

REF. ITEM		ENGINEER'S ESTIMATE				1. H.M. Miller Construction		2. Kenmore Construction Co.		3. Fabrizi Trucking & Paving		
NO.	NO.	DESCRIPTION	QTY.	UNIT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
ROADWAY												
1	201	CLEARING AND GRUBBING	1	L.S.	\$35,000.00	\$35,000.00	\$71,000.00	\$71,000.00	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00
2	202	PIPE ABANDONED	200	L.F.	\$6.00	\$1,200.00	\$15.00	\$3,000.00	\$5.00	\$1,000.00	\$15.00	\$3,000.00
3	202	PAVEMENT REMOVED	17273	S.Y.	\$14.50	\$250,458.50	\$1.00	\$17,273.00	\$25.00	\$431,825.00	\$9.50	\$164,093.50
4	202	SIDEWALK REMOVED	32932	S.F.	\$0.90	\$29,638.80	\$0.50	\$16,466.00	\$1.00	\$32,932.00	\$0.65	\$21,405.80
5	202	CURB REMOVED	6199	L.F.	\$3.50	\$21,696.50	\$1.00	\$6,199.00	\$2.00	\$12,398.00	\$4.50	\$27,895.50
6	202	CURB AND GUTTER REMOVED	293	L.F.	\$5.17	\$1,514.81	\$1.00	\$293.00	\$2.00	\$586.00	\$8.00	\$2,344.00
7	202	MAILBOX REMOVED	4	EACH	\$64.00	\$256.00	\$50.00	\$200.00	\$50.00	\$200.00	\$25.00	\$100.00
8	202	WALL REMOVED	115	L.F.	\$18.00	\$2,070.00	\$15.00	\$1,725.00	\$15.00	\$1,725.00	\$10.00	\$1,150.00
9	202	GUTTER REMOVED	76	L.F.	\$9.00	\$684.00	\$5.00	\$380.00	\$5.00	\$380.00	\$5.00	\$380.00
10	202	FENCE REMOVED	105	L.F.	\$3.00	\$315.00	\$2.50	\$262.50	\$2.00	\$210.00	\$4.00	\$420.00
11	202	REMOVAL MISC.: BOLLARD REMOVED	2	EACH	\$13.00	\$26.00	\$50.00	\$100.00	\$10.00	\$20.00	\$50.00	\$100.00
12	202	REMOVAL MISC.: TRACK REMOVED	50	S.Y.	\$12.00	\$600.00	\$25.00	\$1,250.00	\$20.00	\$1,000.00	\$20.00	\$1,000.00
13	202	MANHOLE REMOVED	14	EACH	\$500.00	\$7,000.00	\$250.00	\$3,500.00	\$200.00	\$2,800.00	\$350.00	\$4,900.00
14	202	CATCH BASIN OR INLET REMOVED	34	EACH	\$285.00	\$9,690.00	\$150.00	\$5,100.00	\$100.00	\$3,400.00	\$250.00	\$8,500.00
15	202	PIPE REMOVED, 12 INCH	1338	L.F.	\$11.50	\$15,387.00	\$8.00	\$10,704.00	\$12.00	\$16,056.00	\$25.00	\$33,450.00
16	202	PIPE REMOVED, 24 INCH	1025	L.F.	\$15.00	\$15,375.00	\$10.00	\$10,250.00	\$10.00	\$10,250.00	\$32.00	\$32,800.00
EXCAVATION NOT INCLUDING EMBANKMENT												
17	203	CONSTRUCTION	9522	C.Y.	\$18.00	\$171,396.00	\$1.00	\$9,522.00	\$12.00	\$114,264.00	\$11.00	\$104,742.00
18	203	EMBANKMENT	1407	C.Y.	\$22.00	\$30,954.00	\$1.00	\$1,407.00	\$8.00	\$11,256.00	\$8.00	\$11,256.00
19	203	SUBGRADE COMPACTION	13019	S.Y.	\$1.40	\$18,226.60	\$6.00	\$78,114.00	\$1.50	\$19,528.50	\$1.00	\$13,019.00
20	203	PROOF ROLLING	10	HR	\$111.35	\$1,113.50	\$250.00	\$2,500.00	\$100.00	\$1,000.00	\$80.00	\$800.00
21	203	AGGREGATE REFILL, TYPE 2	7120	C.Y.	\$40.00	\$284,800.00	\$1.00	\$7,120.00	\$40.00	\$284,800.00	\$32.00	\$227,840.00
22	455	CURB, TYPE 6" X 18"	6100	L.F.	\$18.00	\$109,800.00	\$16.00	\$97,600.00	\$15.00	\$91,500.00	\$13.00	\$79,300.00
23	455	COMBINATION CURB AND GUTTER	172	L.F.	\$22.00	\$3,784.00	\$20.00	\$3,440.00	\$20.00	\$3,440.00	\$28.00	\$4,816.00
24	456	CONCRETE WALK, 6" THICK	23763	S.F.	\$5.00	\$118,815.00	\$5.50	\$130,696.50	\$4.50	\$106,933.50	\$5.15	\$122,379.45
25	456	CONCRETE WALK, 6" THICK (DRIVEWAYS)	531	S.F.	\$6.65	\$3,531.15	\$5.50	\$2,920.50	\$4.50	\$2,389.50	\$5.45	\$2,893.95
26	456	CONCRETE WALK, 8" THICK (DRIVEWAYS)	2216	S.F.	\$8.50	\$18,836.00	\$6.00	\$13,296.00	\$5.20	\$11,523.20	\$6.00	\$13,296.00
