



## **ADDENDUM NO. 1**

Owner: Town of Haw River  
403 E. Main Street  
Haw River, NC 27258

Project: Town of Haw River - Small Waterlines Replacement  
NCDWI Project No. SRP-D-ARP-0217  
AWCK Project No. 23009

Bid Opening: **Tuesday, March 11<sup>th</sup>, 2025 at 2:00 PM**  
Town of Haw River – Town Hall  
403 East Main Street  
Haw River, North Carolina 27258

Date: February 19<sup>th</sup> 2025

### **General**

The following changes, additions, deletions, interpretations and corrections are herewith made a part of the referenced project and shall take precedence over previous requirements. Contractors shall familiarize themselves with the content of this addendum, as it is a part of the contract documents.

**Bidders are instructed to initial that Addendum No. 1 was received at the appropriate location on Page 1 of the Bid Form. Bidders are encouraged to email Kensie Culler ([kculler@awck.com](mailto:kculler@awck.com)) acknowledging receipt of Addendum.**

### **Item No. 1 – Rock and Borrow Excavation**

**Clarification:** Bidders are advised to review the following specifications regarding Rock Excavation:

1. Page B-1, paragraph 3.01 Subsurface Information.
2. Page OSHA-1, General Requirements.
3. Section 01025, paragraph D, E, P, AA, CC, DD, and EE.
4. Section 02010, paragraph A.
5. Water Lines, Paragraphs 4, 5, 7, 8-and 26.

**Addition:** Bid Form has been revised to include Item No. 45, Rock Excavation. The Estimated Quantity for Rock Excavation is 100 cy.

**Addition:** Section 01025, paragraph II has been added (see page 01025-11R attached at end of Addendum).

**Clarification:** Bidders are advised to review the following specifications regarding Borrow Excavation:

1. Water Lines Paragraph 26.
2. Project Special Provisions.

**Addition:** Bid Form has been revised to include Item No. 46, Borrow Excavation. The Estimated Quantity for Borrow Excavation is 350 cy.

**Addition:** Section 01025, paragraph JJ has been added (see page 01025-11R attached at end of Addendum).

**Addition:** Borrow Excavation requirements have been added to PSP, see page PSP-7R (attached at end of Addendum).

### **Item No. 2 – Contract Time**

**Revision:** The date of availability for the contract is revised to May 27, 2025, or date defined on Notice to Proceed.

**Revision:** The completion time for the contract is revised from 300 days to 365 days.

### **Item No. 3 – Bid Item No. 16**

**Clarification:** Unit price for Fire Hydrant includes hydrant tee, gate valve, valve box, mega-lugs, hydrant, blocking, backfilling, washed stone, final adjustment and all other appurtenances between hydrant tee and hydrant.

**Revision:** Bid Form, Bid item No. 16 has been revised.

**Revision:** Section 01025, Bid Item No. 16 has been revised (see page 01025-3R attached at end of Addendum).

### **Item No. 4 – Bid Item No. 26**

**Clarification:** Bore and Jack assumed to be a dirt bore, should rock be encountered, contractor is instructed to notify engineer and payment will be made via change order.

**Revision:** Section 01025, Bid Item No. 26 has been revised (see page 01025-6R attached at end of Addendum).

### **Item No. 5 – Bid Item No. 27**

**Revision:** 12” HDPE will be accepted in lieu of 12” RCP.

**Revision:** Bid Form has been revised to include 12” HDPE.

**Addition:** Section 01025, paragraph \_ has been added (see page 01025-6R attached at end of Addendum).

### **Item No. 6 – N. Spray Place Exploration**

**Addition:** Bid Form has been revised to include Item No. 47, “N. Spray Pl. Exploration” the Bid Item is to be Lump Sum.

**Addition:** Section 01025, Paragraph KK has been added (see page 01025-12R attached at end of Addendum).

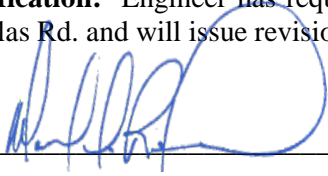
### **Item No. 7 – Second Street Chlorination**

**Addition:** Bid Form has been revised to include Item No. 48, “Second Street Chlorination”, Bid Item is to be Lump Sum.

**Addition:** Section 01025, Bid Item No. 48 has been added (see page 01025-12R attached at end of Addendum).

**Item No. 8 – Gas Line Relocation**

**Clarification:** Engineer has requested a quote from Dominion Energy for the relocation of gas line on Douglas Rd. and will issue revisions in another addendum.

  
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Mark D. Reich, P.E.

Alley, Williams, Carmen & King, Inc.

Firm License No. F-0203



**Attachments:**

Revised Bid Form

Revised Section 01025 – Measurement and Payment

Revised Project Special Provisions

**BID FORM**  
**Small Waterlines Replacement**  
**NCDWI Project No: SRP-D-ARP-0217**

PROJECT IDENTIFICATION:

**Town of Haw River  
Water System Improvements  
Small Waterlines Replacement**

THIS BID IS SUBMITTED TO:

**Town of Haw River  
403 East Main Street  
Haw River, NC 27258  
Attention: Mr. Sean Tencer, Town Manager**

1. The undersigned bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents within the specified time and for the amount indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the invitation to Bid and the Instructions to Bidders, including without limitation those dealing with the disposition of bid security. This Bid will remain subject to acceptance for 120 calendar days after the day of bid opening. Following Owner's Notice of Award, Bidder will submit signed Contract Documents with proper Bonds, Insurance Certificates, etc., within fourteen (14) calendar days of receipt.
3. In submitting this Bid, Bidder represents that:
  - a. Bidder has examined copies of all the Bidding Documents and of the following Addenda (receipt of all which is hereby acknowledged):  
  
No. \_\_\_\_\_ Dated \_\_\_\_\_  
  
No. \_\_\_\_\_ Dated \_\_\_\_\_  
  
No. \_\_\_\_\_ Dated \_\_\_\_\_
  - b. Bidder has visited the site and become familiar with and satisfied itself as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work.
  - c. Bidder is familiar with and has satisfied itself as to all Federal, State and Local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.

- d. Bidder acknowledges Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to underground facilities at or contiguous to the site.
  - e. Bidder is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.
  - f. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.
  - g. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Bidder, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.
  - h. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm or corporation to obtain for itself any advantage over any other Bidder or over Owner.
4. Bidder will complete the Work for the following prices:

**Small Waterlines Replacement – NCDWI Project No.: SRP-D-ARP-0217**

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Amount
1	Mobilization	1	LS	\$	\$
2	Traffic Control	1	LS	\$	\$
3	Seeding and Mulching	1	LS	\$	\$
4	8" Class 50 Ductile Iron Watermain, including pipe, bedding, blocking, and testing; complete in place as directed by Engineer	40	LF	\$	\$
5	6" Class 50 Ductile Iron Watermain, including pipe, bedding, blocking, and testing; complete in place as directed by Engineer	8,770	LF	\$	\$
6	6" Class 50 Restrained Joint Ductile Iron Watermain, including pipe, bedding, blocking, and testing; complete in place as directed by Engineer	216	LF	\$	\$
7	4" Class 50 Ductile Iron Watermain, including pipe, bedding, blocking, and testing; complete in place as directed by Engineer	360	LF	\$	\$

