

PROJECT: AMER TOBACCO WATERLINE REPLACEMENT PH1
DATE: April 24, 2020

DEPARTMENT OF WATER MANAGEMENT
CITY OF DURHAM, NORTH CAROLINA

DOCUMENT 00 91 13

ADDENDA

ADDENDUM NUMBER 2

DATE: **April 24, 2020**

PROJECT: **American Tobacco Waterline Replacement – Phase 1**

OWNER: **The City of Durham**

ENGINEER: **Kimley-Horn and Associates, Inc.**

TO: **Prospective Bidders**



4/24/2020

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated March 10, 2020.

Acknowledge receipt of this Addendum in the space provided in the Bid form. Failure to do so may disqualify the Bidder.

This Addendum consists of **8** pages:

CHANGES TO THE SPECIFICATIONS:

1. SECTION 00 21 15 – INSTRUCTIONS TO BIDDERS

- Page 00 21 15-16; Remove and Replace Sections 1.18.B and 1.18.C with the following:

B. Bidders may be present at the opening of bids. Bidders attending the bid opening in person shall adhere to then-current Durham City and County Social Distancing Requirements, including Wearing Face Coverings when entering City facilities and maintaining at least six-foot social distancing from other individuals.

C. Bidders may join a Video and/or Audio Zoom Meeting to remotely attend the bid opening via the following meeting information:

Time: Apr 30, 2020 02:00 PM Eastern Time (US and Canada)

Join Zoom Meeting:

<https://kimley-horn.zoom.us/j/99386155667>

Meeting ID: 993 8615 5667

One tap mobile:

+19292056099,,99386155667# US (New York)

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Dial by your location:
+1 929 205 6099 US (New York)
Meeting ID: 993 8615 5667

Join by Skype for Business:
<https://kimley-horn.zoom.us/j/99386155667>

2. SECTION 00 41 42 – MEASUREMENT AND PAYMENT

- Page 00 41 42-15; Add the following before Pay Item 4ff(1) and (2):

“Pay Item 4ee – Furnish and Install Temporary Shoring

This item includes furnishing all labor, materials, equipment, tools and other services required for installing, maintaining, and removing all temporary active shoring which may be required by NCRR to complete waterline installation depicted on Sheet EWR-4, as specified in Section 4, and as required by NCRR. Quantities of sheeting included for payment under this Pay Item shall be based on the actual linear footage of shoring installed measured continuously along a horizontal line of the sheeting installed. The Contractor shall be responsible for the provision of signed and sealed structural designs of the shoring system and obtaining approval from NCRR.

The cost for furnishing and installing shoring shall be paid for under the Unit Price Bid for Pay Item 4ee.

All other work required to Furnish and Install Sheeting for complete installation, maintenance, and removal shall be considered as incidental to the project and no specific payment will be made.”

3. SECTION 00 41 43 – BID FORM – UNIT PRICE (SINGLE-PRIME CONTRACT)

- Page 00 41 43-4; Remove and replace Pay Item No.’s 4d(1) and 4d(2) with the following:

4d(1)	Furnish and Install 36-inch DIP Push-On Waterline	LF	1,050		
4d(2)	Furnish and Install 36-inch DIP Restrained Joint Waterline	LF	3,500		

4. SECTION 4 – PIPE MATERIALS AND APPURTENANCES

- Page 4-2; Remove and replace “Exterior Coatings for Force Mains, Sewer Mains, Interceptors, and Sewer Service Pipe” with the following:

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“Exterior Coatings for Force Mains, Sewer Mains, Interceptors and Sewer Service Pipe

All DIP and fittings shall have a bituminous coating on the exterior surfaces in accordance with ANSI A21.51 (AWWA C151), except that the last 6" of the spigot shall be coated with 6 mils nominal, 10 mils maximum Protecto 401 Joint Compound. The Joint Compound shall be applied by brush to ensure coverage. Care should be taken that the Joint Compound is smooth without excess buildup in the gasket seat or on the spigot ends. Coating of the gasket seat and spigot ends shall be done after the application of the lining.”

