

Estimate of Probable Cost

Owner:
City of Buchanan

Project Title:
Project - Downtown Infrastructure - Front Street Estimate

Date:
November 2022

Project #:
2221049

Item No.	Description	Quantity	Unit	Unit Price	Total Amount	Participating				Non-Participating			
						Traffic Light MDOT #206618		Front Street MDOT #206394		NP-USDA-RD (San/WM)		NP-Local (furniture / irrigation / landscaping)	
						Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
<u>Front Street - From West limit to Red Bud (West Crosswalk)</u>													
1	Mobilization, Max 10%	1	LSUM	\$277,000.00	\$277,000.00	0	\$32,800.00	0	\$130,400.00		\$68,500.00		\$45,300.00
2	Dr Structure, rem	23	Ea	\$900.00	\$20,700.00	0	\$0.00	23	\$20,700.00		\$0.00		\$0.00
3	Curb and Gutter, Rem	2,100	Ft	\$7.00	\$14,700.00	0	\$0.00	2,100	\$14,700.00		\$0.00		\$0.00
4	Sidewalk Rem	1,420	Syd	\$11.00	\$15,620.00	50	\$550.00	1,370	\$15,070.00		\$0.00		\$0.00
5	Machine Grading, Modified, Front	8.3	Sta	\$5,500.00	\$45,650.00	0.00	\$0.00	8.30	\$45,650.00		\$0.00		\$0.00
6	Subgrade Undercutting, Type II	250	Cyd	\$22.00	\$5,500.00	50	\$1,100.00	200	\$4,400.00		\$0.00		\$0.00
7	Erosion Control, Inlet Protection, Fabric Drop	26	Ea	\$125.00	\$3,250.00	0	\$0.00	26	\$3,250.00		\$0.00		\$0.00
8	Subbase, CIP	1,600	Cyd	\$15.00	\$24,000.00	0	\$0.00	1,600	\$24,000.00		\$0.00		\$0.00
9	Aggregate Base, 8 inch	2,400	Syd	\$18.00	\$43,200.00	0	\$0.00	2,400	\$43,200.00		\$0.00		\$0.00
10	Sewer, Cl III, 15 inch, Tr Det B	10	Ft	\$55.00	\$550.00	0	\$0.00	10	\$550.00		\$0.00		\$0.00
11	Sewer, Cl III, 18 inch, Tr Det B	398	Ft	\$75.00	\$29,850.00	0	\$0.00	398	\$29,850.00		\$0.00		\$0.00
12	Sewer, Cl III, 30 inch, Tr Det B	225	Ft	\$125.00	\$28,125.00	0	\$0.00	225	\$28,125.00		\$0.00		\$0.00
13	Sewer, Cl III, 36 inch, Tr Det B	250	Ft	\$130.00	\$32,500.00	0	\$0.00	250	\$32,500.00		\$0.00		\$0.00
14	Sewer, Cl IV, 12 inch, Tr Det B	238	Ft	\$45.00	\$10,710.00	0	\$0.00	238	\$10,710.00		\$0.00		\$0.00
15	Dr Structure Cover, Adj, Case 1, Modified	25	Ea	\$650.00	\$16,250.00	0	\$0.00	25	\$16,250.00		\$0.00		\$0.00
16	Dr Structure Cover, Type B	13	Ea	\$1,150.00	\$14,950.00	0	\$0.00	13	\$14,950.00		\$0.00		\$0.00
17	Dr Structure Cover, Type K	12	Ea	\$1,150.00	\$13,800.00	0	\$0.00	12	\$13,800.00		\$0.00		\$0.00
18	Dr Structure, 24 inch dia	9	Ea	\$2,000.00	\$18,000.00	0	\$0.00	9	\$18,000.00		\$0.00		\$0.00
19	Dr Structure, 48 inch dia	8	Ea	\$3,000.00	\$24,000.00	0	\$0.00	8	\$24,000.00		\$0.00		\$0.00
