

ENGINEERS OPINION OF PROBABLE COSTS



CLIENT	City of Minot	PROJECT NO.	AE R19026	PAGE	1 OF 1
PROJECT	Storm District 123	PREPARED BY	JJA	DATE	Prel.
SUBJECT	Preliminary Estimate - 35% Design	CREATED BY	PDS	DATE	July 29, 2019

Item	Description	Unit	Quantity	District Quantity	Street Quantity	Water Quantity	Per Unit	Total	Storm District	Street	Water
General Items											
1	General Conditions	LS	1	0.875	0.100	0.025	\$25,000.00	\$25,000.00	\$21,875.00	\$2,500.00	\$625.00
2	Mobilization	LS	1	0.875	0.100	0.025	\$30,000.00	\$30,000.00	\$26,250.00	\$3,000.00	\$750.00
3	Traffic Control	LS	1	0.875	0.100	0.025	\$8,000.00	\$8,000.00	\$7,000.00	\$800.00	\$200.00
4	Erosion Control	LS	1	0.875	0.100	0.025	\$6,000.00	\$6,000.00	\$5,250.00	\$600.00	\$150.00
5	Material Testing	LS	1	0.875	0.100	0.025	\$10,000.00	\$10,000.00	\$8,750.00	\$1,000.00	\$250.00
General Subtotal								\$79,000.00	\$69,125.00	\$7,900.00	\$1,975.00
Demo Items											
6	Remove 15" Pipe	LF	40	40	0	0	\$20.00	\$800.00	\$800.00	\$0.00	\$0.00
7	Remove 18" Pipe	LF	90	90	0	0	\$25.00	\$2,250.00	\$2,250.00	\$0.00	\$0.00
8	Remove 27" Pipe	LF	50	50	0	0	\$25.00	\$1,250.00	\$1,250.00	\$0.00	\$0.00
9	Remove 44"x27" Arch Pipe	LF	80	80	0	0	\$35.00	\$2,800.00	\$2,800.00	\$0.00	\$0.00
10	Remove Existing Manhole	EA	1	1	0	0	\$1,000.00	\$1,000.00	\$1,000.00	\$0.00	\$0.00
11	Remove Existing Catch Basin	EA	2	2	0	0	\$900.00	\$1,800.00	\$1,800.00	\$0.00	\$0.00
12	Remove Curb & Gutter	LF	5200	1640	3560	0	\$10.00	\$52,000.00	\$16,400.00	\$35,600.00	\$0.00
13	Saw Cut Pavement, Full Depth	LF	3500	3200	300	0	\$3.00	\$10,500.00	\$9,600.00	\$900.00	\$0.00
14	Remove Concrete Pavement	SY	850	850	0	0	\$10.00	\$8,500.00	\$8,500.00	\$0.00	\$0.00
15	Remove Concrete Valley Gutter	SY	110	0	110	0	\$10.00	\$1,100.00	\$0.00	\$1,100.00	\$0.00
16	Remove Asphalt Pavement	SY	12500	4800	7700	0	\$5.00	\$62,500.00	\$24,000.00	\$38,500.00	\$0.00
17	2" Mill Asphalt Pavement	SY	4650	0	4650	0	\$5.00	\$23,250.00	\$0.00	\$23,250.00	\$0.00
18	Remove Traffic Signals	LS	1	0.5	1	0.0	\$50,000.00	\$50,000.00	\$25,000.00	\$25,000.00	\$0.00
Demo Subtotal								\$217,750.00	\$93,400.00	\$124,350.00	\$0.00
Storm Items											
19	Connect to Existing Storm Manhole	EA	3	3	0	0	\$2,000.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00
20	Adjust Manhole	EA	17	17	0	0	\$700.00	\$11,900.00	\$11,900.00	\$0.00	\$0.00
21	Adjust Gate Valve	EA	17	17	0	0	\$300.00	\$5,100.00	\$5,100.00	\$0.00	\$0.00
22	15" RCP	LF	630	630	0	0	\$60.00	\$37,800.00	\$37,800.00	\$0.00	\$0.00
23	18" RCP	LF	640	640	0	0	\$70.00	\$44,800.00	\$44,800.00	\$0.00	\$0.00
24	24" RCP	LF	1640	1640	0	0	\$75.00	\$123,000.00	\$123,000.00	\$0.00	\$0.00
