

## STORMWATER INFRASTRUCTURE REPAIRS (SD-2022-02)

CITY OF DURHAM - DEPARTMENT OF PUBLIC WORKS - STORMWATER DIVISION - INFRASTRUCTURE GROUP

No.	Standard		Item Description	Quantity	Unit	Opinion of Probable Cost		Roadworks Construction Co.		Pipeline Utilities Inc.	
	Specification	Drawing				Unit Price	Item Value	Unit Price	Item Value	Unit Price	Item Value
<b>Abandonment, Demolition, and Removal</b>											
1	NCDOT 200	N/A	Supplementary Clearing and Grubbing	50	SY	\$100.00	\$5,000.00	\$25.20	\$1,260.00	\$86.00	\$4,300.00
2	30 11 00	N/A	Rough Clearing	1	LS	\$12,500.00	\$12,500.00	\$74,600.00	\$74,600.00	\$84,967.00	\$84,967.00
3	NCDOT 200	N/A	Select Tree Removal (4 to 8-inch diameter)	6	EA	\$650.00	\$3,900.00	\$1,015.00	\$6,090.00	\$750.00	\$4,500.00
4	NCDOT 200	N/A	Select Tree Removal (8.1 to 16-inch diameter)	11	EA	\$1,000.00	\$11,000.00	\$1,892.00	\$20,812.00	\$1,258.00	\$13,838.00
5	NCDOT 200	N/A	Select Tree Removal (16.1 to 24-inch diameter)	2	EA	\$1,800.00	\$3,600.00	\$4,930.00	\$9,860.00	\$3,107.00	\$6,214.00
6	NCDOT 200	N/A	Select Tree Removal (24.1 to 36-inch diameter)	3	EA	\$2,500.00	\$7,500.00	\$6,830.00	\$20,490.00	\$6,349.00	\$19,047.00
7	NCDOT 200	N/A	Select Tree Removal (48.1 to 60-inch diameter)	1	EA	\$7,500.00	\$7,500.00	\$15,260.00	\$15,260.00	\$13,473.00	\$13,473.00
8	NCDOT 340	N/A	Pipe Removal	720	LF	\$55.00	\$39,600.00	\$23.90	\$17,208.00	\$48.00	\$34,560.00
<b>Subtotal for Abandonment, Demolition, and Removal</b>						\$90,600.00		\$165,580.00		\$180,899.00	
<b>Earthwork</b>											
9	NCDOT 226	N/A	Undercut Excavation	288	CY	\$75.00	\$21,600.00	\$41.80	\$12,038.40	\$90.00	\$25,920.00
10	NCDOT 230	N/A	Borrow Excavation	4386	CY	\$50.00	\$219,300.00	\$52.00	\$228,072.00	\$50.50	\$221,493.00
11	NCDOT 240	N/A	Drainage Ditch Excavation	22	CY	\$100.00	\$2,200.00	\$139.40	\$3,066.80	\$154.00	\$3,388.00
12	NCDOT 225	N/A	Unclassified Excavation	800	CY	\$65.00	\$52,000.00	\$45.80	\$36,640.00	\$46.50	\$37,200.00
<b>Subtotal for Earthwork</b>						\$295,100.00		\$279,817.20		\$288,001.00	
<b>Soil Erosion and Sediment Control</b>											
13	NCDOT 876	NCDOT 876	Rip Rap, Class 1	77	TN	\$100.00	\$7,700.00	\$138.90	\$10,695.30	\$100.00	\$7,700.00