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Amount
8	2" Copper Type 'K' Watermain, including pipe, bedding, blocking, and testing; complete in place as directed by Engineer	200	LF	\$	\$
9	10" X 6" Tapping Sleeve and Valve; complete in place as directed by Engineer	1	EA	\$	\$
10	8" X 6" Tapping Sleeve and Valve; complete in place as directed by Engineer	1	EA	\$	\$
11	8" X 4" Tapping Sleeve and Valve; complete in place as directed by Engineer	1	EA	\$	\$
12	6" X 6" Tapping Sleeve and Valve; complete in place as directed by Engineer	13	EA	\$	\$
13	8" Gate Valves, including valve boxes and extensions; complete in place as directed by Engineer	1	EA	\$	\$
14	6" Gate Valves, including valve boxes and extensions; complete in place as directed by Engineer	26	EA	\$	\$
15	4" Gate Valves, including valve boxes and extensions; complete in place as directed by Engineer	1	EA	\$	\$
16	Fire Hydrant, bury as shown, including hydrant tee, gate valve, valve box, mega-lugs, hydrant, blocking, backfilling, washing stone, final adjustment, etc.	9	EA	\$	\$
17	Ductile Iron Compact Fittings; complete in place as directed by the Engineer	2,620	LB	\$	\$
18	8" Mega-Lugs, complete in place as directed by Engineer	5	EA	\$	\$
19	6" Mega-Lugs, complete in place as directed by Engineer	202	EA	\$	\$
20	4" Mega-Lugs, complete in place as directed by Engineer	10	EA	\$	\$
21	2" Blow Off Assembly, complete in place as directed by Engineer	4	EA	\$	\$
22	3/4" Water Service Connection (Short), including piping, fittings, valves, complete in place	42	EA	\$	\$
23	3/4" Water Service Connection (Long), including piping, fittings, valves, complete in place	39	EA	\$	\$
24	Meter Setter Replacements, to be incorporated as directed by Engineer	15	EA	\$	\$

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Amount
25	Meter Box Replacements, to be incorporated as directed by Engineer.	15	EA	\$	\$
26	Bore & Jack Road Crossing, including 6" restrained joint DIP and 16" steel encasement	40	LF	\$	\$
27	12" RCP/HDPE; complete in place as directed by Engineer	16	LF	\$	\$
28	Town of Haw River Street Pavement Repair, including saw cut, six-inch (6") B25.0B and two-inch (2") S9.5B, complete in place; as directed by the Engineer.	2,400	SY	\$	\$
29	NCDOT Pavement Repair, including saw cut, eleven-inch (11") B25.0B and two-inch (2") S9.5B, complete in place; as directed by the Engineer.	60	SY	\$	\$
30	NCDOT Pavement Overlay, including milling existing asphalt and placement of two-inch (2") S9.5B, complete in place; as directed by the Engineer.	275	SY	\$	\$
31	Concrete Driveway Repair, complete in place as directed by Engineer	160	SY	\$	\$
32	Curb and Gutter Repair; complete in place as directed by the Engineer	10	LF	\$	\$
33	Incidental Stone, to include use of stone to repair gravel driveways; complete in place as directed by Engineer	120	TN	\$	\$
34	Class 'B' Rip-Rap, complete in place	20	TN	\$	\$
35	Wattles, to be installed per NCDOT specifications, as directed by Engineer	500	LF	\$	\$
36	Gas Line Relocation, including coordination with gas company	1	EA	\$	\$
37	Clayton Place Sta. 4+56 – 4+66, including all materials and labor as directed by the Engineer	1	LS	\$	\$
38	Clayton Place Watermain Trench Repair	110	TN	\$	\$
39	Lang Street exploration, including the investigation of 15 potholes as required by Engineer to determine required depth of watermain	1	LS	\$	\$
40	Cemetery Street exploration, including the investigation of 8" DIP existing under US 70.	1	LS	\$	\$
41	Connection to Existing Watermain on Ruby Lane	1	LS	\$	\$

Item No.	Description	Estimated Quantity	Unit	Unit Price	Bid Amount
42	2" Watermain Abandonment, including excavation and capping of existing 2" watermain and coordination with Town for closing valves to 2" watermain.	24	EA	\$	\$
43	Stabilization Stone	50	TN	\$	\$
44	Hymax Grip Couplings	4	EA	\$	\$
45	Rock Excavation, (Min. \$30.00 per CY)	100	CY	\$	\$
46	Borrow Material	350	CY	\$	\$
47	N. Spray Pl. Exploration	1	LS	\$	\$
48	Second St. Chlorination	1	LS	\$	\$

**TOTAL BASE BID**

\$

5. Bidder agrees that the Work covered by the section or sections included in the contract award will be completed within the following number of days after the date when the Contract time commences to run as provided in Paragraph 4.01 of the General Conditions. Completion shall mean completed and ready for final payment in accordance with Paragraph 15.03 of the General Conditions.

Contract Time of Completion: 365 days

Bidder also agrees that should the Bidder fail to accept a Contract if awarded to them, or default on any other provisions of a Contract Award, the cash, certified check, or Bid Bond attached hereto shall become the property of the Owner as ascertained as Liquidating Damages for such default.

6. Communications concerning this Bid shall be sent to Bidder at the following address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. The terms used in this Bid, which are defined in the General Conditions included as part of the Contract Documents, have the meanings assigned to them in the General Conditions.



8. 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 provided, determined as provided in the contract documents.
9. Bidder accepts the provisions of the Agreement as to Liquidated Damages in the event of failure to complete the work within the times specified above, which shall be stated in the Agreement. Bidder agrees that as Liquidated Damages for delay (but not as a penalty), Bidder shall pay Owner **Five Hundred Dollars (\$500.00)** for each day that expires after the time specified and in accordance with the Agreement.
10. The following documents are attached to and made a condition of the Bid:
  - A. Required Bid security in the form of Bid Bond – Certified Check (circle type of security provided);
  - B. Bidder is instructed to complete the Contractor's Qualification Statement; see pages QS-1 to QS-3;
  - C. Bidder is instructed to complete either Affidavit A (pages MBE 9 and 10) or Affidavit B (page MBE-11).
  - D. Bidder is instructed to complete the Affidavit of Compliance with N.C. E-Verify Statutes within 48 hours of bid opening; see page 000500-1.

SIGNATURE OF BIDDER

Contractor's License Number \_\_\_\_\_

License Expiration Date \_\_\_\_\_

If an Individual

By \_\_\_\_\_  
(Signature of Individual)

doing business as \_\_\_\_\_

Business address \_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_ Date \_\_\_\_\_, 20\_\_\_\_

If a Partnership

By \_\_\_\_\_  
(Firm Name)

\_\_\_\_\_  
(signature of general partner)

Business address \_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_ Date \_\_\_\_\_, 20\_\_\_\_

If a Corporation

By \_\_\_\_\_  
(Corporation Name)

\_\_\_\_\_  
(signature of authorized person)

\_\_\_\_\_  
(title)

Business address \_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_ Date \_\_\_\_\_, 20\_\_\_\_

Fax No. \_\_\_\_\_

END OF SECTION

## SECTION 01025 – MEASUREMENT AND PAYMENT

### PART 1 - GENERAL

#### 1.7 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1-16 Specification Sections, apply to this Section.

#### 1.8 SUMMARY

- A. This Section specifies the measurement and payment of the contract unit prices for the project.
- B. Related Sections include the following:
  - 1. “Bid Form” for unit price quantities and bid amounts.
  - 2. Division 1 Section "Application for Payment”.
  - 3. Division 2 – all Sections.