20	Dr Structure, 60 inch dia	5	Ea	\$4,500.00	\$22,500.00	0	\$0.00	5	\$22,500.00		\$0.00		\$0.00
21	Dr Structure, 72 inch dia	1	Ea	\$6,000.00	\$6,000.00	0	\$0.00	1	\$6,000.00		\$0.00		\$0.00
22	Sewer, SDR 35, PVC, 4 inch, Tr Det B	1,060	Ft	\$50.00	\$53,000.00	0	\$0.00	1,060	\$53,000.00		\$0.00		\$0.00
23	Sewer Tap, 4 inch	32	Ea	\$200.00	\$6,400.00	0	\$0.00	32	\$6,400.00		\$0.00		\$0.00

24	HMA Surface, Rem	4,550	Syd	\$6.50	\$29,575.00		0	\$0.00	4,550	\$29,575.00		\$0.00		\$0.00	
25	HMA, 3C, Modified	430	Ton	\$90.00	\$38,700.00		0	\$0.00	430	\$38,700.00		\$0.00		\$0.00	
26	HMA, LVSP, Modified	220	Ton	\$90.00	\$19,800.00		0	\$0.00	220	\$19,800.00		\$0.00		\$0.00	
27	Conc Pavt, Nonreinf, 8 inch, Table Top, color	830	Syd	\$85.00	\$70,550.00		0	\$0.00	830	\$70,550.00		\$0.00		\$0.00	
28	Conc Pavt, Nonreinf, 8 inch, Parking Stalls	370	Syd	\$75.00	\$27,750.00		0	\$0.00	370	\$27,750.00		\$0.00		\$0.00	
29	Driveway, Nonreinf Conc, 6 inch	60	Syd	\$50.00	\$3,000.00		0	\$0.00	60	\$3,000.00		\$0.00		\$0.00	
30	Pavt, Clay Brick Pavers, Crosswalks	1,350	Sft	\$50.00	\$67,500.00		0	\$0.00	1,350	\$67,500.00		\$0.00		\$0.00	
31	Curb and Gutter, Conc, Det F4	1,950	Ft	\$22.00	\$42,900.00		175	\$3,850.00	1,775	\$39,050.00		\$0.00		\$0.00	
32	Curb and Gutter, Conc, Header (in Road, 9 inch)	830	Ft	\$25.00	\$20,750.00		0	\$0.00	830	\$20,750.00		\$0.00		\$0.00	
33	Curb and Gutter, Conc, Flat Bands (in sidewalk, 6	1,300	Ft	\$20.00	\$26,000.00		0	\$0.00	1,300	\$26,000.00		\$0.00		\$0.00	
34	Driveway Opening, Conc, Det M	920	Ft	\$22.00	\$20,240.00		0	\$0.00	920	\$20,240.00		\$0.00		\$0.00	
35	Sidewalk, Conc, 4 inch	8,215	Sft	\$4.00	\$32,860.00		0	\$0.00	8,215	\$32,860.00		\$0.00		\$0.00	
36	Sidewalk, Conc, 6 inch	530	Sft	\$6.00	\$3,180.00		0	\$0.00	530	\$3,180.00		\$0.00		\$0.00	
37	Sidewalk Ramp, Clay Brick Pavers	540	Sft	\$16.00	\$8,640.00		240	\$3,840.00	300	\$4,800.00		\$0.00		\$0.00	
38	Sidewalk, Clay Brick Pavers, Rem/Salv	5,850	Sft	\$5.50	\$32,175.00		865	\$4,757.50	4,985	\$27,417.50		\$0.00		\$0.00	
39	Sidewalk, Clay Brick Pavers, Place Salv	3,510	Sft	\$15.00	\$52,650.00		0	\$0.00	3,510	\$52,650.00		\$0.00	0	\$0.00	
40	Sidewalk, Clay Brick Pavers, Place New	8,110	Sft	\$25.00	\$202,750.00		0	\$0.00	8110	\$202,750.00		\$0.00		\$0.00	
41	Sidewalk, Clay Brick Pavers, DWP	220	Sft	\$27.00	\$5,940.00		100	\$2,700.00	120	\$3,240.00		\$0.00		\$0.00	