- Page 4-4; Remove and replace the entire “Restrained Joints” section with the following:

“Restrained Joints

Restrained joints shall be provided on all bends and on pipe joints as specified herein and shown on the Drawings. Restrained joints shall be installed on both the upstream and downstream side of each bend, tee, valve, reducer, or other fitting for the linear distance shown or as otherwise indicated on the Drawings. The linear distance shall be a minimum requirement and all pipe sections within this linear distance shall be full standard lengths of pipe unless otherwise noted. Restrained joints shall be made up similar to that for push-on joints.

Restrained pipe and fittings shall consist of one of the following:

- Bolted retainer rings and welded retainer bars
- Boltless type which includes ductile iron locking segments and rubber or neoprene retainers.
- Wedge actuating mechanical joint restraint with multiple gripping wedges incorporated into the gland body may be used only when supplemented with thrust blocking and/or thrust collars as described below. Radial bolts shall not come into direct contact with the pipe wall, but shall actuate gripping wedges and shall have integral torque-limiting heads which break off at the specified torque. The device shall have a working pressure rating of 350 PSI for 3- through 16-inches, a working pressure rating of 250 PSI for 18-inch through 48-inch pipes, and a safety factor of 2 to 1. Such restraint shall be Mega-Lug Series 1100 and 1700 (or variation thereof), as manufactured by EBAA Iron, Inc. or approved equal. **Gaskets providing restraint via a boltless, integral restraint system will not be accepted. NOTE: If wedge actuating mechanical joint restraint is used (i.e. Mega-Lugs), thrust blocking per Details 512.01 and 512.02 on the Drawings shall be required at all fittings and be considered incidental to the pipeline installation. Where sufficient room is not present for thrust blocking, thrust collars and rodding per Detail 512.03 may be used instead and both shall be considered incidental to the pipeline installation. Wedge actuating mechanical joint restraint shall NOT be used on existing piping.**

Restrained joint pipe shall be the Flex-Ring® Joint or the Lok Ring® Joint as manufactured by American Ductile Iron Pipe Company, TR Flex® Joint as U.S. Pipe Company, or approved

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equal. Restrained plugs shall be installed as shown on the Drawings. These plugs shall be watertight and capable of withstanding the test pressure specified herein. After testing, the plug shall remain in place.

Bolts for restrained joints (if applicable) shall be as recommended by the manufacturer.”

- Pages 4-18 and 4-19, Section 4.19b; Remove and replace paragraph #3 of Section 4.19b with the following:

“All water containing chlorine including water from the City’s existing water distribution system (fire hydrants, flushing water, hoses, etc.) or water containing spent chlorine solution from the Contractor’s disinfection process shall all be disposed of in such a manner that the release of the chlorinated water contains less than 0.01 mg/L of chlorine. A dechlorination process utilizing appropriate quantities of sodium bisulfite (NaHSO₃) may be used. An independent subconsultant to the Contractor shall be provided to perform the dechlorination process when flushing the 36-inch transmission main and a detailed description of the process, chemicals to be used, and a MSDS, shall be submitted to the Engineer at least two (2) weeks in advance. The Contractor shall provide all pipe, pumps, power, materials, equipment, etc., necessary to convey the spent chlorine solution to the Owner’s sewer system or an approved storm drain.”

5. SECTION 21 – CIPP INSTALLATION

- Page 21-9; Remove and Replace Section 21.17 with the following:

”21.17 Access Excavations

Access to existing sanitary sewer lines for CIPP installation shall be at existing manholes or access points shown on the drawings. Should it desired by the Contractor to access a sanitary sewer by excavation for the purpose of CIPP installation at any additional access locations, such access excavations will be completed by the Contractor, only with the prior approval of the Engineer and at no additional cost to the City. Such excavations shall meet the requirements of the City of Durham Water and Sewer Construction Specifications. Any repair excavation necessitated by an existing pipe that has deteriorated to a condition so as to prevent a proper installation of the CIPP, shall not be subject to this limitation and may be completed only with the prior approval of the Engineer and at a negotiated price.”

CHANGES TO THE DRAWINGS:

1. PLAN SHEET D-5

- Detail 0251307R; Remove and replace Detail 0251307R (Typical City Pavement Replacement) with Detail 0251307R on Attachment No. 1.