14	NCDOT 876	NCDOT 876	Rip Rap, Class 2	14	TN	\$150.00	\$2,100.00	\$408.00	\$5,712.00	\$133.00	\$1,862.00
15	NCDOT 876	NCDOT 876	Rip Rap, Class VII	14	TN	\$500.00	\$7,000.00	\$503.00	\$7,042.00	\$104.00	\$1,456.00
16	NCDOT 876	N/A	Geotextile for Drainage (Type 2)	221	SY	\$6.00	\$1,326.00	\$7.60	\$1,679.60	\$7.00	\$1,547.00
17	NCDOT 1631	NCDOT 1631.01	Matting for Erosion Control	300	SY	\$7.50	\$2,250.00	\$10.30	\$3,090.00	\$5.50	\$1,650.00
18	NCDOT 1660	N/A	Seeding and Mulching	5164	SY	\$5.00	\$25,820.00	\$3.40	\$17,557.60	\$3.00	\$15,492.00
<b>Subtotal for Soil Erosion and Sediment Control</b>						\$46,196.00		\$45,776.50		\$29,707.00	
<b>Paving</b>											
19	NCDOT 545	N/A	Incidental Stone Base	66	TN	\$50.00	\$3,300.00	\$160.00	\$10,560.00	\$77.00	\$5,082.00
20	NCDOT 520	N/A	Aggregate Base Course	15	TN	\$75.00	\$1,125.00	\$154.60	\$2,319.00	\$45.00	\$675.00
21	NCDOT 607	N/A	Milling Asphalt Pavement, 1.5-inch Depth	2322	SY	\$30.00	\$69,660.00	\$7.95	\$18,459.90	\$39.50	\$91,719.00
22	NCDOT 607	N/A	Milling Asphalt Pavement, 3.0-inch Depth	200	SY	\$50.00	\$10,000.00	\$26.70	\$5,340.00	\$70.00	\$14,000.00
23	NCDOT 610	COD 408.01	Asphalt Concrete Base Course, Type B25.0B	172	TN	\$200.00	\$34,400.00	\$257.80	\$44,341.60	\$181.00	\$31,132.00
24	NCDOT 610	COD 408.01	Asphalt Concrete Surface Course, Type S9.5B	295.5	TN	\$200.00	\$59,100.00	\$201.70	\$59,602.35	\$237.00	\$70,033.50
25	NCDOT 620	COD 408.01	Asphalt Binder for Plant Mix	30.5	TN	\$500.00	\$15,250.00	\$760.00	\$23,180.00	\$873.00	\$26,626.50
26	NCDOT 846	NCDOT 846.01	2-foot Concrete Curb and Gutter	300	LF	\$225.00	\$67,500.00	\$71.20	\$21,360.00	\$70.00	\$21,000.00
27	NCDOT 846	N/A	2-foot 6-inch Concrete Curb and Gutter	101	LF	\$550.00	\$55,550.00	\$79.20	\$7,999.20	\$90.00	\$9,090.00
28	N/A	COD 402.01	Concrete Valley Gutter	50	LF	\$50.00	\$2,500.00	\$115.70	\$5,785.00	\$101.00	\$5,050.00
29	NCDOT 848	NCDOT 848.01	4-inch Concrete Sidewalk	14	SY	\$250.00	\$3,500.00	\$276.00	\$3,864.00	\$150.00	\$2,100.00
30	NCDOT 848	COD 404	6-inch Concrete Driveway City Detail No. 404	102	SY	\$100.00	\$10,200.00	\$178.00	\$18,156.00	\$124.00	\$12,648.00
31	N/A	N/A	Reset Granite Curb	340	LF	\$75.00	\$25,500.00	\$88.70	\$30,158.00	\$191.00	\$64,940.00
