### CITY OF WARWICK, RHODE ISLAND WARWICK SEWER AUTHORITY BAYSIDE SEWER SYSTEM PRESSURE SEWER CONTRACT 86B ADDENDUM NO. 2

### January 8, 2020

The following information is provided as part of the Contract Documents as Addendum No. 2.

## CONTRACT SPECIFICATIONS

## **DIVISION 01 – EARTHWORK**

1. Section 01800 – Archaeological Provisions, Part 5 Execution.

Add:

- 2.5 MOBILIZATION
  - A. Should an unanticipated discovery be made during construction work requiring remobilization, the Contractor shall remobilize work to an alternative location. Contractor shall include 10 such re-mobilizations for unanticipated discoveries within Contract Bid Item 1 Site Preparation and Mobilization. Payment for additional remobilizations will paid on time and materials basis.

## **DIVISION 03 – EARTHWORK**

1. Section 03350 – Excavation and Fill, Section 3.1 Trenches and Other Excavation

Add: Excavated trenches may be left open overnight only with the use of steel plate cover. The use of steel plates shall be approved by the Engineer. Contractor shall submit for approval the method for utilizing plates in accordance with shop drawing submittals requirements. The plate shall be capable of supporting HS-25 loads. The plates shall be secured with bituminous wedges or bolted down. Traffic signs shall be provided in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).

## **DIVISION 05 – UTILITIES**

 Section 05812 – Horizontal Directional Drilling, Subsection 1.7 – Submittals, Subsection C, 2., i., Delete:

i. Disposal of excess drilling fluids and drill/bore cuttings and method of transporting drilling fluids and cuttings offsite.

## Replace:

- i. Disposal location of excess drilling fluids and drill/bore cuttings and method of transporting drilling fluids and cuttings offsite.
- 1. Section 05812 Horizontal Directional Drilling, Section 3.9, Item I. Prereaming, Reaming Pilot Hole, and Pulling Pipe

Delete:

i. Pull pipe so that minimum of 20 feet of pipe is exposed at both ends of bore.

Replace:

i. Pull pipe so that minimum of 20 feet of pipe is exposed at both ends of bore. In confined work areas, the minimum exposed pipe may be reduced at the discretion of the Engineer.

## CONTRACT PLANS

- 1. Plan Sheet No. 58 Details 1, Open Excavation, Delete and Replace with the attached Plan.
- 2. Plan Sheet No. 60 Details 3, Pavement and Water, Delete and Replace with the attached Plan
- 3. Plan Sheet No. 62 Details 5, Open Trench Excavation, Delete and Replace with the attached Plan.

# **CLARIFICATIONS**

1. Comment: Where can drill spoils and excavated fill be disposed?

Response: Reference Specifications Section 05812 – Horizontal Directional Drilling subsection 1.3 – Description of Work, Subsection 12, *Removal of all drilling fluids and spoils from the construction area, and transporting them to an approved disposal site.* 

2. Comment: How is rock excavation paid for in directional drilling. What provisions are provided for retrieval if the drilling operation is obstructed?

Response: Reference Section 01025 Measurement and Payment, see excerpt below. Rock excavation for retrieval will be paid under Item 3. Rock excavation for drilling will be paid at an additional premium cost.

 BID ITEM
 DESCRIPTION
 PAY UNIT

 3
 Rock Excavation (Trenchless - Open Cut Excavation) Cubic Yard (CY)

 Measurement:
 Rock excavation to facilitate trenchless technologies will be measured on a volume basis as computed from the area in its original position.
 Trenchless technology rock excavation will include excavations for operation and reception pits, and for rock removal required to retrieve or facilitate directional drilling runs using open cut excavation.

 Rock excavation for trenchless open cut excavations will consist of the removal of intact bedrock and boulders or detached bedrock fragments which have a minimum volume of 1 cubic yard.

<u>Payment:</u> The accepted quantity of Rock Excavation for trenchless open cut removal will be paid for at the contract unit price per cubic yard as listed in the Proposal. The payable quantity will be the number of cubic yards of ledge rock or boulders drilled and mechanically split, or split by hand, as measured before excavation, that would have been removed if the excavation had been made everywhere. The price so-stated constitutes full and complete compensation for all labor, materials and equipment, including excavation within the prescribed limits of the work, formation of embankments, grading, removal of bituminous pavement, compaction, disposal of surplus materials, preparation of subgrade, and all other incidentals required to finish the work complete and accepted by the Engineer.

I	BID ITI	EM DESCRIPTION	PAY U	NIT
	4	Rock Excavation (Trenchless - Drilli	ng – All Diameters)Linear F	oot

(LF)

<u>Measurement:</u> Rock excavation to facilitate directional drilling through boulders or ledge rock encountered during operations will be measured in linear feet of continuous run.

<u>Payment:</u> The accepted quantity for rock drilling via trenchless technologies will be paid for at the contract unit price per linear foot for all pipe size diameters as listed in the Proposal. The linear foot price shall be the additional premium cost to facilitate directional drill through boulders or ledge rock. The price so-stated constitutes full and complete compensation for all labor, materials and equipment, including all other incidentals required to finish the work complete and accepted by the Engineer.