27	456	CONCRETE WALK, 6" THICK (FOR CURB RAMPS)	2308	S.F.	\$6.65	\$15,348.20	\$5.50	\$12,694.00	\$4.50	\$10,386.00	\$6.00	\$13,848.00
28	456	CURB RAMPS	20	EACH	\$390.00	\$7,800.00	\$350.00	\$7,000.00	\$350.00	\$7,000.00	\$425.00	\$8,500.00
CONCRETE DRIVEWAY RECONSTRUCTION, 6"												
29	456	THICK	214	S.F.	\$6.00	\$1,284.00	\$5.50	\$1,177.00	\$6.00	\$1,284.00	\$5.45	\$1,166.30
CONCRETE DRIVEWAY RECONSTRUCTION, 8"												
30	456	THICK	358	S.F.	\$8.00	\$2,864.00	\$6.90	\$2,470.20	\$5.50	\$1,969.00	\$6.00	\$2,148.00
31	452	6" PLAIN PORTLAND CEMENT, AS PER PLAN	150	S.Y.	\$8.00	\$1,200.00	\$50.00	\$7,500.00	\$45.00	\$6,750.00	\$46.00	\$6,900.00
32	452	8" PLAIN PORTLAND CEMENT, AS PER PLAN	400	S.Y.	\$12.00	\$4,800.00	\$75.00	\$30,000.00	\$50.00	\$20,000.00	\$50.00	\$20,000.00
33	456	CONCRETE APRON, 8" THICK	3981	S.F.	\$8.00	\$31,848.00	\$6.90	\$27,468.90	\$5.20	\$20,701.20	\$52.00	\$207,012.00
34	607	FENCE, TYPE CL, 60 INCH	60	L.F.	\$25.00	\$1,500.00	\$30.00	\$1,800.00	\$25.00	\$1,500.00	\$30.00	\$1,800.00
35	609	ENGINEERING GEOGRID FOR ROADWAYS	4041	S.Y.	\$6.50	\$26,266.50	\$1.00	\$4,041.00	\$5.25	\$21,215.25	\$6.00	\$24,246.00
36	622	MONUMENT BOX	11	EACH	\$400.00	\$4,400.00	\$500.00	\$5,500.00	\$450.00	\$4,950.00	\$400.00	\$4,400.00
37	SPECIAL	MAILBOX SUPPORT SYSTEM (SINGLE)	4	EACH	\$105.00	\$420.00	\$200.00	\$800.00	\$110.00	\$440.00	\$160.00	\$640.00
38	653	TOPSOIL FURNISHED AND PLACED, 4" THICK	8459	S.Y.	\$4.00	\$33,836.00	\$2.50	\$21,147.50	\$3.00	\$25,377.00	\$3.75	\$31,721.25
39	659	LAWN SEEDING AND MULCHING	8459	S.Y.	\$2.25	\$19,032.75	\$2.00	\$16,918.00	\$1.00	\$8,459.00	\$1.20	\$10,150.80
40	660	SODDING	90	S.Y.	\$8.50	\$765.00	\$10.00	\$900.00	\$25.00	\$2,250.00	\$25.00	\$2,250.00
41	663	TREE PLANTING IN LAWN AREA	50	EACH	\$300.00	\$15,000.00	\$300.00	\$15,000.00	\$345.00	\$17,250.00	\$435.00	\$21,750.00

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NO.	NO.	DESCRIPTION	QTY.	UNIT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
PAVEMENT												
42	301	BITUMINOUS AGGREGATE BASE, 6" THICK	1938	C.Y.	\$120.00	\$232,560.00	\$102.00	\$197,676.00	\$96.00	\$186,048.00	\$126.00	\$244,188.00
43	301	BITUMINOUS AGGREGATE BASE, 4.75" THICK (DRIVEWAYS)	4	C.Y.	\$250.00	\$1,000.00	\$300.00	\$1,200.00	\$300.00	\$1,200.00	\$400.00	\$1,600.00
44	301	BITUMINOUS AGGREGATE BASE, 3.5" THICK (DRIVEWAYS)	2	C.Y.	\$250.00	\$500.00	\$350.00	\$700.00	\$300.00	\$600.00	\$400.00	\$800.00
45	304	AGGREGATE BASE (LIMESTONE)	2151	C.Y.	\$50.00	\$107,550.00	\$35.00	\$75,285.00	\$35.00	\$75,285.00	\$37.00	\$79,587.00
46	407	TACK COAT (0.10 GAL/S.Y.)	1228	GAL	\$2.25	\$2,763.00	\$2.00	\$2,456.00	\$2.00	\$2,456.00	\$2.25	\$2,763.00
47	407	TACK COAT FOR INTERMEDIATE COURSE (0.04 GAL/S.Y.)	465	GAL	\$2.25	\$1,046.25	\$2.00	\$930.00	\$2.00	\$930.00	\$2.25	\$1,046.25
48	407	TACK COAT FOR DRIVEWAYS (0.04 GAL/S.Y.)	17	GAL	\$3.00	\$51.00	\$2.00	\$34.00	\$2.00	\$34.00	\$3.00	\$51.00
49	446	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, MEDIUM, PG64-22, 1 1/4" THICK	403	C.Y.	\$165.00	\$66,495.00	\$150.00	\$60,450.00	\$140.00	\$56,420.00	\$162.00	\$65,286.00
