

Engineers Opinion of Probable Construction Cost
143rd Street & LaGrange Road - Roadway Improvements

updated 01/11/11

Bid							F.H. Paschen		Lorig Construction Company		Average		Low Diff From Ave		Bid Review			
SP	Item Number	Description	Quantity	Unit	Unit Price	Cost	Unit Price	Total Price	Unit Price	Total Price	Unit	Price	Unit	Price	%age Diff From Bid Ave	% of total Contract (bid)	% of total Contract (Eng.)	Diff from EOPCC
REMOVALS																		
					Subtotal	\$2,191,634.00		\$ 1,386,004.45		\$ 1,340,465.50								
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	201	UNIT	\$30.00	\$6,030.00	\$ 25.00	\$ 5,025.00	\$ 16.00	\$ 3,216.00	\$ 22.33	\$ 4,489.00	\$ 2.67	\$ 536.00	12%	0.05%	0.05%	-16.7%
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	26	UNIT	\$35.00	\$910.00	\$ 45.00	\$ 1,170.00	\$ 21.00	\$ 546.00	\$ 34.33	\$ 892.67	\$ 10.67	\$ 277.33	31%	0.01%	0.01%	28.6%
	20200100	EARTH EXCAVATION	18,757	CU YD	\$25.00	\$468,925.00	\$ 17.00	\$ 318,869.00	\$ 17.25	\$ 323,558.25	\$ 23.49	\$ 440,633.19	\$ (6.49)	\$ (121,764.19)	-28%	3.14%	3.56%	-32.0%
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	7,206	CU YD	\$30.00	\$216,180.00	\$ 18.00	\$ 129,708.00	\$ 20.00	\$ 144,120.00	\$ 21.00	\$ 151,326.00	\$ (3.00)	\$ (21,618.00)	-14%	1.28%	1.64%	-40.0%
	40600982	HMA SURFACE REMOVAL - BUTT JOINT	223	SQ YD	\$8.00	\$1,784.00	\$ 6.50	\$ 1,449.50	\$ 26.00	\$ 5,798.00	\$ 15.08	\$ 3,363.58	\$ (8.58)	\$ (1,914.08)	-57%	0.01%	0.01%	-18.8%
	44000100	PAVEMENT REMOVAL	39,166	SQ YD	\$12.00	\$469,992.00	\$ 10.00	\$ 391,660.00	\$ 11.00	\$ 430,826.00	\$ 13.33	\$ 522,213.33	\$ (3.33)	\$ (130,553.33)	-25%	3.86%	3.57%	-16.7%
	44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	2,792	SQ YD	\$5.00	\$13,960.00	\$ 6.50	\$ 18,148.00	\$ 4.00	\$ 11,168.00	\$ 3.75	\$ 10,470.00	\$ 2.75	\$ 7,678.00	73%	0.18%	0.11%	30.0%
	44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	1,399	SQ YD	\$5.00	\$6,995.00	\$ 6.50	\$ 9,093.50	\$ 5.00	\$ 6,995.00	\$ 4.58	\$ 6,400.43	\$ 1.93	\$ 2,693.08	42%	0.09%	0.05%	30.0%
	44000200	DRIVEWAY PAVEMENT REMOVAL	3,687	SQ YD	\$12.00	\$44,244.00	\$ 10.00	\$ 36,870.00	\$ 7.00	\$ 25,809.00	\$ 9.83	\$ 36,255.50	\$ 0.17	\$ 614.50	2%	0.36%	0.34%	-16.7%
	44000300	CURB REMOVAL	1,905	FOOT	\$7.00	\$13,335.00	\$ 5.50	\$ 10,477.50	\$ 3.00	\$ 5,715.00	\$ 4.00	\$ 7,620.00	\$ 1.50	\$ 2,857.50	38%	0.10%	0.10%	-21.4%
	44000500	COMBINATION CURB AND GUTTER REMOVAL	16,383	FOOT	\$6.00	\$98,298.00	\$ 5.00	\$ 81,915.00	\$ 2.50	\$ 40,957.50	\$ 4.17	\$ 68,262.50	\$ 0.83	\$ 13,652.50	20%	0.81%	0.75%	-16.7%
	44000600	SIDEWALK REMOVAL	23,060	SQ FT	\$3.00	\$69,180.00	\$ 2.00	\$ 46,120.00	\$ 1.00	\$ 23,060.00	\$ 1.48	\$ 34,013.50	\$ 0.53	\$ 12,106.50	36%	0.45%	0.53%	-33.3%
	44003100	MEDIAN REMOVAL	39,187	SQ FT	\$4.00	\$156,748.00	\$ 2.75	\$ 107,764.25	\$ 1.25	\$ 48,983.75	\$ 1.58	\$ 62,046.08	\$ 1.17	\$ 45,718.17	74%	1.06%	1.19%	-31.3%
	55100500	STORM SEWER REMOVAL 12"	534	FOOT	\$15.00	\$8,010.00	\$ 16.35	\$ 8,730.90	\$ 13.00	\$ 6,942.00	\$ 11.73	\$ 6,261.15	\$ 4.63	\$ 2,469.75	39%	0.09%	0.06%	9.0%
	55100700	STORM SEWER REMOVAL 15"	96	FOOT	\$18.00	\$1,728.00	\$ 24.50	\$ 2,352.00	\$ 14.00	\$ 1,344.00	\$ 14.25	\$ 1,368.00	\$ 10.25	\$ 984.00	72%	0.02%	0.01%	36.1%
	56400100	FIRE HYDRANTS TO BE MOVED	3	EACH	\$2,000.00	\$6,000.00	\$ 2,500.00	\$ 7,500.00	\$ 1,250.00	\$ 3,750.00	\$ 2,283.33	\$ 6,850.00	\$ 216.67	\$ 650.00	9%	0.07%	0.05%	25.0%
	60405740	FRAMES AND GRATES TO BE REMOVED	10	EACH	\$150.00	\$1,500.00	\$ 140.00	\$ 1,400.00	\$ 225.00	\$ 2,250.00	\$ 160.83	\$ 1,608.33	\$ (20.83)	\$ (208.33)	-13%	0.01%	0.01%	-6.7%
	60500040	REMOVING MANHOLES	8	EACH	\$600.00	\$4,800.00	\$ 270.00	\$ 2,160.00	\$ 500.00	\$ 4,000.00	\$ 336.67	\$ 2,693.33	\$ (66.67)	\$ (533.33)	-20%	0.02%	0.04%	-55.0%
	60500050	REMOVING CATCH BASINS	7	EACH	\$600.00	\$4,200.00	\$ 330.00	\$ 2,310.00	\$ 450.00	\$ 3,150.00	\$ 321.67	\$ 2,251.67	\$ 8.33	\$ 58.33	3%	0.02%	0.03%	-45.0%
	60500060	REMOVING INLETS	18	EACH	\$600.00	\$10,800.00	\$ 145.00	\$ 2,610.00	\$ 125.00	\$ 2,250.00	\$ 145.00	\$ 2,610.00	\$ -	\$ -	0%	0.03%	0.08%	-75.8%
	60500105	FILLING MANHOLES	5	EACH	\$200.00	\$1,000.00	\$ 335.00	\$ 1,675.00	\$ 625.00	\$ 3,125.00	\$ 360.00	\$ 1,800.00	\$ (25.00)	\$ (125.00)	-7%	0.02%	0.01%	67.5%
	60500205	FILLING CATCH BASINS	5	EACH	\$300.00	\$1,500.00	\$ 365.00	\$ 1,825.00	\$ 600.00	\$ 3,000.00	\$ 344.17	\$ 1,720.83	\$ 20.83	\$ 104.17	6%	0.02%	0.01%	21.7%