#### 1.9 GENERAL

- A. The bid items shown in the Bid Form have been created solely for the purpose of comparison of bids and for use in the preparation of monthly Applications for Payment. Quantities shown thereon must be considered as approximate only.
- B. Basis for payment and unit of measurement for the work under this contract shall be in accordance with the following and shall include furnishing all labor, tools, equipment and materials required to construct the improvements in the manner specified including but not limited to all types of excavation, trenching, shoring, pumping, pipe installation, testing, backfilling, repairs, surface restoration and all other items necessary to complete the work as specified.
- C. All work shown on the plans herein specified or implied in any way on the drawings or specifications shall be done regardless of whether or not the work is specifically defined in any bid item.
- D. The non-utilization or partial utilization of any bid item shall not serve as a claim for any contract or unit price adjustment as the Contractor shall be paid the unit price bid for the number of units actually incorporated and accepted into the work.
- E. Payment and measurement will be based on this Section.
- F. Payment for lump sum items will be paid based on a percent complete basis determined by the Engineer.

1.10 PAY ITEMS

**A. Bid Item #1 – Mobilization**

1. Payment for Mobilization will be paid for at the contract lump sum price for “Mobilization”. No additional payment will be made for insurance, bonds or additional items associated with project start-up, etc. since the work is considered to be included in the lump sum bid for Mobilization.
2. Partial payments for the item of “Mobilization” will be made with the first and second Application for Payments paid on the contract, and will be made at the rate of 50% of the lump sum price for “Mobilization” on each of these Application for Payments, provided the amount bid does not exceed 5% of the total amount bid for the project. Where the amount bid for “Mobilization” exceeds 5% of the total bid, 2-1/2% of the total amount bid will be paid on each of the first two Applications for Payment, and that portion exceeding 5% will be paid on the final Application for Payment.

**B. Bid Item #2 – Traffic Control**

1. Payment for Traffic Control will be paid for at the contract lump sum for “Traffic Control” and will be full compensation for all work described in the contract documents.
2. Partial payments will be made based on percentage of work completed to date as determined by the Engineer.

**C. Bid Item #3 – Seeding and Mulching**

1. Payment for seeding and mulching will be paid for at the contract lump sum price for “Seeding and Mulching”. No additional payment will be made for seedbed preparation, seed, fertilizer, lime, or repair seeding to completely restore disturbed areas to preconstruction condition or better, since the work is considered incidental to the work and is to be included in the contract lump sum price.

**D. Bid Items #4 - #7 – Class 50 Ductile Iron Watermain**

1. Payment for Ductile Iron Watermain will be based on the actual number of linear feet of ductile iron pipe incorporated and accepted into the work and measured to the nearest 0.1 linear foot.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), backfilling, dewatering, joint restraint as required on the plans or in the specifications, testing or chlorination required to install the ductile iron pipe, etc., since the work is considered incidental to the work and is to be included in the unit price bid.
3. All concrete blocking is considered incidental to the work and shall be included in the unit price bid.
4. Payment for Ductile Iron Water Mains will be made at the contract unit price per linear foot incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**E. Bid Item #8 – 2” Copper Type ‘K’ Watermain**

1. Payment for 2” Copper Type ‘K’ Watermain will be based on the actual number of linear feet of copper pipe incorporated and accepted into the work and measured to the nearest 0.1 linear foot.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), backfilling, dewatering, joint restraint as required on the plans or in the specifications, testing or chlorination required to install the ductile iron pipe, etc., since the work is considered incidental to the work and is to be included in the unit price bid.

3. All concrete blocking is considered incidental to the work and shall be included in the unit price bid.
4. Payment for Ductile Iron Water Mains will be made at the contract unit price per linear foot incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**F. Bid Items #9 - #12 – Tapping Sleeve and Valves**

1. Payment for Tapping Sleeve and Valve will be based on the actual number of units incorporated and accepted into the work. Each “unit” includes a tapping sleeve and gate valve as a complete assembly.
2. No additional payment will be made for excavation, bedding, concrete blocking, backfilling, setting of valve box, concrete collar, testing, chlorination, etc. since the work is to be included in the unit price bid.
3. Payment for Tapping Sleeve and Valve will be made at the contract unit price per each incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**G. Bid Items #13 - #15 – Gate Valves**

1. Payment for gate valves will be paid for at the contract unit price for each size gate valve incorporated and accepted into the work. Payment will be full compensation for all work described in the contract documents.
2. No additional payment will be made for excavation, bedding, backfilling, setting of valve box, concrete collar, testing, chlorination, etc. since the work is to be included in the unit price bid.
3. All concrete blocking is considered incidental to the work and shall be included in the unit price bid.
4. Payment for Gate Valves will be made at the contract unit price per each incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**H. Bid Items #16 – Fire Hydrant**

1. Payment for fire hydrant installation will be based on the actual number of fire hydrants incorporated and accepted into the work. Payment will be full compensation for all work described in the Contract Documents.
2. Fire hydrant installation shall include a fire hydrant with 4 1/2” valve opening (3’ - 6” bury depth), excavation, hydrant tee, up to 15 lf of 6” DIP, 6” gate valve, valve box, mega-lugs, blocking, backfilling, washed stone, final adjustment and painting of hydrant after installation.
3. Hydrant extensions, above the 3’ - 6” bury depth, required to install the hydrant at proper grade are considered incidental to the work and shall be included in the unit price bid.
4. Hydrant Extensions shall be of the same manufacturer as the Fire Hydrant installed upon.
5. Payment for fire hydrant installation will be paid for at the contract unit price for each “Fire Hydrant” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

## I. Bid Item #17 – Compact Ductile Iron Fittings

1. Payment for ductile iron compact fittings will be based on the following weights for each type of fitting and will be based on the actual number of fittings incorporated and accepted into the work.

<u>Description</u>	<u>Weight</u>	<u>Description</u>	<u>Weight</u>
30" - 90° Bend	1690#	30" x 8" Tee, Compact	1745#
30" - 45° Bend	1380#	30" x 16" Tee, Compact	1820#
30" - 22.5° Bend	1400#	24" x 16 Tee, Compact	625#
30" - 11.25° Bend	1410#	24" x 6" Hyd. Tee, Compact	454#
24" - 90° Bend Compact	695#	16" x 16" Tee, Compact	323#
24" - 45° Bend Compact	475#	16" x 6" Hyd. Tee, Compact	229#
24" - 22.5° Bend Compact	460#	12" x 6" Hyd. Tee, Compact	128#
24" - 11.25° Bend Compact	457#	6" x 6" Hyd. Tee, Compact	60#
16" - 90° Bend Compact	264#	12" x 6" Tee, Compact	115#
16" - 45° Bend Compact	202#	12" x 8" Tee, Compact	123#
16" - 22.5° Bend Compact	179#	12" x 12" Tee, Compact	165#
16" - 11.25° Bend Compact	159#	12" Sleeve, Compact	56#
12" - 90° Bend Compact	124#	6" Sleeve, Compact	37#
12" - 45° Bend Compact	101#	30" Plug, Compact	660#
12" - 22.5° Bend Compact	85#	24" Plug, Compact	214#
12" - 11.25° Bend Compact	73#	16" Plug, Compact	100#
8" - 90° Bend, Compact	61#	12" Plug, Compact	53#
8" - 45° Bend, Compact	49#	8" Plug, Compact	30#
8" - 22.5° Bend, Compact	44#	6" Plug, Compact	19#
8" - 11.25° Bend, Compact	40#	12"x8" Reducer	60#
6" - 90° Bend, Compact	44#	12"x6" Reducer	60#
6" - 45° Bend, Compact	37#	8" Tapping Sleeve	290#
6" - 22.5° Bend, Compact	33#	6" Tapping Sleeve	225#
6" - 11.25° Bend, Compact	31#	12" Wye, Compact	249#
6" Tee, Compact	60#	12"x6" Cross, Compact	129#

