

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		1. Kenmore Construction	
					PRICE	AMOUNT	PRICE	AMOUNT
1	103.05	Contract Performance Bond	1	L.S.	\$11,000.00	\$11,000.00	\$5,000.00	\$5,000.00
2	624	Mobilization	1	L.S.	\$8,000.00	\$8,000.00	\$5,000.00	\$5,000.00
3		Plans & Permits (Summit County)	1	L.S.	\$10,000.00	\$10,000.00	\$500.00	\$500.00
		2070 Quayle Drive Pump Station - DEO gas (As Per Plan)						
4		Re-work Service Entrance Service	1	L.S.	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00
5		Maintain Existing Electrical	1	L.S.	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
6		New Generator - 150kW	1	Each	\$60,000.00	\$60,000.00	\$70,000.00	\$70,000.00
7		New Automatic Transfer Switch 400	1	Each	\$6,500.00	\$6,500.00	\$7,000.00	\$7,000.00
8		New Service Entrance Disc w/ Fusing	1	Each	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
9		New Electrical Feeder 400A	80	L.F.	\$120.00	\$9,600.00	\$50.00	\$4,000.00
10		New Control Feeder	125	L.F.	\$20.00	\$2,500.00	\$24.00	\$3,000.00
11		New Branch Breakers & Connection	2	Each	\$100.00	\$200.00	\$150.00	\$300.00
12		New Feeder - Block Heater / Battery	50	L.F.	\$25.00	\$1,250.00	\$14.00	\$700.00
13		New / Demo Heater & Feeder	1	L.S.	\$600.00	\$600.00	\$1,500.00	\$1,500.00
14		New Gas Piping	45	L.F.	\$40.00	\$1,800.00	\$100.00	\$4,500.00
15		New Gas Fittings	45	L.F.	\$8.00	\$360.00	\$10.00	\$450.00
16		New Gas Connection	1	L.S.	\$2,000.00	\$2,000.00	\$4,000.00	\$4,000.00
17		New Gas Manifold	1	Each	\$1,500.00	\$1,500.00	\$2,500.00	\$2,500.00
18		Demolition	1	L.S.	\$300.00	\$300.00	\$2,000.00	\$2,000.00
19		New Gas Unit Heater	2	Each	\$2,500.00	\$5,000.00	\$3,500.00	\$7,000.00
20		New Generator Pad	1	L.S.	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
21		New Fencing w/ Gate	1	L.S.	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00
22		Quayle Drive DEO gas line extention (work performed by DI	1	L.S.	\$60,028.00	\$60,028.00	\$75,000.00	\$75,000.00
23		SCADA Hardware and Interface	1	L.S.	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00
		488 Vernon Odom (Wooster Avenue) Pump Station - DEO gas (As Per Plan)						
24		Re-work Service Entrance Service	1	L.S.	\$500.00	\$500.00	\$2,000.00	\$2,000.00
25		Maintain Existing Electrical	1	L.S.	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
26		New Generator - 150kW	1	Each	\$60,000.00	\$60,000.00	\$61,000.00	\$61,000.00
27		New Automatic Transfer Switch 400	1	Each	\$6,500.00	\$6,500.00	\$8,000.00	\$8,000.00
28		New Electrical Feeder 225A	140	L.F.	\$70.00	\$9,800.00	\$30.00	\$4,200.00
29		New Control Feeder	225	L.F.	\$20.00	\$4,500.00	\$9.00	\$2,025.00
30		New 120V Powerpanel	1	Each	\$1,750.00	\$1,750.00	\$2,000.00	\$2,000.00
31		New 120V Xfmr	1	Each	\$2,150.00	\$2,150.00	\$2,000.00	\$2,000.00
32		New / Demo Heater & Feeder	125	L.F.	\$25.00	\$3,125.00	\$16.00	\$2,000.00
33		New 120V Xfmr Feeder	30	L.S.	\$25.00	\$750.00		\$1.00
34		Demo Existing Phil & Reconnect	1	L.S.	\$250.00	\$250.00	\$1,000.00	\$1,000.00
35		New Gas Piping	55	L.F.	\$40.00	\$2,200.00	\$100.00	\$5,500.00
36		New Gas Fittings	55	L.F.	\$8.00	\$440.00	\$10.00	\$550.00
37		New Gas Connection	1	L.S.	\$2,000.00	\$2,000.00	\$4,000.00	\$4,000.00
38		New Gas Manifold	1	Each	\$1,500.00	\$1,500.00	\$2,500.00	\$2,500.00
39		Demo and Reconnect Existing	1	L.S.	\$150.00	\$150.00	\$2,000.00	\$2,000.00
40		New Generator Pad	1	L.S.	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
41		Wooster Avenue DEO gas line extention (work performed b	1	L.S.	\$45,280.00	\$45,280.00	\$60,000.00	\$60,000.00
42		SCADA Hardware and Interface	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
		1350 Eastwood Avenue Pump Station - DEO gas (As Per Plan)						
43		Re-work Service Entrance Service	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
44		Maintain Existing Electrical	1	L.S.	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
45		New Generator - 150kW	1	Each	\$60,000.00	\$60,000.00	\$61,000.00	\$61,000.00
46		New Automatic Transfer Switch 400	1	Each	\$9,000.00	\$9,000.00	\$8,000.00	\$8,000.00
47		New Service Entrance Disc w/ Fusing	1	Each	\$8,000.00	\$8,000.00	\$4,000.00	\$4,000.00
48		New Electrical Feeder 400A	80	L.F.	\$70.00	\$5,600.00	\$25.00	\$2,000.00
49		New Control Feeder	130	L.F.	\$20.00	\$2,600.00	\$25.00	\$3,250.00
50		New 120V Powerpanel	1	Each	\$1,750.00	\$1,750.00	\$2,000.00	\$2,000.00
51		New 120V Xfmr	1	Each	\$2,150.00	\$2,150.00	\$2,000.00	\$2,000.00
52		New / Demo Heater & Feeder	50	L.F.	\$25.00	\$1,250.00	\$20.00	\$1,000.00
53		New 120V Xfmr Feeder	30	L.S.	\$25.00	\$750.00		\$1.00
54		New MCC Fusable Switch	1	Each	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00

