



**Addendum #3
to
Town of New Market, VA
IFB #WSL-021-21
for
Water System Improvements**

June 18, 2025

Addendum #3 to Invitation for Bid #WSL-021-21 is issued in accordance with the IFB Terms & Conditions and is intended to provide additional information and clarification to bidders.

Addendum #3 consists of two (2) items which are listed below, attached hereto and made a part hereof to IFB #WSL-021-21.

Item 1 – CHANGES TO THE IFB:

1. Revised Bid Form C410 for Addendum #3 (attached) shall be used in lieu of the Bid Forms posted as part of the IFB on March 17th, 2025
2. In IFB 'New Market Water System Improvements Project Specifications w/Appendices'
 - a. DELETE Section 01 11 00 - Summary of Work, dated 01/25, in its entirety and SUBSTITUTE THEREFORE Section 01 11 00 - Summary of Work, dated 06/25, attached to this Addendum #3
 - b. ADD Section 01 02 00 – Measurement and Payment, dated 06/25, attached to this Addendum #3.

Item 2 – CHANGES TO THE ADVERTISEMENT:

1. In lieu of the changes posted in Addendum No. 2, In 'Bidder Questions' **DELETE** submitted by "Wednesday, June 18th, 2025, by 5:00 p.m." and **SUBSTITUTE THERFORE**, "Friday, June 20th, 2025, by 5:00 p.m."

Nathan Garrison
Town Manager

June 18, 2025

Date

BID FORM FOR CONSTRUCTION CONTRACT

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 1—OWNER AND BIDDER

- A. This Bid is submitted to:
- Town of New Market
9418 John Sevier Road
P.O. Box 58
New Market, VA 22844
- B. 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—ATTACHMENTS TO THIS BID

- A. The following documents are submitted with and made a condition of this Bid:
- A. Required Bid security;
 - B. List of Proposed Subcontractors;
 - C. List of Proposed Suppliers;
 - D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;
 - E. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
 - F. Required Bidder Qualification Statement with supporting data; and

ARTICLE 3—SCHEDULE OF BID ITEMS

3.01 *Lump Sum and Unit Price Bid Items*

- A. The Bidder shall fill in all blanks providing the following: The Bidder's proposed amount of cost per Unit Price in words; the Bidder's proposed Unit Price in figures; and the Bidder's proposed computed total price in figures, for each Bid Item described below. (The computed total price is obtained by multiplying the Estimated Quantity by the Bidder's Unit Price.) Written amounts shall govern in case of discrepancy between the amounts stated in writing and the amounts stated in figures. In case of discrepancy between unit prices and totals, unit prices will prevail. Refer to Section 01 02 00 for a detailed description of each bit item number.

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
1	Mobilization (Item not to exceed <u>3%</u> of computed total amount for all contract items) _____ Dollars	1 LS	\$ _____	\$ _____
2	Demolition and Disposal of Existing 0.5 MG Storage Tank _____ Dollars and _____ Cents	1 LS	\$ _____	\$ _____
3	0.5 MG Glass-Lined Bolted Steel Water Storage Tank _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
4	Hydrodynamic Mixing System _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
5	4-Inch Ductile Iron Pipe _____ Dollars and _____ Cents	45 LF	\$ _____	\$ _____
6	6-Inch Ductile Iron Pipe _____ Dollars and _____ Cents	20 LF	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
7	10-Inch Ductile Iron Pipe _____ Dollars and _____ Cents	25 LF	\$ _____	\$ _____
8	12-Inch Ductile Iron Pipe _____ Dollars and _____ Cents	550 LF	\$ _____	\$ _____
9	16-Inch Ductile Iron Pipe _____ Dollars and _____ Cents	700 LF	\$ _____	\$ _____
10	10-Inch 45 Deg. Bend (RJ x RJ) _____ Dollars and _____ Cents	3 EA	\$ _____	\$ _____
11	10-Inch Restrained Mechanical Coupling _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
12	12-Inch x 10-Inch Reducer (RJ x RJ) _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
13	12-Inch 22.5 Deg. Bend (RJ x RJ) ____ Dollars and ____ Cents	2 EA	\$ ____	\$ ____
14	12-Inch 45 Deg. Bend (RJ x RJ) ____ Dollars and ____ Cents	6 EA	\$ ____	\$ ____
15	12-Inch Tee (RJ x RJ) ____ Dollars and ____ Cents	2 EA	\$ ____	\$ ____
16	12-Inch 90 Deg. Bend (RJ x RJ) ____ Dollars and ____ Cents	1 EA	\$ ____	\$ ____
17	12-Inch Restrained Mechanical Coupling ____ Dollars and ____ Cents	1 EA	\$ ____	\$ ____
18	16-Inch x 12-Inch Reducer (RJ x RJ) ____ Dollars and ____ Cents	1 EA	\$ ____	\$ ____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
19	16-Inch x 6-Inch Tee (RJ x RJ) _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
20	16-Inch x 12-Inch Reducer (RJ x RJ) _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
21	16-Inch 45 Deg. Bend (RJ x RJ) _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
22	16-Inch Tee (RJ x RJ) _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
23	16-Inch x 12-Inch Tee-Wye (RJ x RJ) _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
24	10-Inch Cap (RJ) _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
25	12-Inch Cap (RJ) _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
26	16-Inch Cap (RJ) _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
27	4-Inch Plug Valve (RF x RJ) _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
28	4-Inch Plug Valve Extension Stem _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
29	6-Inch Gate Valve _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
30	6-Inch Gate Valve Extension Stem _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
31	12-Inch Gate Valve _____ Dollars and _____ Cents	5 EA	\$ _____	\$ _____
32	12-Inch Gate Valve Extension Stem _____ Dollars and _____ Cents	5 EA	\$ _____	\$ _____
33	12-Inch Variable Orifice Check Valve _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
34	16-Inch Gate Valve _____ Dollars and _____ Cents	4 EA	\$ _____	\$ _____
35	16-Inch Gate Valve Extension Stem _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
36	12-Inch 90 Deg. Bend (FLG x FLG) _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
37	12-Inch SCH 80 PVC _____ Dollars and _____ Cents	100 LF	\$ _____	\$ _____
38	16-Inch Fernco Coupling _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
39	16-Foot Mechanical Slide Gate & Operator _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
40	Stanchion Style Pipe Supports _____ Dollars and _____ Cents	4 EA	\$ _____	\$ _____
41	Metal Bollard with Concrete Base _____ Dollars and _____ Cents	10 EA	\$ _____	\$ _____
42	Concrete Pipe Support _____ Dollars and _____ Cents	6 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
43	Concrete Thrust Collar _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
44	4-Inch Yard Hydrant _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
45	Fire Hydrant Assembly _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
46	Dechlorinating Overflow Security Assembly _____ Dollars and _____ Cents	3 EA	\$ _____	\$ _____
47	Riprap Outlet Protection _____ Dollars and _____ Cents	1 LS	\$ _____	\$ _____
48	Storm Drainage Structures _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
49	12-Inch HDPE Storm Sewer Piping _____ Dollars and _____ Cents	50 LF	\$ _____	\$ _____
50	12-Inch HDPE Flared End Section _____ Dollars and _____ Cents	3 EA	\$ _____	\$ _____
51	15-Inch HDPE Storm Sewer Piping _____ Dollars and _____ Cents	50 LF	\$ _____	\$ _____
52	10-Inch DI to Asbestos Clay Pipe Adapter _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
53	12-Inch DI to Asbestos Clay Pipe Adapter _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
54	Temporary Erosion and Sediment Control _____ Dollars and _____ Cents	1 LS	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
55	Vegetated Channel _____ Dollars and _____ Cents	600 LF	\$ _____	\$ _____
56	Permanent Turf Reinforcement Matting _____ Dollars and _____ Cents	1,100 SY	\$ _____	\$ _____
57	Security Fencing and Gates _____ Dollars and _____ Cents	600 LF	\$ _____	\$ _____
58	Precast Concrete DOSA Vault _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
59	Drain Overflow Concrete Catch Basin, 9.5' x 9.5' _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
60	Precast Concrete MH, 4-Foot Diameter _____ Dollars and _____ Cents	20 VF	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
61	Clearing and Grubbing _____ Dollars and _____ Cents	5,000 SY	\$ _____	\$ _____
62	Topsoil Stripping and Stockpiling _____ Dollars and _____ Cents	5,000 SY	\$ _____	\$ _____
63	Driveway Improvement and Gravel Parking Area _____ Dollars and _____ Cents	1,200 SY	\$ _____	\$ _____
64	Earth Fill _____ Dollars and _____ Cents	750 CY	\$ _____	\$ _____
65	Topsoiling and Seeding _____ Dollars and _____ Cents	5,000 SY	\$ _____	\$ _____