2. Payment for ductile iron compact fittings not listed above will be based on the book, Pipe Economy (2000) from McWane, Inc. Weights for each type of fitting and will be based on the actual number of fittings incorporated and accepted into the work.
3. No additional payment will be made for excavation, bedding, concrete blocking, backfilling, testing, chlorination, etc., since the work is considered incidental to the work and is to be included in the unit price bid per pound.
4. All concrete blocking is considered incidental to the work and shall be included in the unit price bid.
5. Payment for compact ductile iron fittings will be paid for at the contract unit price per pound for "Compact Ductile Iron Fittings" (based on the above unit weights) incorporated and accepted into the work and will be full compensation for all work described in the Contract Documents. The Owner reserves the right to change the fittings as necessary to accommodate field conditions, or to add fittings using the above unit weights as basis for payment.

**J. Bid Item #18 - #20 Mega-Lugs**

1. Payment for Mega-Lugs will be based on the actual number of mega-lugs installed and accepted into the work.
2. No additional payment will be made for gaskets, bolts, hardware, etc. since the work is considered incidental to the work and shall be included in the unit price bid.
3. Pricing for Mega-Lugs used on valves and fittings shall not be included in the pricing for each individual bid item. All Mega-Lugs, with exception of mega-lugs used for the installation of hydrants, will be quantified and paid for by the corresponding "Mega-Lug" unit price bid item.

**K. Bid Item #21 – 2" Blow off Assembly**

1. Payment for 2" Blow off Assembly will be based on the actual number of units incorporated and accepted into the work. Each "unit" includes the 2" copper piping and fittings required as a complete assembly.
2. No additional payment will be made for excavation, bedding, concrete blocking, backfilling, setting of valve box, testing, chlorination, etc. since the work is to be included in the unit price bid.
3. Payment for 2" Blow off Assembly will be made at the contract unit price per each incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**L. Bid Items #22 & #23 – ¾" Water Service Connection**

1. Payment for ¾" water service connections will be based on the actual number of service connections installed and accepted into the work.
2. No additional payment will be made for excavation, tapping of the water main, installation of new service line and meter, connection of new service line to existing service line, and backfilling as the work is considered incidental to the work and is to be included in the unit price bid.
3. No additional payment will be made for directional drilling required to extend service lines from the watermain to the opposite side of the road where the existing water meter is located as the work is considered incidental to the work and is to be included in the unit price bid for Bid Item #23.
4. Payment for service connections will be made at the contract unit price for each "¾" Water Service Connection" incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**M. Bid Item #24 – Meter Setter Replacements**

1. Payment for Meter Setters will be based on the actual number of units incorporated and accepted into the work, not including the reuse of existing meter setters.
2. Payment for Meter Setters will only be made when the existing meter setter cannot be used, as determined by the Engineer's Project Representative.
3. Payment for Meter Setter Replacement will be made at the contract unit price per each meter setter incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**N. Bid Item #25 – Meter Box Replacements**

1. Payment for Meter Boxes will be based on the actual number of units incorporated and accepted into the work, not including the reuse of existing meter boxes.
2. Payment for Meter Boxes will only be made when the existing meter box cannot be used, as determined by the Engineer's Project Representative.

3. Payment for Meter Boxes will be made at the contract unit price per each meter box incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**O. Bid Item #26 – Bore & Jack Road Crossing**

1. Payment for Bore and Jack Road Crossings will be based on the actual linear footage of waterline installed and accepted into the work installed using boring and jacking construction methods.
2. The unit price bid shall include steel casing pipe, complete with support spiders as detailed in the construction documents. Restrained joint pipe to be paid for under bid item for “6” Restrained Joint DIP”.
3. No additional payment will be made for excavation of bore pits and receiving pits, pavement demolition required for pit installation, connection to existing and/or proposed waterlines, and backfilling as the work is considered incidental to the work and is to be included in the unit price bid.
4. No additional payment will be made for dewatering which may be required, as the work is considered incidental to the work and is to be included in the unit price bid.
5. Bore and Jack assumed to be a dirt bore, should rock be encountered, contractor is instructed to notify engineer and payment will be made via change order.
6. Payment for Bore and Jack Road Crossings will be made at the contract unit price for each crossing incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**P. Bid Item #27 – 12” RCP/HDPE**

1. Payment for 12” RCP/HDPE will be based on the actual number of linear feet of pipe incorporated and accepted into the work and measured to the nearest 0.1 linear foot.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), backfilling, dewatering as required on the plans or in the specifications, the work is considered incidental to the work and is to be included in the unit price bid.
3. Payment for 12” RCP/HDPE will be made at the contract unit price per linear foot incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**Q. Bid Item #28 – Town of Haw River Street Pavement Repair**

1. Payment for “Town of Haw River Street Pavement Repair” will be based on the actual number of square yards of asphalt placed and accepted into the work. Work includes fine grading, excavation, removal of temporary stone, saw cutting existing pavement, placement of new pavement, and traffic control.
2. Payment for asphalt will be based on the actual number of square yards of asphalt and placed and accepted into the work.
3. No additional payment will be made for temporary stone used for patching of trenches to allow roads to be reopened while awaiting asphalt pavement since this work is considered incidental to the work and is to be included in the unit price bid.
4. “Town of Haw River Street Pavement Repair” is to be limited to the maximum width of the trench plus 12” on each side of trench or where asphalt pavement will be replaced to the edge of pavement. Contractor is to provide tickets from asphalt supplier to verify tonnage with expected square yards.
5. No additional payment will be made beyond limits set forth on drawing details unless approved by the Resident Project Representative.

**R. Bid Item #29 – NCDOT Pavement Repair**



1. Payment for “NCDOT Pavement Repair” will be based on the actual number of square yards of asphalt placed and accepted into the work. Work includes fine grading, excavation, removal of temporary stone, saw cutting existing pavement, placement of new pavement, and traffic control.
2. Payment for asphalt will be based on the actual number of square yards of asphalt and placed and accepted into the work.
3. No additional payment will be made for temporary stone used for patching of trenches to allow roads to be reopened while awaiting asphalt pavement since this work is considered incidental to the work and is to be included in the unit price bid.
4. “NCDOT Pavement Repair” is to be limited to the maximum width of the trench plus 24” on each side. Contractor is to provide tickets from asphalt supplier to verify tonnage with expected square yards.
5. No additional payment will be made beyond limits set forth on drawing details unless approved by the Resident Project Representative.