55	New Gas Piping	40	L.F.	\$40.00	\$1,600.00	\$100.00	\$4,000.00
56	New Gas Fittings	40	L.F.	\$8.00	\$320.00	\$10.00	\$400.00
57	New Gas Connection	1	L.S.	\$2,000.00	\$2,000.00	\$4,000.00	\$4,000.00
58	New Gas Manifold	1	Each	\$1,500.00	\$1,500.00	\$2,500.00	\$2,500.00
59	New Gas Unit Heater	1	Each	\$2,500.00	\$2,500.00	\$3,500.00	\$3,500.00
60	New Generator Pad	1	L.S.	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
61	New Equipment Pad	1	L.S.	\$550.00	\$550.00	\$500.00	\$500.00
62	Eastwood Avenue DEO gas line extension (work performed	1	L.S.	\$6,000.00	\$6,000.00	\$7,500.00	\$7,500.00
63	SCADA Hardware and Interface	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
1370 Blackstone Avenue Pump Station - LP gas tank (As Per Plan)							
64	Re-work Service Entrance Service	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
65	Maintain Existing Electrical	1	L.S.	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
66	New Generator - 150kW	1	Each	\$60,000.00	\$60,000.00	\$66,000.00	\$66,000.00
67	New Automatic Transfer Switch 400	1	Each	\$9,000.00	\$9,000.00	\$12,000.00	\$12,000.00
68	New Service Entrance Disc w/ Fusing	1	Each	\$8,000.00	\$8,000.00	\$4,000.00	\$4,000.00
69	New Electrical Feeder 400A	110	L.F.	\$120.00	\$13,200.00	\$50.00	\$5,500.00
70	New Control Feeder	120	L.F.	\$20.00	\$2,400.00	\$25.00	\$3,000.00
71	New Branch Breakers & Connection	2	Each	\$100.00	\$200.00	\$2,500.00	\$5,000.00
72	New Feeder - Block Heater / Battery	100	L.F.	\$25.00	\$2,500.00	\$15.00	\$1,500.00
73	New LP Tank Installation	1	Each	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
74	New LP Tank	1	Each	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00
75	New Gas Piping	30	L.F.	\$40.00	\$1,200.00	\$30.00	\$900.00
76	New Gas Fittings	30	L.F.	\$5.00	\$150.00	\$10.00	\$300.00
77	New Gas Regulator	1	Each	\$250.00	\$250.00	\$1,000.00	\$1,000.00
78	New Generator Pad	1	L.S.	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
79	New LP Tank Pad	1	Each	\$800.00	\$800.00	\$4,000.00	\$4,000.00
80	New Equipment Pad	1	L.S.	\$550.00	\$550.00	\$500.00	\$500.00
81	SCADA Hardware and Interface	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
UNOFFICIAL CONSTRUCTION COST:					\$567,853.00		\$633,577.00