Computed Total Amount for All Contract Items (Sum of Contract Items 1 through 65 above) <hr/> <hr/> <hr/> Dollars and _____ Cents	
--	--

3.02 Contingent Unit Price Bid Items

Bidder will perform the following Work at the indicated unit prices:

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
C-1	Miscellaneous Excavation and Stone Backfill Below Specified Subgrade Elevation Beneath Water Tank #1 or #2	CY	100	\$	\$
C-2	Miscellaneous Excavation and Compacted Structural Fill Below Specified Subgrade Elevation Beneath Water Tank #1 or #2	CY	200	\$	\$
C-3	Miscellaneous Excavation and Stone Backfill Below Specified Subgrade Elevation <u>NOT</u> Beneath Water Tank #1 or #2	CY	25	\$	\$
C-4	Miscellaneous Excavation and Compacted Structural Fill Below Specified Subgrade Elevation <u>NOT</u> Beneath Water Tank #1 or #2	CY	75	\$	\$
Total of All Contingent Unit Price Bid Items					\$

Bidder acknowledges that:

- 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,
- estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids,
- quantities for contingent unit price work represent quantities above and beyond that required by the Contract Documents,
- the work will be performed only at the express written authorization of the Engineer, and
- final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

3.03 Allowances

- A. Bidder agrees to provide the following allowances as part of the work. Allowance includes cost of product and applicable taxes to Contractor or Subcontractor, less applicable trade discounts. Allowance includes costs associated with product delivery to site and handling at the site, including unloading, uncrating, and storage (protection of Products from elements and from damage) and labor for installation and finishing.
- B. The Engineer shall consult with Contractor for consideration and selection of Products and select Products in consultation with Owner and transmit decision to Contractor. On notification of selection by Engineer, Contractor shall execute purchase agreement with designated supplier, arrange for and process shop drawings, product data and samples, arrange for delivery, and promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
- C. Differences between allowance amounts and actual costs will be adjusted by Change Order prior to final payment.
- D. All specified cash allowance(s) are included in the price(s) set forth below and have been computed in accordance with Paragraph 13.02 of the General Conditions.

Item D-1, Lump Sum for Cash Allowance 1, SCADA Communications for New Tank #1 and New Tank #2	\$35,000
Item D-2, Lump Sum for Cash Allowance 2, New Electrical Service	\$50,000
Total for all Lump Sum for Cash Allowances	\$85,000

3.04 *Bid Alternates*

- A. The following Bid Alternates are modifications to the Base Bid as noted. The Bidder IS required to provide a Total Base Bid AND required to provide the Bid Alternate. Bidder understands that the award of the contract, if any, will be made on the basis of the Total Base Bid without consideration of additions or deducts for the Bid Alternate.
- B. Bidder understands the bid alternate below entails constructing the 0.5 MG Water Storage Tanks as welded steel water storage tanks as specified and/or detailed on the Contract Documents and in accordance with Specification Section 33 16 13.02 – Welded Steel Water Storage Tanks, in lieu of glass-lined bolted steel water storage tanks. Bid alternate work shall maintain alignments, routing, elevations, and shall include all labor, materials, and equipment required to install the water storage tank as shown on the Contract Documents and as specified herein, including but not necessarily limited to the concrete foundation, coatings, side shell manways, outlets and penetrations for piping, electrical, and instrumentation described under other pay items, overflow piping to the stormwater discharge location, access manways/ladders, cathodic protection and other accessory components as shown or specified in the Contract Documents, and miscellaneous work shown or specified, which may not be specifically included under other Items.

