

APPENDIX Q
CIP COST ESTIMATES

City of Milton
Preliminary Project Cost Estimate
Water Supply Project WS-1
Corridor Wells Iron and Manganese Treatment

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u> <u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization & Demobilization	1	LS	\$ 40,000	\$ 40,000
2	Trench Safety Systems	1	LS	\$ 3,000	\$ 3,000
3	Sitework	1	LS	\$ 25,000.00	\$ 25,000
4	Treatment Building	1	LS	\$ 150,000.00	\$ 150,000
5	Treatment Equipment	1	LS	\$ 140,000.00	\$ 140,000
6	Valves, Piping, and Appurtenances	1	LS	\$ 15,000.00	\$ 15,000
7	Electrical, Telemetry, and Instrumentation	1	LS	\$ 68,000.00	\$ 68,000
Subtotal:.....					\$ 441,000
Sales Tax (9.3%):.....					\$ 41,000
Subtotal:.....					\$ 482,000
Contingency (15%):.....					\$ 72,300
TOTAL ESTIMATED CONSTRUCTION COST:.....					\$ 554,300
Engineering and Administrative Costs (20%):.....					\$ 110,900
TOTAL ESTIMATED PROJECT COST:.....					\$ 665,200

City of Milton
Preliminary Project Cost Estimate
Water Supply Project WS-2
Test Wells and Land Acquisition for Additional Source

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization & Demobilization	1	LS	\$	69,500	\$ 69,500
2	Sitework	3	LS	\$	5,000	\$ 15,000
3	Water Right Application/Permit	1	LS	\$	15,000	\$ 15,000
4	Test Well - deep	3	EA	\$	150,000	\$ 450,000
5	Land Acquisition	1	LS	\$	200,000	\$ 200,000
6	Minor Changes	3	MC	\$	5,000	\$ 15,000
Subtotal:.....						\$764,500
Sales Tax (9.3%):.....						\$71,099
Subtotal:.....						\$835,600
Contingency (20%):.....						\$167,100
TOTAL ESTIMATED CONSTRUCTION COST:.....						\$1,002,700
Engineering and Administrative Costs (25%):.....						\$250,700
TOTAL ESTIMATED PROJECT COST:.....						\$1,253,400

City of Milton
Preliminary Project Cost Estimate
Water Supply Project WS-3
Additional Source Development

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization & Demobilization	1	LS	\$	48,900	\$ 48,900
2	Trench Safety Systems	1	LS	\$	5,000	\$ 5,000
3	Sitework	1	LS	\$	50,000	\$ 50,000
4	Temporary Erosion and Sediment Control	1	LS	\$	5,000	\$ 5,000
5	Foundation Gravel	100	TN	\$	20	\$ 2,000
6	Bank run Gravel	100	TN	\$	20	\$ 2,000
7	Unsuitable Foundation Excavation	10	CY	\$	45	\$ 450
8	Well Building	1	LS	\$	75,000	\$ 75,000
9	Well Assembly	1	LS	\$	65,000	\$ 65,000
10	Flow Meter System	1	LS	\$	10,000	\$ 10,000
11	Booster System	1	LS	\$	50,000	\$ 50,000
12	Valves, Piping, and Appurtenances	1	LS	\$	60,000	\$ 60,000
13	Electrical, Telemetry, and Instrumentation	1	LS	\$	150,000	\$ 150,000
14	Minor Changes	1	MC	\$	15,000	\$ 15,000
Subtotal:.....						\$538,350
Sales Tax (9.3%):.....						\$50,067
Subtotal:.....						\$588,400
Contingency (20%):.....						\$117,700
TOTAL ESTIMATED CONSTRUCTION COST:.....						\$706,100
Engineering and Administrative Costs (25%):.....						\$176,500
TOTAL ESTIMATED PROJECT COST:.....						\$882,600

City of Milton
Preliminary Project Cost Estimate
Storage Project ST-1
15th Avenue Reservoir Coating

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup & Demobilization	1 LS	\$ 11,000	\$ 11,000
2	Minor Changes	1 MC	\$ 10,000	\$ 10,000
3	Roof Vent	1 LS	\$ 15,000	\$ 15,000
4	Patch holes (6" X 6")	14 EA	\$ 200	\$ 2,800
5	Patch holes (9" X 9")	7 EA	\$ 350	\$ 2,450
6	Safety Climb System	1 LS	\$ 25,000	\$ 25,000
7	Recoat Reservoir Interior	1 LS	\$ 50,000	\$ 50,000
Subtotal:.....				\$ 116,250
Sales Tax (9.3%):.....				\$ 10,811
Subtotal:.....				\$ 127,100
Contingency (20%):.....				\$ 25,400
TOTAL ESTIMATED CONSTRUCTION COST:.....				\$ 152,500
Engineering and Administrative Costs (25%):.....				\$ 38,100
TOTAL ESTIMATED PROJECT COST:.....				\$ 190,600

City of Milton
Preliminary Project Cost Estimate
Booster Station Project BS-2
15th Avenue Booster Station

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization & Demobilization	1	LS	\$	12,200	\$ 12,200
2	Sitework	1	LS	\$	5,000	\$ 5,000
3	Replace all starters and controls with new pump control panel for three pumps.	1	LS	\$	50,000	\$ 50,000
4	Replace existing PLC control panel with new.	1	LS	\$	30,000	\$ 30,000
5	Provide PLC programming.	1	LS	\$	12,000	\$ 12,000
6	Provide HMI programming to SCADA system.	1	LS	\$	4,000	\$ 4,000
7	1,000 gpm booster pump	1	LS	\$	10,000	\$ 10,000
8	Vavles, Piping and Appurtenances	1	LS	\$	6,000	\$ 6,000
9	Minor Changes	1	LS	\$	5,000	\$ 5,000
Subtotal:.....						\$ 134,200
Sales Tax (9.3%):.....						\$ 12,481
Subtotal:.....						\$ 146,700
Contingency (20%):.....						\$ 29,300
TOTAL ESTIMATED CONSTRUCTION COST:.....						\$ 176,000
Engineering and Administrative Costs (25%):.....						\$ 44,000
TOTAL ESTIMATED PROJECT COST:.....						\$ 220,000

City of Milton
Preliminary Project Cost Estimate
Booster Station Project BS-3
1 MG Reservoir Booster Station

