

STORMWATER INFRASTRUCTURE REPAIRS (SD-2021-05)

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

		Standard				Opinion of Probable Cost		Pipeline Utilities, LLC		Bruce Allen Construction Company	
No.	Specification	Drawing	Item Description	Quantity	Unit	Unit Price	Item Value	Unit Price	Item Value	Unit Price	Item Value
Abandonment, Demolition, and Removal											
1	NCDOT 200	N/A	Supplementary Clearing and Grubbing	0.06	AC	\$8,500.00	\$510.00	\$58,600.00	\$3,516.00	\$190,669.27	\$11,440.16
2	NCDOT 200	N/A	Select Tree Removal (4 to 8-inch diameter)	23	EA	\$500.00	\$11,500.00	\$185.00	\$4,255.00	\$906.63	\$20,852.49
3	NCDOT 200	N/A	Select Tree Removal (8.1 to 16-inch diameter)	12	EA	\$1,000.00	\$12,000.00	\$713.00	\$8,556.00	\$1,208.84	\$14,506.08
4	NCDOT 200	N/A	Select Tree Removal (16.1 to 24-inch diameter)	4	EA	\$1,700.00	\$6,800.00	\$1,709.00	\$6,836.00	\$1,813.27	\$7,253.08
5	NCDOT 200	N/A	Select Tree Removal (24.1 to 36-inch diameter)	5	EA	\$2,500.00	\$12,500.00	\$2,856.00	\$14,280.00	\$2,417.69	\$12,088.45
6	NCDOT 200	N/A	Select Tree Removal (36.1 to 48-inch diameter)	0	EA	\$3,500.00	\$0.00	\$9,355.00	\$0.00	\$3,309.30	\$0.00
7	NCDOT 340	N/A	Pipe Removal	829	LF	\$55.00	\$45,595.00	\$13.50	\$11,191.50	\$162.24	\$134,496.96
8	N/A	N/A	Temporary Relocation of Mailbox	1	EA	\$200.00	\$200.00	\$319.00	\$319.00	\$288.48	\$288.48
9	N/A	N/A	Temporarily Relocate Street Sign	4	EA	\$200.00	\$800.00	\$218.00	\$872.00	\$288.48	\$1,153.92
10	N/A	N/A	Remove and Reset Steps and Handrail	1	EA	\$700.00	\$700.00	\$6,312.00	\$6,312.00	\$6,044.22	\$6,044.22
11	N/A	N/A	Removal of Existing Drainage Structure	1	EA	\$800.00	\$800.00	\$1,041.00	\$1,041.00	\$2,449.08	\$2,449.08
Subtotal for Abandonment, Demolition, and Removal						\$91,405.00		\$57,178.50		\$210,572.92	
Earthwork											
12	N/A	N/A	Special Berm Construction	1	LS	\$2,000.00	\$2,000.00	\$1,533.00	\$1,533.00	\$27,380.97	\$27,380.97
13	NCDOT 250	N/A	Removal of Existing Pavement	79	SY	\$55.00	\$4,345.00	\$22.00	\$1,738.00	\$91.38	\$7,219.02
14	NCDOT 226	N/A	Undercut Excavation	400	CY	\$75.00	\$30,000.00	\$61.00	\$24,400.00	\$236.42	\$94,568.00
15	NCDOT 230	N/A	Borrow Excavation	4073	CY	\$30.00	\$122,190.00	\$32.00	\$130,336.00	\$90.34	\$367,954.82
16	NCDOT 240	N/A	Drainage Ditch Excavation	65	CY	\$40.00	\$2,600.00	\$40.00	\$2,600.00	\$90.34	\$5,872.10
Subtotal for Earthwork						\$161,135.00		\$160,607.00		\$502,994.91	
Soil Erosion and Sediment Control											
17	NCDOT 876	N/A	Rip Rap, Class 1	189	TN	\$100.00	\$18,900.00	\$62.00	\$11,718.00	\$342.23	\$64,681.47
18	NCDOT 876	N/A	Rip Rap, Class B	23	TN	\$95.00	\$2,185.00	\$60.00	\$1,380.00	\$608.47	\$13,994.81
19	NCDOT 876	N/A	Geotextile for Drainage (Type 2)	330	SY	\$5.00	\$1,650.00	\$3.50	\$1,155.00	\$45.15	\$14,899.50
20	NCDOT 1631	NCDOT 1631.01	Matting for Erosion Control	25	SY	\$5.00	\$125.00	\$13.00	\$325.00	\$6.04	\$151.00
21	NCDOT 1660	N/A	Pine Staw Mulch	321	SY	\$5.00	\$1,605.00	\$5.00	\$1,605.00	\$10.88	\$3,492.48