**T. Bid Item #30 – NCDOT Pavement Overlay**

1. Payment for “NCDOT Pavement Overlay” will be based on the actual number of square yards of asphalt placed and accepted into the work. Work includes milling of existing pavement, placement of new pavement, and traffic control.
2. Payment for asphalt will be based on the actual number of square yards of asphalt and placed and accepted into the work.
3. “NCDOT Pavement Overlay” is to be limited to the extents shown on the drawings. Contractor is to provide tickets from asphalt supplier to verify tonnage with expected square yards.
4. No additional payment will be made beyond limits set forth on drawings unless approved by the Resident Project Representative.

**U. Bid Item #31 – Concrete Driveway Repair**

1. Payment for “Concrete Driveway Repair” will be based on the actual number of square yards of concrete placed and accepted into the work. Work includes removal of existing driveway, placement of new concrete, and coordination with resident to allow ingress/egress from property.
2. Payment for concrete will be based on the actual number of square yards of concrete placed and accepted into the work.
3. “Concrete Driveway Repair” is to be limited to the extents shown on the drawings. Contractor is to provide tickets from concrete supplier to verify with expected square yards.
4. No additional payment will be made beyond limits set forth on drawings unless approved by the Resident Project Representative.

**V. Bid Item #32 – Curb & Gutter Repair**

1. Payment for “Curb & Gutter Repair” will be based on the actual number of linear feet of curb placed and accepted into the work. Work includes removal of existing curb and gutter, placement of new curb and gutter.
2. Payment for curb and gutter repair will be based on the actual number of linear feet of curb placed and accepted into the work.
3. No additional payment will be made beyond limits set forth on drawings unless approved by the Resident Project Representative.

**W. Bid Item #33 – Incidental Stone**

1. Incidental stone is defined as stone used for temporary or permanent driveway replacement stone, used in parking lots/areas, roadway shoulder, or as otherwise directed by the Resident Project Representative. No direct payment will be made for stone screenings used on roadways. Stone will be ABC stone, #57, or other type stone as needed or directed. Stone replaced on unpaved areas or graveled areas will need to be the same type of stone as existing type unless otherwise noted.
1. Payment will be based on the actual number of tons based on quarry tickets. Quarry tickets shall be given to inspector at time of delivery and pay item will be marked on ticket. Tickets not given to Resident Project Representative will not be paid for. Stone wasted or not used in the opinion of the Resident Project Representative shall be deducted from the quarry tickets.
2. No additional payment will be made to backfill, compact stone, etc. in NCDOT roadway and driveways or to dispose of the excavated materials since the work is considered incidental to the work and is to be included in the unit price bid. No direct payment will be made for screenings used on the roadway to keep soil or other matter off the pavement.
3. Payment for installation of incidental stone will be paid for at the contract unit price per ton for “Incidental Stone” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**X. Bid Item #34 – Class ‘B’ Rip-Rap**

1. Payment will be based on the actual number of tons based on quarry tickets. Quarry tickets shall be given to inspector at time of delivery and pay item will be marked on ticket. Tickets not given to Resident Project Representative will not be paid for. Stone wasted or not used in the opinion of the Resident Project Representative shall be deducted from the quarry tickets.
2. Rip-Rap used outside of areas indicated on plans will not be paid for unless directed by the Engineer.
3. Payment for installation of incidental stone will be paid for at the contract unit price per ton for “Class ‘B’ Rip-Rap” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**Y. Bid Item #35 – Wattles**

1. Payment for the installation of wattles for erosion control on roadways will be based on the actual number of linear feet of wattles incorporated and accepted into the work measured to the nearest linear foot.
2. No additional payment will be made for overlapping wattles as it is considered incidental to the work and is to be included in the unit price bid.
3. Payment for wattles will be made at the contract unit price per linear foot for “Wattles” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**Z. Bid Item #36 – Gas Line Relocation**

1. Payment for “Gas Line Relocation” will be paid for at Lump Sum cost for all work required to organize movement of the Gas line with the Gas company.
2. No additional payment will be made for coordination, excavation, etc. as it is considered incidental to the work.
3. Payment for Gas Line Relocation will be made at the contract Lump Sum unit price for “Gas Line Relocation” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**AA. Bid Item #37 – Clayton Place Waterline Installation from 4+56 – 4+66**

1. Payment for “Clayton place Sta. 4+56 – 4+66” will be paid for at Lump Sum cost for all work required to incorporate the waterline into the work from sta. 4+56 to 4+66.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), backfilling, dewatering, joint restraint as required on the plans or in the specifications, fittings as required to avoid conflicts, testing or chlorination required to install the ductile iron pipe, etc., since the work is considered incidental to the work and is to be included in the unit price bid.
3. Payment for Clayton Place waterline will be made at the contract Lump Sum unit price for “Clayton place Sta. 4+56 – 4+66” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**BB. Bid Item #38 – Clayton Place Watermain Trench Repair**

1. Payment for “Clayton Place Watermain Trench Repair” will be based on the actual tonnage of stone placed and accepted into the work.
2. Payment will be based on the actual number of tons based on quarry tickets. Quarry tickets shall be given to inspector at time of delivery and pay item will be marked on ticket. Tickets not given to Resident Project Representative will not be paid for. Stone wasted or not used in the opinion of the Resident Project Representative shall be deducted from the quarry tickets.
3. No additional payment will be made to backfill, compact stone, etc. in driveways or to dispose of the excavated materials since the work is considered incidental to the work and is to be included in the unit price bid.
4. Payment for installation of trench repair stone will be paid for at the contract unit price per ton for “Clayton Place Watermain Trench Repair” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**CC. Bid Item #39 – Lang Street Exploration**

1. Payment for “Lang Street Exploration” will be paid for at Lump Sum cost for all work required to investigate depths at 15 locations along lang street as determined by engineer to gather information on the depth of the existing watermain.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), disposal of material from site, etc. since the work is considered incidental to the work and is to be included in the unit price bid.
3. Payment for Lang Street Exploration will be made at the contract Lump Sum unit price for “Lang Street Exploration” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**DD. Bid Item #40 – Cemetery Street Exploration**

1. Payment for “Cemetery Street Exploration” will be paid for at Lump Sum cost for all work required to investigate location and depth of 8” DIP watermain under US 70.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), disposal of material from site, etc. since the work is considered incidental to the work and is to be included in the unit price bid.
3. Payment for Cemetery Street Exploration will be made at the contract Lump Sum unit price for “Cemetery Street Exploration” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**EE. Bid Item #41 – Connection to Existing Watermain on Ruby Lane**

1. Payment for watermain connection will be paid for at Lump Sum cost for all work required to investigate location and depth of watermain on Ruby Lane and make the connection as required.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), disposal of material from site, etc. since the work is considered incidental to the work and is to be included in the unit price bid.
3. 8” DIP and 8” Gate Valves will not be included in this bid item and will be paid for at their respective unit prices.
4. Payment for connection to Ruby Lane will be made at the contract Lump Sum unit price for “Connection to Existing Watermain on Ruby Lane” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**FF. Bid Item #42 – 2” Watermain Abandonment**

1. Payment for “2” Watermain Abandonment” will be based on the actual number of lines abandoned of 2” watermain including closing of water valves and capping of ends of pipe. Price shall include all labor, material, traffic control, and equipment to complete the work in accordance with the contract documents.
2. No additional payment will be made for excavation, backfill, concrete materials, etc. required to complete the work as shown in the contract documents since the work is considered incidental to the work and is to be included in the unit price bid.