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u> <u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization & Demobilization	1	LS	\$ 22,000.00	\$ 22,000
2	Sitework	1	LS	\$ 5,000.00	\$ 5,000
3	Add new 60 HP SS motor starter and enclosure.	1	LS	\$ 25,000	\$ 25,000
4	Increase the size of the utility transformer and feeder.	1	LS	\$ 70,000	\$ 70,000
5	Replace existing PLC control panel with new.	1	LS	\$ 20,000	\$ 20,000
6	Provide PLC programming.	1	LS	\$ 12,000	\$ 12,000
7	Provide HMI programming to SCADA system.	1	LS	\$ 4,000	\$ 4,000
8	1,400 gpm booster pump	1	LS	\$ 11,000	\$ 11,000
9	Valves, Piping, and Appurtenances	1	LS	\$ 8,000	\$ 8,000
10	Generator Assembly	1	LS	\$ 60,000	\$ 60,000
11	Minor Changes	1	LS	\$ 5,000	\$ 5,000
Subtotal:.....					\$ 242,000
Sales Tax (9.3%):.....					\$ 22,506
Subtotal:.....					\$ 264,500
Contingency (20%):.....					\$ 52,900
TOTAL ESTIMATED CONSTRUCTION COST:.....					\$ 317,400
Engineering and Administrative Costs (25%):.....					\$ 79,400
TOTAL ESTIMATED PROJECT COST:.....					\$ 396,800

City of Milton
Preliminary Project Cost Estimate
Pressure Zone Project PZ-1
Goat Hill Pressure Zone Change

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT PRICE</u>	<u>AMOUNT</u>
1	Mobilization & Demobilization	1	LS	\$ 6,000	\$ 6,000
2	Trench Safety Systems	1	LS	\$ 1,000.00	\$ 1,000
3	Sitework	1	LS	\$ 3,000.00	\$ 3,000
4	Temporary Erosion and Sediment Control	1	LS	\$ 500.00	\$ 500
5	Foundation Gravel	1	TN	\$ 20.00	\$ 20
6	Bank run Gravel	10	TN	\$ 20.00	\$ 200
7	Traffic Control (multiple sites)	1	LS	\$ 10,000	\$ 10,000
8	6-inch Package PRV Station	1	EA	\$ 35,000	\$ 35,000
9	Modifications at 520 Zone Tie-In	1	LS	\$ 7,000	\$ 7,000
Subtotal:.....					\$ 62,720
Sales Tax (9.3%):.....					\$ 5,833
Subtotal:.....					\$ 68,600
Contingency (20%):.....					\$ 13,700
TOTAL ESTIMATED CONSTRUCTION COST:.....					\$ 82,300
Engineering and Administrative Costs (25%):.....					\$ 20,600
TOTAL ESTIMATED PROJECT COST:.....					\$ 102,900

Additive Items

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT PRICE</u>	<u>AMOUNT</u>
A1	Remove Pipes Section and Cap	5	EA	\$ 2,500	\$ 12,500
A2	3/4-inch Bypass Loops	5	EA	\$ 5,000	\$ 25,000

City of Milton
Preliminary Project Cost Estimate
Miscellaneous Project M-3
Well No. 10 Building Upgrades

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization & Demobilization	1	LS	\$	26,000	\$ 26,000
2	Trench Safety Systems	1	LS	\$	5,000	\$ 5,000
3	Sitework	1	LS	\$	10,000	\$ 10,000
4	Foundation Gravel	20	TN	\$	20	\$ 400
5	Bankrun Gravel	10	TN	\$	20	\$ 200
6	Well Building	1	LS	\$	50,000	\$ 50,000
7	Well Assembly	1	LS	\$	65,000	\$ 65,000
8	Flow Meter System	1	LS	\$	10,000	\$ 10,000
9	Valves, Piping, and Appurtenances	1	LS	\$	40,000	\$ 40,000
10	Electrical, Telemetry, and Instrumentation	1	LS	\$	69,000	\$ 69,000
11	Minor Changes	1	MC	\$	10,000	\$ 10,000
Subtotal:.....						\$ 285,600
Sales Tax (7.7%):.....						\$ 26,561
Subtotal:.....						\$ 312,200
Contingency (20%):.....						\$ 62,400
TOTAL ESTIMATED CONSTRUCTION COST:.....						\$ 374,600
Engineering and Administrative Costs (25%):.....						\$ 93,700
TOTAL ESTIMATED PROJECT COST:.....						\$ 468,300

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-2
Birch Street Crossing

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	36,000	\$ 36,000
2	Temporary Erosion and Sediment Control	1	LS	\$	7,000	\$ 7,000
3	Trench Safety Systems	1	LS	\$	1,400	\$ 1,400
4	Locate Existing Utilities	1	LS	\$	7,000	\$ 7,000
5	12-inch DI Water Pipe, Including Fittings	1,400	LF	\$	75	\$ 105,000
6	16-inch Boring under I-5	450	LF	\$	300	\$ 135,000
7	Additional Pipe Fittings	1,000	LB	\$	3	\$ 3,000
8	12-inch Gate Valves	5	EA	\$	1,800	\$ 9,000
9	Fire Hydrants	3	EA	\$	4,000	\$ 12,000
10	Gravel Backfill	800	CY	\$	20	\$ 16,000
11	HMA Cl. B PG 58-22	130	TN	\$	150	\$ 19,500
12	Sawcutting	2,800	LF	\$	3	\$ 8,400
13	Crushed Surfacing, Top Course	90	TN	\$	20	\$ 1,800
14	Cold Mix Asphalt	60	TN	\$	120	\$ 7,200
15	3/4" Service Connections, Complete	15	EA	\$	1,200	\$ 18,000
16	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
17	Traffic Control	100	HRS	\$	35	\$ 3,500
Subtotal.....						\$ 395,800
Tax rate (9.3%).....						\$ 36,809
Subtotal:.....						\$ 432,600
Contingency (20%).....						\$ 86,520
Total Estimated Construction Cost:.....						\$ 519,000
Engineering and Administrative Costs (25%):.....						\$ 130,000
Total Estimated Project Cost:.....						\$ 649,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-3
Porter Way from Kent Street to 5th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	14,000	\$ 14,000
2	Temporary Erosion and Sediment Control	1	LS	\$	3,000	\$ 3,000
3	Trench Safety Systems	1	LS	\$	800	\$ 800
4	Locate Existing Utilities	1	LS	\$	3,000	\$ 3,000
5	12-inch DI Water Pipe, Including Fittings	830	LF	\$	75	\$ 62,250
6	Additional Pipe Fittings	400	LB	\$	3	\$ 1,200
7	12-inch Gate Valves	3	EA	\$	1,800	\$ 5,400
8	Fire Hydrants	2	EA	\$	4,000	\$ 8,000
9	Gravel Backfill	470	CY	\$	20	\$ 9,400
10	HMA Cl. B PG 58-22	80	TN	\$	150	\$ 12,000
11	Sawcutting	1,660	LF	\$	3	\$ 4,980
12	Crushed Surfacing, Top Course	50	TN	\$	20	\$ 1,000
13	Cold Mix Asphalt	40	TN	\$	120	\$ 4,800
14	3/4" Service Connections, Complete	10	EA	\$	1,200	\$ 12,000
15	Connections to Existing System	3	EA	\$	3,000	\$ 9,000
16	Traffic Control	44	HRS	\$	35	\$ 1,540
Subtotal.....						\$ 152,370
Tax rate (9.3%).....						\$ 14,170
Subtotal:.....						\$ 166,500
Contingency (20%).....						\$ 33,300
Total Estimated Construction Cost:.....						\$ 200,000
Engineering and Administrative Costs (25%):.....						\$ 50,000
Total Estimated Project Cost:.....						\$ 250,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-4
School Property - South Looping

