



ENGINEERING
ARCHITECTURE
FIELD SERVICES

**PADEN CITY MUNICIPAL WATER WORKS
TYLER/WETZEL COUNTY, WEST VIRGINIA**

**WATER SYSTEM IMPROVEMENTS
CONTRACT #1 – PROPOSED WATER LINE REPLACEMENT**

ADDENDUM #1

February 25, 2021

THRASHER PROJECT #010-01202

TO WHOM IT MAY CONCERN:

A Pre-Bid Conference was held on Thursday, February 11, 2021 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.**

B. SPECIFICATIONS

Specification section 012000 has been updated as part of this Addendum.

C. DRAWINGS

Sheets #1-#16 have been updated as part of this Addendum.

D. QUESTIONS AND RESPONSES

QUESTION

1. **Was it mandatory to attend the Pre-Bid Conference?**

RESPONSE

No.

QUESTION

2. Can you please clarify the Tie-In quantities?

RESPONSE

The Tie-In quantities have been updated and can be found in the updated Bid Form. **THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT.**

QUESTION

3. Is there any order the Contract needs completed?

RESPONSE

Yes, the 8" Line from the North Tank site to the South End of the City must be completed first.

QUESTION

4. Is this project subject to any Wage Rates?

RESPONSE

No.

QUESTION

5. Is all asphalt repair in City Streets/Roads?

RESPONSE

No, there is a small portion of repair on WV State Route 2 on Sheet #10.

QUESTION

6. Who is the Funding Agency?

RESPONSE

USDA Rural Development.

QUESTION

7. Are AIS Requirements applicable?

RESPONSE

Yes.

QUESTION

8. Is a Job Trailer required for this Contract?

RESPONSE

Yes, a job trailer is required for this Contract, please see specification section 015000 for Job Trailer Requirements.

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. Bid Items #25-#66 have been revised. **YOU MUST USE THE REVISED BID FORM INCLUDED WITH THIS ADDENDUM WHEN PREPARING YOUR BID PACKAGE.**
3. Deductive Alternatives have been added as part of this Addendum. **YOU MUST USE THE REVISED BID FORM INCLUDED WITH THIS ADDENDUM WHEN PREPARING YOUR BID PACKAGE.**
4. Deductive Alternative Unit Prices shall be the same Unit Prices as used in the Base Bid.
5. The Method of Award has been revised.

If at the time this contract is to be awarded, the lowest total bid submitted by a qualified, responsive, 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.

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), as listed in the contract to produce the lowest bid within the funds available for financing. **The application of Deductive Alternates will NOT change the low bidder for awarding purposes. Deductive alternates on Contract #2 will be applied first.**

6. 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 City of Paden City Water System Improvements Project Contract #1
Proposed Water Line Replacement
Received by the City of Paden City

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

Envelope No. 1 will be opened first and the Bid Opening Requirement items will be 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 be 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.

Sealed Bids for the construction of the Water System Improvements Project will be received by Paden City Municipal Water Works, at the office of The Thrasher Group, Inc, located at 600 White Oaks Blvd, Bridgeport, WV 26330 until 2:00 pm. local time on March 4, 2021 at which time the Bids received will be opened and read via Microsoft Teams teleconference for visual at the following address <https://tinyurl.com/PadenCityBidOpening> or audio at Call-in Number: 1-304-935-0841; Conference Number 394 423 025#.

7. Mailed/Shipped bid packages shall be sent to The Thrasher Group, Inc., 600 White Oaks Blvd, Bridgeport, Harrison County, West Virginia 26330. The Thrasher Group's phone number is (304) 624-4108. Bidders should **not** assume guaranteed early (10:30 am) delivery is available and shall be mailed/shipped in sufficient time. **It is the Bidder's responsibility to deliver the Bid on time.**
8. All work is to be coordinated through the Engineer and the City to ensure no disruption to the existing collection or water distribution system.
9. 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.
10. **Plan Sheets #1-#16 have been revised as part of this Addendum.**

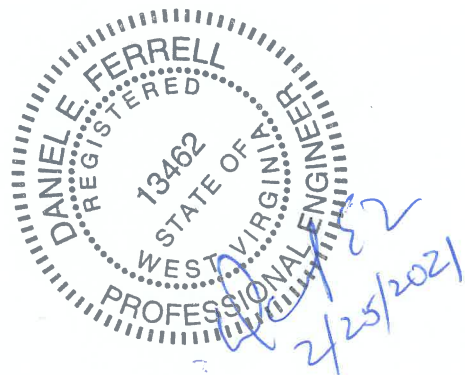
If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until 2:00 p.m. on March 4, 2021 at 600 White Oaks Blvd, Bridgeport, WV 26330. Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

DANIEL E. FERRELL P.E.
Project Manager

Enclosures: Pre Bid Conference Sign In Sheet
C-410 Bid Form
Specification 012000
Plan Sheets



**PADEN CITY MUNICIPAL WATER WORKS
WETZEL/TYLER COUNTIES, WEST VIRGINIA
CONTRACT #1 – PROPOSED WATER LINE REPLACEMENT
CONTRACT #2 – PROPOSED TANK REPLACEMENT**

PRE-BID CONFERENCE

Thursday, February 11, 2021

Thrasher Project #101-010-1202

Name	Representing	Phone #	Email Address
Dan Ferrell	TTG		
Logan Alastanos	TTG		
Phil Lantz	TTG		
Cody Turner	TTG		
Larry Morris	McK Const		
Tony Chason	J F Allen		
Rob Laton	FAMCO		
Kyle Piatt	Bear Contracting		
Mid Atlantic Storage Systems			

Name	Representing	Phone #	Email Address
Frank	James White Const		
Chris Combs	AJ Hughes		
Jim	Caliber Contracting		
Harry Taylor	USDA		
Josh	Paden City		
Jeremy White	Specialty Groups		
Fred Rader	MOVRC		
Will	Alex Paris		

**PADEN CITY MUNICIPAL WATER WORKS
TYLER/WETZEL COUNTIES, WEST VIRGINIA
PROPOSED
WATER SYSTEM IMPROVEMENT PROJECT
CONTRACT #1 – PROPOSED WATER LINE REPLACEMENT
THRASHER PROJECT #010-01202**

BID FORM

ARTICLE 1 – BID RECIPIENT

- 1.01 This Bid is submitted to:

*Paden City Municipal Water Works
208 West Main Street
Paden City, WV 26159*

- 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 and including all AIS requirements.

- 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 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 execution of the Contract.

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 Water System Improvement Project – Contract #1-Proposed Water Line Replacement. 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
WATER SYSTEM IMPROVEMENT PROJECT
CONTRACT #1-PROPOSED WATER LINE REPLACEMENT
FOR THE

PADEN CITY MUNICIPAL WATER WORKS
TYLER/WETZEL COUNTIES, WEST VIRGINIA

THRASHER PROJECT #010-01202**

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.