50	448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, MEDIUM, PG64-22, 1 1/4" THICK (DRIVEWAYS)	2	C.Y.	\$300.00	\$600.00	\$500.00	\$1,000.00	\$450.00	\$900.00	\$400.00	\$800.00
51	446	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, MEDIUM, PG64-22, 3" THICK	969	C.Y.	\$135.00	\$130,815.00	\$120.00	\$116,280.00	\$110.00	\$106,590.00	\$138.00	\$133,722.00
MODULAR BLOCK RETAINING WALL												
52	611	MODULAR BLOCK RETAINING WALL	1040	S.F.	\$65.00	\$67,600.00	\$38.00	\$39,520.00	\$28.00	\$29,120.00	\$33.00	\$34,320.00
53	503	COFFERDAMS, CRIBS AND SHEETING	1	L.S.	\$20,000.00	\$20,000.00	\$1.00	\$1.00	\$5,000.00	\$5,000.00	\$2,500.00	\$2,500.00
WATER WORK												
54	250	6" WATER MAIN REPLACEMENT (CONTINGENCY QTY)	200	L.F.	\$55.00	\$11,000.00	\$115.00	\$23,000.00	\$80.00	\$16,000.00	\$79.00	\$15,800.00
55	254	6" DUCTILE IRON PIPE	40	L.F.	\$55.00	\$2,200.00	\$100.00	\$4,000.00	\$95.00	\$3,800.00	\$95.00	\$3,800.00
56	254	8" DUCTILE IRON PIPE	42	L.F.	\$60.00	\$2,520.00	\$160.00	\$6,720.00	\$145.00	\$6,090.00	\$165.00	\$6,930.00
57	254	12" DUCTILE IRON PIPE	20	L.F.	\$60.00	\$1,200.00	\$200.00	\$4,000.00	\$200.00	\$4,000.00	\$195.00	\$3,900.00
58	258	6" GATE VALVE	2	EA	\$700.00	\$1,400.00	\$750.00	\$1,500.00	\$700.00	\$1,400.00	\$1,250.00	\$2,500.00
59	258	12" GATE VALVE	1	EA	\$1,800.00	\$1,800.00	\$2,000.00	\$2,000.00	\$2,300.00	\$2,300.00	\$2,450.00	\$2,450.00
60	259	6" X 6" CUT-IN-TEE	1	EA	\$400.00	\$400.00	\$1,000.00	\$1,000.00	\$500.00	\$500.00	\$1,950.00	\$1,950.00
61	259	6" 45 DEGREE BEND	2	EA	\$250.00	\$500.00	\$170.00	\$340.00	\$200.00	\$400.00	\$250.00	\$500.00
62	259	8" 45 DEGREE BEND	4	EA	\$350.00	\$1,400.00	\$230.00	\$920.00	\$300.00	\$1,200.00	\$350.00	\$1,400.00
63	259	12" 90 DEGREE BEND	1	EA	\$350.00	\$350.00	\$510.00	\$510.00	\$650.00	\$650.00	\$950.00	\$950.00
64	259	12" X 8" REDUCER	1	EA	\$245.00	\$245.00	\$180.00	\$180.00	\$350.00	\$350.00	\$450.00	\$450.00
65	259	12" X 12" TEE	1	EA	\$450.00	\$450.00	\$655.00	\$655.00	\$850.00	\$850.00	\$1,250.00	\$1,250.00
66	259	30" X 12" TAPPING SLEEVE WITH 12" VALVE AND VALVE BOX	1	E	\$8,000.00	\$8,000.00	\$7,500.00	\$7,500.00	\$6,000.00	\$6,000.00	\$12,500.00	\$12,500.00
67	260	FIRE HYDRANT	1	EA	\$3,300.00	\$3,300.00	\$2,000.00	\$2,000.00	\$2,200.00	\$2,200.00	\$3,580.00	\$3,580.00
68	263	TYING INTO 6" MAIN	3	EA	\$300.00	\$900.00	\$500.00	\$1,500.00	\$500.00	\$1,500.00	\$550.00	\$1,650.00
69	263	TYING INTO 8" MAIN	1	EA	\$320.00	\$320.00	\$600.00	\$600.00	\$500.00	\$500.00	\$750.00	\$750.00
70	263	TYING INTO 30" MAIN	1	EA	\$500.00	\$500.00	\$2,000.00	\$2,000.00	\$1,500.00	\$1,500.00	\$1,250.00	\$1,250.00
71	265	WATER MAIN VALVE BOXES ADJUSTED	33	EA	\$75.00	\$2,475.00	\$100.00	\$3,300.00	\$70.00	\$2,310.00	\$125.00	\$4,125.00
DRAINAGE												
72	552	4" STORM SEWER, TYPE A, CLASS B BEDDING	440	L.F.	\$10.00	\$4,400.00	\$3.00	\$1,320.00	\$12.00	\$5,280.00	\$22.00	\$9,680.00

BID TAB FOR: Massillon Road Improvements Pid 84399

FILE NO. 2008-047-00

BID DATE: September 7, 2011

CODE: ED0701.VF0811

REF. NO.	ITEM NO.	DESCRIPTION	QTY.	UNIT	ENGINEER'S ESTIMATE		1. H.M. Miller Construction		2. Kenmore Construction Co.		3. Fabrizi Trucking & Paving	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