**GG. Bid Item #43 – Stabilization Stone**

1. Stabilization Stone is defined, as stone installed for pipe installation where in the opinion of the Engineer, the soil is unsuitable and ordered removed.
2. Payment will be based on the actual number of tons based on quarry tickets. Quarry tickets shall be given to Resident Project Representative at time of delivery and pay item will be marked on ticket. Tickets not given to Resident Project Representative will not be paid for. Stone wasted or not used in the opinion of the Resident Project Representative shall be deducted from the quarry tickets.
3. No additional payment will be made to undercut the proposed watermain or to dispose of the unsuitable materials since the work is considered incidental to the work and is to be included in the unit price bid.
4. Payment for installation of stabilization stone will be paid for at the contract unit price per ton for “Stabilization Stone” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

#### **HH. Bid Item #44 – Hymax Grip Couplings**

1. Payment for Hymax Grip Couplings will be based on the actual number of units incorporated and accepted into the work.
2. No additional payment will be made for excavation, bedding, backfilling, testing, chlorination, etc. since the work is to be included in the unit price bid.
3. Payment for Hymax Grip Couplings will be made at the contract unit price per each incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

#### **II. Bid Item #45 – Rock Excavation**

1. Payment for rock excavation will be based on the actual number of cubic yards incorporated and accepted into the work and measured to the nearest 0.1 cubic yard.
2. The Resident Project Representative will measure Rock Excavation. Computations will be based on the length multiplied by the average depth (including 6-inches below pipe invert) multiplied by the width (actual average width up to five-feet (5') maximum).
3. Measurement of manholes and structures will be the average depth (including 6-inches below bottom of manhole) multiplied by the square of the average width (3 feet beyond the outside wall of the structure).
4. No additional payment will be made for pre or post blast survey, monitoring blasting operations and/or trench rock excavation beyond the limits indicated above without written approval of the Engineer since the work is considered incidental to the work being paid for at the contract unit price.
5. No additional payment will be made for providing suitable off-site borrow excavation to backfill trenches where rock has been removed, since the work is to be included in the unit price bid for trench rock excavation.
6. Payment for trench rock excavation will be made at the contract unit price per cubic yard for "Rock Excavation" incorporated and accepted into the work and will be full compensation for all work described in the contract documents. The Contractor's unit price bid shall not be lower than \$30.00 per cubic yard.
7. No subsurface reports are available for the project. Estimated quantity is only an estimate. No additional payment will be made for over or under runs on estimated quantity.
8. Rock not measured by and verified by the Resident Project Representative will not be eligible for payment.

#### **JJ. Bid Item #46 – Borrow Material**

1. Payment for Borrow Material will be based on the actual number of cubic yards incorporated and accepted into the work and measured to the nearest 0.1 cubic yard.
2. The Resident Project Representative will measure Borrow Material. Computations will be based on the length multiplied by the average depth (including 6-inches below pipe invert) multiplied by the width (actual average width up to five-feet (5') maximum).
3. Payment will be made at the contract unit price per cubic yard for "Borrow Material" and will be full compensation for all work described in the contract documents.
4. No additional payment will be made for the removal and disposal of existing material, placement, compaction, delivery or other work required to complete the work since the work is considered to be included in the contract unit price.

**KK. Bid Item #47 – N. Spray St. Exploration**

1. Payment for “N. Spray St. Exploration” will be paid for at Lump Sum cost for all work required to investigate location and depth of existing AT&T duct bank and gas line.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), disposal of material from site, etc. since the work is considered incidental to the work and is to be included in the unit price bid.
3. Payment for N. Spray St. Exploration will be made at the contract Lump Sum unit price for “N. Spray St. Exploration” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

**LL. Bid Item #48 – Second Street Chlorination**

1. Payment for “Second Street Chlorination” will be paid for at Lump Sum cost for additional traffic control and all work required to install a ¾” corporation stop to allow chlorine injection point close to source of water for disinfecting the line.
2. No additional payment will be made for saw cutting pavements, excavation (except for rock excavation), disposal of material from site, chlorination of waterline, connection to corporation stop, removal of corporation stop, installing plug, etc. since the work is considered incidental to the work and is to be included in the unit price bid.
3. Payment for Second Street Chlorination will be made at the contract Lump Sum unit price for “Second Street Chlorination” incorporated and accepted into the work and will be full compensation for all work described in the contract documents.

PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION (Not Applicable)

END OF SECTION 01025

## PROJECT SPECIAL PROVISIONS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 and 2 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section contains project special provisions related to this project and shall be incorporated into the project.
- B. Related Sections include the following:
  - 1. “Bid Form” for unit price quantities and bid amounts.
  - 2. Division 1 Section "Measurement and Payment"
  - 3. Division 1 Section "Application for Payment".
  - 4. Division 1 Section “Submittals”

### GENERAL PROJECT SPECIAL PROVISIONS

NCDOT Standard Specifications. Wherever the term NCDOT standard specifications as referenced within the contract documents, reference is to the *2024 North Carolina Department of Transportation Standard Specifications for Roads and Structures*.

Drug Free Workplace. The Contractor is to provide and maintain a drug free workplace, including certification, in accordance with the Federal Drug Free Workplace Act of 1988 (40 CFR Part 32).

Equal Opportunity. The non-discrimination clause contained in Section 202 (Federal) Executive Order 11246, as amended by Executive Order 11375, relative to Equal Employment Opportunity for all persons without regard to race, color, religion, sex or national origin, and the implementing rules and regulations prescribed by the Secretary of Labor, are incorporated herein.

The Contractors agree not to discriminate against any employees or applicant for employment because of physical or mental handicap regarding any position for which the employees or applicant is qualified. The Contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicap in all employment practices.

Burning Restrictions. Open burning is not permitted on any portion of the right-of-way limits established for this project. Do not burn the clearing, grubbing or demolition debris designated for disposal and generated from the project at locations within the project limits, off the project limits or at any waste or borrow sites in this county. Dispose of the clearing, grubbing and demolition debris by means other than burning, according to state or local rules and regulations.

Street Signs. Move any existing street signs out of the construction limits of the project and install the street signs so that they will be visible to the traveling public if there is sufficient right of way for these signs and markers outside of the construction limits. Near the completion of the project and when so directed by the Engineer, move the signs and install them in their proper location in relation to edge of finished pavement of the project.

Whenever stop signs are required to be removed, a temporary stop sign shall be provided or the use of flagmen to maintain traffic in accordance with NCDOT or MUTCD standards.

Stockpile any signs that cannot be relocated due to lack of right of way, or any signs that will no longer be applicable after the construction of the project, at locations directed by the Engineer for removal by others. The Contractor shall be responsible to the owners for any damage to any street signs and markers or route markers during the above described operations.

### **CONTRACT TIME AND LIQUIDATED DAMAGES**

The date of availability for this contract will be May 27<sup>th</sup>, 2025.