Description	Estimated Quantity	Unit Price	Computed Total Price	Total Bid Price Adjustment
BID ALTERNATE 1 – WELDED STEEL WATER STORAGE TANKS (CONTRACT ITEM B-1) IN LIEU OF GLASS-LINED BOLTED STEEL WATER STORAGE TANKS (CONTRACT ITEM 3)	2 EA	\$_____	\$_____	\$_____ add or (deduct) – Circle One

3.05 *Total Bid Price*

A. Award of contract shall be based on the Base Bid Total Bid Price amount, as computed below.

DESCRIPTION	TOTAL
Sum of Contract Items 1 through 65	\$
Contingent Unit Price Items (subtotal from Section 3.02)	\$
Allowances (subtotal from Section 3.03)	\$ 85,000
BASE BID TOTAL BID PRICE (SUM OF CONTRACT ITEMS 1 THROUGH 65, CONTINGENT UNIT PRICE ITEMS (SUB TOTAL FROM SECTION 3.02), AND ALLOWANCES (SUBTOTAL FROM SECTION 3.03))	\$

4 TIME OF COMPLETION

4.01 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.

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

5 BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 *Bid Acceptance Period*

A. This Bid will remain subject to acceptance for 91 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

5.02 *Instructions to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

6 BIDDER'S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder's Representations*

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.
5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.
6. 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 the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
8. 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.
9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

6.02 *Bidder's Certifications*

- A. The Bidder certifies the following:

1. 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.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. 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.
 - c. 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.
 - d. 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.

BIDDER hereby submits this Bid as set forth above:

Bidder:

(typed or printed name of organization)

By:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

Address for giving notices:

Bidder's Contact:

Name:

(typed or printed)

Title:

(typed or printed)

Phone:

Email:

Address:

Bidder's Contractor License No.: (if applicable)

[] I/We elect to utilize the Escrow Account Procedure for utilization of the Owner's retainage funds.

SECTION 01 02 00

MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.1 BASIS FOR MEASUREMENT AND PAYMENT

Measurement and Payment will be made for only those items included in the Contract Bid Form or Contract Change Order(s) for the Project.

- A. All Measurement for payment will be for completed work performed according to Contract Drawings, Specifications, Construction Details and the Bid Form. The Owner shall measure the work in accordance with the methods outlined below.
- B. Payment for any item is full compensation for furnishing all labor, materials and equipment required to acceptably complete the item of the work. Any work and material paid for under one item will not be paid for under another item though the work and material may enter another item.

PART 2 – CONTRACT ITEMS

Contract Items include those items which are fully defined in the contract drawings and specifications and anticipated to be required for completion of the work.

2.1 MOBILIZATION (CONTRACT ITEM NO. 1)

- A. Measurement
 - 1. Measurement for mobilization shall be the job, with no accrual unit of measure taken, and shall include:
 - a. Movement to, placement and set-up on project site of personnel of any type, equipment, supplies, and accessory items.
 - b. Establishment of Contractor offices, buildings, proper sanitary facilities and other needed project facilities plus utility work and connections needed for these facilities.
 - c. Scheduling details, coordination, and any other work and expense appropriate that is prior to the start of work under contract pay items.
 - d. The cost of required insurance and bonds and/or any initiation of the contract work is also included in this item.
 - e. The cost of acquiring required permits and approvals as necessary in order to complete the Work.
 - f. Site preparation and set up including, removal of temporary utilities, and site restoration.
 - g. All labor, materials, and equipment required to control and maintain traffic patterns in a safe and efficient manner on roadways, parking lot areas, public access ways, and paved roadway shoulders during installation activities.
 - h. Pre- and post-construction photographic and video documentation.
 - i. Demobilization from project site, including removal of personnel, equipment, supplies, and accessories.

- j. All other work required for a complete project, which is not included in other bid items.
- 2. No additional payment will be made for demobilization and remobilization due to shutdowns, suspensions of the work or for other mobilization activities. The Contractor's total price for Mobilization shall not exceed three percent (3%) of the total bid price for the project, including contingent items.

B. Payment

- 1. Payment for Mobilization will be made at the Lump Sum price as stated in the Bid Form.
- 2. Payment shall be made in two installments. The first fifty percent (50%) of the amount bid for this Item shall be made payable to the Contractor as part of the Contractor's first progress payment request. The second and final payment of fifty percent (50%) of the amount bid for this Item shall be made payable to the Contractor in conjunction with Final Payment of the project.
- 3. Payment of the Contract lump sum price for mobilization and furnishing all labor, materials, tools, and equipment needed to complete work will not be made more than once, regardless of the fact that the Contractor may have, for any reason, shut down his work on the project or moved equipment away from the project and then back again.

2.2 DEMOLITION AND DISPOSAL OF EXISTING 0.5 MG STORAGE TANK
(CONTRACT ITEM NO. 2)

A. Measurement

- 1. Unit of measure for Demolition and Disposal of Existing 0.5 MG Storage Tank shall be on a lump sum basis for the work that generally consists of all work specified in the technical specifications and construction drawings for the demolition, removal, and disposal of the Town's existing 0.5 MG water storage tank.