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	12,000	\$ 12,000
2	Temporary Erosion and Sediment Control	1	LS	\$	2,000	\$ 2,000
3	Trench Safety Systems	1	LS	\$	800	\$ 800
4	Locate Existing Utilities	1	LS	\$	2,000	\$ 2,000
5	12-inch DI Water Pipe, Including Fittings	800	LF	\$	75	\$ 60,000
6	Additional Pipe Fittings	1,000	LB	\$	3	\$ 3,000
7	12-inch Gate Valves	3	EA	\$	1,800	\$ 5,400
8	Fire Hydrants	2	EA	\$	4,000	\$ 8,000
9	Gravel Backfill	460	CY	\$	20	\$ 9,200
10	HMA Cl. B PG 58-22	70	TN	\$	150	\$ 10,500
11	Sawcutting	1,600	LF	\$	3	\$ 4,800
12	Crushed Surfacing, Top Course	50	TN	\$	20	\$ 1,000
13	Cold Mix Asphalt	40	TN	\$	120	\$ 4,800
14	Connections to Existing System	3	EA	\$	3,000	\$ 9,000
15	Traffic Control	44	HRS	\$	35	\$ 1,540
Subtotal.....						\$ 134,040
Tax rate (9.3%).....						\$ 12,466
Subtotal:.....						\$ 146,500
Contingency (20%).....						\$ 29,300
Total Estimated Construction Cost:.....						\$ 176,000
Engineering and Administrative Costs (25%):.....						\$ 44,000
Total Estimated Project Cost:.....						\$ 220,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-5
Porter Way Crossing

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS		\$ 37,000	\$ 37,000
2	Temporary Erosion and Sediment Control	1	LS		\$ 7,000	\$ 7,000
3	Trench Safety Systems	1	LS		\$ 1,600	\$ 1,600
4	Locate Existing Utilities	1	LS		\$ 7,000	\$ 7,000
5	12-inch DI Water Pipe, Including Fittings	1,600	LF		\$ 75	\$ 120,000
6	16-inch Boring under I-5	400	LF		\$ 300	\$ 120,000
7	Additional Pipe Fittings	800	LB		\$ 3	\$ 2,400
8	12-inch Gate Valves	6	EA		\$ 1,800	\$ 10,800
9	Fire Hydrants	3	EA		\$ 4,000	\$ 12,000
10	Gravel Backfill	910	CY		\$ 20	\$ 18,200
11	HMA Cl. B PG 58-22	150	TN		\$ 150	\$ 22,500
12	Sawcutting	3,200	LF		\$ 3	\$ 9,600
13	Crushed Surfacing, Top Course	100	TN		\$ 20	\$ 2,000
14	Cold Mix Asphalt	70	TN		\$ 120	\$ 8,400
15	3/4" Service Connections, Complete	15	EA		\$ 1,200	\$ 18,000
16	Connections to Existing System	3	EA		\$ 3,000	\$ 9,000
17	Traffic Control	100	HRS		\$ 35	\$ 3,500
Subtotal.....						\$ 409,000
Tax rate (9.3%).....						\$ 38,037
Subtotal:.....						\$ 447,000
Contingency (20%).....						\$ 89,400
Total Estimated Construction Cost:.....						\$ 536,000
Engineering and Administrative Costs (25%):.....						\$ 134,000
Total Estimated Project Cost:.....						\$ 670,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-6
Northwood Elementary Transmission