Alternative Bid w/ LP gas tank instead of DEO gas line extensions for 3 locations

ALTERNATE #1

2070 Quayle Drive Pump Station - LP gas tank (As Per Plan)

1	Re-work Service Entrance Service	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
2	Maintain Existing Electrical	1	L.S.	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
3	New Generator - 150kW	1	Each	\$60,000.00	\$60,000.00	\$70,000.00	\$70,000.00
4	New Automatic Transfer Switch 400	1	Each	\$6,500.00	\$6,500.00	\$9,000.00	\$9,000.00
5	New Service Entrance Disc w/ Fusing	1	Each	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
6	New Electrical Feeder 400A	80	L.F.	\$120.00	\$9,600.00	\$50.00	\$4,000.00
7	New Control Feeder	125	L.F.	\$20.00	\$2,500.00	\$25.00	\$3,125.00
8	New Branch Breakers & Connection	2	Each	\$100.00	\$200.00	\$150.00	\$300.00
9	New Feeder - Block Heater / Battery	50	L.F.	\$25.00	\$1,250.00	\$20.00	\$1,000.00
10	New LP Tank Installation	1	Each	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
11	New LP Tank	1	Each	\$1,500.00	\$1,500.00	\$4,500.00	\$4,500.00
12	New Gas Piping	30	L.F.	\$40.00	\$1,200.00	\$30.00	\$900.00
13	New Gas Fittings	30	L.F.	\$5.00	\$150.00	\$10.00	\$300.00
14	New Gas Regulator	1	Each	\$250.00	\$250.00	\$1,000.00	\$1,000.00
15	New Generator Pad	1	L.S.	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
16	New LP Tank Pad	1	Each	\$800.00	\$800.00	\$4,000.00	\$4,000.00
17	New Equipment Pad	1	L.S.	\$550.00	\$550.00	\$500.00	\$500.00
18	New Fencing w/ Gate	1	L.S.	\$5,500.00	\$5,500.00	\$6,000.00	\$6,000.00
19	SCADA Hardware and Interface	1	L.S.	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00
UNOFFICIAL CONSTRUCTION COST ALT.#1					\$103,500.00		\$125,625.00