B. Payment

- 1. Payment for Demolition and Disposal of Existing 0.5 MG Storage Tank will be made at contract unit price per lump sum, which, price and payment shall include all labor, materials, tools, equipment and incidentals needed to complete the work specified.

2.3 FURNISH AND INSTALL 0.5 MG GLASS-LINED BOLTED STEEL WATER
STORAGE TANK (CONTRACT ITEM NO. 3)

A. Measurement

- 1. Unit of measurement for the 0.5 MG Glass-Lined Bolted Steel Water Storage Tank shall be for each water tank installed and shall include all labor, materials, and equipment required to install the water storage tank as shown on the Contract Documents and as specified herein, including but not necessarily limited to the concrete foundation, coatings, side shell manways, outlets and penetrations for piping, electrical, and instrumentation described under other pay items, overflow piping to the stormwater discharge location, access manways/ladders, cathodic protection and other accessory components as shown or specified in the Contract Documents, and miscellaneous work shown or specified, which may not be specifically

included under other Items. Work does not include work described under paragraph 2.4, Contract Item 4 – Hydrodynamic Mixing System, instrumentation & controls, and electrical work.

B. Payment

1. Payment for 0.5 MG glass-lined bolted steel water storage tank shall be at the contract unit price per each water storage tank installed, including all fittings and appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work, including but not necessarily limited to excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, aggregate base course, testing, disinfection, commissioning, the concrete foundation, side shell manways, outlets and penetrations for piping, electrical, and instrumentation described under other pay items, access manways/ladders, cathodic protection and other accessory components as shown or specified in the Contract Documents.

2.4 FURNISH AND INSTALL HYDRODYNAMIC MIXING SYSTEM (CONTRACT ITEM NO. 4)

A. Measurement

1. Unit of measurement for hydrodynamic mixing system shall be for each hydrodynamic mixing system, installed and shall include all labor, materials, and equipment required for the complete and functional installation of the hydrodynamic mixing system as shown on the Contract Documents.

B. Payment

1. Payment for the hydrodynamic mixing system shall be at the contract unit price per each hydrodynamic mixing system installed, including all fittings and appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work.

2.5 FURNISH AND INSTALL DUCTILE IRON PIPE (CONTRACT ITEM NO. 5, 6, 7, 8, AND 9)

A. Measurement

1. Unit of Measurement for Ductile Iron Pipe shall be the linear foot of each size installed and accepted following testing, not including fittings. Measurement shall include all labor, materials, and equipment required to install ductile iron pipe shown on the Contract Documents and as specified herein, but not limited to:
 - a. Survey, layout and measurement;
 - b. Test pits to locate existing buried features, as necessary for new work;
 - c. Excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, and aggregate base course.
 - d. Replacing utility segments that are damaged or removed during the installation;
 - e. Temporary road restoration for all trenches, as required;
 - f. Insulation and polyethylene encasement, as specified;

- g. Coatings
- h. Concrete cradle, as specified;
- i. Water main disinfection and testing; leakage testing; and compaction testing;
- j. Abandonment of existing water mains, indicated in the Contract Documents;
- k. Removal/disposal of existing fire hydrants, meter boxes, valves, blow-offs and associated appurtenances as indicated in the Contract Documents.
- l. Site clearing and grubbing, including tree removal.
- m. Surface restoration, including restoration of asphalt driveways, concrete sidewalks, concrete curbs and gutters, and/or concrete v-ditch.
- n. Temporary water service, as required.

B. Payment

- 1. Payment for ductile iron pipe shall be at the contract unit price per linear foot installed, including all appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including, but not limited to:
- 2. Excavation shall be made in accordance with the trenching details provided in the Contract Documents. Additional excavation due to the Contractor's means and methods for construction or when not required due to unknown utility conflicts shall be not paid as additional work. No payment shall be made for unsuitable backfill not ordered or approved by the Engineer.

2.6 FURNISH AND INSTALL FITTINGS, COUPLINGS, AND CAPS (RJ) (CONTRACT ITEM NO. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, AND 26)

A. Measurement

- 1. Unit of Measurement for Fittings, Couplings, and Caps shall be for each fitting, coupling, and cap of each size installed and accepted following testing. Measurement shall include all labor, materials, and equipment required to install fittings, couplings, and caps as shown on the Contract Documents and as specified herein.

B. Payment

- 1. Payment for fittings, couplings, and caps shall be at the contract unit price per each installed, including appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including, but not limited to:
 - a. Survey, layout and measurement;
 - b. Test pits to locate existing buried features, as necessary for new work;
 - c. Excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, and aggregate base course.
 - d. Replacing utility segments that are damaged or removed during the installation;
 - e. Temporary road restoration for all trenches, as required;
 - f. Insulation and polyethylene encasement, as specified;

- g. Disinfection and testing; leakage testing; and compaction testing;
- h. Temporary water service, as required.

2.7 FURNISH AND INSTALL VALVES, VALVE BOXES, AND VALVE EXTENSIONS
(CONTRACT ITEM NO. 27, 28, 29, 30, 31, 32, 33, 34, AND 35)

A. Measurement

- 1. Unit of Measurement for Valves, Valve Boxes, and Valve Extensions, shall be for each valve, valve box, and valve extension of each size and type installed and accepted following testing. Measurement shall include all labor, materials, and equipment required to install valves, valve boxes, and valve extensions as shown on the Contract Documents and as specified herein. Valves installed as part of a Fire Hydrant Assembly are not included.

B. Payment

- 1. Payment for valves, valve boxes, and valve extensions, shall be at the contract unit price per each installed, including appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including, but not limited to:
 - a. Survey, layout and measurement;
 - b. Test pits;
 - c. Excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, and aggregate base course.
 - d. Replacing utility segments that are damaged or removed during the installation;
 - e. Temporary road restoration for all trenches, as required;
 - f. Insulation and polyethylene encasement, as specified;
 - g. Disinfection and testing; leakage testing; and compaction testing;
 - h. Temporary water service, as required.