		Description with Unit Price		Unit Price	Total Price
Item	Quantity	Written			
1	LS	Mobilization/Demobilization			
			Dollars		
			Cents		

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
2	LS	Erosion and Sediment Control		
			Dollars	
			Cents	
3	50	Test Pit		
	EA		Dollars	
			Cents	
4	6,700	8" Water Line 235 psi		
	LF		Dollars	
			Cents	
5	9,500	6" Water Line 235 psi		
	LF		Dollars	
			Cents	
6	40	6" Ductile Iron CL-50 P.JT. Water Pipe		
	LF		Dollars	
			Cents	
7	200	4" Water Line 235 psi		
	LF		Dollars	
			Cents	
8	200	2" Water Line 235 psi		
	LF		Dollars	
			Cents	
9	14	8" M.JT. Gate Valve, Complete W/ Box And Lid		
	EA		Dollars	
			Cents	
10	1	8" M.JT. Gate Valve, Complete With Box And Lid, Installed On Existing 8" PVC Water Line		
	EA		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
11	27 EA	6" M.JT. Gate Valve, Complete W/ Box And Lid	Dollars Cents	
12	4 EA	6" M.JT. Gate Valve, Complete With Box And Lid, Installed On Existing 6" AC Water Line	Dollars Cents	
13	5 EA	4" M.JT. Gate Valve, Complete W/ Box And Lid	Dollars Cents	
14	16 EA	Fire Hydrant Assembly, Complete In Place	Dollars Cents	
15	15 EA	Remove And Replace Existing Fire Hydrant, Complete	Dollars Cents	
16	16 EA	Remove Existing Fire Hydrant	Dollars Cents	
17	1 EA	2" Hidden Flushing Hydrant Assembly, Complete	Dollars Cents	
18	320 EA	Reconnection of Existing Customer Service, Complete	Dollars Cents	
19	6,700 LF	3/4" Polyethylene SDR-9 Service Tubing (Open Cut)	Dollars Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
20	300	3/4" Polyethylene SDR-9 Service Tubing (Bore and Jack)		
	LF		Dollars	
			Cents	
21	80	1" Polyethylene SDR-9 Service Tubing (Open Cut)		
	LF		Dollars	
			Cents	
22	45	16" Steel Casing (Bore & Jack) including Casing Spacers		
	LF		Dollars	
			Cents	
23	75	12" Steel Casing (Open Cut)		
	LF		Dollars	
			Cents	
24	34	Abandon Existing Valve, Complete		
	EA		Dollars	
			Cents	
25	1	Tie In Assembly #1, Complete As Shown on Sheet 1		
	LS		Dollars	
			Cents	
26	1	Tie In Assembly #2, Complete As Shown on Sheet 1		
	LS		Dollars	
			Cents	
27	1	Tie In Assembly #3, Complete As Shown on Sheet 2		
	LS		Dollars	
			Cents	
28	1	Tie In Assembly #4, Complete As Shown on Sheet 3		
	LS		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
29	1	Tie In Assembly #5, Complete As Shown on Sheet 3		
	LS		Dollars	
			Cents	
30	1	Tie In Assembly #6, Complete As Shown on Sheet 3		
	LS		Dollars	
			Cents	
31	1	Tie In Assembly #7, Complete As Shown on Sheet 4		
	LS		Dollars	
			Cents	
32	1	Tie In Assembly #8, Complete As Shown on Sheet 4		
	LS		Dollars	
			Cents	
33	1	Tie In Assembly #9, Complete As Shown on Sheet 4		
	LS		Dollars	
			Cents	
34	1	Tie In Assembly #10, Complete As Shown on Sheet 4		
	LS		Dollars	
			Cents	
35	1	Tie In Assembly #11, Complete As Shown on Sheet 5		
	LS		Dollars	
			Cents	
36	1	Tie In Assembly #12, Complete As Shown on Sheet 5		
	LS		Dollars	
			Cents	
37	1	Tie In Assembly #13, Complete As Shown on Sheet 5		
	LS		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
38	1	Tie In Assembly #14, Complete As Shown on Sheet 6		
	LS		Dollars	
			Cents	
39	1	Tie In Assembly #15, Complete As Shown on Sheet 6		
	LS		Dollars	
			Cents	
40	1	Tie In Assembly #16, Complete As Shown on Sheet 6		
	LS		Dollars	
			Cents	
41	1	Tie In Assembly #17, Complete As Shown on Sheet 7		
	LS		Dollars	
			Cents	
42	1	Tie In Assembly #18, Complete As Shown on Sheet 7		
	LS		Dollars	
			Cents	
43	1	Tie In Assembly #19, Complete As Shown on Sheet 8		
	LS		Dollars	
			Cents	
44	1	Tie In Assembly #20, Complete As Shown on Sheet 8		
	LS		Dollars	
			Cents	
45	1	Tie In Assembly #21, Complete As Shown on Sheet 9		
	LS		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
46	1	Tie In Assembly #22, Complete As Shown on Sheet 10		
	LS		Dollars	
			Cents	
47	1	Tie In Assembly #23, Complete As Shown on Sheet 10		
	LS		Dollars	
			Cents	
48	1	Tie In Assembly #24, Complete As Shown on Sheet 10		
	LS		Dollars	
			Cents	
49	1	Tie In Assembly #25, Complete As Shown on Sheet 10		
	LS		Dollars	
			Cents	
50	1	Tie In Assembly #26, Complete As Shown on Sheet 11		
	LS		Dollars	
			Cents	
51	1	Tie In Assembly #27, Complete As Shown on Sheet 12		
	LS		Dollars	
			Cents	
52	1	Tie In Assembly #28, Complete As Shown on Sheet 12		
	LS		Dollars	
			Cents	
53	1	Tie In Assembly #29, Complete As Shown on Sheet 12		
	LS		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
54	1	Tie In Assembly #30, Complete As Shown on Sheet 13		
	LS		Dollars	
			Cents	
55	1	Tie In Assembly #31, Complete As Shown on Sheet 13		
	LS		Dollars	
			Cents	
56	1	Tie In Assembly #32, Complete As Shown on Sheet 14		
	LS		Dollars	
			Cents	
57	1	Tie In Assembly #33, Complete As Shown on Sheet 14		
	LS		Dollars	
			Cents	
58	1	Tie In Assembly #34, Complete As Shown on Sheet 15		
	LS		Dollars	
			Cents	
59	1	Tie In Assembly #35, Complete As Shown on Sheet 15		
	LS		Dollars	
			Cents	
60	1	Tie In Assembly #36, Complete As Shown on Sheet 15		
	LS		Dollars	
			Cents	
61	1	Tie In Assembly #37, Complete As Shown on Sheet 15		
	LS		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
62	1	Tie In Assembly #38, Complete As Shown on Sheet 15		
	LS		Dollars	
			Cents	
63	1	Tie In Assembly #39, Complete As Shown on Sheet 15		
	LS		Dollars	
			Cents	
64	1	Tie In Assembly #40, Complete As Shown on Sheet 16		
	LS		Dollars	
			Cents	
65	1	Tie In Assembly #41, Complete As Shown on Sheet 16		
	LS		Dollars	
			Cents	
66	1	Tie In Assembly #42, Complete As Shown on Sheet 16		
	LS		Dollars	
			Cents	
67	1	Cut & Plug Existing 8" AC Water Line		
	EA		Dollars	
			Cents	
68	1	Cut & Plug Existing 6" PVC Water Line		
	EA		Dollars	
			Cents	
69	8	Cut & Plug Existing 6" AC Water Line		
	EA		Dollars	
			Cents	
70	3	Cut & Plug Existing 6" CI Water Line		
	EA		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
71	2	Cut & Plug Existing 4" PVC Water Line		
	EA	_____ Dollars		
		_____ Cents	_____	_____
72	11	Cut & Plug Existing 4" AC Water Line		
	EA	_____ Dollars		
		_____ Cents	_____	_____
73	5	Cut & Plug Existing 4" CI Water Line		
	EA	_____ Dollars		
		_____ Cents	_____	_____
74	1	Cut & Plug Existing 2" HDPE Water Line		
	EA	_____ Dollars		
		_____ Cents	_____	_____
75	1	Cut & Plug Existing 2" PVC Water Line		
	EA	_____ Dollars		
		_____ Cents	_____	_____
76	130	WVDOH Shoulder Stone Repair		
	LF	_____ Dollars		
		_____ Cents	_____	_____
77	25	WVDOH ADA Concrete Sidewalk Repair		
	LF	_____ Dollars		
		_____ Cents	_____	_____
78	200	Concrete Driveway/Road Repair		
	LF	_____ Dollars		
		_____ Cents	_____	_____
79	805	Concrete Sidewalk Repair		
	LF	_____ Dollars		
		_____ Cents	_____	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
80	550	Concrete Curb Replacement		
	LF		Dollars	
			Cents	
81	75	Concrete Apron Replacement		
	LF		Dollars	
			Cents	
82	30	WVDOH Type "A" Trench Repair		
	LF		Dollars	
			Cents	
83	10,240	HMA City Street Repair		
	LF		Dollars	
			Cents	
84	55	HMA Driveway/Road Repair		
	LF		Dollars	
			Cents	
85	30	HMA Apron Repair		
	LF		Dollars	
			Cents	
86	30	HMA Curb Replacement		
	LF		Dollars	
			Cents	
87	3,200	2" HMA Overlay, W/ Roto Milling and Paint Markings		
	TN		Dollars	
			Cents	
88	3,500	Gravel Driveway/Road Repair		
	LF		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
89	9,500	Reclamation of Disturbed Areas		
	LF		Dollars	
			Cents	
<hr/>				
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, responsive, 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.