32	N/A	N/A	Remove and Reset Paver Walkway	2	SY	\$150.00	\$300.00	\$2,860.00	\$5,720.00	\$1,383.00	\$2,766.00
33	N/A	N/A	Speed Hump	40	LF	\$1,000.00	\$40,000.00	\$250.00	\$10,000.00	\$248.00	\$9,920.00
<b>Subtotal for Paving</b>						\$397,885.00		\$266,845.05		\$366,782.00	
<b>Storm Drainage</b>											
34	NCDOT 300	N/A	Foundation Conditioning Material, Minor Structures	409	TN	\$75.00	\$30,675.00	\$47.30	\$19,345.70	\$67.00	\$27,403.00
35	NCDOT 300	N/A	Foundation Conditioning Geotextile	1164	SY	\$5.00	\$5,820.00	\$4.80	\$5,587.20	\$2.00	\$2,328.00
36	NCDOT 840	NCDOT 840.01/840.02	Catch Basin (0 to 5-feet)	17	EA	\$3,500.00	\$59,500.00	\$4,855.00	\$82,535.00	\$4,424.00	\$75,208.00
37	NCDOT 840	NCDOT 840.03/COD 633.11	Frame, Grate, and Hood, Type 'E'	16	EA	\$750.00	\$12,000.00	\$820.00	\$13,120.00	\$1,055.00	\$16,880.00
38	NCDOT 840	NCDOT 840.03/COD 633.11	Frame, Grate, and Hood, Type 'F'	2	EA	\$750.00	\$1,500.00	\$1,000.00	\$2,000.00	\$1,044.00	\$2,088.00
39	NCDOT 840	NCDOT 840.03/COD 633.11	Frame, Grate, and Hood, Type 'G'	4	EA	\$750.00	\$3,000.00	\$852.00	\$3,408.00	\$1,089.00	\$4,356.00
40	NCDOT 840	NCDOT 840.14/840.15	Drop Inlet (0 to 5-feet)	9	EA	\$3,500.00	\$31,500.00	\$4,646.00	\$41,814.00	\$4,707.00	\$42,363.00
41	NCDOT 840	NCDOT 840.16	Drop Inlet Frame and Grates	9	EA	\$650.00	\$5,850.00	\$805.00	\$7,245.00	\$971.00	\$8,739.00
42	NCDOT 840	NCDOT 840.31	Junction Box with Manhole (0 to 5-feet)	1	EA	\$3,500.00	\$3,500.00	\$7,502.00	\$7,502.00	\$4,019.00	\$4,019.00
43	NCDOT 840	NCDOT 840.51/840.53	Manhole (0 to 5-feet)	4	EA	\$5,000.00	\$20,000.00	\$5,075.00	\$20,300.00	\$4,831.00	\$19,324.00
44	NCDOT 840	NCDOT 840.54/COD 635.01/02	Manhole Frame and Cover	6	EA	\$650.00	\$3,900.00	\$600.00	\$3,600.00	\$797.00	\$4,782.00
45	NCDOT 840	N/A	Masonry Drainage Structures	91	LF	\$500.00	\$45,500.00	\$686.00	\$62,426.00	\$507.00	\$46,137.00

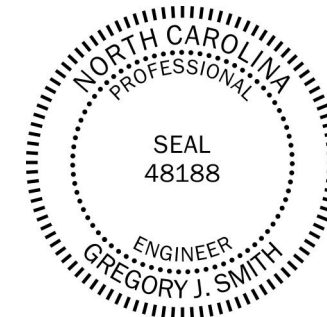
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CITY OF DURHAM - DEPARTMENT OF PUBLIC WORKS - STORMWATER DIVISION - INFRASTRUCTURE GROUP

Standard						Opinion of Probable Cost		Roadworks Construction Co.		Pipeline Utilities Inc.	
