

S.P. 6910-92 (T.H. 23)
Agreement #1027177 w/ City of Duluth
Exhibit B: Cost Estimate

ENGINEER'S OPINION OF PROBABLE COST - City of Duluth Utility Work					
TRUNK HIGHWAY 23: Mission Creek					
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	ESTIMATED QUANTITY	ESTIMATED COST
2104.501	REMOVE WATER MAIN	LIN FT	\$ 15.00	645	\$ 9,675.00
2104.501	REMOVE WATER SERVICE PIPE	LIN FT	\$ 10.00	36	\$ 360.00
2104.501	REMOVE FORCE MAIN	LIN FT	\$ 8.95	543	\$ 4,859.85
2104.505	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$ 3.50	125	\$ 437.50
2104.509	REMOVE GATE VALVE	EACH	\$ 400.00	6	\$ 2,400.00
2104.523	SALVAGE HYDRANT & VALVE	EACH	\$ 825.00	3	\$ 2,475.00
2211.503	AGGREGATE BASE (CV) CLASS 6	CU YD	\$ 29.00	42	\$ 1,218.00
2360.501	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TON	\$ 84.00	28	\$ 2,352.00
2503.602	CONNECT TO EXISTING FORCE MAIN	EACH	\$ 1,513.00	2	\$ 3,026.00
2503.603	2" HDPE FORCEMAIN	LIN FT	\$ 50.00	5	\$ 250.00
2503.603	1.5" HDPE FORCEMAIN	LIN FT	\$ 40.00	405	\$ 16,200.00
2503.603	6" HDPE PIPE SEWER	LIN FT	\$ 45.00	70	\$ 3,150.00
2503.604	3" INSULATION	SQ YD	\$ 40.00	8	\$ 320.00
2504.602	CONNECT TO EXISTING WATER MAIN	EACH	\$ 2,000.00	6	\$ 12,000.00
2504.602	CONNECT TO EXISTING WATER SERVICE	EACH	\$ 270.00	3	\$ 810.00
2504.602	HYDRANT	EACH	\$ 6,500.00	3	\$ 19,500.00
2504.602	INSTALL 1.25" BLOWOFF	EACH	\$ 500.00	2	\$ 1,000.00
2504.602	ADJUST GATE VALVE & BOX	EACH	\$ 390.00	9	\$ 3,510.00
2504.602	0.75" CORPORATION STOP	EACH	\$ 450.00	3	\$ 1,350.00
2504.602	0.75" SADDLE	EACH	\$ 500.00	3	\$ 1,500.00
2504.602	6" GATE VALVE	EACH	\$ 2,000.00	4	\$ 8,000.00
2504.602	8" GATE VALVE	EACH	\$ 2,800.00	2	\$ 5,600.00
2504.603	3/4" TYPE K COPPER PIPE	LIN FT	\$ 55.00	17	\$ 935.00
2504.603	6" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$ 65.00	22	\$ 1,430.00
2504.603	6" WATERMAIN HDPE	LIN FT	\$ 45.00	410	\$ 18,450.00
2504.603	8" WATERMAIN HDPE	LIN FT	\$ 69.00	192	\$ 13,248.00
2504.603	8" WATERMAIN HDPE (DIRECTIONAL DRILLED)	LIN FT	\$ 109.00	184	\$ 20,056.00
2504.603	16" WATERMAIN HDPE	LIN FT	\$ 94.00	200	\$ 18,800.00
100% CITY OF DULUTH SUBTOTAL:					\$ 172,912.35

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Located on Trunk Highway 23 at Mission Creek

Exhibit B: Cost Estimate

Estimated Construction Cost:

Estimated cost of water main and sanitary sewer work = \$172,912.35

Construction Engineering Cost:

8% of estimated water main and sanitary sewer work = \$13,832.99

Total Estimated Bid Cost:

Estimated Contract Cost = \$172,912.35

Construction Engineering Cost = \$13,832.99

Total Estimated Bid Cost of Adjustment = \$186,745.34

TOTAL AGREEMENT COST = \$186,745.34