	60500305	FILLING INLETS	19	EACH	\$250.00	\$4,750.00	\$ 310.00	\$ 5,890.00	\$ 225.00	\$ 4,275.00	\$ 180.83	\$ 3,435.83	\$ 129.17	\$ 2,454.17	71%	0.06%	0.04%	24.0%
	63200310	GUARDRAIL REMOVAL	293	FOOT	\$40.00	\$11,720.00	\$ 3.85	\$ 1,128.05	\$ 4.00	\$ 1,172.00	\$ 4.26	\$ 1,247.69	\$ (0.41)	\$ (119.64)	-10%	0.01%	0.09%	-90.4%
	66900205	SPECIAL WASTE DISPOSAL	3,439	CU YD	\$150.00	\$515,850.00	\$ 40.75	\$ 140,139.25	\$ 45.00	\$ 154,755.00	\$ 66.79	\$ 229,696.54	\$ (26.04)	\$ (89,557.29)	-39%	1.38%	3.92%	-72.8%
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	15	EACH	\$50.00	\$750.00	\$ 75.00	\$ 1,125.00	\$ 26.00	\$ 390.00	\$ 64.75	\$ 971.25	\$ 10.25	\$ 153.75	16%	0.01%	0.01%	50.0%
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	2	EACH	\$150.00	\$300.00	\$ 150.00	\$ 300.00	\$ 26.00	\$ 52.00	\$ 88.04	\$ 176.08	\$ 61.96	\$ 123.92	70%	0.00%	0.00%	0.0%
	72400310	REMOVE SIGN PANEL - TYPE 1	14	SQ FT	\$10.00	\$140.00	\$ 10.00	\$ 140.00	\$ 21.00	\$ 294.00	\$ 18.71	\$ 261.92	\$ (8.71)	\$ (121.92)	-47%	0.00%	0.00%	0.0%
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	11	EACH	\$200.00	\$2,200.00	\$ 78.00	\$ 858.00	\$ 115.00	\$ 1,265.00	\$ 85.55	\$ 941.05	\$ (7.55)	\$ (83.05)	-9%	0.01%	0.02%	-61.0%
	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	2	EACH	\$250.00	\$500.00	\$ 109.00	\$ 218.00	\$ 135.00	\$ 270.00	\$ 123.50	\$ 247.00	\$ (14.50)	\$ (29.00)	-12%	0.00%	0.00%	-56.4%
	72400710	RELOCATE SIGN PANEL - TYPE 1	39	SQ FT	\$25.00	\$975.00	\$ 13.00	\$ 507.00	\$ 13.00	\$ 507.00	\$ 36.42	\$ 1,420.25	\$ (23.42)	\$ (913.25)	-64%	0.00%	0.01%	-48.0%
	84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	23	EACH	\$750.00	\$17,250.00	\$ 450.00	\$ 10,350.00	\$ 525.00	\$ 12,075.00	\$ 490.00	\$ 11,270.00	\$ (40.00)	\$ (920.00)	-8%	0.10%	0.13%	-40.0%
	84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	11	EACH	\$400.00	\$4,400.00	\$ 350.00	\$ 3,850.00	\$ 660.00	\$ 7,260.00	\$ 542.83	\$ 5,971.17	\$ (192.83)	\$ (2,121.17)	-36%	0.04%	0.03%	-12.5%
	84200700	LIGHTING FOUNDATION REMOVAL	11	EACH	\$500.00	\$5,500.00	\$ 350.00	\$ 3,850.00	\$ 270.00	\$ 2,970.00	\$ 276.67	\$ 3,043.33	\$ 73.33	\$ 806.67	27%	0.04%	0.04%	-30.0%
	84400105	RELOCATE EXISTING LIGHTING UNIT	7	EACH	\$7													

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SP	Item Number	Description	Quantity	Unit	Unit Price	Cost	Unit Price	Total Price	Unit Price	Total Price	Unit	Price	Unit	Price	%age Diff From Bid Ave	% of total Contract (bid)	% of total Contract (Eng.)	Diff from EOPCC
	60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	2,044	FOOT	\$20.00	\$40,880.00	\$ 12.70	\$ 25,958.80	\$ 19.00	\$ 38,836.00	\$ 16.97	\$ 34,679.87	\$ (4.27)	\$ (8,721.07)	-25%	0.26%	0.31%	-36.5%
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	2,651	FOOT	\$25.00	\$66,275.00	\$ 14.25	\$ 37,776.75	\$ 20.00	\$ 53,020.00	\$ 16.17	\$ 42,857.83	\$ (1.92)	\$ (5,081.08)	-12%	0.37%	0.50%	-43.0%
	60604310	COMBINATION CONCRETE CURB AND GUTTER, TYPE SB-6.12	0	FOOT	\$25.00	\$0.00					#DIV/0!	\$ -	#DIV/0!	\$ -	#DIV/0!	0.00%	0.00%	-100.0%
	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	2,314	FOOT	\$30.00	\$69,420.00	\$ 17.75	\$ 41,073.50	\$ 21.00	\$ 48,594.00	\$ 19.35	\$ 44,775.90	\$ (1.60)	\$ (3,702.40)	-8%	0.40%	0.53%	-40.8%
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	9,151	FOOT	\$35.00	\$320,285.00	\$ 18.95	\$ 173,411.45	\$ 20.00	\$ 183,020.00	\$ 21.75	\$ 199,034.25	\$ (2.80)	\$ (25,622.80)	-13%	1.71%	2.43%	-45.9%
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	4,862	SQ FT	\$6.00	\$29,172.00	\$ 3.10	\$ 15,072.20	\$ 4.25	\$ 20,663.50	\$ 4.81	\$ 23,378.12	\$ (1.71)	\$ (8,305.92)	-36%	0.15%	0.22%	-48.3%
	60619200	CONCRETE MEDIAN, TYPE SB-6.06	65	SQ FT	\$20.00	\$1,300.00	\$ 38.45	\$ 2,499.25	\$ 17.00	\$ 1,105.00	\$ 23.08	\$ 1,499.88	\$ 15.38	\$ 999.38	67%	0.02%	0.01%	92.3%
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	310	SQ FT	\$30.00	\$9,300.00	\$ 19.47	\$ 6,035.70	\$ 11.00	\$ 3,410.00	\$ 18.08	\$ 5,604.28	\$ 1.39	\$ 431.42	8%	0.06%	0.07%	-35.1%
	60619910	CONCRETE MEDIAN, TYPE SB-6.18	208	SQ FT	\$40.00	\$8,320.00	\$ 25.55	\$ 5,314.40	\$ 13.00	\$ 2,704.00	\$ 19.09	\$ 3,971.07	\$ 6.46	\$ 1,343.33	34%	0.05%	0.06%	-36.1%
	72000100	SIGN PANEL - TYPE 1	285	SQ FT	\$30.00	\$8,550.00	\$ 15.00	\$ 4,275.00	\$ 18.00	\$ 5,130.00	\$ 16.63	\$ 4,738.13	\$ (1.63)	\$ (463.13)	-10%	0.04%	0.06%	-50.0%
	72000200	SIGN PANEL - TYPE 2	29	SQ FT	\$32.00	\$928.00	\$ 25.00	\$725.00	\$ 39.00	\$ 1,131.00	\$ 28.67	\$ 831.33	\$ (3.67)	\$ (106.33)	-13%	0.01%	0.01%	-21.9%