The completion time for this contract will be **365** days.

The liquidated damages for this contract will be **Five Hundred Dollars (\$500.00)** per calendar day.

After award of the project, the Contractor shall notify the Engineer to schedule a preconstruction conference and notify of him expected date for beginning work.

### **TRAFFIC CONTROL PROJECT SPECIAL PROVISIONS**

Temporary Traffic Control. Maintain traffic in accordance with Divisions 10, 11 and 12 of the *2024 Standard Specifications* and the following provisions:

Install Work Zone Advance Warning Signs in accordance with the detail drawing provided in these plans prior to beginning any other work. Use a lane closure or slow moving operation to complete the work, as necessary, unless otherwise indicated. Refer to Standard Drawing No. 1101.02, 1101.11, 1110.01, 1110.02, 1130.01 1135.01 and 1180.01 of the *2018 Roadway Standard Drawings*. Maintain the existing traffic pattern at all times, except in the immediate work zone where lane closures are allowed as determined by the Engineer.

Refer to attached details and Standard Drawing No. 1101.02, 1101.03, 1101.04, 1101.05, 1101.11, 1110.01, 1110.02, 1115.01, 1130.01, 1135.01, 1145.01, 1150.01, 1165.01, and 1180.01 of the *2018 Roadway Standard Drawings* when closing a lane of travel in a stationary work zone such as pavement patching resurfacing, or pavement marking removal. Properly ballasted cones and skinny drums may be used instead of drums. However, drums are required for the upstream taper portion of lane closures in all applications. The stationary work zone shall be a maximum of 1 mile in length at any given time on 2 Lane, 2 Way facilities unless otherwise approved by the Engineer. A pilot vehicle operation may be used in conjunction with flaggers and the appropriate pilot vehicle warning signing as directed by the Engineer. During periods of construction inactivity, return the traffic pattern to the existing alignment and remove or cover any work zone signs. When covering work zone signs, use an opaque material that prevents reading of the sign at night by a driver using high beam headlights. Use material, which does not damage the sign sheeting. Replace any obliterated markings as required by other sections of the *2018 Standard Specifications* and the Engineer.

When personnel and/or equipment are working on the shoulder adjacent to and within 5 feet of an open travel lane, close the nearest open travel lane using Standard Drawing No. 1101.02 of the *2018 Roadway Standard Drawings*. When personnel and/or equipment are working within a lane of travel of an undivided facility, close the lane according to the traffic control plans, *2018 Roadway Standard Drawings* or as directed by the Engineer. Conduct the work so that all personnel and/or equipment remain within the closed travel lane. Do not work simultaneously, on both sides of an open travel way, within the same location, on a two-lane, two-way road. Perform work only when weather and visibility conditions allow safe operations as directed by the Engineer.



**1) Project Requirements within NCDOT Right of Way:**

- a) Contractor shall provide temporary traffic control in accordance with this provision when potholing existing utilities for the purpose of determining the elevation and location of existing utilities.
- b) Contractor shall provide temporary traffic control in accordance with this provision when boring operations are occurring.
- c) Contractor shall provide temporary traffic control when constructing fill shoulders on each side of the pavement and for ingress and egress to the proposed sewer improvements.
- d) Contractor shall provide temporary traffic control in accordance with this provision during the life of the project.

**3) Work Zone Signing:**

Install advance/general warning work zone signs according to the Detail Drawing provided in these plans prior to beginning of work. Install and maintain signing in accordance with the attached drawings and Divisions 11 and 12 of the *2018 Standard Specifications*.

**(A) Installation**

All stationary Advance/General warning work zone signs require notification to existing Utility owners per Article 105-8 of the *2024 Standard Specifications* and Special Provision SP1 G115 within 3 to 12 full working days prior to installation.

Install all Advance/General warning work zone signs before beginning work on a particular map. If signs are installed more than seven (7) calendar days prior to the beginning of work on a particular map, cover the signs until the work begins. Install each work zone Advance/General warning sign separately and not on the same post or stand with any other sign except where an advisory speed plate or directional arrow is used.

All stationary signing is to be installed as shown on the detail drawing unless otherwise directed by the Engineer. Once the signs have been installed, any sign relocations requested by the Department will be compensated in accordance with Section 104-7. Any additional signs other than the ones shown in the drawing will be compensated in accordance with Section 104-7.

If there is a period of construction inactivity longer than 14 calendar days, remove or cover advance/general warning work zone signs. Uncover advance/general warning work zone signs no more than 7 calendar days before work resumes. All other operations may be suspended upon failure to comply with the above requirements. Such suspended operations would not be resumed until the above requirements are fulfilled.

**(B) Sign Removal**

All stationary work zone signs shall be removed once the project is substantially complete. The project is substantially complete when the paving operations, sidewalk installation, seeding and mulching and pavement markings are installed. Any remaining punch list items are to be completed with portable work zone signing. There will be no compensation for any portable signing. Sign removal is a condition of final project acceptance.

**(C) Lane Closure Work Zone Signs**

Install any required lane closure signing needed during the life of the project in accordance with the Standard Drawing No. 1101.02, 1101.11 and 1110.02 of the *2018 Roadway Standard Drawings*. Any required portable signs for lane closures are compensated in the contract pay item for *Temporary Traffic Control*.

## EROSION CONTROL PROJECT SPECIAL PROVISIONS

**Minimize Removal of Vegetation.** The Contractor shall minimize removal of vegetation within project limits to the maximum extent practicable. Vegetation along stream banks and adjacent to other jurisdictional resources outside the construction limits shall only be removed upon approval of Engineer. No direct payment will be made for this work as the work is considered incidental to the work being paid for Seeding and Mulching.

**Wattle.** Wattles are tubular products consisting of excelsior fibers encased in synthetic netting. Wattles are used on slopes or channels to intercept runoff and act as a velocity break. Wattles are to be placed at locations shown on the plans or as directed. Installation shall follow the detail provided in the plans and as directed. Work includes furnishing materials, installation of wattles, matting installation, and removing wattles.

Wattle shall meet the following specifications:

100% Curled Wood(Excelsior) Fibers	
Minimum Diameter	12 in.
Minimum Density	2.5 lb/ft <sup>3</sup> +/- 10%
Net Material	Synthetic
Net Openings	1 in. x 1 in.
Net Configuration	Totally Encased
Minimum Weight	20 lb. +/- 10% per 10 ft. length

Stakes shall be used as anchors. Matting shall meet the requirements of Article 1060-8 of the *2018 Standard Specifications*, or shall meet specifications provided elsewhere in this contract. Provide staples made of 0.125" diameter new steel wire formed into a *u* shape not less than 12" in length with a throat of 1" in width.

Wattles shall be secured to the soil by wire staples approximately every 1 linear foot and at the end of each section of wattle. A minimum of 4 stakes shall be installed on the downstream side of the wattle with a maximum spacing of 2 linear feet along the wattle, and according to the detail. Install a minimum of 2 stakes on the upstream side of the wattle according to the detail provided in the plans. Stakes shall be driven into the ground a minimum of 10" with no more than 2" projecting from the top of the wattle. Drive stakes at an angle according to the detail provided in the plans.