73	552	10" STORM SEWER, TYPE A, CLASS "B" BEDDING	36	L.F.	\$45.00	\$1,620.00	\$32.00	\$1,152.00	\$40.00	\$1,440.00	\$65.00	\$2,340.00
74	552	12" STORM SEWER, TYPE A, CLASS "B" BEDDING	59	L.F.	\$50.00	\$2,950.00	\$45.00	\$2,655.00	\$57.00	\$3,363.00	\$79.00	\$4,661.00
75	552	15" STORM SEWER, TYPE A, CLASS "B" BEDDING	68	L.F.	\$55.00	\$3,740.00	\$50.00	\$3,400.00	\$58.00	\$3,944.00	\$86.00	\$5,848.00
76	552	18" STORM SEWER, TYPE A, CLASS "B" BEDDING	305	L.F.	\$60.00	\$18,300.00	\$222.00	\$67,710.00	\$75.00	\$22,875.00	\$96.00	\$29,280.00
77	552	24" STORM SEWER, TYPE A, CLASS "B" BEDDING	945	L.F.	\$90.00	\$85,050.00	\$95.00	\$89,775.00	\$77.00	\$72,765.00	\$99.00	\$93,555.00
78	552	30" STORM SEWER, TYPE A, CLASS "B" BEDDING	15	L.F.	\$165.00	\$2,475.00	\$1,045.00	\$15,675.00	\$125.00	\$1,875.00	\$106.00	\$1,590.00
79	552	36" STORM SEWER, TYPE A, CLASS "B" BEDDING	20	L.F.	\$225.00	\$4,500.00	\$1,473.00	\$29,460.00	\$135.00	\$2,700.00	\$121.00	\$2,420.00
80	553	12" INLET CONNECTION, TYPE A, CLASS "B" BEDDING	650	L.F.	\$50.00	\$32,500.00	\$58.00	\$37,700.00	\$57.00	\$37,050.00	\$76.00	\$49,400.00
81	553	12" INLET CONNECTION, TYPE A, 715.02, CLASS "B" BEDDING	67	L.F.	\$100.00	\$6,700.00	\$58.00	\$3,886.00	\$90.00	\$6,030.00	\$106.00	\$7,102.00
82	553	15" INLET CONNECTION, TYPE A, CLASS "B" BEDDING	163	L.F.	\$60.00	\$9,780.00	\$65.00	\$10,595.00	\$65.00	\$10,595.00	\$79.00	\$12,877.00
83	553	15" INLET CONNECTION, TYPE A, 715.02, CLASS "B" BEDDING	20	L.F.	\$115.00	\$2,300.00	\$65.00	\$1,300.00	\$105.00	\$2,100.00	\$75.00	\$1,500.00
84	556	HOUSE DRAIN PIPE, COMPLETE	110	EACH	\$30.00	\$3,300.00	\$130.00	\$14,300.00	\$1.00	\$110.00	\$950.00	\$104,500.00
85	556	HOUSE DRAIN A	200	L.F.	\$5.00	\$1,000.00	\$3.00	\$600.00	\$0.01	\$2.00	\$25.00	\$5,000.00
86	556	HOUSE DRAIN B	200	L.F.	\$5.00	\$1,000.00	\$10.00	\$2,000.00	\$0.01	\$2.00	\$45.00	\$9,000.00
87	562	MANHOLE NO. 2A ON 15" STORM SEWER, WITH SLAB TOP	2	EACH	\$2,750.00	\$5,500.00	\$1,615.00	\$3,230.00	\$2,000.00	\$4,000.00	\$2,500.00	\$5,000.00
88	562	MANHOLE NO. 2A ON 18" STORM SEWER, WITH SLAB TOP	6	EACH	\$2,750.00	\$16,500.00	\$2,260.00	\$13,560.00	\$2,300.00	\$13,800.00	\$2,700.00	\$16,200.00
89	562	MANHOLE NO. 2B ON 24" STORM SEWER, WITH SLAB TOP	7	EACH	\$3,300.00	\$23,100.00	\$3,000.00	\$21,000.00	\$2,700.00	\$18,900.00	\$3,300.00	\$23,100.00
90	562	MANHOLE NO. 2C ON 30" STORM SEWER, WITH SLAB TOP	2	EACH	\$3,900.00	\$7,800.00	\$3,850.00	\$7,700.00	\$3,500.00	\$7,000.00	\$3,600.00	\$7,200.00
91	562	MANHOLE NO. 2C ON 36" STORM SEWER, WITH SLAB TOP	2	EACH	\$3,900.00	\$7,800.00	\$5,165.00	\$10,330.00	\$4,000.00	\$8,000.00	\$4,100.00	\$8,200.00
92	562	BRICK MANHOLE ADJUSTED, AS PER PLAN	11	EACH	\$500.00	\$5,500.00	\$765.00	\$8,415.00	\$525.00	\$5,775.00	\$275.00	\$3,025.00
93	562	PRECAST MANHOLE ADJUSTED, AS PER PLAN	6	EACH	\$1,000.00	\$6,000.00	\$765.00	\$4,590.00	\$700.00	\$4,200.00	\$275.00	\$1,650.00
94	562	BRICK MANHOLE REBUILT	7	L.F.	\$1,650.00	\$11,550.00	\$500.00	\$3,500.00	\$350.00	\$2,450.00	\$675.00	\$4,725.00