No.	Specification	Drawing	Item Description	Quantity	Unit	Unit Price	Item Value	Unit Price	Item Value	Unit Price	Item Value
46	N/A	N/A	4-inch PVC Drainage Pipe	70	LF	\$30.00	\$2,100.00	\$66.80	\$4,676.00	\$113.00	\$7,910.00
47	NCDOT 840	N/A	Pipe Collars	2	CY	\$1,500.00	\$3,000.00	\$2,468.00	\$4,936.00	\$1,567.00	\$3,134.00
48	NCDOT 840	N/A	Pipe Plugs	10	CY	\$1,500.00	\$15,000.00	\$2,230.00	\$22,300.00	\$973.00	\$9,730.00
49	NCDOT 310	NCDOT 300.01	18-inch R.C. Pipe Culverts, Class III (0 to 5-feet)	380	LF	\$100.00	\$38,000.00	\$138.00	\$52,440.00	\$239.00	\$90,820.00
50	NCDOT 310	NCDOT 300.01	18-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	550	LF	\$150.00	\$82,500.00	\$135.00	\$74,250.00	\$344.00	\$189,200.00
51	NCDOT 310	NCDOT 300.01	24-inch R.C. Pipe Culverts, Class III (0 to 5-feet)	66	LF	\$120.00	\$7,920.00	\$155.00	\$10,230.00	\$626.00	\$41,316.00
52	NCDOT 310	NCDOT 300.01	24-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	469	LF	\$180.00	\$84,420.00	\$171.00	\$80,199.00	\$456.00	\$213,864.00
53	NCDOT 310	NCDOT 300.01	30-inch R.C. Pipe Culverts, Class III (0 to 5-feet)	154	LF	\$160.00	\$24,640.00	\$225.00	\$34,650.00	\$431.00	\$66,374.00
54	NCDOT 310	NCDOT 300.01	30-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	298	LF	\$210.00	\$62,580.00	\$203.00	\$60,494.00	\$494.00	\$147,212.00
55	NCDOT 310	NCDOT 300.01	36-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	48	LF	\$250.00	\$12,000.00	\$437.00	\$20,976.00	\$451.00	\$21,648.00
56	NCDOT 310	NCDOT 310.03	24-inch Pipe End Section	6	EA	\$1,800.00	\$10,800.00	\$1,940.00	\$11,640.00	\$2,485.00	\$14,910.00
57	NCDOT 310	NCDOT 310.03	30-inch Pipe End Section	2	EA	\$2,500.00	\$5,000.00	\$3,134.00	\$6,268.00	\$2,847.00	\$5,694.00
58	NCDOT 838	NCDOT 838.01	Reinforced Endwalls	4	CY	\$2,225.00	\$8,900.00	\$2,358.00	\$9,432.00	\$1,499.00	\$5,996.00
<b>Subtotal for Storm Drainage</b>						\$579,605.00		\$661,373.90		\$1,071,435.00	
<b>Utilities</b>											
59	33 11 13	N/A	6-inch Water Transition Coupling	5	EA	\$600.00	\$3,000.00	\$1,373.00	\$6,865.00	\$1,526.00	\$7,630.00
60	33 12 16	N/A	6-inch Water Insertion Valves	4	EA	\$3,000.00	\$12,000.00	\$16,432.00	\$65,728.00	\$23,124.00	\$92,496.00
61	33 11 13	N/A	8-inch Water Transition Coupling	7	EA	\$800.00	\$5,600.00	\$1,228.00	\$8,596.00	\$1,770.00	\$12,390.00
62	33 12 16	N/A	8-inch Water Insertion Valves	2	EA	\$4,000.00	\$8,000.00	\$18,634.00	\$37,268.00	\$25,491.00	\$50,982.00
63		COD 512.04	8-inch to 6-inch Reducer	4	EA	\$750.00	\$3,000.00	\$1,520.00	\$6,080.00	\$694.00	\$2,776.00
64		COD 512.04	8-inch Water 45-degree Bend	8	EA	\$250.00	\$2,000.00	\$1,616.00	\$12,928.00	\$912.00	\$7,296.00
65			8-inch Water Cross	0	EA	\$750.00	\$0.00	\$3,400.00	\$0.00	\$1,163.00	\$0.00
66	33 11 13	N/A	8-inch Water Line (DIP)	907	LF	\$150.00	\$136,050.00	\$207.60	\$188,293.20	\$351.00	\$318,357.00