2.8 FURNISH AND INSTALL 12-INCH 90 DEG. BEND (FLG X FLG) (CONTRACT ITEM NO. 36)

A. Measurement

- 1. Unit of Measurement for 12-inch 90 Deg. Bend (FLG x FLG) shall be for each 12-inch 90 deg. bend (FLG x FLG) installed and accepted following testing. Measurement shall include all labor, materials, and equipment required to install 12-inch 90 deg. bend (FLG x FLG) as shown on the Contract Documents and as specified herein.

B. Payment

- 1. Payment for 12-inch 90 deg. bend (FLG x FLG) shall be at the contract unit price per each installed, including appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including, but not limited to:
 - a. Survey, layout and measurement;
 - b. Test pits to locate existing buried features, as necessary for new work;

- c. Excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, and aggregate base course.
- d. Replacing utility segments that are damaged or removed during the installation;
- e. Temporary road restoration for all trenches, as required;
- f. Insulation and polyethylene encasement, as specified;
- g. Disinfection and testing; leakage testing; and compaction testing;
- h. Temporary water service, as required.

2.9 FURNISH AND INSTALL 12-INCH SCH 80 PVC (CONTRACT ITEM NO. 37)

A. Measurement

- 1. Unit of Measurement for 12-inch SCH 80 PVC shall be the linear foot of installed and accepted following testing. Measurement shall include all labor, materials, and equipment required to install 12-inch SCH 80 PVC shown on the Contract Documents and as specified herein.

B. Payment

- 1. Payment for 12-inch SCH 80 PVC shall be at the contract unit price per linear foot installed, including all fittings and appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including, but not limited to:
 - a. Survey, layout and measurement;
 - b. Test pits to locate existing buried features, as necessary for new work;
 - c. Excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, and aggregate base course.
 - d. Replacing utility segments that are damaged or removed during the installation;
 - e. Temporary road restoration for all trenches, as required;
 - f. Insulation and polyethylene encasement, as specified;
 - g. Concrete cradle, as specified;
 - h. Leakage testing; and compaction testing;
 - i. Surface restoration, including restoration of asphalt driveways, concrete sidewalks, concrete curbs and gutters, and/or concrete v-ditch.
 - j. Temporary water service, as required.
- 2. Excavation shall be made in accordance with the trenching details provided in the Contract Documents. Additional excavation due to the Contractor's means and methods for construction or when not required due to unknown utility conflicts shall be not paid as additional work. No payment shall be made for unsuitable backfill not ordered or approved by the Engineer.

2.10 FURNISH AND INSTALL 16-INCH FERNCO COUPLING (CONTRACT ITEM NO. 38)

A. Measurement

- 1. Unit of Measurement for 16-inch Fernco Coupling shall be for each Fernco coupling installed and accepted following testing. Measurement shall include all labor, materials, and equipment required to install 16-inch Fernco coupling as shown on the Contract Documents and as specified herein.

- B. Payment
 - 1. Payment for 16-inch Fernco Coupling shall be at the contract unit price per each installed, including appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including

2.11 FURNISH AND INSTALL 16-FOOT MECHANICAL GATE & OPERATOR
(CONTRACT ITEM NO. 39)

- A. Measurement
 - 1. Unit of Measurement for 16-foot Mechanical Gate & Operator shall be for each 16-foot mechanical gate and operator installed. Measurement shall include all labor, materials, and equipment required to install 16-foot mechanical gate & operator as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for 16-foot mechanical gate and operator shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.12 FURNISH AND INSTALL STANCHION STYLE OF PIPE SUPPORTS (CONTRACT ITEM NO. 40)

- A. Measurement
 - 1. Unit of Measurement for Stanchion Style Pipe Supports shall be for each stanchion style pipe support installed. Measurement shall include all labor, materials, and equipment required to install stanchion style pipe supports as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for stanchion style pipe supports shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.13 FURNISH AND INSTALL METAL BOLLARD WITH CONCRETE BASE (CONTRACT ITEM NO. 41)

- A. Measurement
 - 1. Unit of Measurement for Metal Bollard with Concrete Base shall be for each metal bollard with concrete base installed. Measurement shall include all labor, materials, and equipment required to install metal bollards with concrete base as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for metal bollards with concrete base shall be at the contract unit price per each installed. Payment and price shall constitute full

compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.14 FURNISH AND INSTALL CONCRETE PIPE SUPPORT (CONTRACT ITEM NO. 42)

A. Measurement

1. Unit of Measurement for Concrete Pipe Support shall be for each concrete pipe support installed. Measurement shall include all labor, materials, and equipment required to install concrete pipe supports as shown on the Contract Documents and as specified herein.

B. Payment

1. Payment for concrete pipe supports shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.15 FURNISH AND INSTALL CONCRETE THRUST COLLAR (CONTRACT ITEM NO. 43)

A. Measurement

1. Unit of Measurement for Concrete Thrust Collar shall be for each concrete thrust collar installed. Measurement shall include all labor, materials, and equipment required to install concrete thrust collars as shown on the Contract Documents and as specified herein.

B. Payment

1. Payment for concrete thrust collars shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.16 FURNISH AND INSTALL 4-INCH YARD HYDRANT (CONTRACT ITEM NO. 44)

A. Measurement

1. Unit of Measurement for 4-inch Yard Hydrant shall be for each 4-inch yard hydrant installed. Measurement shall include all labor, materials, and equipment required to install 4-inch yard hydrants as shown on the Contract Documents and as specified herein.