95	563	NO. 5 INLET	23	EACH	\$1,650.00	\$37,950.00	\$1,575.00	\$36,225.00	\$1,400.00	\$32,200.00	\$1,750.00	\$40,250.00
96	563	DOUBLE NO. 5 INLET	7	EACH	\$2,000.00	\$14,000.00	\$2,170.00	\$15,190.00	\$1,700.00	\$11,900.00	\$2,100.00	\$14,700.00
97	563	NO. 5 INLET, MODIFIED	3	EACH	\$1,650.00	\$4,950.00	\$1,575.00	\$4,725.00	\$1,400.00	\$4,200.00	\$1,600.00	\$4,800.00
98	563	DOUBLE NO. 5 INLET, MODIFIED	1	EACH	\$2,000.00	\$2,000.00	\$2,170.00	\$2,170.00	\$2,000.00	\$2,000.00	\$1,900.00	\$1,900.00
99	563	TYPE D INLET	2	EACH	\$1,500.00	\$3,000.00	\$365.00	\$730.00	\$1,000.00	\$2,000.00	\$850.00	\$1,700.00

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NO.	NO.	DESCRIPTION	QTY.	UNIT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
100	564	4" PIPE UNDERDRAINS	5832	L.F.	\$5.80	\$33,825.60	\$4.50	\$26,244.00	\$5.00	\$29,160.00	\$7.75	\$45,198.00
101	566	TRENCH DRAINS	20	L.F.	\$100.00	\$2,000.00	\$310.00	\$6,200.00	\$110.00	\$2,200.00	\$125.00	\$2,500.00
102	602	CONCRETE MASONRY	8	C.Y.	\$1,250.00	\$10,000.00	\$250.00	\$2,000.00	\$450.00	\$3,600.00	\$350.00	\$2,800.00
SANITARY SEWER												
103	557	8 INCH SANITARY SEWER, TYPE C, BEDDING PER 551.05	782	L.F.	\$100.00	\$78,200.00	\$92.00	\$71,944.00	\$115.00	\$89,930.00	\$89.00	\$69,598.00
104	559	6 INCH PIPE RECONNECTIONS, 707.20, CLASS NR BEDDING	300	L.F.	\$25.00	\$7,500.00	\$72.00	\$21,600.00	\$20.00	\$6,000.00	\$45.00	\$13,500.00
105	559	6 INCH PIPE BENDS, 707.20, CLASS NR BEDDING	20	EACH	\$30.00	\$600.00	\$35.00	\$700.00	\$20.00	\$400.00	\$150.00	\$3,000.00
106	SPECIAL	48 INCH CONDUIT IN MICROTUNNEL	1121	L.F.	\$1,500.00	\$1,681,500.00	\$1,411.00	\$1,581,731.00	\$1,300.00	\$1,457,300.00	\$1,573.00	\$1,763,333.00
107	557	36 INCH SANITARY SEWER, TYPE C, CLASS B BEDDING	40	L.F.	\$600.00	\$24,000.00	\$500.00	\$20,000.00	\$1,000.00	\$40,000.00	\$1,375.00	\$55,000.00
108	557	57 INCH SANITARY SEWER, TYPE C, CLASS B BEDDING	5	L.F.	\$1,200.00	\$6,000.00	\$1,030.00	\$5,150.00	\$1,500.00	\$7,500.00	\$1,782.00	\$8,910.00
109	562	SANITARY MANHOLE 2A ON 8 INCH SEWER	1	EACH	\$5,000.00	\$5,000.00	\$3,050.00	\$3,050.00	\$55,000.00	\$55,000.00	\$4,500.00	\$4,500.00
110	562	SANITARY MANHOLE 2C ON 36 INCH SEWER	3	EACH	\$12,000.00	\$36,000.00	\$5,500.00	\$16,500.00	\$20,000.00	\$60,000.00	\$26,400.00	\$79,200.00
111	SPECIAL	SANITARY MANHOLE D ON 48 INCH SEWER WITH DROP	1	EACH	\$25,000.00	\$25,000.00	\$20,000.00	\$20,000.00	\$40,000.00	\$40,000.00	\$62,700.00	\$62,700.00
112	SPECIAL	SANITARY MANHOLE E ON 48 INCH SEWER	1	EACH	\$20,000.00	\$20,000.00	\$12,200.00	\$12,200.00	\$22,000.00	\$22,000.00	\$31,900.00	\$31,900.00
113	SPECIAL	SANITARY MANHOLE F ON 57 INCH SEWER WITH DROP	1	EACH	\$35,000.00	\$35,000.00	\$34,000.00	\$34,000.00	\$32,000.00	\$32,000.00	\$44,000.00	\$44,000.00
114	SPECIAL	CONTROL OF WATER	1	L.S.	\$150,000.00	\$150,000.00	\$86,000.00	\$86,000.00	\$50,000.00	\$50,000.00	\$10,000.00	\$10,000.00
115	SPECIAL	SHAFTS	3	EACH	\$200,000.00	\$600,000.00	\$202,550.00	\$607,650.00	\$175,000.00	\$525,000.00	\$286,000.00	\$858,000.00
MAINTENANCE OF TRAFFIC												
116	ODOT 410	TRAFFIC COMPACTED SURFACE, TYPE B	700	C.Y.	\$40.00	\$28,000.00	\$1.00	\$700.00	\$10.00	\$7,000.00	\$35.00	\$24,500.00