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	11,000	\$ 11,000
2	Temporary Erosion and Sediment Control	1	LS	\$	2,000	\$ 2,000
3	Trench Safety Systems	1	LS	\$	700	\$ 700
4	Locate Existing Utilities	1	LS	\$	2,000	\$ 2,000
5	12-inch DI Water Pipe, Including Fittings	740	LF	\$	75	\$ 55,500
6	Additional Pipe Fittings	400	LB	\$	3	\$ 1,200
7	12-inch Gate Valves	3	EA	\$	1,800	\$ 5,400
8	Fire Hydrants	2	EA	\$	4,000	\$ 8,000
9	Gravel Backfill	420	CY	\$	20	\$ 8,400
10	HMA Cl. B PG 58-22	70	TN	\$	150	\$ 10,500
11	Sawcutting	1,480	LF	\$	3	\$ 4,440
12	Crushed Surfacing, Top Course	50	TN	\$	20	\$ 1,000
13	Cold Mix Asphalt	30	TN	\$	120	\$ 3,600
14	3/4" Service Connections, Complete	4	EA	\$	1,200	\$ 4,800
15	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
16	Traffic Control	40	HRS	\$	35	\$ 1,400
Subtotal.....						\$ 125,940
Tax rate (9.3%).....						\$ 11,712
Subtotal:.....						\$ 137,700
Contingency (20%).....						\$ 27,540
Total Estimated Construction Cost:.....						\$ 165,000
Engineering and Administrative Costs (25%):.....						\$ 41,000
Total Estimated Project Cost:.....						\$ 206,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-7
11th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	9,000	\$ 9,000
2	Temporary Erosion and Sediment Control	1	LS	\$	2,000	\$ 2,000
3	Trench Safety Systems	1	LS	\$	500	\$ 500
4	Locate Existing Utilities	1	LS	\$	2,000	\$ 2,000
5	8-inch DI Water Pipe, Including Fittings	450	LF	\$	55	\$ 24,750
6	Additional Pipe Fittings	200	LB	\$	3	\$ 600
7	8-inch Gate Valves	2	EA	\$	1,000	\$ 2,000
8	Fire Hydrants	1	EA	\$	4,000	\$ 4,000
9	Gravel Backfill	220	CY	\$	20	\$ 4,400
10	HMA Cl. B PG 58-22	40	TN	\$	150	\$ 6,000
11	Sawcutting	900	LF	\$	3	\$ 2,700
12	Crushed Surfacing, Top Course	30	TN	\$	20	\$ 600
13	Cold Mix Asphalt	20	TN	\$	120	\$ 2,400
14	3/4" Service Connections, Complete	18	EA	\$	1,200	\$ 21,600
15	Connections to Existing System	5	EA	\$	3,000	\$ 15,000
16	Traffic Control	24	HRS	\$	35	\$ 840
Subtotal.....						\$ 98,390
Tax rate (9.3%).....						\$ 9,150
Subtotal:.....						\$ 107,500
Contingency (20%).....						\$ 21,500
Total Estimated Construction Cost:.....						\$ 129,000
Engineering and Administrative Costs (25%):.....						\$ 32,000
Total Estimated Project Cost:.....						\$ 161,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-8
Hemlock Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS		\$ 12,000	\$ 12,000
2	Temporary Erosion and Sediment Control	1	LS		\$ 2,000	\$ 2,000
3	Trench Safety Systems	1	LS		\$ 800	\$ 800
4	Locate Existing Utilities	1	LS		\$ 2,000	\$ 2,000
5	8-inch DI Water Pipe, Including Fittings	800	LF		\$ 55	\$ 44,000
6	Additional Pipe Fittings	400	LB		\$ 3	\$ 1,200
7	8-inch Gate Valves	3	EA		\$ 1,000	\$ 3,000
8	Fire Hydrants	2	EA		\$ 4,000	\$ 8,000
9	Gravel Backfill	390	CY		\$ 20	\$ 7,800
10	HMA Cl. B PG 58-22	60	TN		\$ 150	\$ 9,000
11	Sawcutting	1,600	LF		\$ 3	\$ 4,800
12	Crushed Surfacing, Top Course	50	TN		\$ 20	\$ 1,000
13	Cold Mix Asphalt	40	TN		\$ 120	\$ 4,800
14	3/4" Service Connections, Complete	20	EA		\$ 1,200	\$ 24,000
15	Connections to Existing System	1	EA		\$ 3,000	\$ 3,000
16	Traffic Control	44	HRS		\$ 35	\$ 1,540
Subtotal.....						\$ 128,940
Tax rate (9.3%).....						\$ 11,991
Subtotal:.....						\$ 140,900
Contingency (20%).....						\$ 28,180
Total Estimated Construction Cost:.....						\$ 169,000
Engineering and Administrative Costs (25%):.....						\$ 42,000
Total Estimated Project Cost:.....						\$ 211,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-9
Porter Way