25	30" RCP	LF	440	440	0	0	\$100.00	\$44,000.00	\$44,000.00	\$0.00	\$0.00
26	36" RCP	LF	70	70	0	0	\$120.00	\$8,400.00	\$8,400.00	\$0.00	\$0.00
27	42" RCP	LF	1150	1150	0	0	\$140.00	\$161,000.00	\$161,000.00	\$0.00	\$0.00
28	48" RCP	LF	70	70	0	0	\$180.00	\$12,600.00	\$12,600.00	\$0.00	\$0.00
29	54" RCP	LF	1130	1130	0	0	\$200.00	\$226,000.00	\$226,000.00	\$0.00	\$0.00
30	54" RCP FES	EA	1	1	0	0	\$3,000.00	\$3,000.00	\$3,000.00	\$0.00	\$0.00
31	24"x36" Catch Basin	EA	26	26	0	0	\$3,000.00	\$78,000.00	\$78,000.00	\$0.00	\$0.00
32	24"x72" Double Catch Basin	EA	1	1	0	0	\$5,000.00	\$5,000.00	\$5,000.00	\$0.00	\$0.00
33	48" Catch Basin Manhole	EA	6	6	0	0	\$4,500.00	\$27,000.00	\$27,000.00	\$0.00	\$0.00
34	60" Storm Manhole	EA	1	1	0	0	\$6,000.00	\$6,000.00	\$6,000.00	\$0.00	\$0.00
35	60" Catch Basin Manhole	EA	12	12	0	0	\$6,000.00	\$72,000.00	\$72,000.00	\$0.00	\$0.00
36	72" Storm Manhole	EA	3	3	0	0	\$8,500.00	\$25,500.00	\$25,500.00	\$0.00	\$0.00
37	72" Catch Basin Manhole	EA	6	6	0	0	\$8,500.00	\$51,000.00	\$51,000.00	\$0.00	\$0.00
38	84" Storm Manhole	EA	3	3	0	0	\$10,000.00	\$30,000.00	\$30,000.00	\$0.00	\$0.00
39	84" Catch Basin Manhole	EA	3	3	0	0	\$10,000.00	\$30,000.00	\$30,000.00	\$0.00	\$0.00
40	96" Storm Manhole	EA	2	2	0	0	\$12,000.00	\$24,000.00	\$24,000.00	\$0.00	\$0.00
41	96" Catch Basin Manhole	EA	1	1	0	0	\$12,000.00	\$12,000.00	\$12,000.00	\$0.00	\$0.00
42	20" Slotted Drain	EA	5	5	0	0	\$2,800.00	\$14,000.00	\$14,000.00	\$0.00	\$0.00
Storm Subtotal								\$1,058,100.00	\$1,058,100.00	\$0.00	\$0.00
Water Items											
43	Connect to Existing Water Main	EA	10	10	0	0	\$2,500.00	\$25,000.00	\$25,000.00	\$0.00	\$0.00
44	Remove & Replace Water Main (C-900), All Sizes	LF	60	60	0	0	\$75.00	\$4,500.00	\$4,500.00	\$0.00	\$0.00
45	Remove & Replace Gate Valve, Box & Riser	EA	6	0	0	6	\$4,000.00	\$24,000.00	\$0.00	\$24,000.00	\$0.00
46	Remove & Replace Hydrant	EA	2	2	0	0	\$6,500.00	\$13,000.00	\$13,000.00	\$0.00	\$0.00
47	Remove & Replace Water Service	EA	10	10	0	0	\$2,000.00	\$20,000.00	\$20,000.00	\$0.00	\$0.00
48	Polystyrene Insulation Board	BdFt	150	150	0	0	\$2.00	\$300.00	\$300.00	\$0.00	\$0.00
Water Subtotal								\$86,800.00	\$62,800.00	\$0.00	\$24,000.00
Street Items											
49	Concrete Curb & Gutter	LF	5200	3400	1800	0	\$22.00	\$114,400.00	\$74,800.00	\$39,600.00	\$0.00
50	Cement Base Stabilization	SY	9000	0	9000	0	\$12.00	\$108,000.00	\$0.00	\$108,000.00	\$0.00
51	Subgrade Preparation	SY	12700	3700	9000	0	\$3.00	\$38,100.00	\$11,100.00	\$27,000.00	\$0.00
52	Geotextile Fabric	SY	0	0	0	0	\$2.00	\$0.00	\$0.00	\$0.00	\$0.00
53	Aggregate Base - Class 5	Ton	9200	2200	7000	0	\$18.00	\$165,600.00	\$39,600.00	\$126,000.00	\$0.00