22	NCDOT 1660	N/A	Seeding and Mulching	4007	SY	\$5.00	\$20,035.00	\$1.00	\$4,007.00	\$0.90	\$3,606.30
Subtotal for Soil Erosion and Sediment Control						\$44,500.00		\$20,190.00		\$100,825.56	
Traffic Control											
23	NCDOT 1205	N/A	Thermoplastic Pavement Larking Lines, 4-inch, 120-mils	175	LF	\$2.50	\$437.50	\$9.00	\$1,575.00	\$181.33	\$31,732.75
Subtotal for Traffic Control						\$437.50		\$1,575.00		\$31,732.75	
Paving											
24	NCDOT 545	N/A	Incidental Stone Base	43	TN	\$30.00	\$1,290.00	\$26.50	\$1,139.50	\$349.55	\$15,030.65
25	NCDOT 607	N/A	Milling Asphalt Pavement, 1.5-inch Depth	2438	SY	\$40.00	\$97,520.00	\$10.50	\$25,599.00	\$24.18	\$58,950.84
26	NCDOT 610	N/A	Asphalt Concrete Base Course, Type B25.0B	658	TN	\$250.00	\$164,500.00	\$146.00	\$96,068.00	\$163.19	\$107,379.02
27	NCDOT 610	N/A	Asphalt Concrete Surface Course, Type S9.5B	348.25	TN	\$250.00	\$87,062.50	\$130.00	\$45,272.50	\$151.11	\$52,624.06
28	NCDOT 620	N/A	Asphalt Binder for Plant Mix	54.1	TN	\$660.00	\$35,706.00	\$580.00	\$31,378.00	\$509.19	\$27,547.18
29	NCDOT 846	NCDOT 846.01	2-foot Concrete Curb and Gutter	702	LF	\$40.00	\$28,080.00	\$28.50	\$20,007.00	\$24.18	\$16,974.36
30	NCDOT 848	NCDOT 848.01	4-inch Concrete Sidewalk	53	SY	\$95.00	\$5,035.00	\$40.00	\$2,120.00	\$65.28	\$3,459.84
31	NCDOT 848	COD 404.02	6-inch Concrete Sidewalk	12	SY	\$110.00	\$1,320.00	\$71.00	\$852.00	\$97.92	\$1,175.04
32	NCDOT 848	COD 404	6-inch Concrete Driveway City Detail No. 404	363	SY	\$100.00	\$36,300.00	\$88.00	\$31,944.00	\$97.92	\$35,544.96
33	N/A	N/A	Reset Granite Curb	519	LF	\$55.00	\$28,545.00	\$61.00	\$31,659.00	\$120.44	\$62,508.36
34	NCDOT 848	COD 405.04	Single Curb Ramp City of Durham Curb Ramp Standard Details	6	EA	\$2,000.00	\$12,000.00	\$1,721.00	\$10,326.00	\$3,022.11	\$18,132.66
35	NCDOT 846	N/A	2-foot 6-inch Concrete Curb and Gutter	167	LF	\$40.00	\$6,680.00	\$36.50	\$6,095.50	\$30.22	\$5,046.74
Subtotal for Paving						\$504,038.50		\$302,460.50		\$404,373.71	

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No.	Specification	Drawing	Item Description	Quantity	Unit	Unit Price	Item Value	Unit Price	Item Value	Unit Price	Item Value	
Storm Drainage												
36	NCDOT 300	N/A	Foundation Conditioning Material, Minor Structures	435	TN	\$100.00	\$43,500.00	\$52.00	\$22,620.00	\$203.47	\$88,509.45	
37	NCDOT 300	N/A	Foundation Conditioning Geotextile	2462	SY	\$5.00	\$12,310.00	\$1.00	\$2,462.00	\$18.02	\$44,365.24	
38	NC DOT 840	N/A	Flowable Fill	3	CY	\$400.00	\$1,200.00	\$425.00	\$1,275.00	\$712.18	\$2,136.54	
39	NCDOT 420	N/A	Class A Concrete	3	CY	\$1,500.00	\$4,500.00	\$529.00	\$1,587.00	\$1,426.44	\$4,279.32	
40	NCDOT 840	NCDOT 840.01/840.02	Catch Basin (0 to 5-feet)	22	EA	\$3,500.00	\$77,000.00	\$3,258.00	\$71,676.00	\$4,964.34	\$109,215.48	
41	NCDOT 840	NCDOT 840.03/COD 633.11	Frame, Grate, and Hood, Type 'E'	17	EA	\$600.00	\$10,200.00	\$1,007.00	\$17,119.00	\$761.37	\$12,943.29	
