Project Name: 2020 Annual Water Main Replacement Project Hillcrest Subdivision

Project Number: 2020-10

Bid Date: 02/05/2020

Time: 10:00 a.m.

Fund: Public Works Water Capital

Organization Code: 81808118
Object Code: 488800

Engineer's Estimate

City Engineering Division

Burdick Plumbing & Heating
1175 N 20th Po Box 496
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Item Number	Pay Item	Quantity	Unit	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
1	6 INCH POLYWRAPPED D.I.P. WATER MAIN	1,100	Feet	42.00	$46,200.00	$28.00	$30,800.00	$53.99	$59,389.00	$48.30	$53,130.00
2	8 INCH POLYWRAPPED D.I.P. WATER MAIN	7,400	Feet	48.00	$355,200.00	$32.00	$236,800.00	$64.20	$475,080.00	$55.08	$407,592.00
3	12 INCH X 8" INCH TAPPING SLEEVE & VALVE, MJ	4	Ea	10,000.00	$40,000.00	$7,000.00	$28,000.00	$4,314.74	$17,258.96	$8,140.00	$32,560.00
4	8 INCH VALVE, MJ WITH VALVE BOX	12	Ea	3,500.00	$42,000.00	$3,500.00	$42,000.00	$1,612.00	$19,344.00	$3,250.00	$39,000.00
5	8 INCH 45 DEGREE BENDS, MJ	8	Ea	500.00	$4,000.00	$500.00	$4,000.00	$669.52	$5,356.16	$485.00	$3,880.00
6	8 INCH 22.5 DEGREE BENDS, MJ	8	Ea	500.00	$4,000.00	$500.00	$4,000.00	$668.42	$5,347.36	$485.00	$3,880.00
7	8 INCH 11.25 DEGREE BENDS, MJ	2	Ea	500.00	$1,000.00	$500.00	$1,000.00	$662.54	$1,325.08	$455.00	$910.00
8	8 INCH X 8 INCH TEE, MJ	9	Ea	1,000.00	$9,000.00	$1,000.00	$9,000.00	$1,078.15	$9,703.35	$985.00	$8,865.00
9	8 INCH X 8 INCH CROSS, MJ	1	Ea	1,200.00	$1,200.00	$1,200.00	$1,200.00	$1,394.10	$1,394.10	$550.00	$550.00
10	8 INCH GRIP RING ACCESSORY KITS	124	Ea	250.00	$31,000.00	$250.00	$31,000.00	$315.78	$39,156.72	$145.00	$17,980.00
11	8 INCH FIELD LOCK GASKETS	100	Ea	250.00	$25,000.00	$175.00	$17,500.00	$116.14	$11,614.00	$160.00	$16,000.00
12	8 INCH SLEEVES, MJ	10	Ea	500.00	$5,000.00	$500.00	$5,000.00	$686.90	$6,869.00	$495.00	$4,950.00
13	8 INCH X 6 INCH TEE, MJ	22	Ea	900.00	$19,800.00	$900.00	$19,800.00	$1,056.10	$23,234.20	$725.00	$15,950.00
14	8 INCH X 6 INCH REDUCER, MJ	4	Ea	900.00	$3,600.00	$500.00	$2,000.00	$650.60	$2,602.40	$475.00	$1,900.00
15	8 INCH CAP/PLUG, MJ	4	Ea	500.00	$2,000.00	$400.00	$1,600.00	$642.90	$2,571.60	$410.00	$1,640.00
16	6 INCH VALVE, MJ WITH VALVE BOX	25	Ea	2,400.00	$60,000.00	$2,500.00	$62,500.00	$1,260.00	$31,500.00	$1,275.00	$31,875.00
17	6 INCH 45 DEGREE BENDS, MJ	8	Ea	500.00	$4,000.00	$450.00	$3,600.00	$647.94	$5,183.52	$325.00	$2,600.00
18	6 INCH 22.5 DEGREE BENDS, MJ	8	Ea	500.00	$4,000.00	$450.00	$3,600.00	$643.78	$5,150.24	$325.00	$2,600.00
19	6 INCH GRIP RING ACCESSORY KITS	110	Ea	150.00	$16,500.00	$175.00	$19,250.00	$645.21	$70,973.10	$145.00	$15,950.00