42	Pavt Mrkg, Ovly Cold Plastic, 18 inch, Stop Bar	125	Ft	\$10.00	\$1,250.00		50	\$500.00	75	\$750.00		\$0.00		\$0.00	
43	Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	1	Ea	\$150.00	\$150.00		0	\$0.00	1	\$150.00		\$0.00		\$0.00	
44	Pavt Mrkg, Ovly Cold Plastic, Thru and Lt Turn A	1	Ea	\$250.00	\$250.00		0	\$0.00	1	\$250.00		\$0.00		\$0.00	
45	Pavt Mrkg, Waterborne, 4 inch, White	310	Ft	\$0.50	\$155.00		0	\$0.00	310	\$155.00		\$0.00		\$0.00	
46	Pavt Mrkg, Waterborne, 4 inch, Yellow	1,320	Ft	\$0.10	\$132.00		0	\$0.00	1,320	\$132.00		\$0.00		\$0.00	
47	Traffic Control	1	LSUM	\$200,000.00	\$200,000.00		0.20	\$40,000.00	0.80	\$160,000.00		0.00	\$0.00	0.00	\$0.00
48	Cable, Rem	250	Ft	\$2.00	\$500.00		250	\$500.00		\$0.00		\$0.00		\$0.00	
49	Conduit, DB, 1, 1 1/2 inch	100	Ft	\$20.00	\$2,000.00		100	\$2,000.00		\$0.00		\$0.00		\$0.00	
50	Conduit, DB, 1, 3 inch	150	Ft	\$28.00	\$4,200.00		150	\$4,200.00		\$0.00		\$0.00		\$0.00	
51	Conduit, DB, 3, 3 inch	50	Ft	\$60.00	\$3,000.00		50	\$3,000.00		\$0.00		\$0.00		\$0.00	
52	Cable, Equipment Grounding Wire, 1/C#6	300	Ft	\$3.00	\$900.00		300	\$900.00		\$0.00		\$0.00		\$0.00	
53	Cable, Equipment Grounding Wire, 1/C#12	4,000	Ft	\$3.00	\$12,000.00		4,000	\$12,000.00		\$0.00		\$0.00		\$0.00	
54	Hh, Round, 3 foot dia	1	Ea	\$3,000.00	\$3,000.00		1	\$3,000.00		\$0.00		\$0.00		\$0.00	
55	Hh, Round	3	Ea	\$2,000.00	\$6,000.00		3	\$6,000.00		\$0.00		\$0.00		\$0.00	
56	Controller and Cabinet, Rem	1	Ea	\$400.00	\$400.00		1	\$400.00		\$0.00		\$0.00		\$0.00	
57	Controller and Cabinet, Digital Type	1	Ea	\$20,000.00	\$20,000.00		1	\$20,000.00		\$0.00		\$0.00		\$0.00	

58	Controller Fdn, Base Mtd	1	Ea	\$3,000.00	\$3,000.00		1	\$3,000.00		\$0.00		\$0.00		\$0.00
59	Cable, Sec, 600V, 1, 3/C#6	300	Ft	\$10.00	\$3,000.00		300	\$3,000.00		\$0.00		\$0.00		\$0.00
60	Cable, P.J., 600V, 1, 7/C#12	4,000	Ft	\$5.00	\$20,000.00		4,000	\$20,000.00		\$0.00		\$0.00		\$0.00
61	Light Pole and Luminaire	22	Ea	\$3,500.00	\$77,000.00		0	\$0.00		\$0.00		22	\$77,000.00	\$0.00
62	Light Pole Fdn	22	Ea	\$1,500.00	\$33,000.00		0	\$0.00		\$0.00		22	\$33,000.00	\$0.00
63	Fdn, Rem	24	Ea	\$2,200.00	\$52,800.00		0	\$0.00		\$0.00		24	\$52,800.00	\$0.00
64	Lighting Control Panel	1	Ea	\$14,000.00	\$14,000.00		0	\$0.00		\$0.00			\$0.00	1 \$14,000.00
65	Pedestal, Alum	4	Ea	\$1,200.00	\$4,800.00		4	\$4,800.00		\$0.00			\$0.00	\$0.00
66	Pedestal, Fdn	4	Ea	\$1,200.00	\$4,800.00		4	\$4,800.00		\$0.00			\$0.00	\$0.00