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	9,000	\$ 9,000
2	Temporary Erosion and Sediment Control	1	LS	\$	2,000	\$ 2,000
3	Trench Safety Systems	1	LS	\$	600	\$ 600
4	Locate Existing Utilities	1	LS	\$	2,000	\$ 2,000
5	8-inch DI Water Pipe, Including Fittings	610	LF	\$	55	\$ 33,550
6	Additional Pipe Fittings	300	LB	\$	3	\$ 900
7	8-inch Gate Valves	3	EA	\$	1,000	\$ 3,000
8	Fire Hydrants	2	EA	\$	4,000	\$ 8,000
9	Gravel Backfill	300	CY	\$	20	\$ 6,000
10	HMA Cl. B PG 58-22	50	TN	\$	150	\$ 7,500
11	Sawcutting	1,220	LF	\$	3	\$ 3,660
12	Crushed Surfacing, Top Course	40	TN	\$	20	\$ 800
13	Cold Mix Asphalt	30	TN	\$	120	\$ 3,600
14	3/4" Service Connections, Complete	11	EA	\$	1,200	\$ 13,200
15	Connections to Existing System	1	EA	\$	3,000	\$ 3,000
16	Traffic Control	32	HRS	\$	35	\$ 1,120
Subtotal.....						\$ 97,930
Tax rate (9.3%).....						\$ 9,107
Subtotal:.....						\$ 107,000
Contingency (20%).....						\$ 21,400
Total Estimated Construction Cost:.....						\$ 128,000
Engineering and Administrative Costs (25%):.....						\$ 32,000
Total Estimated Project Cost:.....						\$ 160,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-10
Service Connection 15th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	1,000	\$ 1,000
2	Temporary Erosion and Sediment Control	1	LS	\$	-	\$ -
3	Trench Safety Systems	1	LS	\$	100	\$ 100
4	Locate Existing Utilities	1	LS	\$	-	\$ -
5	8-inch DI Water Pipe, Including Fittings	50	LF	\$	55	\$ 2,750
6	Additional Pipe Fittings	20	LB	\$	3	\$ 60
7	8-inch Gate Valves	1	EA	\$	1,000	\$ 1,000
8	Gravel Backfill	20	CY	\$	20	\$ 400
9	HMA Cl. B PG 58-22	4	TN	\$	150	\$ 600
10	Sawcutting	100	LF	\$	3	\$ 300
11	Crushed Surfacing, Top Course	3	TN	\$	20	\$ 60
12	Cold Mix Asphalt	2	TN	\$	120	\$ 240
13	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
14	Traffic Control	16	HRS	\$	35	\$ 560
Subtotal.....						\$ 13,070
Tax rate (9.3%).....						\$ 1,216
Subtotal:.....						\$ 14,300
Contingency (20%).....						\$ 2,860
Total Estimated Construction Cost:.....						\$ 17,000
Engineering and Administrative Costs (25%):.....						\$ 4,000
Total Estimated Project Cost:.....						\$ 21,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-11
12th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	18,000	\$ 18,000
2	Temporary Erosion and Sediment Control	1	LS	\$	4,000	\$ 4,000
3	Trench Safety Systems	1	LS	\$	1,300	\$ 1,300
4	Locate Existing Utilities	1	LS	\$	4,000	\$ 4,000
5	8-inch DI Water Pipe, Including Fittings	1,300	LF	\$	55	\$ 71,500
6	Additional Pipe Fittings	600	LB	\$	3	\$ 1,800
7	8-inch Gate Valves	5	EA	\$	1,000	\$ 5,000
8	Fire Hydrants	3	EA	\$	4,000	\$ 12,000
9	Gravel Backfill	640	CY	\$	20	\$ 12,800
10	HMA Cl. B PG 58-22	100	TN	\$	150	\$ 15,000
11	Sawcutting	2,600	LF	\$	3	\$ 7,800
12	Crushed Surfacing, Top Course	80	TN	\$	20	\$ 1,600
13	Cold Mix Asphalt	60	TN	\$	120	\$ 7,200
14	3/4" Service Connections, Complete	27	EA	\$	1,200	\$ 32,400
15	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
16	Traffic Control	68	HRS	\$	35	\$ 2,380
Subtotal.....						\$ 202,780
Tax rate (9.3%).....						\$ 18,859
Subtotal:.....						\$ 221,600
Contingency (20%).....						\$ 44,320
Total Estimated Construction Cost:.....						\$ 266,000
Engineering and Administrative Costs (25%):.....						\$ 67,000
Total Estimated Project Cost:.....						\$ 333,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-12
13th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	18,000	\$ 18,000
2	Temporary Erosion and Sediment Control	1	LS	\$	4,000	\$ 4,000
3	Trench Safety Systems	1	LS	\$	1,300	\$ 1,300
4	Locate Existing Utilities	1	LS	\$	4,000	\$ 4,000
5	8-inch DI Water Pipe, Including Fittings	1,300	LF	\$	55	\$ 71,500
6	Additional Pipe Fittings	600	LB	\$	3	\$ 1,800
7	8-inch Gate Valves	5	EA	\$	1,000	\$ 5,000
8	Fire Hydrants	3	EA	\$	4,000	\$ 12,000
9	Gravel Backfill	640	CY	\$	20	\$ 12,800
10	HMA Cl. B PG 58-22	100	TN	\$	150	\$ 15,000
11	Sawcutting	2,600	LF	\$	3	\$ 7,800
12	Crushed Surfacing, Top Course	80	TN	\$	20	\$ 1,600
13	Cold Mix Asphalt	60	TN	\$	120	\$ 7,200
14	3/4" Service Connections, Complete	27	EA	\$	1,200	\$ 32,400
15	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
16	Traffic Control	68	HRS	\$	35	\$ 2,380
Subtotal.....						\$ 202,780
Tax rate (9.3%).....						\$ 18,859
Subtotal:.....						\$ 221,600
Contingency (20%).....						\$ 44,320
Total Estimated Construction Cost:.....						\$ 266,000
Engineering and Administrative Costs (25%):.....						\$ 67,000
Total Estimated Project Cost:.....						\$ 333,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-13
19th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	16,000	\$ 16,000
2	Temporary Erosion and Sediment Control	1	LS	\$	3,000	\$ 3,000
3	Trench Safety Systems	1	LS	\$	1,300	\$ 1,300
4	Locate Existing Utilities	1	LS	\$	3,000	\$ 3,000
5	8-inch DI Water Pipe, Including Fittings	1,300	LF	\$	55	\$ 71,500
6	Additional Pipe Fittings	600	LB	\$	3	\$ 1,800
7	8-inch Gate Valves	5	EA	\$	1,000	\$ 5,000
8	Fire Hydrants	3	EA	\$	4,000	\$ 12,000
9	Gravel Backfill	640	CY	\$	20	\$ 12,800
10	HMA Cl. B PG 58-22	100	TN	\$	150	\$ 15,000
11	Sawcutting	2,600	LF	\$	3	\$ 7,800
12	Crushed Surfacing, Top Course	80	TN	\$	20	\$ 1,600
13	Cold Mix Asphalt	60	TN	\$	120	\$ 7,200
14	3/4" Service Connections, Complete	11	EA	\$	1,200	\$ 13,200
15	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
16	Traffic Control	68	HRS	\$	35	\$ 2,380
Subtotal.....						\$ 179,580
Tax rate (9.3%).....						\$ 16,701
Subtotal:.....						\$ 196,300
Contingency (20%).....						\$ 39,260
Total Estimated Construction Cost:.....						\$ 236,000
Engineering and Administrative Costs (25%):.....						\$ 59,000
Total Estimated Project Cost:.....						\$ 295,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-14
15th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	19,000	\$ 19,000
2	Temporary Erosion and Sediment Control	1	LS	\$	4,000	\$ 4,000
3	Trench Safety Systems	1	LS	\$	1,300	\$ 1,300
4	Locate Existing Utilities	1	LS	\$	4,000	\$ 4,000
5	8-inch DI Water Pipe, Including Fittings	1,340	LF	\$	55	\$ 73,700
6	Additional Pipe Fittings	600	LB	\$	3	\$ 1,800
7	8-inch Gate Valves	5	EA	\$	1,000	\$ 5,000
8	Fire Hydrants	3	EA	\$	4,000	\$ 12,000
9	Gravel Backfill	660	CY	\$	20	\$ 13,200
10	HMA Cl. B PG 58-22	110	TN	\$	150	\$ 16,500
11	Sawcutting	2,680	LF	\$	3	\$ 8,040
12	Crushed Surfacing, Top Course	80	TN	\$	20	\$ 1,600
13	Cold Mix Asphalt	60	TN	\$	120	\$ 7,200
14	3/4" Service Connections, Complete	23	EA	\$	1,200	\$ 27,600
15	Connections to Existing System	3	EA	\$	3,000	\$ 9,000
16	Traffic Control	72	HRS	\$	35	\$ 2,520
Subtotal.....						\$ 206,460
Tax rate (9.3%).....						\$ 19,201
Subtotal:.....						\$ 225,700
Contingency (20%).....						\$ 45,140
Total Estimated Construction Cost:.....						\$ 271,000
Engineering and Administrative Costs (25%):.....						\$ 68,000
Total Estimated Project Cost:.....						\$ 339,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-15
Yuma Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS		\$ 20,000	\$ 20,000
2	Temporary Erosion and Sediment Control	1	LS		\$ 4,000	\$ 4,000
3	Trench Safety Systems	1	LS		\$ 1,500	\$ 1,500
4	Locate Existing Utilities	1	LS		\$ 4,000	\$ 4,000
5	8-inch DI Water Pipe, Including Fittings	1,450	LF		\$ 55	\$ 79,750
6	Additional Pipe Fittings	700	LB		\$ 3	\$ 2,100
7	8-inch Gate Valves	5	EA		\$ 1,000	\$ 5,000
8	Fire Hydrants	3	EA		\$ 4,000	\$ 12,000
9	Gravel Backfill	710	CY		\$ 20	\$ 14,200
10	HMA Cl. B PG 58-22	120	TN		\$ 150	\$ 18,000
11	Sawcutting	2,900	LF		\$ 3	\$ 8,700
12	Crushed Surfacing, Top Course	90	TN		\$ 20	\$ 1,800
13	Cold Mix Asphalt	70	TN		\$ 120	\$ 8,400
14	3/4" Service Connections, Complete	17	EA		\$ 1,200	\$ 20,400
15	Connections to Existing System	5	EA		\$ 3,000	\$ 15,000
16	Traffic Control	76	HRS		\$ 35	\$ 2,660
Subtotal.....						\$ 217,510
Tax rate (9.3%).....						\$ 20,228
Subtotal:.....						\$ 237,700
Contingency (20%).....						\$ 47,540
Total Estimated Construction Cost:.....						\$ 285,000
Engineering and Administrative Costs (25%):.....						\$ 71,000
Total Estimated Project Cost:.....						\$ 356,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-16
13th Avenue south of Emerald Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS		\$ 7,000	\$ 7,000
2	Temporary Erosion and Sediment Control	1	LS		\$ 1,000	\$ 1,000
3	Trench Safety Systems	1	LS		\$ 500	\$ 500
4	Locate Existing Utilities	1	LS		\$ 1,000	\$ 1,000
5	8-inch DI Water Pipe, Including Fittings	530	LF		\$ 55	\$ 29,150
6	Additional Pipe Fittings	200	LB		\$ 3	\$ 600
7	8-inch Gate Valves	2	EA		\$ 1,000	\$ 2,000
8	Fire Hydrants	1	EA		\$ 4,000	\$ 4,000
9	Gravel Backfill	260	CY		\$ 20	\$ 5,200
10	HMA Cl. B PG 58-22	40	TN		\$ 150	\$ 6,000
11	Sawcutting	1,060	LF		\$ 3	\$ 3,180
12	Crushed Surfacing, Top Course	30	TN		\$ 20	\$ 600
13	Cold Mix Asphalt	20	TN		\$ 120	\$ 2,400
14	3/4" Service Connections, Complete	11	EA		\$ 1,200	\$ 13,200
15	Connections to Existing System	1	EA		\$ 3,000	\$ 3,000
16	Traffic Control	28	HRS		\$ 35	\$ 980
Subtotal.....						\$ 79,810
Tax rate (9.3%).....						\$ 7,422
Subtotal:.....						\$ 87,200
Contingency (20%).....						\$ 17,440
Total Estimated Construction Cost:.....						\$ 105,000
Engineering and Administrative Costs (25%):.....						\$ 26,000
Total Estimated Project Cost:.....						\$ 131,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-17
Xavier Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	4,000	\$ 4,000
2	Temporary Erosion and Sediment Control	1	LS	\$	1,000	\$ 1,000
3	Trench Safety Systems	1	LS	\$	400	\$ 400
4	Locate Existing Utilities	1	LS	\$	1,000	\$ 1,000
5	8-inch DI Water Pipe, Including Fittings	350	LF	\$	55	\$ 19,250
6	Additional Pipe Fittings	200	LB	\$	3	\$ 600
7	8-inch Gate Valves	2	EA	\$	1,000	\$ 2,000
8	Fire Hydrants	1	EA	\$	4,000	\$ 4,000
9	Gravel Backfill	170	CY	\$	20	\$ 3,400
10	HMA Cl. B PG 58-22	4	TN	\$	150	\$ 600
11	Sawcutting	100	LF	\$	3	\$ 300
12	Crushed Surfacing, Top Course	3	TN	\$	20	\$ 60
13	Cold Mix Asphalt	2	TN	\$	120	\$ 240
14	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
15	Traffic Control	16	HRS	\$	35	\$ 560
Subtotal.....						\$ 43,410
Tax rate (9.3%).....						\$ 4,037
Subtotal:.....						\$ 47,400
Contingency (20%).....						\$ 9,480
Total Estimated Construction Cost:.....						\$ 57,000
Engineering and Administrative Costs (25%):.....						\$ 14,000
Total Estimated Project Cost:.....						\$ 71,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-18
13th Avenue & Comet Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u> <u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$ 6,000	\$ 6,000
2	Temporary Erosion and Sediment Control	1	LS	\$ 2,000	\$ 2,000
3	Trench Safety Systems	1	LS	\$ 600	\$ 600
4	Locate Existing Utilities	1	LS	\$ 2,000	\$ 2,000
5	8-inch DI Water Pipe, Including Fittings	600	LF	\$ 55	\$ 33,000
6	Additional Pipe Fittings	300	LB	\$ 3	\$ 900
7	8-inch Gate Valves	2	EA	\$ 1,000	\$ 2,000
8	Fire Hydrants	1	EA	\$ 4,000	\$ 4,000
9	Gravel Backfill	290	CY	\$ 20	\$ 5,800
10	HMA Cl. B PG 58-22	50	TN	\$ 150	\$ 7,500
11	Sawcutting	1,200	LF	\$ 3	\$ 3,600
12	Crushed Surfacing, Top Course	40	TN	\$ 20	\$ 800
13	Cold Mix Asphalt	30	TN	\$ 120	\$ 3,600
14	3/4" Service Connections, Complete	12	EA	\$ 1,200	\$ 14,400
15	Connections to Existing System	2	EA	\$ 3,000	\$ 6,000
16	Traffic Control	32	HRS	\$ 35	\$ 1,120
Subtotal.....					\$ 93,320
Tax rate (9.3%).....					\$ 8,679
Subtotal:.....					\$ 102,000
Contingency (20%).....					\$ 20,400
Total Estimated Construction Cost:.....					\$ 122,000
Engineering and Administrative Costs (25%):.....					\$ 31,000
Total Estimated Project Cost:.....					\$ 153,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-19
Diamond Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	5,000	\$ 5,000
2	Temporary Erosion and Sediment Control	1	LS	\$	1,000	\$ 1,000
3	Trench Safety Systems	1	LS	\$	300	\$ 300
4	Locate Existing Utilities	1	LS	\$	1,000	\$ 1,000
5	8-inch DI Water Pipe, Including Fittings	330	LF	\$	55	\$ 18,150
6	Additional Pipe Fittings	100	LB	\$	3	\$ 300
7	8-inch Gate Valves	2	EA	\$	1,000	\$ 2,000
8	Fire Hydrants	1	EA	\$	4,000	\$ 4,000
9	Gravel Backfill	160	CY	\$	20	\$ 3,200
10	HMA Cl. B PG 58-22	30	TN	\$	150	\$ 4,500
11	Sawcutting	660	LF	\$	3	\$ 1,980
12	Crushed Surfacing, Top Course	20	TN	\$	20	\$ 400
13	Cold Mix Asphalt	20	TN	\$	120	\$ 2,400
14	3/4" Service Connections, Complete	5	EA	\$	1,200	\$ 6,000
15	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
16	Traffic Control	16	HRS	\$	35	\$ 560
Subtotal.....						\$ 56,790
Tax rate (9.3%).....						\$ 5,281
Subtotal:.....						\$ 62,100
Contingency (20%).....						\$ 12,420
Total Estimated Construction Cost:.....						\$ 75,000
Engineering and Administrative Costs (25%):.....						\$ 19,000
Total Estimated Project Cost:.....						\$ 94,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-20
22nd Avenue Ct to Alder Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u> <u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$ 4,000	\$ 4,000
2	Temporary Erosion and Sediment Control	1	LS	\$ 1,000	\$ 1,000
3	Trench Safety Systems	1	LS	\$ 400	\$ 400
4	Locate Existing Utilities	1	LS	\$ 1,000	\$ 1,000
5	8-inch DI Water Pipe, Including Fittings	360	LF	\$ 55	\$ 19,800
6	Additional Pipe Fittings	200	LB	\$ 3	\$ 600
7	8-inch Gate Valves	2	EA	\$ 1,000	\$ 2,000
8	Fire Hydrants	1	EA	\$ 4,000	\$ 4,000
9	Gravel Backfill	180	CY	\$ 20	\$ 3,600
10	Crushed Surfacing, Top Course	20	TN	\$ 20	\$ 400
11	Surface Restoration	1	LS	\$ 2,000	\$ 2,000
12	Connections to Existing System	2	EA	\$ 3,000	\$ 6,000
13	Traffic Control	8	HRS	\$ 35	\$ 280
Subtotal.....					\$ 45,080
Tax rate (9.3%).....					\$ 4,192
Subtotal:.....					\$ 49,300
Contingency (20%).....					\$ 9,860
Total Estimated Construction Cost:.....					\$ 59,000
Engineering and Administrative Costs (25%):.....					\$ 15,000
Total Estimated Project Cost:.....					\$ 74,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-21
Milton Way & 13th Avenue