	72900110	METAL POST - TYPE A	24	EACH	\$100.00	\$2,400.00	\$ 100.00	\$ 2,400.00	\$ 95.00	\$ 2,280.00	\$ 110.17	\$ 2,644.00	\$ (10.17)	\$ (244.00)	-9%	0.02%	0.02%	0.0%
	72900210	METAL POST - TYPE B	4	EACH	\$125.00	\$500.00	\$ 130.00	\$ 520.00	\$ 105.00	\$ 420.00	\$ 135.00	\$ 540.00	\$ (5.00)	\$ (20.00)	-4%	0.01%	0.00%	4.0%
*	SP-23	PREFORMED PLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS INLAID	1,898	SQ FT	\$6.00	\$11,388.00	\$ 23.76	\$ 45,096.48	\$ 24.00	\$ 45,552.00	\$ 23.04	\$ 43,736.25	\$ 0.72	\$ 1,360.23	3%	0.44%	0.09%	296.0%
*	SP-23	PREFORMED PLASTIC PAVEMENT MARKING LINE - INLAID, 4"	8,950	LF	\$2.50	\$22,375.00	\$ 2.96	\$ 26,492.00	\$ 3.00	\$ 26,850.00	\$ 4.86	\$ 43,497.00	\$ (1.90)	\$ (17,005.00)	-39%	0.26%	0.17%	18.4%
*	SP-23	PREFORMED PLASTIC PAVEMENT MARKING LINE - INLAID, 6"	8,055	LF	\$4.00	\$32,220.00	\$ 4.47	\$ 36,005.85	\$ 4.50	\$ 36,247.50	\$ 6.90	\$ 55,539.23	\$ (2.43)	\$ (19,533.38)	-35%	0.35%	0.24%	11.8%
*	SP-23	PREFORMED PLASTIC PAVEMENT MARKING LINE - INLAID, 12"	397	LF	\$6.00	\$2,382.00	\$ 8.94	\$ 3,549.18	\$ 9.00	\$ 3,573.00	\$ 13.37	\$ 5,309.21	\$ (4.43)	\$ (1,760.03)	-33%	0.03%	0.02%	49.0%
*	SP-23	PREFORMED PLASTIC PAVEMENT MARKING LINE - INLAID, 24"	842	LF	\$10.00	\$8,420.00	\$ 17.88	\$ 15,054.96	\$ 18.00	\$ 15,156.00	\$ 24.62	\$ 20,731.44	\$ (6.74)	\$ (5,676.48)	-27%	0.15%	0.06%	78.8%
	70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	41	SQ FT	\$3.00	\$123.00	\$ 5.50	\$ 225.50	\$ 8.00	\$ 328.00	\$ 7.58	\$ 310.92	\$ (2.08)	\$ (85.42)	-27%	0.00%	0.00%	83.3%
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	1,327	FOOT	\$1.00	\$1,327.00	\$ 1.85	\$ 2,454.95	\$ 1.00	\$ 1,327.00	\$ 1.23	\$ 1,636.63	\$ 0.62	\$ 818.32	50%	0.02%	0.01%	85.0%
	70300540	PAVEMENT MARKING TAPE, TYPE III 6"	139	FOOT	\$1.50	\$208.50	\$ 4.00	\$ 556.00	\$ 1.50	\$ 208.50	\$ 2.13	\$ 295.38	\$ 1.88	\$ 260.63	88%	0.01%	0.00%	166.7%
	70300550	PAVEMENT MARKING TAPE, TYPE III 8"	836	FOOT	\$2.00	\$1,672.00	\$ 3.70	\$ 3,093.20	\$ 2.00	\$ 1,672.00	\$ 2.88	\$ 2,410.47	\$ 0.82	\$ 682.73	28%	0.03%	0.01%	85.0%
	70300560	PAVEMENT MARKING TAPE, TYPE III 12"	666	FOOT	\$3.00	\$1,998.00	\$ 5.55	\$ 3,696.30	\$ 3.00	\$ 1,998.00	\$ 4.76	\$ 3,169.05	\$ 0.79	\$ 527.25	17%	0.04%	0.02%	85.0%
	70300570	PAVEMENT MARKING TAPE, TYPE III 24"	15	FOOT	\$6.00	\$90.00	\$ 11.10	\$ 166.50	\$ 6.00	\$ 90.00	\$ 10.35	\$ 155.25	\$ 0.75	\$ 11.25	7%	0.00%	0.00%	85.0%
	78100100	RAISED REFLECTIVE PAVEMENT MARKER	613	EACH	\$12.00	\$7,356.00	\$ 23.00	\$ 14,099.00	\$ 23.50	\$ 14,405.50	\$ 27.08	\$ 16,602.08	\$ (4.08)	\$ (2,503.08)	-15%	0.14%	0.06%	91.7%
	Z0001050	AGGREGATE SUBGRADE, 12"	47,982	SQ YD	\$12.00	\$575,784.00	\$ 7.00	\$ 335,874.00	\$ 8.50	\$ 407,847.00	\$ 11.00	\$ 527,802.00	\$ (4.00)	\$ (191,928.00)	-36%	3.31%	4.37%	-41.7%
*		CONCRETE STAIRS	54	SQ FT	\$100.00	\$5,400.00	\$ 127.50	\$ 6,885.00	\$ 160.00	\$ 8,640.00	\$ 117.92	\$ 6,367.50	\$ 9.58	\$ 517.50	8%	0.07%	0.04%	27.5%
*		HANDRAIL	20	FOOT	\$75.00	\$1,500.00	\$ 87.45	\$ 1,749.00	\$ 88.00	\$ 1,760.00	\$ 107.15	\$ 2,143.00	\$ (19.70)	\$ (394.00)	-18%	0.02%	0.01%	16.6%
LIGHTING						Subtotal	\$1,298,471.10		\$ 1,026,021.69		\$ 1,067,044.60					10.11%	9.86%	
*	SP-ELEC	ROADWAY LIGHTING UNIT, 47.5 FT. MOUNTING HEIGHT, 12 FT. MAST ARM 400 WATT METAL HALIDE LUMINAIRE (COMPLETE)	48	EACH	\$5,500.00	\$264,000.00	\$ 3,736.25	\$ 179,340.00	\$ 4,225.00	\$ 202,800.00	\$ 4,265.21	\$ 204,730.00	\$ (528.96)	\$ (25,390.00)	-12%	1.77%	2.00%	-32.1%
*	SP-ELEC	ROADWAY LIGHTING UNIT, 30 FT. MOUNTING HEIGHT, 12 FT. MAST ARM 250 WATT METAL HALIDE LUMINAIRE (COMPLETE)	1	EACH	\$3,500.00	\$3,500.00	\$ 3,058.25	\$ 3,058.25	\$ 3,300.00	\$ 3,300.00	\$ 3,419.71	\$ 3,419.71	\$ (361.46)	\$ (361.46)	-11%	0.03%	0.03%	-12.6%
*	SP-ELEC	PEDESTRIAN LIGHTING UNIT COMPLETE(COMPLETE)	42	EACH	\$3,900.00	\$163,800.00	\$ 6,855.45	\$ 287,928.90	\$ 4,600.00	\$ 193,200.00	\$ 5,200.91	\$ 218,438.15	\$ 1,654.54	\$ 69,490.75	32%	2.84%	1.24%	75.8%
*	SP-ELEC	ILLUMINATED BOLLARD	36	EACH	\$1,850.00	\$66,600.00	\$ 2,120.03	\$ 76,321.08	\$ 1,800.00	\$ 64,800.00	\$ 1,957.51	\$ 70,470.18	\$ 162.53	\$ 5,850.90	8%	0.75%	0.51%	14.6%
*	SP-ELEC	GROUND ROD	137	EACH	\$150.00	\$20,550.00	\$ 88.70	\$ 12,151.90	\$ 80.00	\$ 10,960.00	\$ 92.28	\$ 12,642.82	\$ (3.58)	\$ (490.92)	-4%	0.12%	0.16%	-40.9%
*	SP-ELEC	ROADWAY LIGHTING CABINET	1	EACH	\$15,000.00	\$15,000.00	\$ 14,898.91	\$ 14,898.91	\$ 10,000.00	\$ 10,000.00	\$ 10,549.82	\$ 10,549.82	\$ 4,349.09	\$ 4,349.09	41%	0.15%	0.11%	-0.7%