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), as listed in the contract to produce the lowest bid within the funds available for financing. **The application of Deductive Alternates will not change the low bidder for awarding purposes. Deductive alternates on Contract #2 will be applied first.**

- 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.

ORDER OF DEDUCTIVE ALTERNATIVES

NOTICE TO BIDDER: Unit prices used in Deductive Alternates must be the same unit prices used in the Bid.

DEDUCTIVE ALTERNATE #1

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
5	1,340 LF	6" Water Line 235 psi _____ Dollars _____ Cents	_____ _____	_____
11	2 EA	6" M.JT. Gate Valve, Complete W/ Box and Lid _____ Dollars _____ Cents	_____ _____	_____
14	2 EA	Fire Hydrant Assembly, Complete in Place _____ Dollars _____ Cents	_____ _____	_____
16	2 EA	Remove Existing Fire Hydrant _____ Dollars _____ Cents	_____ _____	_____
18	26 EA	Reconnection of Existing Customer Service, Complete _____ Dollars _____ Cents	_____ _____	_____
19	535 LF	3/4" Polyethylene SDR-9 Service Tubing (Open Cut) _____ Dollars _____ Cents	_____ _____	_____
23	30 LF	12" Steel Casing (Open Cut) _____ Dollars _____ Cents	_____ _____	_____
24	1 EA	Abandon Existing Valve, Complete _____ Dollars _____ Cents	_____ _____	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
78	37	Concrete Driveway/Road Repair		
	LF		Dollars	
			Cents	
83	789	HMA City Street Repair		
	LF		Dollars	
			Cents	
87	168	2" HMA Overlay, W/ Roto Milling and Paint Markings		
	TN		Dollars	
			Cents	
88	515	Gravel Driveway/Road Repair		
	LF		Dollars	
			Cents	

TOTAL DEDUCTIVE ALTERNATE #1

(\$)

DEDUCTIVE ALTERNATE #2

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
8	125	2" Water Line 235 psi		
	LF		Dollars	
			Cents	
17	1	2" Hidden Flushing Hydrant Assembly, Complete		
	EA		Dollars	
			Cents	
18	4	Reconnection of Existing Customer Service, Complete		
	EA		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
19	259	3/4" Polyethylene SDR-9 Service Tubing (Open Cut)		
	LF		Dollars	
			Cents	
78	25	Concrete Driveway/Road Repair		
	LF		Dollars	
			Cents	
83	172	HMA City Street Repair		
	LF		Dollars	
			Cents	
86	10	HMA Curb Replacement		
	LF		Dollars	
			Cents	
87	73	2" HMA Overlay, W/ Roto Milling and Paint Markings		
	TN		Dollars	
			Cents	
TOTAL DEDUCTIVE ALTERNATE #2				
			(\$)

DEDUCTIVE ALTERNATE #3

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
5	662	6" Water Line 235 psi		
	LF		Dollars	
			Cents	
11	1	6" M.JT. Gate Valve, Complete W/ Box and Lid		
	EA		Dollars	
			Cents	

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
15	1 EA	Remove And Replace Existing Fire Hydrant, Complete	Dollars Cents	
18	11 EA	Reconnection of Existing Customer Service, Complete	Dollars Cents	
19	221 LF	3/4" Polyethylene SDR-9 Service Tubing (Open Cut)	Dollars Cents	
24	2 EA	Abandon Existing Valve, Complete	Dollars Cents	
38	1 LS	Tie In Assembly #14, Complete As Shown on Sheet 6	Dollars Cents	
40	1 LS	Tie In Assembly #16, Complete As Shown on Sheet 6	Dollars Cents	
69	2 EA	Cut & Plug Existing 6" AC Water Line	Dollars Cents	
83	749 LF	HMA City Street Repair	Dollars Cents	
87	259 TN	2" HMA Overlay, W/ Roto Milling and Paint Markings	Dollars Cents	

TOTAL DEDUCTIVE ALTERNATE #3

(\$ _____)

DEDUCTIVE ALTERNATE #4

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
5	1,223 LF	6" Water Line 235 psi _____ Dollars _____ Cents	_____ _____ Cents	_____
11	2 EA	6" M.JT. Gate Valve, Complete W/ Box and Lid _____ Dollars _____ Cents	_____ _____ Cents	_____
14	1 EA	Fire Hydrant Assembly, Complete in Place _____ Dollars _____ Cents	_____ _____ Cents	_____
18	19 EA	Reconnection of Existing Customer Service, Complete _____ Dollars _____ Cents	_____ _____ Cents	_____
19	135 LF	3/4" Polyethylene SDR-9 Service Tubing (Open Cut) _____ Dollars _____ Cents	_____ _____ Cents	_____
24	5 EA	Abandon Existing Valve, Complete _____ Dollars _____ Cents	_____ _____ Cents	_____
43	1 LS	Tie In Assembly #19, Complete As Shown on Sheet 8 _____ Dollars _____ Cents	_____ _____ Cents	_____
44	1 LS	Tie In Assembly #20, Complete As Shown on Sheet 8 _____ Dollars _____ Cents	_____ _____ Cents	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
52	1	Tie In Assembly #28, Complete As Shown on Sheet 12		
	LS		Dollars	
			Cents	
53	1	Tie In Assembly #29, Complete As Shown on Sheet 12		
	LS		Dollars	
			Cents	
72	2	Cut & Plug Existing 4" AC Water Line		
	EA		Dollars	
			Cents	
73	2	Cut & Plug Existing 4" CI Water Line		
	EA		Dollars	
			Cents	
83	110	HMA City Street Repair		
	LF		Dollars	
			Cents	
87	56	2" HMA Overlay, W/ Roto Milling and Paint Markings		
	TN		Dollars	
			Cents	
88	515	Gravel Driveway/Road Repair		
	LF		Dollars	
			Cents	