67		COD 513	8-inch Gate Valve	5	EA	\$1,000.00	\$5,000.00	\$4,990.00	\$24,950.00	\$13,175.00	\$65,875.00
68	NCDOT 1515	N/A	Relocate Water Meter	0	EA	\$1,000.00	\$0.00	\$1,824.00	\$0.00	\$1,882.00	\$0.00
69	NCDOT 1515	COD 516.01	3/4" Water Service Tap	17	EA	\$500.00	\$8,500.00	\$2,690.00	\$45,730.00	\$946.00	\$16,082.00
70	NCDOT 1515	COD 516.01	3/4" Water Service Line	540	LF	\$40.00	\$21,600.00	\$137.70	\$74,358.00	\$106.00	\$57,240.00
71	NCDOT 1515	COD 516.01	5/8" Water Meter Assembly	17	EA	\$1,800.00	\$30,600.00	\$2,284.00	\$38,828.00	\$1,883.00	\$32,011.00
72	33 31 13	N/A	8-inch Sanitary Gravity Sewer (DIP)	75	LF	\$150.00	\$11,250.00	\$281.60	\$21,120.00	\$927.00	\$69,525.00
73			8-inch Sewer Transition Coupling	8	EA	\$250.00	\$2,000.00	\$2,135.00	\$17,080.00	\$1,028.00	\$8,224.00
74		COD 733	Sanitary Sewer Service Cleanout Assembly (4" PVC)	1	EA	\$500.00	\$500.00	\$4,840.00	\$4,840.00	\$1,233.00	\$1,233.00
75		COD 733	Sanitary Sewer Service Lateral (4" PVC)	30	LF	\$50.00	\$1,500.00	\$155.00	\$4,650.00	\$512.00	\$15,360.00
76		COD 512	Concrete Thrust Collar	8	EA	\$1,000.00	\$8,000.00	\$2,080.00	\$16,640.00	\$3,247.00	\$25,976.00
77		COD 514.01/02/03	Fire Hydrant Assembly	1	EA	\$6,500.00	\$6,500.00	\$15,928.00	\$15,928.00	\$9,823.00	\$9,823.00
78	NCDOT 1510	N/A	Restraints, Blowoff Tap, & Hydrant, Sanitation	3	EA	\$5,000.00	\$15,000.00	\$8,115.00	\$24,345.00	\$12,556.00	\$37,668.00
79	30 11 00	N/A	Utility Line/Pole Relocation and Coordination Allowances	1	LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
<b>Subtotal for Utilities</b>						\$290,100.00		\$624,227.20		\$840,944.00	
<b>Miscellaneous</b>											
80	NCDOT 800	N/A	Mobilization	8	EA	\$16,875.00	\$135,000.00	\$29,484.00	\$235,872.00	\$18,625.00	\$149,000.00
81	N/A	N/A	Clean Structures, Parge and Replace Inverts as Necessary	2	EA	\$1,500.00	\$3,000.00	\$2,356.00	\$4,712.00	\$2,907.00	\$5,814.00
82	NCDOT 867	N/A	48-inch Fence Reset	23	LF	\$150.00	\$3,450.00	\$180.00	\$4,140.00	\$83.00	\$1,909.00
83	NCDOT 867	N/A	60-inch Fence Reset	12	LF	\$200.00	\$2,400.00	\$342.00	\$4,104.00	\$94.00	\$1,128.00
84	NCDOT 867	N/A	72-inch Fence Reset	12	LF	\$250.00	\$3,000.00	\$342.00	\$4,104.00	\$105.00	\$1,260.00
85	30 11 00	N/A	Construction Surveying	1	LS	\$40,000.00	\$40,000.00	\$42,500.00	\$42,500.00	\$33,193.00	\$33,193.00
86	30 11 00	N/A	Testing and Inspecting Allowances	1	LS	\$14,000.00	\$14,000.00	\$14,000.00	\$14,000.00	\$14,000.00	\$14,000.00
<b>Subtotal for Miscellaneous</b>						\$200,850.00		\$309,432.00		\$206,304.00	
<b>TOTAL</b>						<b>\$1,900,336.00</b>		<b>\$2,353,051.85</b>		<b>\$2,984,072.00</b>	

The bid proposals tabulated herein were opened and read aloud at 2:00 PM local time on December 20, 2022 in the City of Durham Department of Public Works Conference Room 3B, Third Floor, 101 City Hall Plaza, Durham, NC 27701.

Gregory J. Smith, P.E.  
City of Durham, Public Works Department



12/21/2022