54	4" Concrete Sidewalk	SY	100	0	100	0	\$65.00	\$6,500.00	\$0.00	\$6,500.00	\$0.00
55	6" Concrete Driveway	SY	800	0	800	0	\$80.00	\$64,000.00	\$0.00	\$64,000.00	\$0.00
56	Detectable Warning Panels	SF	140	0	140	0	\$50.00	\$7,000.00	\$0.00	\$7,000.00	\$0.00
57	FAA 43 HBP Leveling Course	Ton	250	0	250	0	\$90.00	\$22,500.00	\$0.00	\$22,500.00	\$0.00
58	FAA 43 Hot Bituminous Pavement w/ PG 58-28 Oil	Ton	2100	650	1450	0	\$85.00	\$178,500.00	\$55,250.00	\$123,250.00	\$0.00
59	2" FAA 43 HBP Patching w/ PG 58-28 Oil	SY	3300	3300	0	0	\$40.00	\$132,000.00	\$132,000.00	\$0.00	\$0.00
60	2" Overlay FAA 43 Hot Bituminous Pavement w/ PG 58-28 Oil	Ton	1000	0	1000	0	\$85.00	\$85,000.00	\$0.00	\$85,000.00	\$0.00
61	4" Epoxy Pavement Striping	LF	250	0	250	0	\$2.00	\$500.00	\$0.00	\$500.00	\$0.00
62	6" Epoxy Pavement Striping	LF	100	0	100	0	\$7.00	\$700.00	\$0.00	\$700.00	\$0.00
63	24" Epoxy Pavement Striping	LF	120	0	120	0	\$30.00	\$3,600.00	\$0.00	\$3,600.00	\$0.00
64	Excavation/Embankment/Disposal	CY	3000	600	2400	0	\$20.00	\$60,000.00	\$12,000.00	\$48,000.00	\$0.00
65	Clearing & Grubbing	LS	1	0.3	0.7	0	\$2,000.00	\$2,000.00	\$600.00	\$1,400.00	\$0.00
66	Remove, Stockpile & Relay Topsoil	CY	600	180	420	0	\$25.00	\$15,000.00	\$4,500.00	\$10,500.00	\$0.00
67	Import Topsoil	CY	100	30	70	0	\$30.00	\$3,000.00	\$900.00	\$2,100.00	\$0.00
68	Seeding - Hydro Mulch	SY	3500	1000	2500	0	\$2.00	\$7,000.00	\$2,000.00	\$5,000.00	\$0.00
69	Remove and Reset Street Sign	EA	4	4	0	0	\$500.00	\$2,000.00	\$2,000.00	\$0.00	\$0.00
70	Remove and Reset Mailbox	EA	11	11	0	0	\$500.00	\$5,500.00	\$5,500.00	\$0.00	\$0.00
Street Subtotal								\$1,020,900.00	\$340,250.00	\$680,650.00	\$0.00
CONSTRUCTION SUBTOTAL								\$2,462,550.00	\$1,623,675.00	\$812,900.00	\$25,975.00
15% Contingency								\$369,382.50	\$243,551.25	\$121,935.00	\$3,896.25
CONSTRUCTION TOTAL								\$2,831,932.50	\$1,867,226.25	\$934,835.00	\$29,871.25
Easements								\$20,000.00	\$20,000.00	\$0.00	\$0.00
Engineering								\$433,000.00	\$433,000.00	\$0.00	\$0.00
TOTAL PROJECT COSTS								\$3,284,932.50	\$2,320,226.25	\$934,835.00	\$29,871.25

Since the Engineer has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, his opinion of probable Project cost and Construction Costs provided herein are made on the basis of his experience and qualifications and represent his best judgment as an experienced and qualified professional engineer, familiar with the construction industry. The Engineer cannot and does not guarantee nor warranty, expressed or implied, that proposals, bid, or actual Project or Construction Costs will not vary from opinions of probable cost prepared by him.