B. Payment

1. Payment for 4-inch yard hydrant shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.17 FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY (CONTRACT ITEM NO. 45)

A. Measurement

1. Unit of Measurement for Fire Hydrant Assembly shall be for each fire hydrant assembly installed and shall include all labor, materials and equipment required to install the fire hydrant; vertical riser piping; tees/taps from the water main; lead and branch pipe; valve, valve box, and valve box

extension; bends on lead piping; and other related appurtenances for the complete and functional installation of the fire hydrant assembly as shown on the Contract Documents

B. Payment

1. Payment for fire hydrant assembly shall be at the contract unit price per each fire hydrant assembly installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill/select fill, aggregate stone, and aggregate base course, thrust blocks, fittings, restraining; testing; painting, salvaging of the existing fire hydrant, and all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the contract drawings and in the Contract Documents.

2.18 FURNISH AND INSTALL DECHLORINATING OVERFLOW SECURITY ASSEMBLY (CONTRACT ITEM NO. 46)

A. Measurement

1. Unit of Measurement for Dechlorinating Overflow Security Assembly shall be for each dechlorinating overflow security assembly installed. Measurement shall include all labor, materials, and equipment required to install dechlorinating overflow security assembly as shown on the Contract Documents and as specified herein.

B. Payment

1. Payment for dechlorinating overflow security assembly shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.19 FURNISH AND INSTALL RIPRAP OUTLET PROTECTION (CONTRACT ITEM NO. 47)

A. Measurement

1. Unit of measure for Riprap Outlet Protection shall be on a lump sum basis for the work that generally consists of all work specified in the technical specifications and construction drawings for the installation of rip rap outlet protection.

B. Payment

1. Payment for riprap outlet protection will be made at contract unit price per lump sum, which, price and payment shall include all labor, materials, tools, equipment and incidentals needed to complete the work specified.

2.20 FURNISH AND INSTALL STORM DRAINAGE STRUCTURE (CONTRACT ITEM NO. 48)

A. Measurement

1. Unit of Measurement for Storm Drainage Structure shall be for each storm drainage structure installed. Measurement shall include all labor, materials,

and equipment required to install storm drainage structure as shown on the Contract Documents and as specified herein.

B. Payment

1. Payment for storm drainage structure shall be the contract unit price per each storm drainage structure installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill/select fill, aggregate stone, and aggregate base course, fittings, testing, painting, all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract.

2.21 FURNISH AND INSTALL HDPE STORM SEWER PIPING (CONTRACT ITEM NO. 49, AND 51)

A. Measurement

1. Unit of Measurement for HDPE Storm Sewer Piping shall be the linear foot of each size installed and accepted following testing, not including fittings. Measurement shall include all labor, materials, and equipment required to install HDPE storm sewer piping on the Contract Documents and as specified herein.

B. Payment

1. Payment for HDPE storm sewer piping shall be at the contract unit price per linear foot installed, including all appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including, but not limited to:
 - a. Survey, layout and measurement;
 - b. Test pits to locate existing buried features, as necessary for new work;
 - c. Excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, and aggregate base course.
 - d. Replacing utility segments that are damaged or removed during the installation;
 - e. Temporary road restoration for all trenches, as required;
 - f. Insulation and polyethylene encasement, as specified;
 - g. Concrete cradle, as specified;
 - h. Water main disinfection and testing; leakage testing; and compaction testing;
 - i. Site clearing and grubbing, including tree removal.
 - j. Surface restoration, including restoration of asphalt driveways, concrete sidewalks, concrete curbs and gutters, and/or concrete v-ditch.
 - k. Temporary water service, as required.
2. Excavation shall be made in accordance with the trenching details provided in the Contract Documents. Additional excavation due to the Contractor's means and methods for construction or when not required due to unknown utility conflicts shall be not paid as additional work. No payment shall be made for unsuitable backfill not ordered or approved by the Engineer.

2.22 FURNISH AND INSTALL 12-INCH HDPE FLARED END SECTION (CONTRACT

ITEM NO. 50)

- A. Measurement
 - 1. Unit of Measurement for 12-inch HDPE Flared End Section shall be for each 12-inch HDPE flared end section installed. Measurement shall include all labor, materials, and equipment required to install 12-inch HDPE flared end sections as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for 12-inch HDPE flared end section shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.23 FURNISH AND INSTALL DI TO ASBESTOS CLAY PIPE ADAPTER (CONTRACT ITEM NO. 52, AND 53)

- A. Measurement
 - 1. Unit of Measurement for DI to Asbestos Clay Pipe Adapter shall be for each size installed and accepted following testing. Measurement shall include all labor, materials, and equipment required to install DI to asbestos clay pipe adapters as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for DI to asbestos clay pipe adapters shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.24 FURNISH AND INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL (CONTRACT ITEM NO. 54)

- A. Measurement
 - 1. Unit of Measurement for Temporary Erosion and Sediment Control shall be on a lump sum basis for the installation and maintenance of soil stabilization blanket, stone construction entrance, silt fence, and culvert inlet protection. Measurement shall include all labor, materials, and equipment required to install and maintain soil stabilization blanket, stone construction entrance, silt fence, and culvert inlet as specified and/or detailed on the Contract Documents.
- B. Payment
 - 1. Payment for Temporary Erosion and Sediment Controls will be made at the Lump Sum price as stated in the Bid Form.
 - 2. Payment shall be made in two installments. The first fifty percent (50%) of the amount bid for this Item shall be made payable to the Contractor as part of the Contractor's first progress payment request. The second and final payment of fifty percent (50%) of the amount bid for this Item shall be made payable to the Contractor in conjunction with Final Payment of the project.
 - 3. Payment of the Contract lump sum price for Temporary Erosion and Sediment Controls and furnishing all labor, materials, tools, and equipment needed to complete work will not be made more than once, regardless of

the fact that the Contractor may have, for any reason, shut down his work on the project or moved equipment away from the project and then back again.