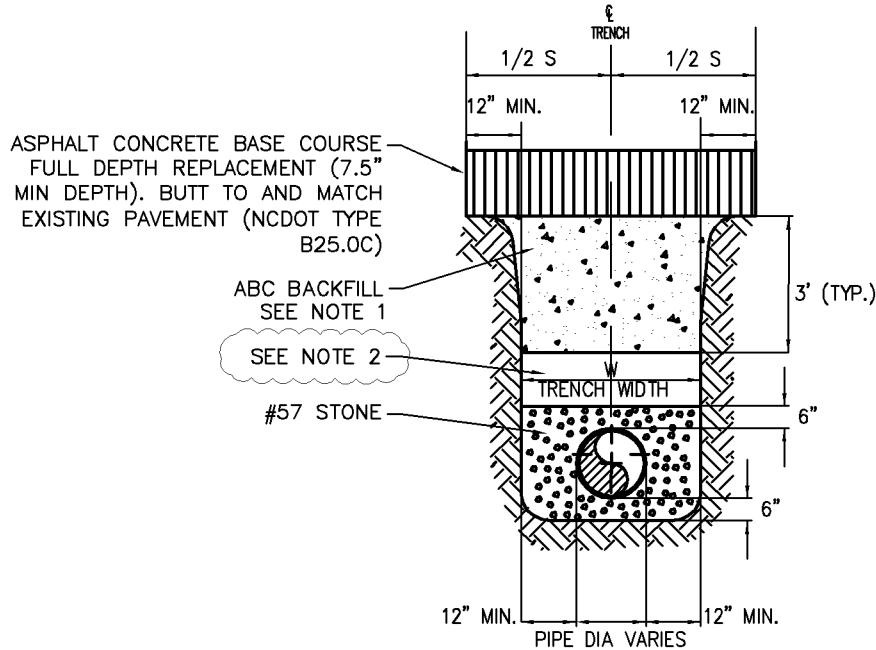
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QUESTIONS AND RESPONSES:

1. See Attachment No. 2 for ATD Phase 1 Bid Questions and Responses. Attachment No. 2 shall not be considered part of the Contract Documents. Answers to questions are non-binding and shall not change the Contract Documents.

END OF DOCUMENT



- NOTES:**
1. COMPACT ABC BACKFILL IN 8" LIFTS TO 95% STANDARD PROCTOR.
 2. IF ADDITIONAL FILL IS REQUIRED, CONTRACTOR MAY BACKFILL SELECT FILL IN 6" LIFTS COMPACTED TO 95% STANDARD PROCTOR, OR ABC BACKFILL AS DIRECTED.
 3. FOLLOWING FINAL COMPLETION, THE PAVEMENT REPLACEMENT AREA SHOWN ON THE PLANS (OR AS DIRECTED BY THE ENGINEER) SHALL BE MILLED TO 1.5" DEPTH AND RESURFACED WITH 1.5" ASPHALT CONCRETE SURFACE COURSE (NCDOT TYPE S9.5C). MILLING AND RESURFACING SHALL BE PHASED TO MINIMIZE THE NUMBER OF "JOINTS" IN SURFACE COURSE.

**TYPICAL CITY PAVEMENT REPLACEMENT
0251307R**

Kimley»Horn	DATE	CITY OF DURHAM, N.C.	KHA JOB NUMBER	REFER TO CONTRACT DRAWING NUMBER
	4-24-2020	DEPT. OF WATER MANAGEMENT	011494085	D-5
	CHECKED BY	AMERICAN TOBACCO WATERLINE REPLACEMENT - PHASE 1	CONTRACT	SHEET
	NDR		ATP1	1 OF 1

