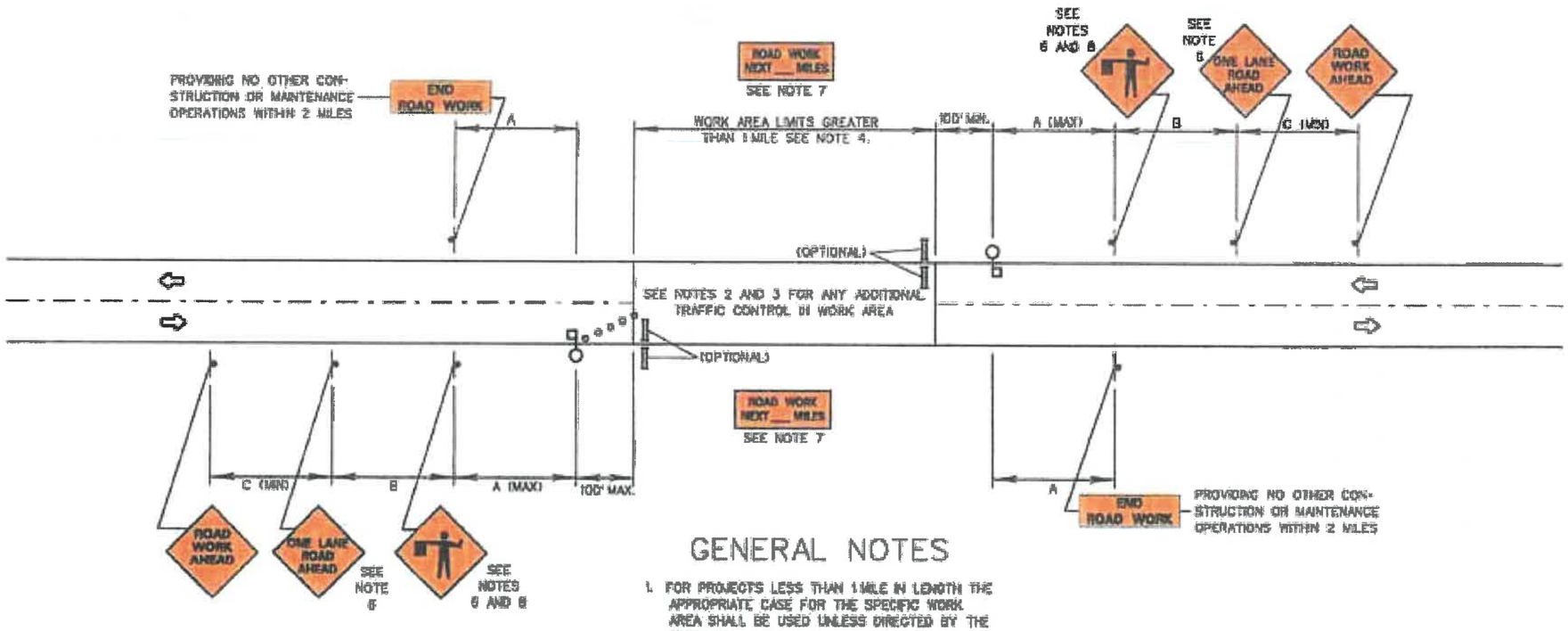

SYMBOLS

- WORK AREA.
- SIGN
- TYPE III BARRICADE
- SIGN ON PORTABLE OR PERMANENT SUPPORT.
- FLAGGER WITH PADDLE

TYPICAL APPLICATIONS

RESURFACING
WIDENING
ROADWAY STABILIZATION
SHOULDER STABILIZATION

GENERAL NOTES

1. FOR PROJECTS LESS THAN 1 MILE IN LENGTH THE APPROPRIATE CASE FOR THE SPECIFIC WORK AREA SHALL BE USED UNLESS DIRECTED BY THE ENGINEER.
2. ADDITIONAL TRAFFIC CONTROL IN THE WORK AREA MAY BE NECESSARY. TYPE OF CONTROL WILL BE DETERMINED BY WORK BEING PERFORMED. REFER TO CASE THAT IS APPLICABLE. (EXAMPLE: CASE A6).
3. WHERE THE WORK AREA EXTENDS THROUGH AN INTERSECTION, ADDITIONAL WARNING SIGNS AND TRAFFIC CONTROL (SUCH AS CASE A6) SHALL BE PROVIDED FOR THAT APPROACH.
4. THE MAXIMUM CLOSURE DISTANCE SHALL BE DETERMINED BY THE ENGINEER, BUT SHALL NOT EXCEED THE LENGTH OF ½ DAYS OPERATION OR TWO MILES, WHICHEVER IS LESS.
5. THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATIONS AT ALL TIMES.
6. WHEN SUCH SIGNS ARE NO LONGER FUNCTIONAL, E.G. NIGHTTIME, SUCH SIGNS SHALL BE COVERED OR REMOVED.
7. SUCH SIGNS SHALL BE ERECTED AS DIRECTED BY THE ENGINEER BUT NORMALLY SHALL BE ERECTED AT ½ MILE INCREMENTS FOR PROJECTS GREATER THAN 2 MILES IN LENGTH.
8. CONTROLS THE OPERATIONS OF PILOT TRUCK IF APPLICABLE.
9. FLASHING WARNING LIGHTS AND/OR FLAGS MAY BE USED TO CALL ATTENTION TO THE ABOVE WARNING SIGNS, AS NEEDED ON THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER.

SUGGESTED ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS (IN FT)		
	A	B	C
URBAN (LOW SPEED)*	100	100	100
URBAN (HIGH SPEED)*	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1,000	1,000	2,640

*SPEED CATEGORY TO BE DETERMINED BY WV DOH

CASE A2

TWO-LANE, TWO WAY TRAFFIC DAY OPERATIONS ONLY/TIME IF APPROVED BY THE ENGINEER

WHERE, AT ANY TIME, THE PROJECT LIMITS ARE GREATER THAN 1 MILE.

10. IF CONSTRUCTION OF STORM SEWER IS ANTICIPATED TO LAST LONGER THAN 1 DAY, THE USE OF STEEL PLATES WILL BE REQUIRED.

ADDENDUM #1

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