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	14,000	\$ 14,000
2	Temporary Erosion and Sediment Control	1	LS	\$	3,000	\$ 3,000
3	Trench Safety Systems	1	LS	\$	1,200	\$ 1,200
4	Locate Existing Utilities	1	LS	\$	3,000	\$ 3,000
5	8-inch DI Water Pipe, Including Fittings	1,150	LF	\$	55	\$ 63,250
6	Additional Pipe Fittings	500	LB	\$	3	\$ 1,500
7	8-inch Gate Valves	4	EA	\$	1,000	\$ 4,000
8	Fire Hydrants	2	EA	\$	4,000	\$ 8,000
9	Gravel Backfill	560	CY	\$	20	\$ 11,200
10	HMA Cl. B PG 58-22	90	TN	\$	150	\$ 13,500
11	Sawcutting	2,300	LF	\$	3	\$ 6,900
12	Crushed Surfacing, Top Course	70	TN	\$	20	\$ 1,400
13	Cold Mix Asphalt	50	TN	\$	120	\$ 6,000
14	3/4" Service Connections, Complete	14	EA	\$	1,200	\$ 16,800
15	Connections to Existing System	1	EA	\$	3,000	\$ 3,000
16	Traffic Control	60	HRS	\$	35	\$ 2,100
Subtotal.....						\$ 158,850
Tax rate (9.3%).....						\$ 14,773
Subtotal:.....						\$ 173,600
Contingency (20%).....						\$ 34,720
Total Estimated Construction Cost:.....						\$ 208,000
Engineering and Administrative Costs (25%):.....						\$ 52,000
Total Estimated Project Cost:.....						\$ 260,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-22
70th Avenue East