**ATD Phase 1
Bid Questions****Questions and Responses:**

- Q1- *Is pay item 4ee “Furnish and Install Temporary Shoring” meant to be for the temporary shoring shown at the RR bore on sheet EWR-4?***
- R1- Correct. The Pay Item description has been included as part of Addendum 2. Refer to addendum for clarification.
- Q2- *What is the purpose of the “Temporary Active Shoring” shown on Sheet ERW-4?***
- R2- The railroad requires active shoring where excavations are inside the 2:1 slope line shown on the plans. Based on the grade of the tracks and proximity of the bore pit, this 30’ area is within this 2:1 zone. The proposed shoring needs to be submitted to the railroad for approval. Refer to Pay Item 4ee included in Addendum 2 for additional information.
- Q3- *Will it be the Contractor’s responsibility to operate / inspect private fire systems prior to, during, or following fire line reconnections? Are the property owners with fire line connections aware of this project and are they prepared to operate/inspect their fire systems after the connections are complete?***
- R3- The Contractor will not be responsible for operating / inspecting private property owner’s fire systems. Private owners will be responsible for operating fire systems during service reconnections. Initial outreach to stakeholders in the project area has taken place during the design phase of the project, however additional outreach efforts will be required throughout construction. Contractors will be required to provide advance notice to property owners and schedule any service disruptions at least 7 days (minimum) in advance of proposed work. Note Section SC (American Tobacco Phase 1 Project Special Conditions) of the Specifications for additional outreach requirements during construction.
- Q4- *With only 2 butterfly valves on the 36” reinforcing main, is it the expectation that the line will be tested once it is all installed? Or will we be doing intermediate testing before paving and hardscape restorations are in place?***
- R4- Transmission Main testing is anticipated to be dependent on the Contractor’s proposed schedule and sequence. It is anticipated that the existing 36-inch transmission main connection at Sta 10+45.96 will be required to provide sufficient water for flushing the proposed transmission main. Note that one (1) flushing connection assembly is included on the transmission main at Sta 57+08.46. Intermediate testing may be completed based on the Contractor’s proposed sequence. Refer to revised Specifications Section 4.19b in Addendum 2 for dechlorination requirements during flushing.
- Q5- *Per Spec section 4.19b Dechlorination, the contractor is to hire an independent firm to dechlorinate the water mains. Please confirm this is accurate.***
- R5- Specifications Section 4.19b has been revised as part of Addendum 2. Refer to addendum for clarification.

- Q6- Specifications Section 6.08 it mentions that the contractor is to hire a 3rd party inspector for concrete testing. Is there any Class A Concrete on the project that will require the Contractor to hire a testing agency?**
- R6- There is not any Class A Concrete in this contract that will require the Contractor to hire 3rd party inspector. Refer to Section 1.27 of the Specifications for Inspections and Testing. The City will employ and pay for the services of an independent testing laboratory to perform materials testing for this project. The Contractor may, at their own expense, perform materials testing as necessary to ensure work is in conformance with the Contract Documents.
- Q7- It is stated that active shoring systems will be required when within the NCDOT ROW if in the 1:1 from edge of pavement to bottom of nearest trench wall. As a good portion of the lines falls within the roadway of multiple NCDOT roads, are we to assume that active/positive shoring will be required as stated in the documents?**
- R7- Per Utility Note 4 on Sheet G-3, the active shoring requirement relates to excavations within the 1:1 slope of any active travel lane. If lane closures or shifts are utilized such that active travel lanes are not within the 1:1 slope, active shoring is not required. Note the NCDOT Encroachment Agreements for specific requirements in NCDOT roadways.
- Q8- Are MJ fittings with mega-lugs allowed to be used for restrained pipe?**
- R8- Restrained joint requirements have been revised and clarified as part of Addendum 2. Refer to addendum for clarification. Note that supplemental thrust blocking is required if a Mega-lug type restraint is selected to be used.
- Q9- In the Technical Specifications, page 21-9, Section 21.17 Access Excavations, the specification states "Should it become necessary to access a sanitary sewer by excavation, for the purpose of CIPP installation, such access excavations will be completed by the Contractor,...at no additional cost to the City...". Given this is a unit price contract, and given there is no sure way to quantify such instances, please issue a line item or issue a clarification that such excavations will be paid for "at a negotiated price". In most instances an owner would want to install a permanent access point on both ends of any gravity sewer. Also, by addressing access points in this way, the specification will be consistent with Section 21.18 where unforeseen excavations for lateral connections are addressed by negotiating a price.**
- R9- Specifications Section 21.17 has been revised as part of Addendum 2. Refer to addendum for clarification.