20	6 INCH FIELD LOCK GASKETS	12	Ea	150.00	$1,800.00	$100.00	$1,200.00	$93.86	$1,126.32	$160.00	$1,920.00
21	6 INCH SLEEVE, MJ	4	Ea	500.00	$2,000.00	$400.00	$1,600.00	$653.90	$2,615.60	$450.00	$1,800.00
22	6 INCH ANCHOR COUPLING	21	Ea	500.00	$10,500.00	$500.00	$10,500.00	$498.78	$10,474.38	$450.00	$9,450.00
23	6 INCH OFFSET NIPPLE	7	Ea	750.00	$5,250.00	$500.00	$3,500.00	$598.00	$4,186.00	$565.00	$3,955.00
24	FIRE HYDRANT, 4.5' BURY	22	Ea	5,400.00	$118,800.00	$3,500.00	$77,000.00	$6,000.00	$132,000.00	$5,200.00	$114,400.00
25	1 INCH X 20 FT WATER SERVICE (SHORT) W/CORP & CURB STOP, TYPE II	78	Ea	1,500.00	$117,000.00	$1,800.00	$140,400.00	$2,750.00	$214,500.00	$1,845.00	$143,910.00
26	1 INCH X 50 FT WATER SERVICE (LONG) W/CORP & CURB STOP, BORED. TYPE II	76	Ea	3,500.00	$266,000.00	$2,900.00	$220,400.00	$4,000.00	$304,000.00	$3,355.00	$254,980.00
27	REMOVE FIRE HYDRANT AND ABANDON EXISTING VALVE	18	Ea	1,500.00	$27,000.00	$1,200.00	$21,600.00	$1,500.00	$27,000.00	$1,500.00	$27,000.00
28	ABANDON EXISTING VALVE (REMOVE VALVE BOX)	14	Ea	900.00	$12,600.00	$1,000.00	$14,000.00	$600.00	$8,400.00	$850.00	$11,900.00
29	CUT AND PLUG EXISTING VALVE	4	Ea	1,000.00	$4,000.00	$3,000.00	$12,000.00	$600.00	$2,400.00	$1,250.00	$5,000.00
30	TRENCH BACKFILL	9,000	Tons	35.00	$315,000.00	$33.00	$297,000.00	$28.00	$252,000.00	$31.75	$285,750.00
31	PAVEMENT SAW CUTS	12,000	Feet	4.00	$48,000.00	$3.00	$36,000.00	$2.00	$24,000.00	$3.00	$36,000.00
32	5 INCH SIDEWALK REMOVAL	2,500	Sq Ft	5.00	$12,500.00	$4.00	$10,000.00	$2.25	$5,625.00	$3.50	$8,750.00
33	5 INCH PORTLAND CEMENT CONCRETE SIDEWALK REPLACEMENT	2,500	Sq Ft	12.00	$30,000.00	$12.50	$31,250.00	$5.85	$14,625.00	$15.50	$38,750.00
34	REMOVE AND REPLACE EXISTING CURB & GUTTER	100	Feet	60.00	$6,000.00	$70.00	$7,000.00	$40.00	$4,000.00	$44.00	$4,400.00
35	CONTROLLED LOW STRENGTH MATERIAL (FLOWABLE FILL)	40	Cu Yds	125.00	$5,000.00	$115.00	$4,600.00	$150.00	$6,000.00	$200.00	$8,000.00
36	DETECTABLE WARNING PADS	20	Sq Ft	40.00	$800.00	$45.00	$900.00	$25.00	$500.00	$35.00	$700.00
37	TEMPORARY PATCHES, 3 INCH	500	Sq Yds	90.00	$45,000.00	$80.00	$40,000.00	$73.00	$36,500.00	$87.60	$43,800.00
38	CLASS D PATCHES, 5 INCH PAVEMENT	4,000	Sq Yds	90.00	$360,000.00	$89.00	$356,000.00	$77.00	$308,000.00	$92.45	$369,800.00
39	CLASS B PATCHES, 8 INCH PAVEMENT	60	Sq Yds	125.00	$7,500.00	$153.00	$9,180.00	$67.00	$4,020.00	$120.00	$7,200.00
40	CLASS B PATCHES, 6 INCH DRIVEWAYS	1,000	Sq Yds	125.00	$125,000.00	$110.00	$110,000.00	$63.00	$63,000.00	$115.00	$115,000.00