117	613	UNIFORMED LAW ENFORCEMENT OFFICER	80	HOUR	\$50.00	\$4,000.00	\$50.00	\$4,000.00	\$50.00	\$4,000.00	\$50.00	\$4,000.00
118	613	UNIFORMED LAW ENFORCEMENT OFFICER	160	HOUR	\$75.00	\$12,000.00	\$75.00	\$12,000.00	\$75.00	\$12,000.00	\$75.00	\$12,000.00
119	614	MAINTENANCE OF TRAFFIC	1	L.S.	\$25,000.00	\$25,000.00	\$56,000.00	\$56,000.00	\$90,000.00	\$90,000.00	\$19,000.00	\$19,000.00
120	616	CALCIUM CHLORIDE	10	TON	\$125.00	\$1,250.00	\$50.00	\$500.00	\$100.00	\$1,000.00	\$250.00	\$2,500.00
121	616	WATER	100	MGAL	\$8.00	\$800.00	\$35.00	\$3,500.00	\$10.00	\$1,000.00	\$10.00	\$1,000.00
SIGNING AND PAVEMENT MARKING												
122	ODOT 645	CENTER LINE, DOUBLE SOLID, TYPE 3A	3832	L.F.	\$0.55	\$2,107.60	\$2.00	\$7,664.00	\$4.50	\$17,244.00	\$5.50	\$21,076.00
123	ODOT 645	CHANNELIZING LINE, TYPE 3A	1096	L.F.	\$1.25	\$1,370.00	\$2.00	\$2,192.00	\$4.00	\$4,384.00	\$5.00	\$5,480.00
124	ODOT 645	STOP LINE, TYPE 3A	221	L.F.	\$5.50	\$1,215.50	\$6.00	\$1,326.00	\$14.00	\$3,094.00	\$18.00	\$3,978.00
125	ODOT 645	CROSSWALK LINE, TYPE 3A	556	L.F.	\$2.75	\$1,529.00	\$4.00	\$2,224.00	\$8.00	\$4,448.00	\$9.00	\$5,004.00
126	ODOT 645	BROAD TRANSVERSE LINE, TYPE 3A	805	L.F.	\$4.50	\$3,622.50	\$6.00	\$4,830.00	\$15.00	\$12,075.00	\$20.00	\$16,100.00
127	ODOT 645	LANE ARROW, TYPE 3A	16	EACH	\$200.00	\$3,200.00	\$150.00	\$2,400.00	\$300.00	\$4,800.00	\$385.00	\$6,160.00
128	629	STREET NAME SIGN	5	EACH	\$200.00	\$1,000.00	\$125.00	\$625.00	\$100.00	\$500.00	\$125.00	\$625.00
129	629	STREET NAME SIGN ASSEMBLY	2	EACH	\$450.00	\$900.00	\$175.00	\$350.00	\$150.00	\$300.00	\$185.00	\$370.00
130	630	GROUND MOUNTED SUPPORT, NO. 2 POST	175	L.F.	\$7.00	\$1,225.00	\$10.00	\$1,750.00	\$7.00	\$1,225.00	\$8.00	\$1,400.00
131	630	GROUND MOUNTED SUPPORT, NO. 3 POST	140	L.F.	\$7.00	\$980.00	\$10.00	\$1,400.00	\$7.00	\$980.00	\$9.00	\$1,260.00
132	630	SIGN, FLAT SHEET	184	S.F.	\$15.00	\$2,760.00	\$17.00	\$3,128.00	\$16.00	\$2,944.00	\$18.00	\$3,312.00
133	630	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	6	EACH	\$50.00	\$300.00	\$50.00	\$300.00	\$40.00	\$240.00	\$45.00	\$270.00

REF. ITEM		ENGINEER'S ESTIMATE					1. H.M. Miller Construction		2. Kenmore Construction Co.		3. Fabrizi Trucking & Paving	
NO.	NO.	DESCRIPTION	QTY.	UNIT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
134	630	TRAFFIC SIGN REMOVED	32	EACH	\$12.00	\$384.00	\$10.00	\$320.00	\$10.00	\$320.00	\$11.00	\$352.00
		REMOVAL OF GROUND MOUNTED POST										
135	630	SUPPORT	13	EACH	\$14.00	\$182.00	\$10.00	\$130.00	\$10.00	\$130.00	\$11.00	\$143.00
		TRAFFIC CONTROL										
136	625	CONDUIT, 2", 713.07	33	FT	\$13.00	\$429.00	\$2.23	\$73.59	\$2.00	\$66.00	\$3.00	\$99.00
137	625	CONDUIT, 3", 713.07	4922	FT	\$11.00	\$54,142.00	\$3.50	\$17,227.00	\$4.00	\$19,688.00	\$3.85	\$18,949.70
138	625	TRENCH	2433	FT	\$10.00	\$24,330.00	\$11.25	\$27,371.25	\$10.00	\$24,330.00	\$7.00	\$17,031.00
139	625	TRENCH IN PAVED AREA, TYPE B	61	FT	\$27.00	\$1,647.00	\$49.00	\$2,989.00	\$50.00	\$3,050.00	\$50.00	\$3,050.00
140	625	PULL BOX, MISC.: 24" X 36"	13	EACH	\$800.00	\$10,400.00	\$725.00	\$9,425.00	\$700.00	\$9,100.00	\$800.00	\$10,400.00