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	7,000	\$ 7,000
2	Temporary Erosion and Sediment Control	1	LS	\$	1,000	\$ 1,000
3	Trench Safety Systems	1	LS	\$	500	\$ 500
4	Locate Existing Utilities	1	LS	\$	1,000	\$ 1,000
5	12-inch DI Water Pipe, Including Fittings	500	LF	\$	75	\$ 37,500
6	Additional Pipe Fittings	300	LB	\$	3	\$ 900
7	12-inch Gate Valves	2	EA	\$	1,800	\$ 3,600
8	Fire Hydrants	1	EA	\$	4,000	\$ 4,000
9	Gravel Backfill	290	CY	\$	20	\$ 5,800
10	HMA Cl. B PG 58-22	50	TN	\$	150	\$ 7,500
11	Sawcutting	1,000	LF	\$	3	\$ 3,000
12	Crushed Surfacing, Top Course	30	TN	\$	20	\$ 600
13	Cold Mix Asphalt	20	TN	\$	120	\$ 2,400
14	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
15	Traffic Control	28	HRS	\$	35	\$ 980
Subtotal.....						\$ 81,780
Tax rate (9.3%).....						\$ 7,606
Subtotal:.....						\$ 89,400
Contingency (20%).....						\$ 17,880
Total Estimated Construction Cost:.....						\$ 107,000
Engineering and Administrative Costs (25%):.....						\$ 27,000
Total Estimated Project Cost:.....						\$ 134,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-23
Comet Street