TOTAL DEDUCTIVE ALTERNATE #4

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DEDUCTIVE ALTERNATE #5

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
5	1,134 LF	6" Water Line 235 psi _____ Dollars _____ Cents	_____ _____	_____
11	5 EA	6" M.JT. Gate Valve, Complete W/ Box and Lid _____ Dollars _____ Cents	_____ _____	_____
14	1 EA	Fire Hydrant Assembly, Complete in Place _____ Dollars _____ Cents	_____ _____	_____
16	1 EA	Remove Existing Fire Hydrant _____ Dollars _____ Cents	_____ _____	_____
18	19 EA	Reconnection of Existing Customer Service, Complete _____ Dollars _____ Cents	_____ _____	_____
19	121 LF	3/4" Polyethylene SDR-9 Service Tubing (Open Cut) _____ Dollars _____ Cents	_____ _____	_____
23	24 LF	12" Steel Casing (Open Cut) _____ Dollars _____ Cents	_____ _____	_____
24	4 EA	Abandon Existing Valve, Complete _____ Dollars _____ Cents	_____ _____	_____
45	1 LS	Tie In Assembly #21, Complete As Shown on Sheet 9 _____ Dollars _____ Cents	_____ _____	_____

Item	Quantity	Description with Unit Price Written	Unit Price	Total Price
44	1	Tie In Assembly #20, Complete As Shown on Sheet 8		
	LS		Dollars	
			Cents	
69	2	Cut & Plug Existing 6" AC Water Line		
	EA		Dollars	
			Cents	
72	1	Cut & Plug Existing 4" AC Water Line		
	EA		Dollars	
			Cents	
78	45	Concrete Driveway/Road Repair		
	LF		Dollars	
			Cents	
83	110	HMA City Street Repair		
	LF		Dollars	
			Cents	
87	17	2" HMA Overlay, W/ Roto Milling and Paint Markings		
	TN		Dollars	
			Cents	
88	68	Gravel Driveway/Road Repair		
	LF		Dollars	
			Cents	

TOTAL DEDUCTIVE ALTERNATE #5

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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

Note: Bid Opening Requirements (BOR-12) includes the American Iron and Steel Certification which needs to be filled out and signed by the Contractor. This certification also references two (2) attachments located in the Supplemental General Conditions (C-800) which were issued as part of RUS Bulletin 1780-35.

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.

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.

SECTION 012000 – PRICE AND PAYMENT PROCUDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Schedule of Values.
- B. Application for Payment.
- C. Change procedures.
- D. Defect assessment.
- E. Measurement and Payment.

1.2 SCHEDULE OF VALUES

- A. Submit printed schedule on Progress Estimate schedule on EJCDC C-620.
- 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: No greater than 5 percent.
 - b. As-Built Drawings: No less than 1 percent.
 - c. Punchlist: No less than 2 percent.
 - d. Final Bound O&M Manuals: No less than 1 percent.
 - e. All Spare Parts Values not specifically assigned elsewhere: No less than 0.5 percent.
 - f. Testing: No less than 1 percent.
 - 2. Schedules 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 six (6) 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 and payment 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 EJCDC C-940 - Work Change Directive 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 ten (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 Work Change Directive 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 Change Directive: 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 at the discretion of the Engineer.
- 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. Contractor shall take measurements and compute quantities. Resident Project Representative and Engineer will verify measurements and quantities.
- B. Unit Quantities: Quantities and measurements indicated on Bid Form are for Contract purposes only. Actual quantities provided shall determine payment.
 - 1. When actual Work requires more or fewer quantities than those quantities indicated, provide required quantities at Contracted unit sum/prices.
 - 2. When actual Work requires 25 percent or greater change in quantity than those quantities indicated, Owner or Contractor may claim a Contract Price adjustment.
- C. 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.
- D. 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.

E. 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.

F. Measurement & Payment:

1. Divisions 00 and 01, Except for Mobilization/Demobilization
 - a. The cost of this work will be incidental to the Contract.
 - b. No additional compensation will be made.
2. Mobilization/Demobilization and Division 02 through 33.
 - a. As specified in Article G of this Section.

G. Unit Price Schedule

1. Bid Item 1 – Mobilization/Demobilization
 - a. This item shall include 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, purchase and installation of the project sign, storage buildings, and other facilities necessary to conduct Work under this Contract.
 - b. Payment shall be made at the lump sum (LS) price Bid for Mobilization/Demobilization. Partial Payments of the lump sum Bid amount for mobilization/demobilization shall be as follows:
 - 1) No greater than 33.3% of the total lump sum bid price shall be claimed on the first pay request. No greater than 66% of the total lump sum price shall be claimed when the project meets or exceeds 50% complete. The remaining balance shall be paid upon final pay request.
2. Bid Item 2 – Erosion and Sediment Controls
 - a. This bid item shall include all labor, materials, equipment, and other costs associated to provide, install, and maintain erosion and sediment control features as necessary to maintain compliance with the authority having jurisdiction and as detailed in the Contract Documents.

- b. This bid item shall also include any additional erosion and sedimentation controls not shown on the Drawings that are deemed necessary by the Engineer, the Engineer's Resident Project Representative, and/or the authority having jurisdiction.
 - c. The bid for Erosion and Sediment Controls shall be lump sum.
- 3. Bid Item 3 – Test Pit
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with test pit activities conducted to determine subsurface conditions as indicated on the Drawings or approved by the Engineer or the Engineer's Resident Project Representative.
 - b. No payment will be made for test pits that are conducted without approval from the Engineer or the Engineer's Resident Project Representative.
 - c. Any areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
 - d. The bid for Test Pit shall be each.
- 4. Bid Item 4 – 8" Water Pipe 235 PSI
 - a. The bid item shall include all labor, materials, equipment, and other costs associated with the installation of the water pipe of the type and size shown on the Drawings, measured in the horizontal plane along the centerline of the pipe installed from centerline of tie-in to centerline of tie-in.
 - b. This bid item shall also include excavation, bedding, backfilling, warning tape, tracer wire, pigging, hydrostatic testing, chlorination and furnishing all materials necessary to complete the Work.
 - c. Fittings, whether used in ductile iron, PVC, or HDPE, will be paid for as part of linear foot of pipe, regardless if such fittings are shown on the Drawings or not.
 - d. Any tie-ins to existing service lines, cutting and capping of existing lines or abandonments of existing services are to be considered incidental to the unit cost of installing the water line, unless specifically identified in the Bid Schedule.
 - e. The bid for 8" Water Pipe 235 PSI shall be linear feet.
- 5. Bid Item 5 – 6" Water Pipe 235 PSI
 - a. The bid item shall include all labor, materials, equipment, and other costs associated with the installation of the water pipe of the type and size shown on the Drawings, measured in the horizontal plane along the centerline of the pipe installed from centerline of tie-in to centerline of tie-in.
 - b. This bid item shall also include excavation, bedding, backfilling, warning tape, tracer wire, pigging, hydrostatic testing, chlorination and furnishing all materials necessary to complete the Work
 - c. Fittings, whether used in ductile iron, PVC, or HDPE, will be paid for as part of linear foot of pipe, regardless if such fittings are shown on the Drawings or not.
 - d. Any tie-ins to existing service lines, cutting and capping of existing lines or abandonments of existing services are to be considered incidental to the unit cost of installing the water line, unless specifically identified in the Bid Schedule.
 - e. The bid for 6" Water Pipe 235 PSI shall be linear feet.