42	NCDOT 840	NCDOT 840.03/COD 633.11	Frame, Grate, and Hood, Type 'F'	4	EA	\$600.00	\$2,400.00	\$1,007.00	\$4,028.00	\$761.37	\$3,045.48	
43	NCDOT 840	NCDOT 840.03/COD 633.11	Frame, Grate, and Hood, Type 'G'	2	EA	\$600.00	\$1,200.00	\$1,007.00	\$2,014.00	\$761.37	\$1,522.74	
44	NCDOT 840	NCDOT 840.14/840.15	Drop Inlet (0 to 5-feet)	5	EA	\$5,000.00	\$25,000.00	\$3,526.00	\$17,630.00	\$2,864.03	\$14,320.15	
45	NCDOT 840	NCDOT 840.16	Drop Inlet Frame and Grates	7	EA	\$800.00	\$5,600.00	\$799.00	\$5,593.00	\$664.13	\$4,648.91	
46	NCDOT 840	NCDOT 840.31	Junction Box with Manhole (0 to 5-feet)	2	EA	\$3,000.00	\$6,000.00	\$5,870.00	\$11,740.00	\$3,509.22	\$7,018.44	
47	NCDOT 840	NCDOT 840.51/840.53	Manhole (0 to 5-feet)	8	EA	\$3,500.00	\$28,000.00	\$3,601.00	\$28,808.00	\$3,509.22	\$28,073.76	
48	NCDOT 840	NCDOT 840.54/COD 635.01/02	Manhole Frame and Cover	9	EA	\$600.00	\$5,400.00	\$670.00	\$6,030.00	\$480.47	\$4,324.23	
49	N/A	N/A	Low Profile Manhole Frame and Cover	1	EA	\$600.00	\$600.00	\$670.00	\$670.00	\$480.47	\$480.47	
50	NCDOT 840	N/A	Masonry Drainage Structures	81	LF	\$500.00	\$40,500.00	\$237.00	\$19,197.00	\$1,403.50	\$113,683.50	
51	NCDOT 840	N/A	Pipe Collars	0.96	CY	\$2,500.00	\$2,400.00	\$875.00	\$840.00	\$3,137.90	\$3,012.38	
52	NCDOT 840	N/A	Pipe Plugs	6	CY	\$1,000.00	\$6,000.00	\$742.00	\$4,452.00	\$3,137.90	\$18,827.40	
53	NCDOT 310	NCDOT 300.01	15-inch R.C. Pipe Culverts, Class III (0 to 5-feet)	288	LF	\$80.00	\$23,040.00	\$381.00	\$109,728.00	\$418.56	\$120,545.28	
54	NCDOT 310	NCDOT 300.01	18-inch R.C. Pipe Culverts, Class III (0 to 5-feet)	162	LF	\$100.00	\$16,200.00	\$384.00	\$62,208.00	\$462.95	\$74,997.90	
55	NCDOT 310	NCDOT 300.01	18-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	235	LF	\$110.00	\$25,850.00	\$409.00	\$96,115.00	\$515.13	\$121,055.55	
56	NCDOT 310	NCDOT 300.01	24-inch R.C. Pipe Culverts, Class III (0 to 5-feet)	422	LF	\$120.00	\$50,640.00	\$466.00	\$196,652.00	\$536.68	\$226,478.96	
57	NCDOT 310	NCDOT 300.01	24-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	12	LF	\$130.00	\$1,560.00	\$417.00	\$5,004.00	\$609.72	\$7,316.64	
58	NCDOT 310	NCDOT 300.01	30-inch R.C. Pipe Culverts, Class III (0 to 5-feet)	160	LF	\$140.00	\$22,400.00	\$439.00	\$70,240.00	\$447.10	\$71,536.00	
59	NCDOT 310	NCDOT 300.01	30-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	1492	LF	\$150.00	\$223,800.00	\$546.00	\$814,632.00	\$634.66	\$946,912.72	
60	NCDOT 310	NCDOT 300.01	42-inch R.C. Pipe Culverts, Class III (5.1 to 11-feet)	381	LF	\$200.00	\$76,200.00	\$402.00	\$153,162.00	\$841.55	\$320,630.55	
61	NCDOT 310	NCDOT 310.02	15-inch Pipe End Section	1	EA	\$950.00	\$950.00	\$1,421.00	\$1,421.00	\$1,482.72	\$1,482.72	
62	NCDOT 310	NCDOT 310.03	24-inch Pipe End Section	1	EA	\$1,300.00	\$1,300.00	\$1,801.00	\$1,801.00	\$4,020.30	\$4,020.30	
63	NCDOT 310	NCDOT 310.03	30-inch Pipe End Section	1	EA	\$3,000.00	\$3,000.00	\$2,339.00	\$2,339.00	\$4,907.52	\$4,907.52	
64	NCDOT 838	NCDOT 838.01	Reinforced Endwalls	15.4	CY	\$2,225.00	\$34,265.00	\$1,280.00	\$19,712.00	\$1,426.44	\$21,967.18	