141	625	PULL BOX, MISC.: 30" X 48" X 24"	1	EACH	\$1,100.00	\$1,100.00	\$1,048.00	\$1,048.00	\$900.00	\$900.00	\$1,150.00	\$1,150.00
142	625	GROUND ROD	6	EACH	\$210.00	\$1,260.00	\$122.00	\$732.00	\$100.00	\$600.00	\$135.00	\$810.00
143	625	PLASTIC CAUTION TAPE	2433	FT	\$0.60	\$1,459.80	\$0.45	\$1,094.85	\$0.25	\$608.25	\$0.50	\$1,216.50
		VEHICULAR SIGNAL HEAD(LED), 3 SECTION, 12"										
144	632	LENS, 1-WAY, POLYCARBONATE	4	EACH	\$800.00	\$3,200.00	\$745.50	\$2,982.00	\$700.00	\$2,800.00	\$830.00	\$3,320.00
		PEDESTRIAN SIGNAL HEAD(LED), TYPE D2										
		(COUNTDOWN)										
145	632	VIDEO DETECTION SYSTEM	4	EACH	\$500.00	\$2,000.00	\$510.00	\$2,040.00	\$500.00	\$2,000.00	\$540.00	\$2,160.00
146	632	VIDEO DETECTION SYSTEM	2	EACH	\$20,000.00	\$40,000.00	\$7,000.00	\$14,000.00	\$6,000.00	\$12,000.00	\$7,500.00	\$15,000.00
147	632	EMERGENCY VEHICLE PREEMPTION	2	EACH	\$11,000.00	\$22,000.00	\$2,240.00	\$4,480.00	\$1,000.00	\$2,000.00	\$2,500.00	\$5,000.00
148	632	PEDESTRIAN PUSHBUTTON, AS PER PLAN	4	EACH	\$150.00	\$600.00	\$153.25	\$613.00	\$150.00	\$600.00	\$170.00	\$680.00
149	632	SIGNAL CABLE, 2 CONDUCTOR, NO 14 AWG	568	FT	\$1.75	\$994.00	\$1.40	\$795.20	\$1.00	\$568.00	\$1.50	\$852.00
150	632	SIGNAL CABLE, 5 CONDUCTOR, NO 14 AWG	953	FT	\$2.25	\$2,144.25	\$1.81	\$1,724.93	\$1.50	\$1,429.50	\$2.00	\$1,906.00
151	632	SIGNAL CABLE, 7 CONDUCTOR, NO 14 AWG	1169	FT	\$2.25	\$2,630.25	\$2.09	\$2,443.21	\$2.00	\$2,338.00	\$2.25	\$2,630.25
152	632	SIGNAL CABLE FOR VIDEO	1094	FT	\$2.75	\$3,008.50	\$1.67	\$1,826.98	\$1.50	\$1,641.00	\$1.85	\$2,023.90
153	632	CABLE FOR PREEMPTION	1094	FT	\$2.25	\$2,461.50	\$1.40	\$1,531.60	\$1.20	\$1,312.80	\$1.50	\$1,641.00
154	632	SIGNAL SUPPORT FOUNDATION	6	EACH	\$3,500.00	\$21,000.00	\$2,450.00	\$14,700.00	\$1,800.00	\$10,800.00	\$2,700.00	\$16,200.00
155	632	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	20	FT	\$4.00	\$80.00	\$4.19	\$83.80	\$5.00	\$100.00	\$4.60	\$92.00
156	632	POWER SERVICE	1	EACH	\$1,600.00	\$1,600.00	\$1,285.00	\$1,285.00	\$500.00	\$500.00	\$1,425.00	\$1,425.00
		SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, 27										
157	632	FT ARM, AS PER PLAN	1	EACH	\$8,500.00	\$8,500.00	\$4,643.00	\$4,643.00	\$5,500.00	\$5,500.00	\$5,100.00	\$5,100.00
		SIGNAL SUPPORT, TYPE TC-81.21, DESIGN 2, 31										
158	632	FT ARM, AS PER PLAN	1	EACH	\$8,500.00	\$8,500.00	\$4,648.00	\$4,648.00	\$5,500.00	\$5,500.00	\$5,200.00	\$5,200.00
		INTERCONNECT MISC.: TRUNK CABLE, SINGLE										
159	632	MODE, 6 FIBER	2200	FT	\$5.00	\$11,000.00	\$1.82	\$4,004.00	\$2.00	\$4,400.00	\$2.00	\$4,400.00
		INTERCONNECT MISC.: FIBER OPTIC										
160	632	CONNECTOR	3	EACH	\$60.00	\$180.00	\$50.25	\$150.75	\$70.00	\$210.00	\$55.00	\$165.00
		INTERCONNECT MISC.: TERMINATION PANEL, 6										
161	632	FIBER	3	EACH	\$350.00	\$1,050.00	\$146.00	\$438.00	\$100.00	\$300.00	\$160.00	\$480.00
		INTERCONNECT MISC.: FIBER OPTIC PATCH										
162	632	CORD, 4 FIBER	3	EACH	\$145.00	\$435.00	\$100.00	\$300.00	\$50.00	\$150.00	\$110.00	\$330.00
163	632	INTERCONNECT MISC.: FAN-OUT KIT, 6 FIBER	3	EACH	\$85.00	\$255.00	\$148.00	\$444.00	\$50.00	\$150.00	\$163.00	\$489.00