*	SP-ELEC	HOLIDAY LIGHTING CABINET	3	EACH	\$20,000.00	\$60,000.00	\$ 15,571.91	\$ 46,715.73	\$ 9,800.00	\$ 29,400.00	\$ 10,582.82	\$ 31,748.46	\$ 4,989.09	\$ 14,967.28	47%	0.46%	0.46%	-22.1%
*	SP-ELEC	ROADWAY LIGHTING ELECTRICAL SERVICE	4	EACH	\$3,500.00	\$14,000.00	\$ 380.87	\$ 1,523.48	\$ 4,000.00	\$ 16,000.00	\$ 3,230.15	\$ 12,920.58	\$ (2,849.28)	\$ (11,397.10)	-88%	0.02%	0.11%	-89.1%
*	SP-ELEC	ILLUMINATED STREET NAME SIGN	12	EACH	\$3,000.00	\$36,000.00	\$ 2,470.20	\$ 29,642.40	\$ 3,500.00	\$ 42,000.00	\$ 3,403.37	\$ 40,840.40	\$ (933.17)	\$ (11,198.00)	-27%	0.29%	0.27%	-17.7%
*	SP-ELEC	FLOODLIGHT COMPLETE	3	EACH	\$250.00	\$750.00	\$ 355.60	\$ 1,066.80	\$ 950.00	\$ 2,850.00	\$ 946.77	\$ 2,840.30	\$ (591.17)	\$ (1,773.50)	-62%	0.01%	0.01%	42.2%
*	SP-ELEC	HOLIDAY LIGHTING OUTLET	177	EACH	\$150.00	\$26,550.00	\$ 296.51	\$ 52,482.27	\$ 200.00	\$ 35,400.00	\$ 212.75	\$ 37,657.05	\$ 83.76	\$ 14,825.23	39%	0.52%	0.20%	97.7%
	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	1,092	FOOT	\$26.00	\$28,392.00	\$ 19.02	\$ 20,769.84	\$ 33.00	\$ 36,036.00	\$ 31.00	\$ 33,855.64	\$ (11.98)	\$ (13,085.80)	-39%	0.20%	0.22%	-26.8%
	81001200	CONDUIT IN TRENCH, 6" DIA., GALVANIZED STEEL	673	FOOT	\$35.00	\$23,555.00	\$ 46.85	\$ 31,530.05	\$ 66.00	\$ 44,418.00	\$ 63.64	\$ 42,830.84	\$ (16.79)	\$ (11,300.79)	-26%	0.31%	0.18%	33.9%
	81017505	CONDUIT IN TRENCH, 3/4" DIA., COILABLE NONMETALLIC CONDUIT	5,182	FOOT	\$3.00	\$15,546.00	\$ 2.97	\$ 15,390.54	\$ 5.00	\$ 25,910.00	\$ 5.37	\$ 27,827.34	\$ (2.40)	\$ (12,436.80)	-45%	0.15%	0.12%	-1.0%
	81017520	CONDUIT IN TRENCH, 1-1/2" DIA., COILABLE NONMETALLIC	3,183	FOOT	\$3.00	\$9,549.00	\$ 3.10	\$ 9,867.30	\$ 5.60	\$ 17,824.80	\$ 5.97	\$ 18,991.90	\$ (2.87)	\$ (9,124.60)	-48%	0.10%	0.07%	3.3%
	81017525	CONDUIT IN TRENCH, 2" DIA., COILABLE NONMETALLIC CONDUIT	8,453	FOOT	\$4.00	\$33,812.00	\$ 3.75	\$ 31,698.75	\$ 6.20	\$ 52,408.60	\$ 6.53	\$ 55,226.27	\$ (2.78)	\$ (23,527.52)	-43%	0.31%	0.26%	-6.3%
	81017530	CONDUIT IN TRENCH, 2-1/2" DIA., COILABLE NONMETALLIC	2,839	FOOT	\$6.00	\$17,034.00	\$ 4.13	\$ 11,725.07	\$ 6.50	\$ 18,453.50	\$ 6.98	\$ 19,816.22	\$ (2.85)	\$ (8,091.15)	-41%	0.12%	0.13%	-31.2%
	81017535	CONDUIT IN TRENCH, 3" DIA., COILABLE NONMETALLIC CONDUIT	893	FOOT	\$6.00	\$5,358.00	\$ 5.00	\$ 4,465.00	\$ 8.00	\$ 7,144.00	\$ 8.25	\$ 7,367.25	\$ (3.25)	\$ (2,902.25)	-39%	0.04%	0.04%	-16.7%
	SP-ELEC	JUNCTION BOX	48	EACH	\$350.00	\$16,800.00	\$ 642.46	\$ 30,838.08	\$ 600.00	\$ 28,800.00	\$ 594.58	\$ 28,539.68	\$ 47.88	\$ 2,298.40	8%	0.30%	0.13%	83.6%
	81702150	ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	55,416	FOOT	\$5.00	\$277,080.00	\$ 1.60	\$ 88,665.60	\$ 2.10	\$ 116,373.60	\$ 2.13	\$ 117,759.00	\$ (0.53)	\$ (29,093.40)	-25%	0.87%	2.10%	-68.0%
	81702130	ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	60,857	FOOT	\$2.70	\$164,313.90	\$ 0.90	\$ 54,771.30	\$ 1.10	\$ 66,942.70	\$ 1.16	\$ 70,492.69	\$ (0.26)	\$ (15,721.39)	-22%	0.54%	1.25%	-66.7%

Engineers Opinion of Probable Construction Cost
143rd Street & LaGrange Road - Roadway Improvements

updated 01/11/11

Bid							F.H. Paschen		Lorig Construction Company		Average		Low Diff From Ave		Bid Review			
SP	Item Number	Description	Quantity	Unit	Unit Price	Cost	Unit Price	Total Price	Unit Price	Total Price	Unit	Price	Unit	Price	%age Diff From Bid Ave	% of total Contract (bid)	% of total Contract (Eng.)	Diff from EOPCC
	81702110	ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	30,026	FOOT	\$1.20	\$36,031.20	\$ 0.64	\$ 19,216.64	\$ 0.90	\$ 27,023.40	\$ 0.90	\$ 26,973.36	\$ (0.26)	\$ (7,756.72)	-29%	0.19%	0.27%	-46.7%
*	SP-ELEC	RELOCATE SIGN PANEL ASSEMBLY, SPECIAL	1	EACH	\$250.00	\$250.00	\$ 1,953.80	\$ 1,953.80	\$ 15,000.00	\$ 15,000.00	\$ 6,859.80	\$ 6,859.80	\$ (4,906.00)	\$ (4,906.00)	-72%	0.02%	0.00%	681.5%
EROSION CONTROL						Subtotal	\$39,551.00		\$ 13,354.75		\$ 13,354.75					0.13%	0.30%	#VALUE!
	28000510	INLET FILTERS	106	EACH	\$200.00	\$21,200.00	\$ 25.00	\$ 2,650.00	\$ 25.00	\$ 2,650.00	\$ 90.67	\$ 9,610.67	\$ (65.67)	\$ (6,960.67)	-72%	0.03%	0.16%	-87.5%
	28000400	PERIMETER EROSION BARRIER	6,117	FOOT	\$3.00	\$18,351.00	\$ 1.75	\$ 10,704.75	\$ 1.75	\$ 10,704.75	\$ 1.93	\$ 11,775.23	\$ (0.18)	\$ (1,070.48)	-9%	0.11%	0.14%	-41.7%
STORM SEWER						Subtotal	\$585,089.00		\$ 498,844.40		\$ 463,605.00					4.91%	4.44%	#VALUE!