6. Bid Item 6 – 6” Ductile Iron CL-50 P.JT. Water Pipe
 - a. The bid item shall include all labor, materials, equipment, and other costs associated with the installation of the water pipe of the type and size shown on the Drawings, measured in the horizontal plane along the centerline of the pipe installed from centerline of tie-in to centerline of tie-in.
 - b. This bid item shall also include excavation, bedding, backfilling, warning tape, tracer wire, pigging, hydrostatic testing, chlorination and furnishing all materials necessary to complete the Work
 - c. Fittings, whether used in ductile iron, PVC, or HDPE, will be paid for as part of linear foot of pipe, regardless if such fittings are shown on the Drawings or not.
 - d. Any tie-ins to existing service lines, cutting and capping of existing lines or abandonments of existing services are to be considered incidental to the unit cost of installing the water line, unless specifically identified in the Bid Schedule.
 - e. The bid for 6” Ductile Iron CL-50 P.JT. Water Pipe shall be linear feet.
7. Bid Item 7 – 4” Water Pipe 235 PSI
 - a. The bid item shall include all labor, materials, equipment, and other costs associated with the installation of the water pipe of the type and size shown on the Drawings, measured in the horizontal plane along the centerline of the pipe installed from centerline of tie-in to centerline of tie-in.
 - b. This bid item shall also include excavation, bedding, backfilling, warning tape, tracer wire, pigging, hydrostatic testing, chlorination and furnishing all materials necessary to complete the Work
 - c. Fittings, whether used in ductile iron, PVC, or HDPE, will be paid for as part of linear foot of pipe, regardless if such fittings are shown on the Drawings or not.
 - d. Any tie-ins to existing service lines, cutting and capping of existing lines or abandonments of existing services are to be considered incidental to the unit cost of installing the water line, unless specifically identified in the Bid Schedule.
 - e. The bid for 4” Water Pipe 235 PSI shall be linear feet.
8. Bid Item 8 – 2” Water Pipe 250 PSI
 - a. The bid item shall include all labor, materials, equipment, and other costs associated with the installation of the water pipe of the type and size shown on the Drawings, measured in the horizontal plane along the centerline of the pipe installed from centerline of tie-in to centerline of tie-in.
 - b. This bid item shall also include excavation, bedding, backfilling, warning tape, tracer wire, pigging, hydrostatic testing, chlorination and furnishing all materials necessary to complete the Work
 - c. Fittings, whether used in ductile iron, PVC, or HDPE, will be paid for as part of linear foot of pipe, regardless if such fittings are shown on the Drawings or not.
 - d. Any tie-ins to existing service lines, cutting and capping of existing lines or abandonments of existing services are to be considered incidental to the unit cost of installing the water line, unless specifically identified in the Bid Schedule.
 - e. The bid for 2” Water Pipe 250 PSI shall be linear feet.

9. Bid Item 9 – 8” M.JT. Gate Valve, Complete w/ Box and Lid
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the new gate valve, including thrust blocking, riser box, concrete stabilization block around the riser box, centering rings, mud plugs, valve markers, and all other necessary appurtenances.
 - b. The bid for 8” M.JT. Gate Valve, Complete w/ Box and Lid shall be each.
10. Bid Item 10 – 8” M.JT. Gate Valve, Complete w/ Box and Lid Installed on Existing 8” PVC Water Line.
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the new gate valve, including thrust blocking, riser box, concrete stabilization block around the riser box, centering rings, mud plugs, valve markers, and all other necessary appurtenances.
 - b. This bid item shall include all costs associated with installing the valve on the existing water line.
 - c. The bid for 8” M.JT. Gate Valve, Complete w/ Box and Lid Installed on Existing 8” PVC Water Line shall be each.
11. Bid Item 11 – 6” M.JT. Gate Valve, Complete w/ Box and Lid
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the new gate valve, including thrust blocking, riser box, concrete stabilization block around the riser box, centering rings, mud plugs, valve markers, and all other necessary appurtenances.
 - b. The bid for 6” M.JT. Gate Valve, Complete w/ Box and Lid shall be each.
12. Bid Item 12 – 6” M.JT. Gate Valve, Complete w/ Box and Lid Installed on Existing 6” AC Water Line.
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the new gate valve, including thrust blocking, riser box, concrete stabilization block around the riser box, centering rings, mud plugs, valve markers, and all other necessary appurtenances.
 - b. This bid item shall include all costs associated with installing the valve on the existing water line.
 - c. The bid for 6” M.JT. Gate Valve, Complete w/ Box and Lid Installed on Existing 6” AC Water Line shall be each.
13. Bid Item 13 – 4” M.JT. Gate Valve, Complete w/ Box and Lid
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the new gate valve, including thrust blocking, riser box, concrete stabilization block around the riser box, centering rings, mud plugs, valve markers, and all other necessary appurtenances.
 - b. The bid for 4” M.JT. Gate Valve, Complete w/ Box and Lid shall be each.

14. Bid Item 14 – Fire Hydrant Assembly, Complete in Place

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the new fire hydrant assembly, including the 6" gate valve, 6" hydrant tee, all thread rods, valve riser box, up to 10 linear feet of 6" water line between the 6" gate valve and the fire hydrant, and all other necessary appurtenances.
- b. The bid for Fire Hydrant Assembly, Complete in Place shall be each.

15. Bid Item 15 – Remove and Replace Existing Fire Hydrant Assembly, Complete

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the new fire hydrant assembly, including the 6" gate valve, 6" hydrant tee, all thread rods, valve riser box, up to 10 linear feet of 6" water line between the 6" gate valve and the fire hydrant, and all other necessary appurtenances.
- b. This bid item shall also include all labor, materials, equipment, and other costs associated with the removal and disposal of the existing fire hydrant.
- c. The bid for Fire Hydrant Assembly, Complete in Place shall be each.

16. Bid Item 16 – Remove Existing Fire Hydrant

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the removal of an existing fire hydrant, including repairs to curb, gutter, sidewalk, and landscaping that may occur during this work, the removal and grouting of the associated valve box, and necessary backfilling as shown on the Drawing details.
- b. The bid for Remove Existing Fire Hydrant shall be each.