67	Pushbutton and Sign	8	Ea	\$900.00	\$7,200.00		8	\$7,200.00		\$0.00			\$0.00	\$0.00
68	Span Wire	1	Ea	\$1,200.00	\$1,200.00		1	\$1,200.00		\$0.00			\$0.00	\$0.00
69	Span Wire, Rem	1	Ea	\$300.00	\$300.00		1	\$300.00		\$0.00			\$0.00	\$0.00
70	Strain Pole, Steel, 6 Bolt, 30 foot	4	Ea	\$9,000.00	\$36,000.00		4	\$36,000.00		\$0.00			\$0.00	\$0.00
71	Strain Pole Fdn, 6 Bolt	4	Ea	\$6,000.00	\$24,000.00		4	\$24,000.00		\$0.00			\$0.00	\$0.00
72	TS, Span Wire Mtd, Rem	2	Ea	\$200.00	\$400.00		2	\$400.00		\$0.00			\$0.00	\$0.00
73	TS, One Way Span Wire Mtd (LED)	8	Ea	\$1,500.00	\$12,000.00		8	\$12,000.00		\$0.00			\$0.00	\$0.00
74	TS, Pedestrian, One Way Bracket Arm Mtd (LED)	8	Ea	\$1,500.00	\$12,000.00		8	\$12,000.00		\$0.00			\$0.00	\$0.00
75	TS, Pedestrian, One Way Pedestal Mtd (LED) Co	8	Ea	\$1,500.00	\$12,000.00		8	\$12,000.00		\$0.00			\$0.00	\$0.00
76	TS, Pedestrian, Two Way Bracket Arm Mtd (LED)	4	Ea	\$1,700.00	\$6,800.00		4	\$6,800.00		\$0.00			\$0.00	\$0.00
77	TS, Pedestrian, Two Way Pedestal Mtd (LED) Co	4	Ea	\$1,700.00	\$6,800.00		4	\$6,800.00		\$0.00			\$0.00	\$0.00
78	Pedestal, Pushbutton, Alum	1	Ea	\$1,000.00	\$1,000.00		1	\$1,000.00		\$0.00			\$0.00	\$0.00
79	Serv Disconnect	1	Ea	\$2,000.00	\$2,000.00		1	\$2,000.00		\$0.00			\$0.00	\$0.00
80	Casing	4	Ea	\$300.00	\$1,200.00		4	\$1,200.00		\$0.00			\$0.00	\$0.00
81	Hemispherical Video Detection Camera	2	Ea	\$10,000.00	\$20,000.00		2	\$20,000.00		\$0.00			\$0.00	\$0.00
82	Hemispherical Video Detection System	1	Ea	\$25,000.00	\$25,000.00		1	\$25,000.00		\$0.00			\$0.00	\$0.00
83	Luminaire	2	Ea	\$1,500.00	\$3,000.00		2	\$3,000.00		\$0.00			\$0.00	\$0.00
84	Bracket, Truss, with 6 Foot Arm	2	Ea	\$1,200.00	\$2,400.00		2	\$2,400.00		\$0.00			\$0.00	\$0.00
85	TS Uninterruptible Power System	1	Ea	\$9,000.00	\$9,000.00		1	\$9,000.00		\$0.00			\$0.00	\$0.00
86	Hydrant, Rem	2	Ea	\$800.00	\$1,600.00			\$0.00		\$0.00		2	\$1,600.00	\$0.00
87	Water Shutoff, Adj, Case 1, Modified	30	Ea	\$400.00	\$12,000.00			\$0.00		\$0.00		30	\$12,000.00	\$0.00
88	Water Shutoff, Adj, Case 2	33	Ea	\$50.00	\$1,650.00			\$0.00	33	\$1,650.00			\$0.00	\$0.00
89	Gate Box, Adj, Case 1	8	Ea	\$400.00	\$3,200.00			\$0.00	8	\$3,200.00			\$0.00	\$0.00
90	Water Main, 10 inch	65	Ft	\$100.00	\$6,500.00			\$0.00		\$0.00		65	\$6,500.00	\$0.00
91	Water Main, 12 inch	635	Ft	\$110.00	\$69,850.00			\$0.00		\$0.00		635	\$69,850.00	\$0.00