2.25 FURNISH AND INSTALL VEGETATED CHANNEL (CONTRACT ITEM NO. 55)

A. Measurement

1. Unit of Measurement for Vegetated Channel shall be the linear feet of vegetated channel installed. Measurement shall include all labor, materials, and equipment required to install vegetated channel as specified and/or detailed on the Contract Documents.

B. Payment

1. Payment for vegetated channel shall be made at the Contract unit price per linear foot installed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

2.29 FURNISH AND INSTALL PERMANENT TURF REINFORCEMENT MATTING (CONTRACT ITEM NO. 56)

A. Measurement

1. Unit of Measurement for Permanent Turf Reinforcement Matting shall be the actual square yardage of permanent turf reinforcement matting installed. Measurement shall include all labor, materials, and equipment required to install permanent turf reinforcement matting as specified and/or detailed on the Contract Documents.

B. Payment

1. Payment for permanent turf reinforcement matting will be made at the Contract unit price per square yard that is satisfactorily installed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

2.30 FURNISH AND INSTALL SECURITY FENCING AND GATES (CONTRACT ITEM NO. 57)

A. Measurement

1. Unit of Measurement for Security Fencing and Gates shall be the linear feet of security fencing and gates installed. Measurement shall include all labor, materials, and equipment required to install security fencing and gates as specified and/or detailed on the Contract Documents.

B. Payment

1. Payment for security fencing and gates shall be made at the Contract unit price per linear foot installed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

2.31 FURNISH AND INSTALL PRECAST CONCRETE DOSA VAULT (CONTRACT ITEM NO. 58)

- A. Measurement
 - 1. Unit of Measurement for Precast Concrete DOSA Vault shall be for each precast concrete DOSA vault installed. Measurement shall include all labor, materials, and equipment required to install a precast concrete DOSA vault as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for precast concrete DOSA vault shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill, all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.32 FURNISH AND INSTALL DRAIN OVERFLOW CONCRETE CATCH BASIN, 9.5-FT x 9.5-FT (CONTRACT ITEM NO. 59)

- A. Measurement
 - 1. Unit of Measurement for Drain Overflow Concrete Catch Basin, 9.5-FT x 9.5-FT shall be for each drain overflow concrete catch basin installed. Measurement shall include all labor, materials, and equipment required to install a drain overflow concrete catch basin as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for drain overflow concrete catch basin shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill, all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.33 FURNISH AND INSTALL PRECAST CONCRETE MH, 4-FOOT DIAMETER (CONTRACT ITEM NO. 60)

- A. Measurement
 - 1. Unit of Measurement for Precast Concrete MH, 4-foot Diameter shall be the vertical foot for precast concrete MH, 4-foot diameter installed. Measurement shall include all labor, materials, and equipment required to install a precast concrete MH, 4-foot diameter as shown on the Contract Documents and as specified herein.
- B. Payment
 - 1. Payment for precast concrete MH, 4-foot diameter shall be at the contract unit price per vertical foot installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill, all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.34 CLEARING AND GRUBBING (CONTRACT ITEM NO. 61)

- A. Measurement

1. Unit of Measurement for Clearing and Grubbing shall be the actual square yardage of clearing and grubbing performed. Measurement shall include all labor, materials, and equipment required to perform clearing and grubbing as specified and/or detailed on the Contract Documents and in accordance with Specification Section 31 11 00 – Clearing and Grubbing.

B. Payment

1. Payment for clearing and grubbing will be made at the Contract unit price per square yard that is performed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

2.35 TOPSOIL STRIPPING AND STOCKPILING (CONTRACT ITEM NO. 62)

A. Measurement

1. Unit of Measurement for Topsoil Stripping and Stockpiling shall be the actual square yardage of topsoil stripping and stockpiling performed. Measurement shall include all labor, materials, and equipment required to perform topsoil stripping and stockpiling as specified and/or detailed on the Contract Documents and in accordance with Specification Section 31 14 13.23 – Topsoil Stripping and Stockpiling.

B. Payment

1. Payment for topsoil stripping and stockpiling will be made at the Contract unit price per square yard that is performed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

2.36 FURNISH AND INSTALL DRIVEWAY IMPROVEMENT AND GRAVEL PARKING AREA (CONTRACT ITEM NO. 63)

A. Measurement

1. Unit of Measurement for Driveway Improvement and Gravel Parking Area shall be the actual square yardage of driveway improvement and gravel parking area installed. Measurement shall include all labor, materials, and equipment required to install driveway improvement and gravel parking area as specified and/or detailed on the Contract Documents, including VDOT aggregate, geotextile, and subgrade compaction.

B. Payment

1. Payment for driveway improvement and gravel parking area will be made at the Contract unit price per square yard that is installed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

2.37 EARTH FILL (CONTRACT ITEM NO. 64)

A. Measurement

1. Unit of Measurement for Earth Fill shall be the actual cubic yardage of earth fill placed and compacted. Earth fill will be measured based on the actual compacted cubic yardage of material placed, inclusive of all labor, materials, tools, equipment, and services necessary to complete the work specified.

- B. Payment
 - 1. Payment for earth fill will be made at the Contract unit price per cubic yard that is placed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

2.38 TOPSOIL AND SEEDING (CONTRACT ITEM NO. 65)

- A. Measurement
 - 1. Unit of Measurement for Topsoil and Seeding shall be the actual square yardage of topsoil soil and seeding placed. Measurement shall include all labor, materials, and equipment required to place topsoil and seeding as specified and/or detailed on the Contract Documents and in accordance with Specification Section 32 93 13 – Topsoil and Seeding.
- B. Payment
 - 1. Payment for topsoil and seeding will be made at the Contract unit price per square yard that is placed, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, to complete the work specified.

PART 3 – CONTINGENT ITEMS

Contingent items include those items which may be required during the course of the performance of the work.