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	36	EACH	\$1,000.00	\$36,000.00	\$ 1,000.00	\$ 36,000.00	\$ 755.00	\$ 27,180.00	\$ 1,010.00	\$ 36,360.00	\$ (10.00)	\$ (360.00)	-1%	0.35%	0.27%	0.0%
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	2	EACH	\$1,000.00	\$2,000.00	\$ 985.00	\$ 1,970.00	\$ 650.00	\$ 1,300.00	\$ 947.50	\$ 1,895.00	\$ 37.50	\$ 75.00	4%	0.02%	0.02%	-1.5%
	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	5	EACH	\$1,000.00	\$5,000.00	\$ 1,050.00	\$ 5,250.00	\$ 800.00	\$ 4,000.00	\$ 1,008.33	\$ 5,041.67	\$ 41.67	\$ 208.33	4%	0.05%	0.04%	5.0%
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	18	EACH	\$2,500.00	\$45,000.00	\$ 1,825.00	\$ 32,850.00	\$ 1,425.00	\$ 25,650.00	\$ 1,795.83	\$ 32,325.00	\$ 29.17	\$ 525.00	2%	0.32%	0.34%	-27.0%
	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	11	EACH	\$2,500.00	\$27,500.00	\$ 1,800.00	\$ 19,800.00	\$ 1,675.00	\$ 18,425.00	\$ 1,883.33	\$ 20,716.67	\$ (83.33)	\$ (916.67)	-4%	0.20%	0.21%	-28.0%
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	1	EACH	\$2,500.00	\$2,500.00	\$ 1,680.00	\$ 1,680.00	\$ 1,425.00	\$ 1,425.00	\$ 1,763.33	\$ 1,763.33	\$ (83.33)	\$ (83.33)	-5%	0.02%	0.02%	-32.8%
	60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	8	EACH	\$2,500.00	\$20,000.00	\$ 1,700.00	\$ 13,600.00	\$ 1,425.00	\$ 11,400.00	\$ 1,766.67	\$ 14,133.33	\$ (66.67)	\$ (533.33)	-4%	0.13%	0.15%	-32.0%
	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	2	EACH	\$3,500.00	\$7,000.00	\$ 2,965.00	\$ 5,930.00	\$ 2,500.00	\$ 5,000.00	\$ 2,735.83	\$ 5,471.67	\$ 229.17	\$ 458.33	8%	0.06%	0.05%	-15.3%
	60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	2	EACH	\$2,000.00	\$4,000.00	\$ 1,750.00	\$ 3,500.00	\$ 1,700.00	\$ 3,400.00	\$ 1,983.33	\$ 3,966.67	\$ (233.33)	\$ (466.67)	-12%	0.03%	0.03%	-12.5%
	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	2	EACH	\$2,000.00	\$4,000.00	\$ 1,785.00	\$ 3,570.00	\$ 1,900.00	\$ 3,800.00	\$ 2,068.33	\$ 4,136.67	\$ (283.33)	\$ (566.67)	-14%	0.04%	0.03%	-10.8%
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	5	EACH	\$2,000.00	\$10,000.00	\$ 1,675.00	\$ 8,375.00	\$ 1,850.00	\$ 9,250.00	\$ 2,004.17	\$ 10,020.83	\$ (329.17)	\$ (1,645.83)	-16%	0.08%	0.08%	-16.3%
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	4	EACH	\$3,000.00	\$12,000.00	\$ 2,465.00	\$ 9,860.00	\$ 2,500.00	\$ 10,000.00	\$ 2,627.50	\$ 10,510.00	\$ (162.50)	\$ (650.00)	-6%	0.10%	0.09%	-17.8%
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	1	EACH	\$3,500.00	\$3,500.00	\$ 3,775.00	\$ 3,775.00	\$ 3,100.00	\$ 3,100.00	\$ 3,662.50	\$ 3,662.50	\$ 112.50	\$ 112.50	3%	0.04%	0.03%	7.9%
*		CATCH BASIN, 6'-DIAMETER, CONTROL STRUCTURE	1	EACH	\$5,000.00	\$5,000.00	\$ 5,795.00	\$ 5,795.00	\$ 4,900.00	\$ 4,900.00	\$ 6,565.83	\$ 6,565.83	\$ (770.83)	\$ (770.83)	-12%	0.06%	0.04%	15.9%
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	2,748	FOOT	\$48.00	\$131,904.00	\$ 44.60	\$ 122,560.80	\$ 38.00	\$ 104,424.00	\$ 44.10	\$ 121,186.80	\$ 0.50	\$ 1,374.00	1%	1.21%	1.00%	-7.1%
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	206	FOOT	\$55.00	\$11,330.00	\$ 51.85	\$ 10,681.10	\$ 38.00	\$ 7,828.00	\$ 47.48	\$ 9,779.85	\$ 4.38	\$ 901.25	9%	0.11%	0.09%	-5.7%
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	10	FOOT	\$60.00	\$600.00	\$ 45.60	\$ 456.00	\$ 55.00	\$ 550.00	\$ 54.27	\$ 542.67	\$ (8.67)	\$ (86.67)	-16%	0.00%	0.00%	-24.0%
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	23	FOOT	\$65.00	\$1,495.00	\$ 68.00	\$ 1,564.00	\$ 110.00	\$ 2,530.00	\$ 81.67	\$ 1,878.33	\$ (13.67)	\$ (314.33)	-17%	0.02%	0.01%	4.6%
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	789	FOOT	\$70.00	\$55,230.00	\$ 103.90	\$ 81,977.10	\$ 82.00	\$ 64,698.00	\$ 90.15	\$ 71,128.35	\$ 13.75	\$ 10,848.75	15%	0.81%	0.42%	48.4%
	20800150	TRENCH BACKFILL	2,138	CU YDS	\$35.00	\$74,830.00	\$ 23.30	\$ 49,815.40	\$ 30.00	\$ 64,140.00	\$ 33.88	\$ 72,442.57	\$ (10.58)	\$ (22,627.17)	-31%	0.49%	0.57%	-33.4%
	60255500	MANHOLES TO BE ADJUSTED (INCLUDES STORM, SANITARY & ELEC)	16	EACH	\$1,000.00	\$16,000.00	\$ 585.00	\$ 9,360.00	\$ 750.00	\$ 12,000.00	\$ 572.50	\$ 9,160.00	\$ 12.50	\$ 200.00	2%	0.09%	0.12%	-41.5%
	60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	48	EACH	\$1,000.00	\$48,000.00	\$ 645.00	\$ 30,960.00	\$ 725.00	\$ 34,800.00	\$ 645.00	\$ 30,960.00	\$ -	\$ -	0%	0.30%	0.36%	-35.5%
	60256940	MANHOLES TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	4	EACH	\$1,000.00	\$4,000.00	\$ 670.00	\$ 2,680.00	\$ 550.00	\$ 2,200.00	\$ 615.83	\$ 2,463.33	\$ 54.17	\$ 216.67	9%	0.03%	0.03%	-33.0%
	60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	9	EACH	\$250.00	\$2,250.00	\$ 320.00	\$ 2,880.00	\$ 600.00	\$ 5,400.00	\$ 436.67	\$ 3,930.00	\$ (116.67)	\$ (1,050.00)	-27%	0.03%	0.02%	28.0%
	56109210	WATER VALVES TO BE ADJUSTED	23	EACH	\$1,000.00	\$23,000.00	\$ 300.00	\$ 6,900.00	\$ 400.00	\$ 9,200.00	\$ 330.83	\$ 7,609.17	\$ (30.83)	\$ (709.17)	-9%	0.07%	0.17%	-70.0%
	56400300	FIRE HYDRANTS TO BE ADJUSTED	13	EACH	\$650.00	\$8,450.00	\$ 715.00	\$ 9,295.00	\$ 985.00	\$ 12,805.00	\$ 1,176.67	\$ 15,296.67	\$ (461.67)	\$ (6,001.67)	-39%	0.09%	0.06%	10.0%
*	X0323455	ADJUST MONITORING WELLS	4	EACH	\$650.00	\$2,600.00	\$ 360.00	\$ 1,440.00	\$ 250.00	\$ 1,000.00	\$ 418.33	\$ 1,673.33	\$ (58.33)	\$ (233.33)	-14%	0.01%	0.02%	-44.6%
*	XX007761	BUFFALO BOX ADJUSTMENT, SPECIAL	10	EACH	\$500.00	\$5,000.00	\$ 385.00	\$ 3,850.00	\$ 175.00	\$ 1,750.00	\$ 243.33	\$ 2,433.33	\$ 141.67	\$ 1,416.67	58%	0.04%	0.04%	-23.0%
*		ADJUST ELECTRICAL OUTLET	1	EACH	\$650.00	\$650.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 750.00	\$ 750.00	\$ (250.00)	\$ (250.00.				