41	CLASS D PATCHES, 3 INCH DRIVEWAYS	1,000	Sq Yds	100.00	$100,000.00	$87.00	$87,000.00	$62.00	$62,000.00	$73.16	$73,160.00
42	1" DOWEL BARS	60	Each	25.00	$1,500.00	$24.00	$1,440.00	$20.00	$1,200.00	$18.25	$1,095.00
43	AGGREGATE DRIVEWAY REPLACEMENT, 8 INCH	700	Tons	35.00	$24,500.00	$38.00	$26,600.00	$32.00	$22,400.00	$35.00	$24,500.00
44	TEMPORARY EROSION CONTROL, SEEDING	100	LB	25.00	$2,500.00	$10.00	$1,000.00	$20.00	$2,000.00	$30.00	$3,000.00
45	TEMPORARY EROSION CONTROL, PERIMETER BARRIER	500	Feet	5.00	$2,500.00	$5.00	$2,500.00	$4.50	$2,250.00	$5.00	$2,500.00
46	GRADING & SHAPING DITCHES	10,000	Feet	7.50	$75,000.00	$7.00	$70,000.00	$2.10	$21,000.00	$52.35	$523,500.00
47	SEEDING, CLASS 1 (LAWN MIXTURE) (100 lb/Acre)	120	LB	55.00	$6,600.00	$105.00	$12,600.00	$25.00	$3,000.00	$90.00	$10,800.00
48	PHOSPHORUS FERTILIZER NUTRIENT (90 lb/Acre)	100	LB	3.00	$300.00	$8.00	$800.00	$3.00	$300.00	$5.75	$575.00
49	POTASSIUM FERTILIZER NUTRIENT (90 lb/Acre)	100	LB	3.00	$300.00	$8.00	$800.00	$3.00	$300.00	$5.75	$575.00
50	NITROGEN FERTILIZER NUTRIENT (90 lb/Acre)	100	LB	3.00	$300.00	$8.00	$800.00	$3.00	$300.00	$5.75	$575.00
51	MULCH, METHOD 2 (2 Tons/acre)	1.5	Tons	1,200.00	$1,800.00	$1,400.00	$2,100.00	$2,000.00	$3,000.00	$2,000.00	$3,000.00
52	EXPLORATION EXCAVATIONS	50	Ea	750.00	$37,500.00	$600.00	$30,000.00	$600.00	$30,000.00	$735.00	$36,750.00
53	12 INCH CASINGS	100	Ft	70.00	$7,000.00	$160.00	$16,000.00	$58.16	$5,816.00	$80.00	$8,000.00
54	REPACE STORM SEWER WITH PRESSURE RATED PIPE	80	Ft	60.00	$4,800.00	$100.00	$8,000.00	$58.16	$4,652.80	$75.00	$6,000.00
55	REMOVE & REPLACE GUARD RAIL	1	Lump Sum	2,000.00	$2,000.00	$3,000.00	$3,000.00	$2,800.00	$2,800.00	$3,000.00	$3,000.00
56	TREE & BRUSH REMOVAL	1	Lump Sum	5,000.00	$5,000.00	$2,500.00	$2,500.00	$2,500.00	$2,500.00	$20,000.00	$20,000.00
57	TRAFFIC CONTROL	1	Lump Sum	10,000.00	$10,000.00	$27,500.00	$27,500.00	$18,000.00	$18,000.00	$84,000.00	$84,000.00
58	MOBILIZATION	1	Lump Sum	10,000.00	$10,000.00	$80,000.00	$80,000.00	$8,000.00	$8,000.00	$81,000.00	$81,000.00
59	ALTERATIONS, CANCELLATIONS, EXTENSIONS, DEDUCTIONS AND EXTRA WORK	1	Lump Sum	100,000.00	$100,000.00	$100,000.00	$100,000.00	$100,000.00	$100,000.00	$100,000.00	$100,000.00
	Alternate A										
60	6 INCH POLYWRAPPED D.I.P. WATER MAIN	20	Feet	42.00	$840.00	$70.00	$1,400.00	$53.41	$1,068.20	$50.00	$1,000.00
61	8 INCH POLYWRAPPED D.I.P. WATER MAIN	100	Feet	48.00	$4,800.00	$75.00	$7,500.00	$61.09	$6,109.00	$60.00	$6,000.00
62	8 INCH TR FLEX D.I.P. WATER MAIN IN STEEL CASING PIPE	400	Feet	60.00	$24,000.00	$100.00	$40,000.00	$71.95	$28,780.00	$41.00	$16,400.00