17. Bid Item 17 – 2" Hidden Flushing Hydrant Assembly, Complete in Place

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of the 2" hidden flushing hydrant assembly, including 2" gate valve, mechanical joint reducer if needed, up to 10 linear feet of 2" water line between the 2" gate valve and the flushing hydrant, and all other necessary appurtenances as shown on the Drawing details.
- b. The bid for 2" Hidden Flushing Hydrant Assembly, Complete in Place shall be each.

18. Bid Item 18 – Reconnection of Existing Customer's Service, Complete.

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the reconnection of an existing customer's service, including installation of a service saddle and corporation stop, locating and excavating the existing customer water tap, turning off the existing water tap, installing a new ball valve of the same size as the existing customer service line, and completing the connection, utilizing stiffeners and connection couplings, and other appurtenances as detailed in the Drawings.
- b. The cost of polyethylene service tubing shall be paid under a separate bid item.

- c. The bid for Reconnection of Existing Customer's Service shall be each.

19. Bid Item 19 – 3/4" Polyethylene Service Tubing (Open Cut)

- a. The pipe installed under this item shall be measured and paid for by the linear feet of pipe for each of the types and sizes as specified on the Drawings or as directed by the Engineer and installed complete in place. The measurements under this item shall be the length of the various sizes and classes 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 centerline of tie-in to centerline of tie-in.
- b. The quantities determined as provided above, will be paid for at the contract unit prices bid for the items listed in the Bid Schedule, which prices and payments shall be full compensation for excavation, bedding, backfilling, warning tape, tracer wire, pigging, hydrostatic testing, chlorination and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.
- c. Fittings, whether used in ductile iron, PVC, or HDPE, will be paid for as part of linear foot of pipe, regardless if such fittings are shown on the Drawings or not.
- d. Where service tubing is shown crossing traveled roads, the service tubing shall be encased by 2" PVC pipe. The cost of the 2" PVC pipe shall be included in this bid item.
- e. Any tie-ins to existing service lines, cutting and capping of existing lines or abandonments of existing services are to be considered incidental to the unit cost of installing the water line unless specifically identified in the Bid Schedule.
- f. The bid for 3/4" Polyethylene Service Tubing (Open Cut) shall be linear feet.

20. Bid Item 20 – 3/4" Polyethylene Service Tubing (Bore and Jack)

- a. The pipe installed under this item shall be measured and paid for by the linear feet of pipe for each of the types and sizes as specified on the plans or as directed by the Engineer, and installed complete in place. The measurements under this item shall be the length of the various sizes and classes 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 centerline of tie-in to centerline of tie-in.
- b. The quantities determined as provided above, will be paid for at the contract unit prices bid for the items listed in the Bid Schedule, which prices and payments shall be full compensation for excavation, bedding, backfilling, warning tape, tracer wire and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing and incidentals necessary to complete the work.
- c. Fitting, whether used in ductile iron, PVC or HDPE, will be paid for as part of linear foot of pipe, if shown on the plan or not.
- d. Any tie-ins to existing service lines, cutting and capping of existing lines, or abandonments of existing services are to be considered incidental to the unit cost of installing the water line unless specifically identified in the Bid Schedule.
- e. The bid for 3/4" Polyethylene Service Tubing (Bore and Jack) shall be Linear Feet.

21. Bid Item 21 – 1” Polyethylene Service Tubing (Open Cut)

- a. The pipe installed under this item shall be measured and paid for by the linear feet of pipe for each of the types and sizes as specified on the Drawings or as directed by the Engineer and installed complete in place. The measurements under this item shall be the length of the various sizes and classes 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 centerline of tie-in to centerline of tie-in.
- b. The quantities determined as provided above, will be paid for at the contract unit prices bid for the items listed in the Bid Schedule, which prices and payments shall be full compensation for excavation, bedding, backfilling, warning tape, tracer wire, pigging, hydrostatic testing, chlorination and furnishing all materials and doing all the work herein prescribed in a workmanlike and acceptable manner, including all labor, tools, equipment, supplies, testing, and incidentals necessary to complete the work.
- c. Fittings, whether used in ductile iron, PVC, or HDPE, will be paid for as part of linear foot of pipe, regardless if such fittings are shown on the Drawings or not.
- d. Where service tubing is shown crossing traveled roads, the service tubing shall be encased by 2” PVC pipe. The cost of the 2” PVC pipe shall be included in this bid item.
- e. Any tie-ins to existing service lines, cutting and capping of existing lines or abandonments of existing services are to be considered incidental to the unit cost of installing the water line unless specifically identified in the Bid Schedule.
- f. The bid for 1” Polyethylene Service Tubing (Open Cut) shall be linear feet.

22. Bid Item 22 – 16” Steel Casing (Bore & Jack)

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the installation of the casing, including all excavation, sheeting, bracing, backfilling, grouting, link seals, blocking, casing spacers, all required fittings, and all other necessary appurtenances.
- b. This payment shall be for the casing pipe only, measured in the horizontal plane along the centerline of the casing installed, from casing end to end.
- c. Under no circumstance shall additional compensation be made for footage installed beyond what is detailed in the Contract Documents or otherwise unauthorized.
- d. The bid for 16” Steel Casing (Bore & Jack) shall be linear feet.

23. Bid Item 23 – 12” Steel Casing (Open Cut)

- a. Measurement and Payment for installation of steel casing using the open cut construction method shall be for the overall length of the casing pipe satisfactorily installed. Payment shall include all labor and materials necessary for, and incidental to, the construction of the crossing, including excavation, sheeting, bracing, backfilling, grouting, link seal, blocking, etc. and all required fittings. Payment shall be for casing pipe only. Carrier pipe shall be paid by the unit bid price per foot. Unauthorized footage beyond those called for in the plans and specifications shall not be compensated for.
- b. The bid for 12” Steel Casing (Open Cut) shall be Linear Feet.

24. Bid Item 24 – Abandon Existing Valve, Complete
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the abandonment of an existing valve, including repairs to curb, gutter, sidewalk, and landscaping that may occur during this work, lid removal, and the grouting of the associated valve box as shown on the Drawing details.
 - b. The bid for Abandon Existing Valve shall be each.
25. Bid Item 25 – Tie In Assembly #1, Complete As Shown on Sheet 1
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #1, Complete As Shown on Sheet 1 shall be Lump Sum.
26. Bid Item 26 – Tie In Assembly #2, Complete As Shown on Sheet 1
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #2, Complete As Shown on Sheet 1 shall be Lump Sum.
27. Bid Item 27 – Tie In Assembly #3, Complete As Shown on Sheet 2
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract

- Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- d. The bid for Tie In Assembly #3, Complete As Shown on Sheet 2 shall be Lump Sum.
28. Bid Item 28 – Tie In Assembly #4, Complete As Shown on Sheet 3
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #4, Complete As Shown on Sheet 3 shall be Lump Sum.
29. Bid Item 29 – Tie In Assembly #5, Complete As Shown on Sheet 3
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #5, Complete As Shown on Sheet 3 shall be Lump Sum.
30. Bid Item 30 – Tie In Assembly #6, Complete As Shown on Sheet 3
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.