Engineers Opinion of Probable Construction Cost
143rd Street & LaGrange Road - Roadway Improvements

updated 01/11/11

Bid							F.H. Paschen		Lorig Construction Company		Average		Low Diff From Ave		Bid Review			
SP	Item Number	Description	Quantity	Unit	Unit Price	Cost	Unit Price	Total Price	Unit Price	Total Price	Unit	Price	Unit	Price	%age Diff From Bid Ave	% of total Contract (bid)	% of total Contract (Eng.)	Diff from EOPCC
	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	731	LF	\$4.50	\$3,289.50	\$ 2.75	\$ 2,010.25	\$ 2.50	\$ 1,827.50	\$ 2.79	\$ 2,040.71	\$ (0.04)	\$ (30.46)	-1%	0.02%	0.02%	-38.9%
	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	4	EACH	\$900.00	\$3,600.00	\$ 1,146.00	\$ 4,584.00	\$ 880.00	\$ 3,520.00	\$ 964.33	\$ 3,857.33	\$ 181.67	\$ 726.67	19%	0.05%	0.03%	27.3%
	87601200	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE II	1	EACH	\$675.00	\$675.00	\$ 325.00	\$ 325.00	\$ 450.00	\$ 450.00	\$ 504.17	\$ 504.17	\$ (179.17)	\$ (179.17)	-36%	0.00%	0.01%	-51.9%
	87700130	STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	1	EACH	\$3,500.00	\$3,500.00	\$ 3,932.50	\$ 3,932.50	\$ 4,500.00	\$ 4,500.00	\$ 4,405.42	\$ 4,405.42	\$ (472.92)	\$ (472.92)	-11%	0.04%	0.03%	12.4%
	87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	1	EACH	\$4,000.00	\$4,000.00	\$ 4,355.10	\$ 4,355.10	\$ 4,900.00	\$ 4,900.00	\$ 4,817.52	\$ 4,817.52	\$ (462.42)	\$ (462.42)	-10%	0.04%	0.03%	8.9%
	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	1	EACH	\$5,000.00	\$5,000.00	\$ 5,083.75	\$ 5,083.75	\$ 5,200.00	\$ 5,200.00	\$ 5,238.96	\$ 5,238.96	\$ (155.21)	\$ (155.21)	-3%	0.05%	0.04%	1.7%
	87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	3	EACH	\$7,600.00	\$22,800.00	\$ 7,828.85	\$ 23,486.55	\$ 7,500.00	\$ 22,500.00	\$ 7,738.14	\$ 23,214.43	\$ 90.71	\$ 272.13	1%	0.23%	0.17%	3.0%
	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	1	EACH	\$7,800.00	\$7,800.00	\$ 7,915.85	\$ 7,915.85	\$ 7,600.00	\$ 7,600.00	\$ 7,885.98	\$ 7,885.98	\$ 29.88	\$ 29.88	0%	0.08%	0.06%	1.5%
	87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	2	EACH	\$8,200.00	\$16,400.00	\$ 8,410.00	\$ 16,820.00	\$ 7,800.00	\$ 15,600.00	\$ 8,168.33	\$ 16,336.67	\$ 241.67	\$ 483.33	3%	0.17%	0.12%	2.6%
	87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	2	EACH	\$8,600.00	\$17,200.00	\$ 8,790.00	\$ 17,580.00	\$ 8,700.00	\$ 17,400.00	\$ 8,865.00	\$ 17,730.00	\$ (75.00)	\$ (150.00)	-1%	0.17%	0.13%	2.2%
	87700418	STEEL MAST ARM ASSEMBLY AND POLE, 68 FT.	1	EACH	\$13,000.00	\$13,000.00	\$ 13,275.00	\$ 13,275.00	\$ 13,500.00	\$ 13,500.00	\$ 13,670.83	\$ 13,670.83	\$ (395.83)	\$ (395.83)	-3%	0.13%	0.10%	2.1%
	87800100	CONCRETE FOUNDATION, TYPE A	26	LF	\$200.00	\$5,200.00	\$ 115.00	\$ 2,990.00	\$ 125.00	\$ 3,250.00	\$ 128.33	\$ 3,336.67	\$ (13.33)	\$ (346.67)	-10%	0.03%	0.04%	-42.5%
	87702810	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 16 FT.	1	EACH	\$7,000.00	\$7,000.00	\$ 5,472.50	\$ 5,472.50	\$ 5,800.00	\$ 5,800.00	\$ 5,770.42	\$ 5,770.42	\$ (297.92)	\$ (297.92)	-5%	0.05%	0.05%	-21.8%
	87702850	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 24 FT.	1	EACH	\$8,000.00	\$8,000.00	\$ 6,500.00	\$ 6,500.00	\$ 6,200.00	\$ 6,200.00	\$ 6,470.83	\$ 6,470.83	\$ 29.17	\$ 29.17	0%	0.06%	0.06%	-18.8%
	87702960	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	3	EACH	\$10,000.00	\$30,000.00	\$ 9,596.00	\$ 28,788.00	\$ 9,350.00	\$ 28,050.00	\$ 9,607.67	\$ 28,823.00	\$ (11.67)	\$ (35.00)	0%	0.28%	0.23%	-4.0%
	87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.	1	EACH	\$10,500.00	\$10,500.00	\$ 9,685.00	\$ 9,685.00	\$ 9,500.00	\$ 9,500.00	\$ 9,814.17	\$ 9,814.17	\$ (129.17)	\$ (129.17)	-1%	0.10%	0.08%	-7.8%
	87703080	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 68 FT.	1	EACH	\$12,000.00	\$12,000.00	\$ 16,141.85	\$ 16,141.85	\$ 15,250.00	\$ 15,250.00	\$ 15,690.31	\$ 15,690.31	\$ 451.54	\$ 451.54	3%	0.16%	0.09%	34.5%
	87800150	CONCRETE FOUNDATION, TYPE C	13	LF	\$375.00	\$4,875.00	\$ 404.85	\$ 5,263.05	\$ 450.00	\$ 5,850.00	\$ 467.48	\$ 6,077.18	\$ (62.62)	\$ (814.13)	-13%	0.05%	0.04%	8.0%
	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	59	LF	\$150.00	\$8,775.00	\$ 122.56	\$ 7,169.76	\$ 150.00	\$ 8,775.00	\$ 156.26	\$ 9,141.21	\$ (33.70)	\$ (1,971.45)	-22%	0.07%	0.07%	-18.3%
	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	156	LF	\$200.00	\$31,200.00	\$ 132.10	\$ 20,607.60	\$ 185.00	\$ 28,860.00	\$ 182.85	\$ 28,524.60	\$ (50.75)	\$ (7,917.00)	-28%	0.20%	0.24%	-34.0%
	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	28	LF	\$275.00	\$7,700.00	\$ 284.05	\$ 7,953.40	\$ 225.00	\$ 6,300.00	\$ 259.84	\$ 7,275.57	\$ 24.21	\$ 677.83	9%	0.08%	0.06%	3.3%
	87900200	DRILL EXISTING HANDHOLE	10	EACH	\$200.00	\$2,000.00	\$ 165.00	\$ 1,650.00	\$ 250.00	\$ 2,500.00	\$ 240.00	\$ 2,400.00	\$ (75.00)	\$ (750.00)	-31%	0.02%	0.02%	-17.5%
	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	32	EACH	\$990.00	\$31,680.00	\$ 695.00	\$ 22,240.00	\$ 750.00	\$ 24,000.00	\$ 774.17	\$ 24,773.33	\$ (79.17)	\$ (2,533.33)	-10%	0.22%	0.24%	-29.8%