65	NCDOT 420	N/A	Class A Concrete	7	CY	\$3,000.00	\$21,000.00	\$529.00	\$3,703.00	\$1,426.44	\$9,985.08	
66	NCDOT 425	N/A	Reinforcing Steel	202	LB	\$50.00	\$10,100.00	\$14.00	\$2,828.00	\$12.09	\$2,442.18	
Subtotal for Storm Drainage							\$782,115.00		\$1,757,286.00		\$2,394,685.36	
Utilities												
67	33 11 13	N/A	6-inch Water Transition Coupling	2	EA	\$500.00	\$1,000.00	\$811.00	\$1,622.00	\$6,473.61	\$12,947.22	
68	33 12 16	N/A	6-inch Water Insertion Valves	1	EA	\$3,000.00	\$3,000.00	\$11,211.00	\$11,211.00	\$8,461.91	\$8,461.91	
69	33 11 13	N/A	6-inch Water Line (DIP)	10	LF	\$200.00	\$2,000.00	\$140.00	\$1,400.00	\$546.51	\$5,465.10	
70	33 11 13	N/A	8-inch Water Transition Coupling	1	EA	\$700.00	\$700.00	\$805.00	\$805.00	\$6,732.91	\$6,732.91	
71	33 12 16	N/A	8-inch Water Insertion Valves	1	EA	\$4,000.00	\$4,000.00	\$13,104.00	\$13,104.00	\$9,066.73	\$9,066.73	
72	33 11 13	N/A	8-inch Water Line (DIP)	100	LF	\$250.00	\$25,000.00	\$94.00	\$9,400.00	\$294.14	\$29,414.00	
73	33 11 13	N/A	12-inch Water Transition Coupling	1	EA	\$900.00	\$900.00	\$845.00	\$845.00	\$7,121.86	\$7,121.86	
74	33 12 16	N/A	12-inch Water Insertion Valves	1	EA	\$5,000.00	\$5,000.00	\$20,399.00	\$20,399.00	\$14,506.12	\$14,506.12	
75	33 11 13	N/A	12-inch Water Line (DIP)	40	LF	\$400.00	\$16,000.00	\$120.00	\$4,800.00	\$311.00	\$12,440.00	
76	33 31 13	N/A	8-inch Sanitary Gravity Sewer (DIP)	161	LF	\$250.00	\$40,250.00	\$114.00	\$18,354.00	\$403.38	\$64,944.18	
77	33 05 16	COD 732	4-foot Diameter Utility Manhole (0 to 6-feet)	3	EA	\$2,800.00	\$8,400.00	\$4,232.00	\$12,696.00	\$7,532.57	\$22,597.71	
78	33 05 16	COD 732	4-foot Diameter Utility Manhole Wall	4	LF	\$200.00	\$800.00	\$374.00	\$1,496.00	\$1,436.90	\$5,747.60	
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	
Subtotal for Utilities							\$117,050.00		\$106,132.00		\$209,445.34	

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		Standard				Opinion of Probable Cost		Pipeline Utilities, LLC		Bruce Allen Construction Company	
No.	Specification	Drawing	Item Description	Quantity	Unit	Unit Price	Item Value	Unit Price	Item Value	Unit Price	Item Value
Miscellaneous											
80	NCDOT 800	N/A	Mobilization	7	EA	\$17,142.86	\$120,000.00	\$18,240.00	\$127,680.00	\$19,176.47	\$134,235.29
81	NCDOT 867	N/A	48-inch Fence Reset	144	LF	\$40.00	\$5,760.00	\$29.00	\$4,176.00	\$60.44	\$8,703.36
82	NCDOT 867	N/A	72-inch Fence Reset	10	LF	\$50.00	\$500.00	\$53.00	\$530.00	\$362.65	\$3,626.50
83	N/A	N/A	Landscape Tree (3" min dia Willow Oak)	1	EA	\$900.00	\$900.00	\$2,954.00	\$2,954.00	\$3,022.11	\$3,022.11
84	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
Subtotal for Miscellaneous						\$141,160.00		\$149,340.00		\$163,587.26	
TOTAL						\$1,841,841.00		\$2,554,769.00		\$4,018,217.80	

The bid proposals tabulated herein were opened and read aloud at 10:00 AM local time on August 19, 2021 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

