

**GENERAL SERVICES DR. 12”
WATERLINE
REPLACEMENT**

**PROJECT NO. 2020-076
BID NO. 2491**

ADDENDUM 1

June 25, 2021

To all bidders:

1. DRAWINGS:

- Contractor shall install (3) 2” schedule 80 PVC conduits with handholes per conduit plan, included in this Addendum.

2. BID FORM:

- Replace Bid Form in Exhibit A with the following:

EXHIBIT A – BID FORM (REVISED)

**2020-076 General Services Dr 12" Waterline Replacement
Project No. 2020-076**

2020-076 General Services Dr 12" Waterline Replacement - Project No. 2020-076						
No.	Item	Description	Qty.	Units	Unit Price (\$)	Item Total (\$)
1	WSACC 01025	Mobilization	1	LS		
2	NCDOT 801	Construction Surveying	1	LS		
3	SP-01	Traffic Control	1	LS		
4	NCDOT 200	Clearing and Grubbing	1	LS		
5	SP-02	Rock Removal	100	CY		
6	WSACC 01025	12" Restrained DIP	950	LF		
7	WSACC 01025	12" DIP Bends 11-1/4 degree	1	EA		
8	WSACC 01025	12" DIP Bends 22-1/2 degree	4	EA		
9	WSACC 01025	12" DIP Bends 45 Degree	4	EA		
10	WSACC 01025	6" Restrained DIP	25	LF		
11	WSACC 01025	6" DIP Bends 45 Degree	2	EA		
12	WSACC 01025	12"x12"x6" DIP Tee	1	EA		
13	WSACC 01025	12" Gate Valve with Box	2	EA		
14	WSACC 01025	6" Gate Valve with Box	1	EA		
15	WSACC 01025	Hydrant Assembly (incl. GV)	1	EA		
16	WSACC 01025	2" Commercial Water Service - Bored HDPE (City to Provide Meter Box)	2	EA		
17	WSACC 01025	2" Commercial Water Service, incl. relocation of ex. Meter Box and Backflow Preventer	1	EA		
18	SP-03	Plumbing Permit and Requirements for Reconnecting Water Services	3	EA		

19	SP-04	12" Connection to Ex. 12" Water Main - Tapping Sleeve & Valve	1	EA		
20	SP-04	12" Connection to Ex. 12" Water Main - Transition Fittings	1	EA		
21	SP-04	6" Connection to Ex. 6" Water Main - Transition Fittings	1	EA		
22	SP-05	Pump Around Operation	1	LS		
23	NCDOT 250	Removal of Existing Asphalt Pavement	50	SY		
24	NCDOT 520	Aggregate Base Course	300	TN		
25	NCDOT 545	Incidental Stone Base	100	TN		
26	SP-06	Flowable Fill (Excavatable)	25	CY		
27	NCDOT 654	Asphalt Plant Mix, Pavement Repair	20	TN		
28	NCDOT 867	Chain Link Fence Reset	40	LF		
29	NCDOT 1530	Remove Water Meter	2	EA		
30	NCDOT 1530	Remove Fire Hydrant	1	EA		
31	NCDOT 1605	Temporary Silt Fence	900	LF		
32	SP-07	Silt Fence Outlet	6	EA		
33	SP-08	Storm Drain Inlet Protection	1	EA		
34	SP-09	Coir Fiber Matting	150	SY		
35	NCDOT 1631	Matting for Erosion Control (Biodegradable Netting)	2000	SY		
36	NCDOT 1660	Seeding and Mulching	3000	SY		
37	SP-10	(3) 2" Schedule 80 PVC Conduits	700	LF		
38	SP-10	24"x36"x36" Tier 22 Handhole	3	EA		

ESTIMATED BASE COST \$ _____

10% CONTINGENCY \$ _____

TOTAL ESTIMATED COST \$ _____

3. PROJECT SPECIAL PROVISIONS:

- Add the following Project Special Provision to Exhibit C in the project bid documents:

SP-10 – COMMUNICATIONS CONDUIT

1.0 DESCRIPTION

Install three (3) nominal 2” PVC conduits, schedule 80. Conduits should either be uniquely colored or marked to allow easy identification.

Maintain 12” or more of spacing from the waterline. This spacing can be diagonal to the extent that the conduit is horizontally offset to the waterline. Maintain as much cover as possible over the conduits. There shall always be at least 20” of cover, 24” desirable.

For bends, use 45° elbows with a 36” minimum bend radius.

All conduit couplers and fittings shall be installed to be water-tight.

Conduits shall be temporarily capped during any pauses during installation.

In preparing the trench bed for the conduit installation, the trench bed shall be leveled to form an even base. Conduit must be inspected and approved by the City’s representative before backfilling. Backfilling next to the conduit shall be free from stones or other material which might damage the conduit or conduit joints. Large rocks shall not be included in any part of the backfill. In tamping the backfill at the sides of the conduit, special care shall be used to avoid damage to the joints or shifts in the conduit structure. Backfilling and tamping alongside the conduit shall be done in layers only an inch or two in thickness until the level of the top of the conduit is reached. Joints shall be allowed to set at least 24 hours before backfilling.

Backfill above conduits should be thoroughly tamped in 6 in. (152 mm) layers. To avoid damage to conduits, mechanical tampers should not be used until conduit configurations have been covered with at least 12 in. (305 mm) of hand-tamped backfill.

After the conduit and handholes have been installed, thoroughly clean and blow out each conduit. Mandrel test each conduit in the presence of the City’s representative. The mandrel’s diameter should be within ¼” of the inner diameter of the pipe. The pulling of the test mandrels through the conduits should be performed after backfilling.

Install 24”x36”x36” Tier 22 handholes with split lids. Conduit shall enter a handhole through an opening in the handhole sidewall. There are 3 types of openings:

- Factory-made (“mouseholes”)
- Field-made by punching out factory-made knockouts
- Field-made with a hole saw or knockout punch driver

If making the openings in the field, observe the handhole manufacturer’s instructions to maintain the handhole’s Tier 22 load rating. Conduits shall be trimmed such that no less than 2” and no more than 4” protrudes into a handhole.

Install a ground rod in each handhole: 13-mil copper-clad steel, 5/8” diameter, 8’ length.

Pea gravel should be placed inside of the handhole to minimize condensation problems.

Install a “Warning: Fiber Optic Cable” tape above the conduit and 12 inches below ground level.

Seal and cap each conduit with a blank plug or endcap after final installation.

A 10 AWG insulated tracer wire shall be installed in one of the conduits for conduit location purposes. Electrically bond the tracer wire to the ground rod.

Install mule tape in each conduit.

2.0 MEASUREMENT AND PAYMENT

(3) 2” *Schedule 80 PVC Conduits* will be measured and paid as the actual number of linear feet of (3) bundled PVC conduits, including bends as needed, which are installed and accepted. Measurement will be made horizontally along the centerline of the installed PVC conduit bundle. Such price and payment will be full compensation for all work covered by this section, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to install the PVC conduits.

24”x36”x36” *Tier 22 Handhole* will be measured and paid as the actual number of handholes installed and accepted. Such price and payment will be full compensation for all work covered by this section, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to install the handholes.

Payment will be made under:

(3) 2” SCHEDULE 80 PVC CONDUITS.....	LF
24”x36”x36” TIER 22 HANDHOLE	EA

4. Acknowledge Addendum 1 on the bid form of the documents.

End of Addendum 1