- d. The bid for Tie In Assembly #6, Complete As Shown on Sheet 3 shall be Lump Sum.
31. Bid Item 31 – Tie In Assembly #7, Complete As Shown on Sheet 4
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #7, Complete As Shown on Sheet 4 shall be Lump Sum.
32. Bid Item 32 – Tie In Assembly #8, Complete As Shown on Sheet 4
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #8, Complete As Shown on Sheet 4 shall be Lump Sum.
33. Bid Item 33 – Tie In Assembly #9, Complete As Shown on Sheet 4
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #9, Complete As Shown on Sheet 4 shall be Lump Sum.

34. Bid Item 34 – Tie In Assembly #10, Complete As Shown on Sheet 4
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #10, Complete As Shown on Sheet 4 shall be Lump Sum.
35. Bid Item 35 – Tie In Assembly #11, Complete As Shown on Sheet 5
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #11, Complete As Shown on Sheet 5 shall be Lump Sum.
36. Bid Item 36 – Tie In Assembly #12, Complete As Shown on Sheet 5
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #12, Complete As Shown on Sheet 5 shall be Lump Sum.
37. Bid Item 37 – Tie In Assembly #13, Complete As Shown on Sheet 5
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to

- perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
- b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #13, Complete As Shown on Sheet 5 shall be Lump Sum.
38. Bid Item 38 – Tie In Assembly #14, Complete As Shown on Sheet 6
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #14, Complete As Shown on Sheet 6 shall be Lump Sum.
39. Bid Item 39 – Tie In Assembly #15, Complete As Shown on Sheet 6
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #15, Complete As Shown on Sheet 6 shall be Lump Sum.
40. Bid Item 40 – Tie In Assembly #16, Complete As Shown on Sheet 6
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers,

- sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
- b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #16, Complete As Shown on Sheet 6 shall be Lump Sum.
41. Bid Item 41 – Tie In Assembly #17, Complete As Shown on Sheet 7
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #17, Complete As Shown on Sheet 7 shall be Lump Sum.
42. Bid Item 42 – Tie In Assembly #18, Complete As Shown on Sheet 7
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #18, Complete As Shown on Sheet 7 shall be Lump Sum.
43. Bid Item 43 – Tie In Assembly #19, Complete As Shown on Sheet 8
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.

- b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #19, Complete As Shown on Sheet 8 shall be Lump Sum.
- 44. Bid Item 44 – Tie In Assembly #20, Complete As Shown on Sheet 8
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #20, Complete As Shown on Sheet 8 shall be Lump Sum.
- 45. Bid Item 45 – Tie In Assembly #21, Complete As Shown on Sheet 9
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #21, Complete As Shown on Sheet 9 shall be Lump Sum.
- 46. Bid Item 46 – Tie In Assembly #22, Complete As Shown on Sheet 10
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.

- c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #22, Complete As Shown on Sheet 10 shall be Lump Sum.
- 47. Bid Item 47 – Tie In Assembly #23, Complete As Shown on Sheet 10
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #23, Complete As Shown on Sheet 10 shall be Lump Sum.
- 48. Bid Item 48 – Tie In Assembly #24, Complete As Shown on Sheet 10
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #24, Complete As Shown on Sheet 10 shall be Lump Sum.
- 49. Bid Item 49 – Tie In Assembly #25, Complete As Shown on Sheet 10
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract

- Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- d. The bid for Tie In Assembly #25, Complete As Shown on Sheet 10 shall be Lump Sum.
50. Bid Item 50 – Tie In Assembly #26, Complete As Shown on Sheet 11
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #26, Complete As Shown on Sheet 11 shall be Lump Sum.
51. Bid Item 51 – Tie In Assembly #27, Complete As Shown on Sheet 12
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #27, Complete As Shown on Sheet 12 shall be Lump Sum.
52. Bid Item 52 – Tie In Assembly #28, Complete As Shown on Sheet 12
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.

- d. The bid for Tie In Assembly #28, Complete As Shown on Sheet 12 shall be Lump Sum.
53. Bid Item 53 – Tie In Assembly #29, Complete As Shown on Sheet 12
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #29, Complete As Shown on Sheet 12 shall be Lump Sum.
54. Bid Item 54 – Tie In Assembly #30, Complete As Shown on Sheet 13
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #30, Complete As Shown on Sheet 13 shall be Lump Sum.
55. Bid Item 55 – Tie In Assembly #31, Complete As Shown on Sheet 13
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #31, Complete As Shown on Sheet 13 shall be Lump Sum.

56. Bid Item 56 – Tie In Assembly #32, Complete As Shown on Sheet 14
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #32, Complete As Shown on Sheet 14 shall be Lump Sum.
57. Bid Item 57 – Tie In Assembly #33, Complete As Shown on Sheet 14
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #33, Complete As Shown on Sheet 14 shall be Lump Sum.
58. Bid Item 58 – Tie In Assembly #34, Complete As Shown on Sheet 15
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #34, Complete As Shown on Sheet 15 shall be Lump Sum.
59. Bid Item 59 – Tie In Assembly #35, Complete As Shown on Sheet 15
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to

- perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
- b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #35, Complete As Shown on Sheet 15 shall be Lump Sum.
60. Bid Item 60 – Tie In Assembly #36, Complete As Shown on Sheet 15
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #36, Complete As Shown on Sheet 15 shall be Lump Sum.
61. Bid Item 61 – Tie In Assembly #37, Complete As Shown on Sheet 15
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #37, Complete As Shown on Sheet 15 shall be Lump Sum.
62. Bid Item 62 – Tie In Assembly #38, Complete As Shown on Sheet 15
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers,

- sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
- b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #38, Complete As Shown on Sheet 15 shall be Lump Sum.
63. Bid Item 63 – Tie In Assembly #39, Complete As Shown on Sheet 15
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #39, Complete As Shown on Sheet 15 shall be Lump Sum.
64. Bid Item 64 – Tie In Assembly #40, Complete As Shown on Sheet 16
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #40, Complete As Shown on Sheet 16 shall be Lump Sum.
65. Bid Item 65 – Tie In Assembly #41, Complete As Shown on Sheet 16
- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.

- b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #41, Complete As Shown on Sheet 16 shall be Lump Sum.
- 66. Bid Item 66 – Tie In Assembly #42, Complete As Shown on Sheet 16
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the tie-in as shown on plans. Including but not limited to locating and excavation of the water line, all required gate valves, all fittings such as reducers, sleeves, couplings, as well as thrust blocking, bedding, backfilling, and other necessary appurtenances as detailed on the Drawings.
 - b. This bid item shall include all pipe necessary to complete the tie in as shown on the drawings.
 - c. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - d. The bid for Tie In Assembly #42, Complete As Shown on Sheet 16 shall be Lump Sum.
- 67. Bid Item 67 – Cut & Plug Existing 8” AC Water Line
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
 - b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - c. The bid for Cut & Plug Existing 8” AC Water Line shall be each.
- 68. Bid Item 68 – Cut & Plug Existing 6” PVC Water Line
 - a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
 - b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
 - c. The bid for Cut & Plug Existing 6” PVC Water Line shall be each.

69. Bid Item 69 – Cut & Plug Existing 6” AC Water Line

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
- b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- c. The bid for Cut & Plug Existing 6” AC Water Line shall be each.