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	9,000	\$ 9,000
2	Temporary Erosion and Sediment Control	1	LS	\$	2,000	\$ 2,000
3	Trench Safety Systems	1	LS	\$	700	\$ 700
4	Locate Existing Utilities	1	LS	\$	2,000	\$ 2,000
5	8-inch DI Water Pipe, Including Fittings	680	LF	\$	55	\$ 37,400
6	Additional Pipe Fittings	300	LB	\$	3	\$ 900
7	8-inch Gate Valves	3	EA	\$	1,000	\$ 3,000
8	Fire Hydrants	2	EA	\$	4,000	\$ 8,000
9	Gravel Backfill	330	CY	\$	20	\$ 6,600
10	HMA Cl. B PG 58-22	50	TN	\$	150	\$ 7,500
11	Sawcutting	1,360	LF	\$	3	\$ 4,080
12	Crushed Surfacing, Top Course	40	TN	\$	20	\$ 800
13	Cold Mix Asphalt	30	TN	\$	120	\$ 3,600
14	3/4" Service Connections, Complete	10	EA	\$	1,200	\$ 12,000
15	Connections to Existing System	1	EA	\$	3,000	\$ 3,000
16	Traffic Control	36	HRS	\$	35	\$ 1,260
Subtotal.....						\$ 101,840
Tax rate (9.3%).....						\$ 9,471
Subtotal:.....						\$ 111,300
Contingency (20%).....						\$ 22,260
Total Estimated Construction Cost:.....						\$ 134,000
Engineering and Administrative Costs (25%):.....						\$ 34,000
Total Estimated Project Cost:.....						\$ 168,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-24
Millridge Village Apartments

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	2,000	\$ 2,000
2	Temporary Erosion and Sediment Control	1	LS	\$	500	\$ 500
3	Trench Safety Systems	1	LS	\$	100	\$ 100
4	Locate Existing Utilities	1	LS	\$	500	\$ 500
5	12-inch DI Water Pipe, Including Fittings	130	LF	\$	75	\$ 9,750
6	Additional Pipe Fittings	100	LB	\$	3	\$ 300
7	12-inch Gate Valves	1	EA	\$	1,800	\$ 1,800
8	Gravel Backfill	70	CY	\$	20	\$ 1,400
9	HMA Cl. B PG 58-22	10	TN	\$	150	\$ 1,500
10	Sawcutting	260	LF	\$	3	\$ 780
11	Crushed Surfacing, Top Course	10	TN	\$	20	\$ 200
12	Cold Mix Asphalt	10	TN	\$	120	\$ 1,200
13	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
14	Traffic Control	16	HRS	\$	35	\$ 560
Subtotal.....						\$ 26,590
Tax rate (9.3%).....						\$ 2,473
Subtotal:.....						\$ 29,100
Contingency (20%).....						\$ 5,820
Total Estimated Construction Cost:.....						\$ 35,000
Engineering and Administrative Costs (25%):.....						\$ 9,000
Total Estimated Project Cost:.....						\$ 44,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-25
Diamond Loop

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	2,000	\$ 2,000
2	Temporary Erosion and Sediment Control	1	LS	\$	1,000	\$ 1,000
3	Trench Safety Systems	1	LS	\$	200	\$ 200
4	Locate Existing Utilities	1	LS	\$	1,000	\$ 1,000
5	12-inch DI Water Pipe, Including Fittings	150	LF	\$	75	\$ 11,250
6	Additional Pipe Fittings	100	LB	\$	3	\$ 300
7	12-inch Gate Valves	1	EA	\$	1,800	\$ 1,800
8	Gravel Backfill	90	CY	\$	20	\$ 1,800
9	HMA Cl. B PG 58-22	10	TN	\$	150	\$ 1,500
10	Sawcutting	300	LF	\$	3	\$ 900
11	Crushed Surfacing, Top Course	10	TN	\$	20	\$ 200
12	Cold Mix Asphalt	10	TN	\$	120	\$ 1,200
13	Connections to Existing System	2	EA	\$	3,000	\$ 6,000
14	Traffic Control	16	HRS	\$	35	\$ 560
Subtotal.....						\$ 29,710
Tax rate (9.3%).....						\$ 2,763
Subtotal:.....						\$ 32,500
Contingency (20%).....						\$ 6,500
Total Estimated Construction Cost:.....						\$ 39,000
Engineering and Administrative Costs (25%):.....						\$ 10,000
Total Estimated Project Cost:.....						\$ 49,000

City of Milton
Preliminary Project Cost Estimate
Distribution System Improvement D-26
Drive off of Queens Way

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>		<u>UNIT</u>	<u>PRICE</u>	<u>AMOUNT</u>
1	Mobilization, Cleanup, and Demobilization	1	LS	\$	5,000	\$ 5,000
2	Temporary Erosion and Sediment Control	1	LS	\$	1,000	\$ 1,000
3	Trench Safety Systems	1	LS	\$	400	\$ 400
4	Locate Existing Utilities	1	LS	\$	1,000	\$ 1,000
5	12-inch DI Water Pipe, Including Fittings	410	LF	\$	75	\$ 30,750
6	Additional Pipe Fittings	200	LB	\$	3	\$ 600
7	12-inch Gate Valves	2	EA	\$	1,800	\$ 3,600
8	Fire Hydrants	1	EA	\$	4,000	\$ 4,000
9	Gravel Backfill	230	CY	\$	20	\$ 4,600
10	HMA Cl. B PG 58-22	40	TN	\$	150	\$ 6,000
11	Sawcutting	820	LF	\$	3	\$ 2,460
12	Crushed Surfacing, Top Course	30	TN	\$	20	\$ 600
13	Cold Mix Asphalt	20	TN	\$	120	\$ 2,400
14	3/4" Service Connections, Complete	1	EA	\$	1,200	\$ 1,200
15	Connections to Existing System	1	EA	\$	3,000	\$ 3,000
16	Traffic Control	20	HRS	\$	35	\$ 700
Subtotal.....						\$ 67,310
Tax rate (9.3%).....						\$ 6,260
Subtotal:.....						\$ 73,600
Contingency (20%).....						\$ 14,720
Total Estimated Construction Cost:.....						\$ 88,000
Engineering and Administrative Costs (25%):.....						\$ 22,000
Total Estimated Project Cost:.....						\$ 110,000