	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	2	EACH	\$1,405.00	\$2,810.00	\$ 855.95	\$ 1,711.90	\$ 950.00	\$ 1,900.00	\$ 988.49	\$ 1,976.98	\$ (132.54)	\$ (265.08)	-13%	0.02%	0.02%	-39.1%
	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	14	EACH	\$1,465.00	\$20,510.00	\$ 959.00	\$ 13,426.00	\$ 1,100.00	\$ 15,400.00	\$ 1,126.50	\$ 15,771.00	\$ (167.50)	\$ (2,345.00)	-15%	0.13%	0.16%	-34.5%
	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	2	EACH	\$2,770.00	\$5,540.00	\$ 1,548.00	\$ 3,096.00	\$ 1,850.00	\$ 3,700.00	\$ 1,908.00	\$ 3,816.00	\$ (360.00)	\$ (720.00)	-19%	0.03%	0.04%	-44.1%
	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	4	EACH	\$2,530.00	\$10,120.00	\$ 1,465.00	\$ 5,860.00	\$ 1,600.00	\$ 6,400.00	\$ 1,644.17	\$ 6,576.67	\$ (179.17)	\$ (716.67)	-11%	0.06%	0.08%	-42.1%
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	16	EACH	\$850.00	\$13,600.00	\$ 572.00	\$ 9,152.00	\$ 550.00	\$ 8,800.00	\$ 576.17	\$ 9,218.67	\$ (4.17)	\$ (66.67)	-1%	0.09%	0.10%	-32.7%
	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	4	EACH	\$1,450.00	\$5,800.00	\$ 1,150.00	\$ 4,600.00	\$ 1,050.00	\$ 4,200.00	\$ 1,125.00	\$ 4,500.00	\$ 25.00	\$ 100.00	2%	0.05%	0.04%	-20.7%
	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	46	EACH	\$125.00	\$5,750.00	\$ 95.75	\$ 4,404.50	\$ 125.00	\$ 5,750.00	\$ 134.29	\$ 6,177.42	\$ (38.54)	\$ (1,772.92)	-29%	0.04%	0.04%	-23.4%
	88500100	INDUCTIVE LOOP DETECTOR	38	EACH	\$190.00	\$7,220.00	\$ 246.67	\$ 9,373.46	\$ 250.00	\$ 9,500.00	\$ 239.45	\$ 9,098.91	\$ 7.22	\$ 274.55	3%	0.09%	0.05%	29.8%
	88600100	DETECTOR LOOP, TYPE I	3,796	LF	\$16.00	\$60,736.00	\$ 13.22	\$ 50,183.12	\$ 11.00	\$ 41,756.00	\$ 12.29	\$ 46,640.19	\$ 0.93	\$ 3,542.93	8%	0.49%	0.46%	-17.4%
	88700200	LIGHT DETECTOR	9	EACH	\$1,100.00	\$9,900.00	\$ 1,149.60	\$ 10,346.40	\$ 850.00	\$ 7,650.00	\$ 941.60	\$ 8,474.40	\$ 208.00	\$ 1,872.00	22%	0.10%	0.08%	4.5%
	88700300	LIGHT DETECTOR AMPLIFIER	3	EACH	\$2,100.00	\$6,300.00												

Engineers Opinion of Probable Construction Cost
143rd Street & LaGrange Road - Roadway Improvements

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Bid							F.H. Paschen		Lorig Construction Company		Average		Low Diff From Ave		Bid Review			
SP	Item Number	Description	Quantity	Unit	Unit Price	Cost	Unit Price	Total Price	Unit Price	Total Price	Unit	Price	Unit	Price	%age Diff From Bid Ave	% of total Contract (bid)	% of total Contract (Eng.)	Diff from EOPCC
	70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	4,444	SQ FT	\$3.00	\$13,332.00	\$ 0.10	\$ 444.40	\$ 0.10	\$ 444.40	\$ 1.57	\$ 6,962.27	\$ (1.47)	\$ (6,517.87)	-94%	0.00%	0.10%	-96.7%
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	198,303	FOOT	\$1.00	\$198,303.00	\$ 0.04	\$ 7,932.12	\$ 0.04	\$ 7,932.12	\$ 0.40	\$ 78,660.19	\$ (0.36)	\$ (70,728.07)	-90%	0.08%	1.51%	-96.0%
	70300540	PAVEMENT MARKING TAPE, TYPE III 6"	26,588	FOOT	\$1.50	\$39,882.00	\$ 0.06	\$ 1,595.28	\$ 0.06	\$ 1,595.28	\$ 0.70	\$ 18,700.23	\$ (0.64)	\$ (17,104.95)	-91%	0.02%	0.30%	-96.0%
	70300560	PAVEMENT MARKING TAPE, TYPE III 12"	1,003	FOOT	\$3.00	\$3,009.00	\$ 0.12	\$ 120.36	\$ 0.12	\$ 120.36	\$ 1.47	\$ 1,477.75	\$ (1.35)	\$ (1,357.39)	-92%	0.00%	0.02%	-96.0%
	70300570	PAVEMENT MARKING TAPE, TYPE III 24"	2,020	FOOT	\$6.00	\$12,120.00	\$ 0.25	\$ 505.00	\$ 0.25	\$ 505.00	\$ 3.25	\$ 6,565.00	\$ (3.00)	\$ (6,060.00)	-92%	0.00%	0.09%	-95.8%
	70300610	TEMPORARY PAINT PAVEMENT MARKING, LETTERS AND SYMBOLS	2,042	SQ FT	\$1.50	\$3,063.00	\$ 1.00	\$ 2,042.00	\$ 1.00	\$ 2,042.00	\$ 1.03	\$ 2,110.07	\$ (0.03)	\$ (68.07)	-3%	0.02%	0.02%	-33.3%
	70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	102,350	FOOT	\$0.50	\$51,175.00	\$ 0.02	\$ 2,047.00	\$ 0.02	\$ 2,047.00	\$ 0.11	\$ 11,599.67	\$ (0.09)	\$ (9,552.67)	-82%	0.02%	0.39%	-96.0%
	70300635	TEMPORARY PAINT PAVEMENT MARKING LINE 6"	9,435	FOOT	\$1.00	\$9,435.00	\$ 0.05	\$ 471.75	\$ 0.05	\$ 471.75	\$ 0.19	\$ 1,745.48	\$ (0.14)	\$ (1,273.73)	-73%	0.00%	0.07%	-95.0%
	70300645	TEMPORARY PAINT PAVEMENT MARKING LINE 12"	1,881	FOOT	\$1.50	\$2,821.50	\$ 0.60	\$ 1,128.60	\$ 0.60	\$ 1,128.60	\$ 0.57	\$ 1,065.90	\$ 0.03	\$ 62.70	6%	0.01%	0.02%	-60.0%
	70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24"	1,106	FOOT	\$3.00	\$3,318.00	\$ 1.20	\$ 1,327.20	\$ 1.20	\$ 1,327.20	\$ 1.13	\$ 1,253.47	\$ 0.07	\$ 73.73	6%	0.01%	0.03%	-60.0%
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	44,861	SQ FT	\$0.75	\$33,645.75	\$ 0.01	\$ 448.61	\$ 0.01	\$ 448.61	\$ 0.57	\$ 25,570.77	\$ (0.56)	\$ (25,122.16)	-98%	0.00%	0.26%	-98.7%
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	174	EACH	\$10.00	\$1,740.00	\$ 12.00	\$ 2,088.00	\$ 5.19	\$ 903.06	\$ 12.20	\$ 2,122.51	\$ (0.20)	\$ (34.51)	-2%	0.02%	0.01%	20.0%
	XX005758	TEMPORARY PAVEMENT	2,200	TON	\$80.00	\$176,000.00	\$ 95.50	\$ 210,100.00	\$ 65.00	\$ 143,000.00	\$ 73.92	\$ 162,616.67	\$ 21.58	\$ 47,483.33	29%	2.07%	1.34%	19.4%