70. Bid Item 70 – Cut & Plug Existing 6” CI Water Line

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
- b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- c. The bid for Cut & Plug Existing 6” CI Water Line shall be each.

71. Bid Item 71 – Cut & Plug Existing 4” PVC Water Line

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
- b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- c. The bid for Cut & Plug Existing 4” PVC Water Line shall be each.

72. Bid Item 72 – Cut & Plug Existing 4” AC Water Line

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
- b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- c. The bid for Cut & Plug Existing 4” AC Water Line shall be each.

73. Bid Item 73 – Cut & Plug Existing 4” CI Water Line

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
- b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- c. The bid for Cut & Plug Existing 4” CI Water Line shall be each.

74. Bid Item 74 – Cut & Plug Existing 2” HDPE Water Line

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
- b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- c. The bid for Cut & Plug Existing 2” HDPE Water Line shall be each.

75. Bid Item 75 – Cut & Plug Existing 2” PVC Water Line

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the purchase and installation of all required material in order to perform the cut and plug, including the locating and excavation of the water line and installation of the plug, thrust blocking, and other necessary appurtenances as detailed on the Drawings.
- b. If applicable, this bid item shall also include all labor, materials, equipment, and other costs associated with proper asbestos abatement as specified in the Contract Documents and as required by the authority having jurisdiction, including all testing and proper disposal of asbestos materials.
- c. The bid for Cut & Plug Existing 2” PVC Water Line shall be each.

76. Bid Item 76 – WVDOH Shoulder Stone Repair

- a. This bid item shall include the purchase, transportation and placement necessary to complete the work in all disturbed areas along with the project and any other amendments applications.
- b. All areas of shoulder stone repair disturbed due to any other of the contractor’s operations which are not designed as part of the project construction shall also be satisfactorily repaired, at no additional cost to the Owner.
- c. The bid for WVDOH Shoulder Stone Repair shall be Linear Feet.

77. Bid Item 77 – WVDOH ADA Concrete Sidewalk Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the sidewalk repair to WVDOH ADA Standards, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, joint sealer, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, forms, curing, testing, and specified backfill and reinforcing.
- b. No payment will be made for temporary sidewalk repairs.
- c. Any sidewalk areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for WVDOH ADA Concrete Sidewalk Repair shall be linear feet.

78. Bid Item 78 – Concrete Driveway/Road Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the street/road repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, joint sealer, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, forms, curing, testing, and specified backfill and reinforcing.
- b. No payment will be made for temporary paving/stone/concrete.
- c. Any street/road areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for Concrete Driveway/Road Repair shall be linear feet.

79. Bid Item 79 – Concrete Sidewalk Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the sidewalk repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, joint sealer, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, forms, curing, testing, and specified backfill and reinforcing.
- b. No payment will be made for temporary sidewalk repairs.
- c. Any sidewalk areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for Concrete Sidewalk Repair shall be linear feet.

80. Bid Item 49 – Concrete Curb Replacement

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the curb replacement, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, joint sealer, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, forms, curing, testing, and specified backfill and reinforcing.

- b. No payment will be made for temporary curb replacement.
- c. Any curb areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for Concrete Curb Repair shall be linear feet.

81. Bid Item 81 – Concrete Apron Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the apron repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, joint sealer, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, forms, curing, testing, and specified backfill and reinforcing.
- b. No payment will be made for temporary curb repairs.
- c. Any apron areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for Concrete Apron Repair shall be linear feet.

82. Bid Item 43 – WVDOT Type "A" Trench Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the trench repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, and specified backfill and reinforcing.
- b. No payment will be made for temporary paving/stone.
- c. Any pavement disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for WVDOT Type "A" Trench Repair shall be linear feet.

83. Bid Item 44 – HMA City Street Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the City Street repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill to patch the ditch before overlay is performed.
- b. Any pavement disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- c. The bid for HMA City Street Repair shall be linear feet.

84. Bid Item 84 – HMA Driveway/Road Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the street/road repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not

limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, curb repair, and specified backfill and reinforcing.

- b. No payment will be made for temporary paving/stone.
- c. Any pavement disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for HMA Driveway/Road Repair shall be linear feet.

85. Bid Item 85 – HMA Apron Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the apron repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, joint sealer, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, forms, curing, testing, and specified backfill and reinforcing.
- b. No payment will be made for temporary curb repairs.
- c. Any apron areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for HMA Apron Repair shall be linear feet.

86. Bid Item 86 –HMA Curb Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the curb repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, joint sealer, saw cutting, removal and disposal of existing surface, final cleaning, remarking of pavement, stone base or flowable fill, concrete, forms, curing, testing, and specified backfill and reinforcing.
- b. No payment will be made for temporary curb replacement.
- c. Any curb areas disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for HMA Curb Repair shall be linear feet.

87. Bid Item 87 – 2" HMA Overlay, Including Roto-Milling and Paint Markings

- a. This Bid item shall include all required labor, materials, equipment and all other costs associated with overlay including but not limited to pavement markings, traffic control, milling necessary in order to prevent unacceptable drainage pattern, heal in joints, saw cutting existing pavement, removal and proper disposal of existing asphalt, tack coat and cleaning of the road prior to application.
- b. No payment will be made for temporary paving/stone.
- c. Any pavement disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for 2" HMA Overlay, Including Roto-Milling and Paint Markings shall be per ton.

88. Bid Item 88 – Gravel Driveway/Road Repair

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the completing the driveway/road repair, measured along the centerline of the pipe without regard to width, as detailed on the Drawings, including, but not limited to, traffic control, milling as necessary in order to prevent unacceptable drainage patterns, heal in joints, saw cutting, removal and disposal of existing surface, final cleaning, remarking of driveway/roadway if applicable, stone base or flowable fill, concrete, and specified backfill and reinforcing.
- b. No payment will be made for temporary paving/stone.
- c. Any driveway/road disturbed outside of indicated locations shown on the Drawings shall be repaired at the Contractor's expense.
- d. The bid for Gravel Driveway/Road Repair shall be linear feet.

89. Bid Item 89 – Reclamation of Disturbed Areas

- a. This bid item shall include all labor, materials, equipment, and other costs associated with the reclamation of disturbed areas, including the purchase and application of seed, mulch, fertilizer, and other necessary products to stabilize disturbed areas.
- b. The bid for Reclamation of Disturbed Areas shall be linear feet.

1.7 ALTERNATES

- A. Definition: An amount proposed by Bidders and stated on the Bid Form for certain Work defined in the Bidding requirements that may be added to or deducted from the base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 1. Alternates are part of the Work only if enumerated in the Agreement.
 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.
- B. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in Owner-Contractor Agreement. The Owner-Contractor Agreement may identify certain Alternates to remain an Owner option for a stipulated period of time.
- C. Coordinate related Work and modify surrounding Work. Description for each Alternate is recognized to be abbreviated but requires that each change shall be complete for scope of Work affected.
 1. Coordinate related requirements among Specification Sections as required.
 2. Include as part of each Alternate, miscellaneous devices, appurtenances, and similar items incidental to or necessary for complete installation.
 3. Coordinate Alternate with adjacent Work and modify or adjust as necessary to ensure integration.

PART 2 - PRODUCTS – Not Used

PART 3 - EXECUTION – Not Used

END OF SECTION 012000