92	Water Main, 12 inch, Directional Drill	135	Ft	\$150.00	\$20,250.00		\$0.00		\$0.00		135	\$20,250.00		\$0.00
93	Water Main, 8 inch	80	Ft	\$90.00	\$7,200.00		\$0.00		\$0.00		80	\$7,200.00		\$0.00
94	Water Main, 8 inch, Directional Drill	80	Ft	\$130.00	\$10,400.00		\$0.00		\$0.00		80	\$10,400.00		\$0.00
95	Water Service, 1 inch	2,000	Ea	\$25.00	\$50,000.00		\$0.00		\$0.00		2,000	\$50,000.00		\$0.00
96	Water Main, 10 inch Sleeve	1	Ea	\$2,500.00	\$2,500.00		\$0.00		\$0.00		1	\$2,500.00		\$0.00
97	Water Main, 10 inch Valve & Box	2	Ea	\$3,000.00	\$6,000.00		\$0.00		\$0.00		2	\$6,000.00		\$0.00
98	Water Main, 10 inch 45 deg Bend	2	Ea	\$800.00	\$1,600.00		\$0.00		\$0.00		2	\$1,600.00		\$0.00
99	Water Main, 12 inch Valve & Box	5	Ea	\$3,500.00	\$17,500.00		\$0.00		\$0.00		5	\$17,500.00		\$0.00
100	Water Main, 12 inch x 12 inch x 10 inch Tee	1	Ea	\$1,200.00	\$1,200.00		\$0.00		\$0.00		1	\$1,200.00		\$0.00
101	Water Main, 12 inch x 12 inch x 6 inch Tee	2	Ea	\$1,000.00	\$2,000.00		\$0.00		\$0.00		2	\$2,000.00		\$0.00
102	Water Main, 12 inch x 12 inch x 8 inch Tee	2	Ea	\$1,100.00	\$2,200.00		\$0.00		\$0.00		2	\$2,200.00		\$0.00
103	Water Main, 12 inch x 8 inch Reducer	1	Ea	\$800.00	\$800.00		\$0.00		\$0.00		1	\$800.00		\$0.00
104	Water Main, 5 inch Hydrant	2	Ea	\$5,000.00	\$10,000.00		\$0.00		\$0.00		2	\$10,000.00		\$0.00
105	Water Main, 8 inch 45 deg Bend	4	Ea	\$600.00	\$2,400.00		\$0.00		\$0.00		4	\$2,400.00		\$0.00
106	Water Main, 8 inch Sleeve	2	Ea	\$2,500.00	\$5,000.00		\$0.00		\$0.00		2	\$5,000.00		\$0.00
107	Water Main, 8 inch Valve & Box	1	Ea	\$2,000.00	\$2,000.00		\$0.00		\$0.00		1	\$2,000.00		\$0.00
108	Water Main, 8 inch x 6 inch Reducer	1	Ea	\$400.00	\$400.00		\$0.00		\$0.00		1	\$400.00		\$0.00
109	Water Main, Cut & Plug, 4 inch	1	Ea	\$1,500.00	\$1,500.00		\$0.00		\$0.00		1	\$1,500.00		\$0.00
110	Water Main, Cut & Plug, 6 inch	1	Ea	\$1,700.00	\$1,700.00		\$0.00		\$0.00		1	\$1,700.00		\$0.00
111	Water Main, Cut & Plug, 8 inch	1	Ea	\$1,900.00	\$1,900.00		\$0.00		\$0.00		1	\$1,900.00		\$0.00
112	Water Main, Cut & Plug, 10 inch	1	Ea	\$2,100.00	\$2,100.00		\$0.00		\$0.00		1	\$2,100.00		\$0.00
113	Sanitary Sewer, 12 inch	215	Ft	\$180.00	\$38,700.00		\$0.00		\$0.00		215	\$38,700.00		\$0.00
114	Sanitary Sewer, 12 inch, CIPP	98	Ft	\$225.00	\$22,050.00		\$0.00		\$0.00		98	\$22,050.00		\$0.00
115	Sanitary Sewer, 15 inch	261	Ft	\$200.00	\$52,200.00		\$0.00		\$0.00		261	\$52,200.00		\$0.00
116	Sanitary Sewer, 8 inch	255	Ft	\$150.00	\$38,250.00		\$0.00		\$0.00		255	\$38,250.00		\$0.00