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	Engineer's Estimate City Engineering Division	Burdick Plumbing & Heating 1175 N 20th Po Box 496 Decatur, IL 62525 Ph: 217-429-2385 jared@burdickplumbing.com	Darad Inc. 209 NW 8th St. Casey, IL 62420 Ph: 217-932-5829 trueloved@fairpoint.net	Banks Excavating Inc. 101 S. Main St. Suite 800 Decatur, IL 62523 Ph: 217-519-3122 banksexcavating@gmail.com

Item Number	Pay Item	Quantity	Unit	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
63	16 INCH STEEL CASING PIPE BORED & JACKED	380	Feet	450.00	$171,000.00	$600.00	$228,000.00	$452.63	$171,999.40	$660.00	$250,800.00
64	8 INCH 45 DEGREE BENDS, MJ	6	Ea	500.00	$3,000.00	$750.00	$4,500.00	$469.52	$2,817.12	$485.00	$2,910.00
65	8 INCH GRIP RING ACCESSORY KITS	20	Ea	250.00	$5,000.00	$250.00	$5,000.00	$315.78	$6,315.60	$145.00	$2,900.00
66	8 INCH FIELD LOCK GASKETS	4	Ea	250.00	$1,000.00	$175.00	$700.00	$116.14	$464.56	$160.00	$640.00
67	8 INCH SLEEVES, MJ	2	Ea	500.00	$1,000.00	$500.00	$1,000.00	$686.90	$1,373.80	$495.00	$990.00
68	8 INCH X 6 INCH REDUCER, MJ	1	Ea	900.00	$900.00	$1,000.00	$1,000.00	$650.60	$650.60	$475.00	$475.00
69	6 INCH GRIP RING ACCESSORY KITS	4	Ea	150.00	$600.00	$200.00	$800.00	$645.21	$2,580.84	$145.00	$580.00
70	6 INCH SLEEVE, MJ	1	Ea	500.00	$500.00	$400.00	$400.00	$653.90	$653.90	$450.00	$450.00
71	ALLOWANCE FOR RAILROAD EXPENSES	1	LSUM	$10,000.00	$10,000.00	$10,000.00	$10,000.00	$10,000.00	$10,000.00	$10,000.00	$10,000.00
	TOTAL BASE BIDS (AS CORRECTED) Percent Over Under ENGINEER'S ESTIMATE				$2,584,850.00		$2,399,420.00 -7.17%		$2,507,543.89 -2.99%		$3,136,307.00 21.33%
	TOTAL ALTERNATE A (AS CORRECTED) Percent Over Under ENGINEER'S ESTIMATE				$222,640.00		$300,300.00 34.88%		$232,813.02 4.57%		$293,145.00 31.67%
	TOTAL BASE BID + ALTERNATE A (AS CORRECTED) Percent Over Under ENGINEER'S ESTIMATE				$2,807,490.00		$2,699,720.00 -3.84%		$2,740,356.91 -2.39%		$3,429,452.00 22.15%

Paul E. Caswell, P.E., City Engineer

2/6/2020
Date