3. Comment: Can AutoCad files of the project be provided?

Response: AutoCad files will not be provided. However, we have enclosed Table – 1 Quantity Distribution Summary. The table provides a distribution of pipe length and size by street.

## **ATTACHMENTS**

Contract Plan Sheets (3) Table - 1 Pipe Quantity Distribution (1)

# Warwick Sewer Authority - City of Warwick Bayside Sewer Project Contract - 86B - Addendum No. 2 Table - 1 - Pipe Quantity Distribution

		Alden Avenue	Arlington Avenue			Beatrice Avenue	Beatrice Terrace	Bolster Street	Bourne Street	Boylston Street	Brinton Avenue	Burnett Road	Cady Avenue	Camp Street	Channing Street	Chapin Avenue	Clara Avenue	Cliff Road	Curry Place	Friendship Avenue
Item	Unit																			
1 1/2" Pipe Open Cut Excavation - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2" Pipe - Open Cut Excavation - Lateral	L.F.	445	599	-	-	-	449	-	220	325	330	520	-	455	260	505	206	-	-	-
3" Pipe - Open Cut Excavation - Lateral	L.F.	535	560	-	-	129	-	-	-	505	1,000	-	-	-	-	600	-	510	-	-
4" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	-	-	-	-	-	-	-	230	-	-	-	-	-	-	-	-	-
6" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/4" Trenchless - Service	L.F.	2,220	2,140	527	672	904	720	544	80	940	1,660	960	2,282	800	400	1,420	675	720	342	779
2" Trenchless - Lateral	L.F.	-	-	457	535	-	-	320	-	-	-	-	625	-	-	-	437	-	175	443
3" Trenchless - Lateral	L.F.	-	-	-	-	570	-	-	-	-	-	-	1,000	-	-	-	-	-	230	-
4" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		Grove	Hamlin	Harbor View	Height	Норе	Lighthouse	Lippitt	Longmeadow	Lyndon	Mayflower	Mayor	Medford	Melrose	Mill Cove	Ocean	Ogden	Palmer	Park	Payton
Item	Unit	Avenue	Avenue	Drive	Avenue	Avenue	Lane	Avenue	Avenue	Avenue	Avenue	Lane	Street	Street	Road	Avenue	Avenue	Avenue	Avenue	Avenue
1 1/2" Pipe Open Cut Excavation - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2" Pipe - Open Cut Excavation - Lateral	L.F.	635	-	-	-	526	440	-	46	-	130	-	290	330	-	156	915	360	140	205
3" Pipe - Open Cut Excavation - Lateral	L.F.	583	-	-	-	784	-	-	-	-	-	-	400	-	-	-	572	1,225	-	-
4" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	635	-	-	-	-	-	-	-	-	-	-	-	-	-	1,300	-	-
6" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/4" Trenchless - Service	L.F.	2,140	347	1,100	851	1,020	480	2,409	3,042	530	320	85	940	320	2,245	761	2,140	2,220	2,037	1,658
2" Trenchless - Lateral	L.F.	-	339	-	372	-	-	782	1,453	465	-	243	-	-	970	186	-	-	430	295
3" Trenchless - Lateral	L.F.	-	-	-	343	-	-	566	405	-	-	-	-	-	1,362	200	-	-	578	715
4" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

					-		River Vue	Sable	Samuel Gorton	Seacrest	Shore	Standish			Van Zandt		Wentworth	••	-	Total
Item	Unit	Avenue	Avenue	Avenue	Road	Avenue	Avenue	Street	Avenue	Lane	Avenue	Avenue	Avenue	Drive	Avenue	Avenue	Avenue	Avenue	Wide	
1 1/2" Pipe Open Cut Excavation - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100.00
2" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	595	100	486	-	-	-	364	-	-	450	-	-	-	-	-	-	10,482.00
3" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	765	776	-	-	-	-	295	-	270	300	-	-	-	-	-	-	9,809.00
4" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,465.00
6" Pipe - Open Cut Excavation - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	555	-	-	-	-	-	1,115.00
1 1/4" Trenchless - Service	L.F.	2,188	359	1,900	800	2,073	2,250	161	1,799	1,020	662	160	1,260	2,965	1,325	1,197	716	2,921	-	67,186.00
2" Trenchless - Lateral	L.F.	311	254	-	-	615	516	-	335	-	574	-	-	-	606	425	543	370	-	13,076.00
3" Trenchless - Lateral	L.F.	1,224	-	-	-	365	1,340	-	865	-	-	-	-	-	405	565	482	1,520	-	12,735.00
4" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100.00
6" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	2,427	-	-	-	-	-	2,427.00
8" Trenchless - Lateral	L.F.	-	-	-	-	-	-	-	-	-	-	-	-	1,425	-	-	-	-	-	1,425.00