117	Sanitary Sewer, Lateral, 6 inch	1,155	Ft	\$45.00	\$51,975.00		\$0.00		\$0.00		1,155	\$51,975.00		\$0.00
118	Sanitary Drop Manhole, 48 inch Dia	1	Ea	\$5,500.00	\$5,500.00		\$0.00		\$0.00		1	\$5,500.00		\$0.00
119	Sanitary Manhole, 48 inch Dia	7	Ea	\$4,500.00	\$31,500.00		\$0.00		\$0.00		7	\$31,500.00		\$0.00
120	Sanitary Sewer, 8 inch x 6 inch Wye	11	Ea	\$1,000.00	\$11,000.00		\$0.00		\$0.00		11	\$11,000.00		\$0.00
121	Sanitary Sewer, 12 inch x 6 inch Wye	12	Ea	\$1,200.00	\$14,400.00		\$0.00		\$0.00		12	\$14,400.00		\$0.00
122	Sanitary Sewer, 15 inch x 6 inch Wye	12	Ea	\$1,500.00	\$18,000.00		\$0.00		\$0.00		12	\$18,000.00		\$0.00
123	Ornamental Aluminum Fence	189	Ft	\$110.00	\$20,790.00		\$0.00		\$0.00			\$0.00	189	\$20,790.00
124	Planter Curb	873	Ft	\$55.00	\$48,015.00		\$0.00		\$0.00			\$0.00	873	\$48,015.00
125	30" dia Planter Pot	6	Ea	\$1,100.00	\$6,600.00		\$0.00		\$0.00			\$0.00	6	\$6,600.00

126	4' Bench	8	Ea	\$2,100.00	\$16,800.00		\$0.00	\$0.00	\$0.00	8	\$16,800.00
127	4' Bench, Backless	10	Ea	\$1,900.00	\$19,000.00		\$0.00	\$0.00	\$0.00	10	\$19,000.00
128	42" dia Planter Pot	8	Ea	\$1,300.00	\$10,400.00		\$0.00	\$0.00	\$0.00	8	\$10,400.00
129	5' Tree Grate	18	Ea	\$1,800.00	\$32,400.00		\$0.00	\$0.00	\$0.00	18	\$32,400.00
130	6' Bench	8	Ea	\$2,100.00	\$16,800.00		\$0.00	\$0.00	\$0.00	8	\$16,800.00
131	6' Bench, Backless	2	Ea	\$2,100.00	\$4,200.00		\$0.00	\$0.00	\$0.00	2	\$4,200.00
132	Bike Rack	12	Ea	\$700.00	\$8,400.00		\$0.00	\$0.00	\$0.00	12	\$8,400.00
133	Dog Waste Container	7	Ea	\$650.00	\$4,550.00		\$0.00	\$0.00	\$0.00	7	\$4,550.00
134	Litter Receptacle	11	Ea	\$2,200.00	\$24,200.00		\$0.00	\$0.00	\$0.00	11	\$24,200.00
135	Columns	4	Ea	\$5,000.00	\$20,000.00		\$0.00	\$0.00	\$0.00	4	\$20,000.00
136	Columns with Art	2	Ea	\$8,000.00	\$16,000.00		\$0.00	\$0.00	\$0.00	2	\$16,000.00
137	Decorative Intersection Art	2	Ea	\$5,000.00	\$10,000.00		\$0.00	\$0.00	\$0.00	2	\$10,000.00
138	Landscaping	1	LSUM	\$100,000.00	\$100,000.00		\$0.00	\$0.00	\$0.00	1	\$100,000.00
139	Irrigation	1	LSUM	\$80,000.00	\$80,000.00		\$0.00	\$0.00	\$0.00	1	\$80,000.00
	2022 Total				\$3,045,032.00		\$359,997.50	\$1,434,104.50	\$753,475.00		\$497,455.00
	2023 - Inflation 6% - TOTAL				\$3,227,900.00		\$381,600.00	\$1,520,200.00	\$798,700.00		\$527,400.00
	2024 - Inflation 6% - TOTAL				\$3,421,800.00		\$404,500.00	\$1,611,500.00	\$846,700.00		\$559,100.00