REF. ITEM		ENGINEER'S ESTIMATE					1. H.M. Miller Construction		2. Kenmore Construction Co.		3. Fabrizi Trucking & Paving	
NO.	NO.	DESCRIPTION	QTY.	UNIT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
164	632	INTERCONNECT MISC.: FIBER OPTIC CABLE TESTING	1	LUMP	\$4,000.00	\$4,000.00	\$550.00	\$550.00	\$450.00	\$450.00	\$600.00	\$600.00
165	632	INTERCONNECT MISC.: FIBER OPTIC TRAINING PLAN	1	LUMP	\$15,000.00	\$15,000.00	\$16,500.00	\$16,500.00	\$1,000.00	\$1,000.00	\$17,000.00	\$17,000.00
166	633	CABINET FOUNDATION	1	EACH	\$1,750.00	\$1,750.00	\$1,230.00	\$1,230.00	\$900.00	\$900.00	\$1,350.00	\$1,350.00
167	633	CABINET WORKPAD	1	EACH	\$120.00	\$120.00	\$500.00	\$500.00	\$300.00	\$300.00	\$465.00	\$465.00
		STRUCTURE										
168	202	PORTIONS OF STRUCTURE REMOVED	1	L.S.	\$10,000.00	\$10,000.00	\$50,000.00	\$50,000.00	\$15,000.00	\$15,000.00	\$10,000.00	\$10,000.00
169	509	EPOXY COATED REINFORCING STEEL	2287	LBS	\$2.50	\$5,717.50	\$4.00	\$9,148.00	\$1.50	\$3,430.50	\$2.00	\$4,574.00
170	510	DOWEL HOLES	236	EACH	\$20.00	\$4,720.00	\$15.00	\$3,540.00	\$15.00	\$3,540.00	\$25.00	\$5,900.00
171	511	HIGH PERFORMANCE CONCRETE, PARAPET	20	C.Y.	\$600.00	\$12,000.00	\$1,500.00	\$30,000.00	\$850.00	\$17,000.00	\$750.00	\$15,000.00
172	511	ODOT CLASS HP CONCRETE TESTING	1	LUMP	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00
		SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)										
173	512	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	250	S.Y.	\$20.00	\$5,000.00	\$20.00	\$5,000.00	\$15.00	\$3,750.00	\$25.00	\$6,250.00
		RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING)										
174	ODOT 517	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING)	207	L.F.	\$150.00	\$31,050.00	\$110.00	\$22,770.00	\$60.00	\$12,420.00	\$75.00	\$15,525.00
		GENERAL										
175	103.05	CONTRACT PERFORMANCE BOND	1	L.S.	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$35,000.00	\$35,000.00	\$65,000.00	\$65,000.00
		CONSTRUCTION FENCE, TYPE CL (8 FOOT CHAIN LINK FENCE FABRIC WITH TOP RAIL)										
176	607	CONSTRUCTION FENCE, TYPE CL (8 FOOT CHAIN LINK FENCE FABRIC WITH TOP RAIL)	800	L.F.	\$25.00	\$20,000.00	\$2.00	\$1,600.00	\$3.00	\$2,400.00	\$20.00	\$16,000.00
177	618	COMPUTER EQUIPMENT	1	ALLOW	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
178	619	FIELD OFFICE	1	L.S.	\$54,000.00	\$54,000.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00	\$18,000.00	\$18,000.00
179	623	CONSTRUCTION LAYOUT STAKES	1	L.S.	\$55,000.00	\$55,000.00	\$35,000.00	\$35,000.00	\$25,000.00	\$25,000.00	\$12,500.00	\$12,500.00
180	624	MOBILIZATION	1	L.S.	\$200,000.00	\$200,000.00	\$210,000.00	\$210,000.00	\$90,000.00	\$90,000.00	\$85,000.00	\$85,000.00
181	SPECIAL	UTILITY RELOCATION FOR SANITARY SEWER SHA	1	L.S.	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00
182	ODOT 832	EROSION CONTROL	1	EACH	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00
183	ODOT 832	STORMWATER POLLUTION PREVENTION PLAN	1	L.S.	\$75,000.00	\$75,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$7,500.00	\$7,500.00
TOTAL CONSTRUCTION COSTS						\$6,121,952.56	\$5,040,125.26	\$5,225,243.20	\$6,120,648.15			
+/- ENGINEER'S ESTIMATE								-17.7%	-14.6%	-0.0%		