ALTERNATE #2

488 Vernon Odom (Wooster Avenue) Pump Station - LP gas tank (As Per Plan)

1	Re-work Service Entrance Service	1	L.S.	\$500.00	\$500.00	\$2,000.00	\$2,000.00
2	Maintain Existing Electrical	1	L.S.	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
3	New Generator - 150kW	1	Each	\$60,000.00	\$60,000.00	\$65,000.00	\$65,000.00
4	New Automatic Transfer Switch 400	1	Each	\$6,500.00	\$6,500.00	\$7,000.00	\$7,000.00
5	New Electrical Feeder 225A	140	L.F.	\$70.00	\$9,800.00	\$25.00	\$3,500.00
6	New Control Feeder	225	L.F.	\$20.00	\$4,500.00	\$20.00	\$4,500.00
7	New 120V Powerpanel	1	Each	\$1,750.00	\$1,750.00	\$2,000.00	\$2,000.00
8	New 120V Xfmr	1	Each	\$2,150.00	\$2,150.00	\$2,000.00	\$2,000.00
9	New / Demo Heater & Feeder	125	L.F.	\$25.00	\$3,125.00	\$16.00	\$2,000.00
10	New 120V Xfmr Feeder	30	L.S.	\$25.00	\$750.00	\$1.00	\$1.00
11	Demo Existing Phil & Reconnect	1	L.S.	\$250.00	\$250.00	\$1,000.00	\$1,000.00
12	New LP Tank Installation	1	Each	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
13	New LP Tank	1	Each	\$1,500.00	\$1,500.00	\$5,500.00	\$5,500.00
14	New Gas Piping	30	L.F.	\$40.00	\$1,200.00	\$30.00	\$900.00
15	New Gas Fittings	30	L.F.	\$5.00	\$150.00	\$10.00	\$300.00
16	New Gas Regulator	1	Each	\$250.00	\$250.00	\$1,000.00	\$1,000.00
17	New Generator Pad	1	L.S.	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
18	New LP Tank Pad	1	Each	\$800.00	\$800.00	\$4,000.00	\$4,000.00
19	SCADA Hardware and Interface	1	L.S.	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00
UNOFFICIAL CONSTRUCTION COST ALT. #2					\$100,725.00		\$115,701.00

ALTERNATE #3

1350 Eastwood Avenue Pump Station - LP gas tank (As Per Plan)

1	Re-work Service Entrance Service	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
2	Maintain Existing Electrical	1	L.S.	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00
3	New Generator - 150kW	1	Each	\$60,000.00	\$60,000.00	\$65,000.00	\$65,000.00
4	New Automatic Transfer Switch 400	1	Each	\$9,000.00	\$9,000.00	\$11,000.00	\$11,000.00
5	New Service Entrance Disc w/ Fusing	1	Each	\$8,000.00	\$8,000.00	\$4,000.00	\$4,000.00
6	New Electrical Feeder 400A	80	L.F.	\$70.00	\$5,600.00	\$25.00	\$2,000.00
7	New Control Feeder	130	L.F.	\$20.00	\$2,600.00	\$25.00	\$3,250.00
8	New 120V Powerpanel	1	Each	\$1,750.00	\$1,750.00	\$2,000.00	\$2,000.00
9	New 120V Xfmr	1	Each	\$2,150.00	\$2,150.00	\$2,000.00	\$2,000.00
10	New / Demo Heater & Feeder	50	L.F.	\$25.00	\$1,250.00	\$20.00	\$1,000.00
11	New 120V Xfmr Feeder	30	L.S.	\$25.00	\$750.00		\$1.00
12	New MCC Fusible Switch	1	Each	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00
13	New LP Tank Installation	1	Each	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
14	New LP Tank	1	Each	\$1,500.00	\$1,500.00	\$3,000.00	\$3,000.00
15	New Gas Piping	30	L.F.	\$40.00	\$1,200.00	\$100.00	\$3,000.00
16	New Gas Fittings	30	L.F.	\$5.00	\$150.00	\$10.00	\$300.00
17	New Gas Regulator	1	Each	\$250.00	\$250.00	\$1,000.00	\$1,000.00
18	New Generator Pad	1	L.S.	\$3,000.00	\$3,000.00	\$10,000.00	\$10,000.00
19	New LP Tank Pad	1	Each	\$800.00	\$800.00	\$4,000.00	\$4,000.00
20	New Equipment Pad	1	L.S.	\$550.00	\$550.00	\$500.00	\$500.00
21	SCADA Hardware and Interface	1	L.S.	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00
UNOFFICIAL CONSTRUCTION COST ALT. #3					\$106,550.00		\$122,051.00

TOTAL CONSTRUCTION COSTS	\$567,853.00	\$633,577.00
+/- ENGINEER'S ESTIMATE		+11.6%
ALTERNATE #1		
TOTAL CONSTRUCTION COSTS	\$103,500.00	\$125,625.00
+/- ENGINEER'S ESTIMATE		+21.4%
ALTERNATE #2		
TOTAL CONSTRUCTION COSTS	\$100,725.00	\$115,701.00
+/- ENGINEER'S ESTIMATE		+14.9%
ALTERNATE #3		
TOTAL CONSTRUCTION COSTS	\$106,550.00	\$122,051.00
+/- ENGINEER'S ESTIMATE		+14.5%