Only install wattle(s) to a height in ditch so flow will not wash around wattle and scour ditch slopes and according to the detail provided in the plans and as directed. Overlap adjoining sections of wattles a minimum of 6".

Installation of matting shall be in accordance with the detail provided in the plans, and in accordance with Article 1631-3 of the *2018 Standard Specifications*, or in accordance with specifications provided elsewhere in this contract.

The Contractor shall maintain the wattles until the project is accepted or until the wattles are removed, and shall remove and dispose of silt accumulations at the wattles when so directed in accordance with the requirements of Section 1630 of the *2018 Standard Specifications*.

See Section 01025 for additional information on Measurement and Payment.

**Stockpile Areas.** The Contractor shall install and maintain erosion control devices sufficient to contain sediment around and erodible material stockpile areas as directed. Payment for temporary erosion control measures, except those made necessary by the Contractor's own negligence or for his own convenience, will be paid for at the appropriate contract unit price for the devices or measures utilized in stockpile areas.

Waste and Borrow Sources. Payment for temporary erosion control measures, except those made necessary by the Contractor's own negligence or for his own convenience, will be paid for at the appropriate contract unit price for the devices or measures utilized in borrow sources and waste areas. No additional payment will be made for erosion control devices or permanent seeding and mulching in any commercial borrow or waste pit. All erosion and sediment control practices that may be required on a commercial borrow or waste site will be done at the Contractor's expense.

Permanent Vegetation Establishment. Establish a permanent stand of the vegetation mixture shown in the contract. During the period between initial vegetation planting and final project acceptance, perform all work necessary to establish permanent vegetation on all erodible areas within the project limits, as well as, in borrow and waste pits. This work shall include erosion control device maintenance and installation, repair seeding and mulching, supplemental seeding and mulching, mowing, and fertilizer topdressing, as directed. All work shall be performed in accordance with the applicable section of the Methods of Construction and *2018 Standard Specifications*. All work required for initial vegetation planting shall be performed as a part of the work necessary for the completion and acceptance of the Project.

Once the Engineer has determined that the permanent vegetation establishment requirement has been achieved at an 80% vegetation density (the amount of established vegetation per given area to stabilize the soil) and no erodible areas exist within the project limits, the Contractor will be notified to remove the remaining erosion control devices that are no longer needed. The Contractor will be responsible for, and shall correct any areas disturbed by operations performed in permanent vegetation establishment and the removal of temporary erosion control measures, whether occurring prior to or after the Contract Completion Date.

When the Seeding and Mulching operations have been completed in accordance with project requirements prior to Contract Completion Date and the permanent vegetation has not been established prior to the Final Inspection or Contract Completion Date, the Engineer will establish a vegetation establishment period. The Contractor will be responsible for preparing the National Pollutant Discharge Elimination System (NPDES) inspection records.

No direct payment will be made for Permanent Vegetation Establishment as the cost is to be included in the contract lump sum price for Seeding and Mulching.

### **SUBSTITUTIONS OR "OR-EQUAL" ITEMS**

Submittals for proposed substitutions shall include the following information:

1. Name, address, and telephone number of manufacturer and supplier as appropriate.
2. Trade name, model or catalog designation.
3. Product data including performance and test data, reference standards, and technical descriptions of material, product, or equipment. Include color samples and samples of available finishes as appropriate.
4. Detailed comparison with specified products including performance capabilities, warranties, and test results.
5. Other pertinent data including data requested by the Designer to confirm product equality.

If a proposed material, product, or equipment substitution is deemed equal by the Designer to those specified, all bidders of record will be notified by Addendum.

### **SMALL WATERLINES REPLACEMENTS**

Highview Street. A provisional variance from PWS has been requested if 18" vertical separation cannot be maintained. At sewer crossing, station 5+47 and 2 vertical bends if 30" cover cannot be maintained.

Douglas Road. Contractor will be responsible for coordinating with Dominion Energy to relocate gas line to allow 12" separation between watermain and gas line. Paid under the bid item for gas line relocation. 4" sewer line to be replaced with 4" DIP if existing line is found to be PVC, waterline to be over 4" service and have minimum 30" cover.

Glen Oaks Road. Contractor may be required to remove and replace a section of 12" RCP driveway culvert at ~ station 1+60 to install water main. If required to remove and replace culvert to install water main and pipe is damaged during removal, then contractor will install new 12" RCP and paid for at the contract unit price for "12" RCP".

Bason Road. Contractor shall install ~ 1,190 lf of 6" water main on south side of road.

Pine Street. Contractor to bore under N. Wilkins Street with a minimum 16" encasement pipe. A developer has submitted plans to the Town for installation of ~ 200 lf of water main ~ station 0+00 to 2+00. If installation is installed prior to installation by the contractor, then section installed by developer will be deleted from contract.

Circle Drive. Circle Drive has been removed from the contract. All verbiage involving construction on Circle Drive are to be ignored.

N. Spray Place. Contractor shall field verify existing AT&T duct bank, gas line, and 2" water line prior to making required tap. Town had contractor excavate for gas & duct bank; however, duct bank or gas line were not located as marked. Engineer will review locations of all utilities provided by contractor and revise alignment as needed to minimize impacts. No additional payments will be made for utility relocations.

First Street. Contractor to field locate horizontal and vertical locations of existing AT&T duct bank north of existing 8" water main, existing gas main and City of Graham 10" water main, both south of proposed east bound lane of traffic. In addition, a Lumos fiber line is proposed to be installed south of 10" water line and at a minimum depth of 5-ft below pavement grade. Proposed 6" water main to be installed under existing gas, water and fiber lines. 45 degree bends will be allowed to be installed to lower water main under existing utilities.

Second Street. Existing meter vault and bypass line has been abandoned. Contractor to removal a section of existing 8" line as shown on plans, and install fittings as required to make connection to existing line. An Easement will be required to be obtained by the Town.

Lang Street. Contractor to complete exploration as stated in the bid item description for Lang Street Exploration. Engineer will adjust water main alignment after exploration of existing conditions.

Cemetery Street. Contractor to complete exploration as stated in the bid item description for Cemetery Street Exploration. Contractor to follow notes on plan for different connection possibilities based on exploration results.

Lang Court. Old water maps show an existing 2" watermain behind curb, if main is under pavement, alignment of proposed watermain to be moved to the West of the existing 2" watermain.

Clayton Place. All work required from station 4+56 to the tie-in is to be included in the bid item for Clayton Place Waterline installation. Gravel roadway is to be constructed under the bid item for Clayton Place Watermain trench repair and is to include the new stone required to compact the trench and restore the roadway to Town of Haw River requirements.

### **BORROW MATERIAL**

Borrow material is defined as material that is needed to replace unsuitable material encountered during the installation of a water line or service. The Project Representative shall be responsible for determining if the excavated material is unsuitable.

All unsuitable material is to be disposed of off-site in an environmentally friendly manner. The disposal site shall be a demolition landfill site, or a site permitted by NCDEQ, Land Quality Section. Contractor shall provide Owner with a copy of the permit or landfill permit number.

Unsuitable material shall be replaced using suitable material approved for use by the Engineer or Project Representative. Suitable materials shall be inorganic, free of debris, suitable for compaction and shall have a plasticity index of less than 25. The Engineer reserves the right to have the material tested by a third-party geotechnical testing agency. Sandrock material is the preferred material.