3.1 MISCELLANEOUS EXCAVATION AND STONE BACKFILL BELOW SPECIFIED SUBGRADE ELEVATION BENEATH WATER TANK #1 OR #2 (BID ITEM NO. C-1)

- A. Measurement
 - 1. Under this Item, the Contractor shall furnish all labor, materials, and equipment required to perform the work of Excavation and Stone Backfill Below Specified Subgrade Elevation Beneath Water Tank #1 or #2, as ordered by the Engineer, measurement and payment shall be for each cubic yard of specified stone backfill placed and compacted. Work includes procuring, delivering, and installing stone backfill, and Excavation Below Specified Subgrade Elevation Beneath Tank #1 and #2.
- B. Payment
 - 1. Basis of Payment shall be for each cubic yard of stone backfill placed. Payment and price shall constitute full compensation for excavation (including rock) including all labor, equipment, tools and incidentals necessary to complete the work as directed by the Owner or Engineer, including removal and disposal of spoil. No payment shall be made for excavation not specifically directed by the Owner or Engineer. No separate payment will be made for standard bedding; it is an incidental part of the work element to which it applies.

3.2 MISCELLANEOUS EXCAVATION AND COMPACTED STRUCTURAL FILL BELOW SPECIFIED SUBGRADE ELEVATION BENEATH WATER TANK #1 OR #2 (BID ITEM NO. C-2)

A. Measurement

1. Under this Item, the Contractor shall furnish all labor, materials, and equipment required to perform the work of Excavation and Compacted Structural Fill Below Specified Subgrade Elevation Beneath Water Tank #1 or #2, as ordered by the Engineer, measurement and payment shall be for each cubic yard of specified compacted structural fill placed. Work includes procuring, delivering, and installing structural fill, and Excavation Below Specified Subgrade Elevation Beneath Tank #1 and #2.

B. Payment

1. Basis of Payment shall be for each cubic yard of compact structural fill placed. Payment and price shall constitute full compensation for excavation (including rock) including all labor, equipment, tools and incidentals necessary to complete the work as directed by the Owner or Engineer, including removal and disposal of spoil. No payment shall be made for excavation not specifically directed by the Owner or Engineer. No separate payment will be made for standard bedding; it is an incidental part of the work element to which it applies.

3.3 MISCELLANEOUS EXCAVATION AND STONE BACKFILL BELOW SPECIFIED SUBGRADE ELEVATION NOT BENEATH WATER TANK #1 OR #2 (BID ITEM NO. C-3)

A. Measurement

1. Under this Item, the Contractor shall furnish all labor, materials, and equipment required to perform the work of Excavation and Stone Backfill Below Specified Subgrade Elevation Not Beneath Water Tank #1 or #2, as ordered by the Engineer, measurement and payment shall be for each cubic yard of specified stone backfill placed and compacted. Work includes procuring, delivering, and installing stone backfill, and Excavation Not Below Specified Subgrade Elevation Beneath Tank #1 and #2.

B. Payment

1. Basis of Payment shall be for each cubic yard of stone backfill placed. Payment and price shall constitute full compensation for excavation (including rock) including all labor, equipment, tools and incidentals necessary to complete the work as directed by the Owner or Engineer, including removal and disposal of spoil. No payment shall be made for excavation not specifically directed by the Owner or Engineer. No separate payment will be made for standard bedding; it is an incidental part of the work element to which it applies.

3.4 MISCELLANEOUS EXCAVATION AND COMPACTED STRUCTURAL FILL BELOW SPECIFIED SUBGRADE ELEVATION NOT BENEATH WATER TANK #1 OR #2 (BID ITEM NO. C-4)

A. Measurement

1. Under this Item, the Contractor shall furnish all labor, materials, and equipment required to perform the work of Excavation and Compacted Structural Fill Below Specified Subgrade Elevation Not Beneath Water Tank #1 or #2, as ordered by the Engineer, measurement and payment shall be for each cubic yard of specified compacted structural fill placed. Work includes procuring, delivering, and installing structural fill, and Excavation Below Specified Subgrade Elevation Not Beneath Tank #1 and #2.

B. Payment

1. Basis of Payment shall be for each cubic yard of compacted structural fill placed. Payment and price shall constitute full compensation for excavation (including rock) including all labor, equipment, tools and incidentals necessary to complete the work as directed by the Owner or Engineer, including removal and disposal of spoil. No payment shall be made for excavation not specifically directed by the Owner or Engineer. No separate payment will be made for standard bedding; it is an incidental part of the work element to which it applies.

PART 4 – BID ALTERNATES

4.1 BID ALTERNATE 1 - FURNISH AND INSTALL 0.5 MG WELDED STEEL WATER STORAGE TANK (CONTRACT ITEM B-1)

A. Measurement

1. Unit of measurement for the 0.5 MG Welded Steel Water Storage Tank shall be for each water tank installed and shall include all labor, materials, and equipment required to install the water storage tank as shown on the Contract Documents and as specified herein, including but not necessarily limited to the concrete foundation, coatings, side shell manways, outlets and penetrations for piping, electrical, and instrumentation described under other pay items, overflow piping to the stormwater discharge location, access manways/ladders, cathodic protection and other accessory components as shown or specified in the Contract Documents, and miscellaneous work shown or specified, which may not be specifically included under other Items. Work does not include work described under paragraph 2.4, Contract Item 4 – Hydrodynamic Mixing System, instrumentation & controls, and electrical work.

B. Payment

1. Payment for 0.5 MG welded steel water storage tank shall be at the contract unit price per each water storage tank installed, including all fittings and appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work, including but not necessarily limited to excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, aggregate base course, testing, disinfection, commissioning, the concrete foundation, side shell manways,

01 02 00-18
1087705/1940100728

outlets and penetrations for piping, electrical, and instrumentation described under other pay items, access manways/ladders, cathodic protection and other accessory components as shown or specified in the Contract Documents.

END OF SECTION