	67000400	ENGINEERS FIELD OFFICE TYPE A	14	CAL MO	\$1,200.00	\$16,800.00	\$ 2,000.00	\$ 28,000.00	\$ 2,500.00	\$ 35,000.00	\$ 2,666.67	\$ 37,333.33	\$ (666.67)	\$ (9,333.33)	-25%	0.28%	0.13%	66.7%
	SP-09	PRECONSTRUCTION VIDEOTAPING	1	L SUM	\$1,500.00	\$1,500.00	\$ 5,000.00	\$ 5,000.00	\$ 9,000.00	\$ 9,000.00	\$ 5,914.17	\$ 5,914.17	\$ (914.17)	\$ (914.17)	-15%	0.05%	0.01%	233.3%
	SP-10	CONSTRUCTION STAKING AND RECORD DRAWINGS	1	L SUM	\$15,000.00	\$15,000.00	\$ 150,000.00	\$ 150,000.00	\$ 250,000.00	\$ 250,000.00	\$ 120,833.33	\$ 120,833.33	\$ 29,166.67	\$ 29,166.67	24%	1.48%	0.11%	900.0%
	SP-12	AGGREGATE FOR TEMPORARY ACCESS	750	TON	\$50.00	\$37,500.00	\$ 15.00	\$ 11,250.00	\$ 19.00	\$ 14,250.00	\$ 20.00	\$ 15,000.00	\$ (5.00)	\$ (3,750.00)	-25%	0.11%	0.28%	-70.0%
	SP-23	WATER BLAST PAVEMENT MARKING REMOVAL W/ VACUUM RECOVERY	2,000	SQ FT	\$5.00	\$10,000.00	\$ 3.00	\$ 6,000.00	\$ 3.00	\$ 6,000.00	\$ 3.43	\$ 6,866.67	\$ (0.43)	\$ (866.67)	-13%	0.06%	0.08%	-40.0%
IRRIGATION					Subtotal	\$250,668.40		\$ 191,177.30		\$ 216,031.50						1.88%	1.90%	
*	SP-IRR	IRRIGATION CONTROL WIRE	4,089	FOOT	\$2.10	\$8,586.90	\$ 0.70	\$ 2,862.30	\$ 1.50	\$ 6,133.50	\$ 1.34	\$ 5,492.89	\$ (0.64)	\$ (2,630.59)	-48%	0.03%	0.07%	-66.7%
*	SP-IRR	IRRIGATION LINE, 2" PVC SDR 21	4,774	FOOT	\$9.75	\$46,546.50	\$ 5.00	\$ 23,870.00	\$ 4.00	\$ 19,096.00	\$ 5.56	\$ 26,535.48	\$ (0.56)	\$ (2,665.48)	-10%	0.24%	0.35%	-48.7%
*	SP-IRR	IRRIGATION LINE, 4" PVC SDR 21	105	FOOT	\$15.00	\$1,575.00	\$ 10.00	\$ 1,050.00	\$ 8.00	\$ 840.00	\$ 12.20	\$ 1,281.00	\$ (2.20)	\$ (231.00)	-18%	0.01%	0.01%	-33.3%
*	SP-IRR	IRRIGATION SLEEVE 2" GALVANIZED STEEL	149	FOOT	\$20.00	\$2,980.00	\$ 15.00	\$ 2,235.00	\$ 8.00	\$ 1,192.00	\$ 19.03	\$ 2,834.73	\$ (4.03)	\$ (599.73)	-21%	0.02%	0.02%	-25.0%
*	SP-IRR	IRRIGATION SLEEVE 4" GALVANIZED STEEL	1,112	FOOT	\$26.00	\$28,912.00	\$ 20.00	\$ 22,240.00	\$ 10.00	\$ 11,120.00	\$ 27.64	\$ 30,737.53	\$ (7.64)	\$ (8,497.53)	-28%	0.22%	0.22%	-23.1%
*	SP-IRR	IRRIGATION SLEEVE 6" GALVANIZED STEEL	176	FOOT	\$30.00	\$5,280.00	\$ 30.00	\$ 5,280.00	\$ 15.00	\$ 2,640.00	\$ 38.54	\$ 6,782.75	\$ (8.54)	\$ (1,502.75)	-22%	0.05%	0.04%	0.0%
*	SP-IRR	IRRIGATION VALVE BOX, 18" X 18"	2	EACH	\$75.00	\$150.00	\$ 100.00	\$ 200.00	\$ 200.00	\$ 400.00	\$ 123.17	\$ 246.33	\$ (23.17)	\$ (46.33)	-19%	0.00%	0.00%	33.3%
*	SP-IRR	IRRIGATION VALVE BOX, 12" X 18"	20	EACH	\$52.00	\$1,040.00	\$ 75.00	\$ 1,500.00	\$ 200.00	\$ 4,000.00	\$ 110.83	\$ 2,216.67	\$ (35.83)	\$ (716.67)	-32%	0.01%	0.01%	44.2%
*	SP-IRR	IRRIGATION VALVE BOX, 10" DIA. ROUND	22	EACH	\$21.00	\$462.00	\$ 15.00	\$ 330.00	\$ 200.00	\$ 4,400.00	\$ 85.00	\$ 1,870.00	\$ (70.00)	\$ (1,540.00)	-82%	0.00%	0.00%	-28.6%
*	SP-IRR	IRRIGATION MANUAL SHUT OFF VALVE, 1"	2	EACH	\$90.00	\$180.00	\$ 35.00	\$ 70.00	\$ 250.00	\$ 500.00	\$ 133.83	\$ 267.67	\$ (98.83)	\$ (197.67)	-74%	0.00%	0.00%	-61.1%
*	SP-IRR	IRRIGATION MANUAL SHUT OFF VALVE, 1-1/2"	2	EACH	\$100.00	\$200.00	\$ 40.00	\$ 80.00	\$ 350.00	\$ 700.00	\$ 170.67	\$ 341.33	\$ (130.67)	\$ (261.33)	-77%	0.00%	0.00%	-60.0%
*	SP-IRR	IRRIGATION MANUAL SHUT OFF VALVE, 2"	28	EACH	\$120.00	\$3,360.00	\$ 45.00	\$ 1,260.00	\$ 450.00	\$ 12,600.00	\$ 215.67	\$ 6,038.67	\$ (170.67)	\$ (4,778.67)	-79%	0.01%	0.03%	-62.5%
*	SP-IRR	IRRIGATION AUTOMATED CONTROL VALVE, 1"	2	EACH	\$180.00	\$360.00	\$ 150.00	\$ 300.00	\$ 350.00	\$ 700.00	\$ 225.50	\$ 451.00	\$ (75.50)	\$ (151.00)	-33%	0.00%	0.00%	-16.7%
*	SP-IRR	IRRIGATION AUTOMATED CONTROL VALVE, 1-1/2"	2	EACH	\$200.00	\$400.00	\$ 175.00	\$ 350.00	\$ 400.00	\$ 800.00	\$ 254.50	\$ 509.00	\$ (79.50)	\$ (159.00)	-31%	0.00%	0.00%	-12.5%
*	SP-IRR	IRRIGATION AUTOMATED CONTROL VALVE, 2"	35	EACH	\$232.00	\$8,120.00	\$ 200.00	\$ 7,000.00	\$ 450.00	\$ 15,750.00	\$ 291.00	\$ 10,185.00	\$ (91.00)	\$ (3,185.00)	-31%	0.07%	0.06%	-13.8%
*	SP-IRR	QUICK COUPLER	6	EACH	\$475.00	\$2,850.00	\$ 200.00	\$ 1,200.00	\$ 250.00	\$ 1,500.00	\$ 228.63	\$ 1,371.80	\$ (28.63)	\$ (171.80)	-13%	0.01%	0.02%	-57.9%
*	SP-IRR	BACKFLOW PREVENTER, 2"	4	EACH	\$2,000.00	\$8,000.00	\$ 1,500.00	\$ 6,000.00	\$ 1,000.00	\$ 4,000.00	\$ 1,953.90	\$ 7,815.60	\$ (453.90)	\$ (1,815.60)	-23%	0.06%	0.06%	-25.0%
*	SP-IRR	BACKFLOW PREVENTER ENCLOSURE	4	EACH	\$1,000.00	\$4,000.00	\$ 2,500.00	\$ 10,000.00	\$ 2,500.00	\$ 10,000.00	\$ 2,425.00	\$ 9,700.00	\$ 75.00	\$ 300.00	3%	0.10%	0.03%	150.0%
*	SP-IRR	IRRIGATION CONTROLLER	4	EACH	\$250.00	\$1,000.00	\$ 1,500.00	\$ 6,000.00	\$ 2,000.00	\$ 8,000.00	\$ 1,817.50	\$ 7,270.00	\$ (317.50)	\$ (1,270.00)	-17%	0.06%	0.01%	500.0%
*	SP-IRR	BOOSTER PUMP	4	EACH	\$1,500.00	\$6,000.00	\$ 1,500.00	\$ 6,000.00	\$ 1,500.00	\$ 6,000.00	\$ 1,432.50	\$ 5,730.00	\$ 67.50	\$ 270.00	5%	0.06%	0.05%	0.0%
*	SP-IRR	CONNECTION TO EXISTING WATERMAIN, 2"	4	EACH	\$3,000.00	\$12,000.00	\$ 7,000.00	\$ 28,000.00	\$ 7,500.00	\$ 30,000.00	\$ 8,910.00	\$ 35,640.00	\$ (1,910.00)	\$ (7,640.00)	-21%	0.28%	0.09%	133.3%
*	SP-IRR	SPRAY HEAD, 4" POP UP	1,053	EACH	\$62.00	\$65,286.00	\$ 35.00	\$ 36,855.00	\$ 40.00	\$ 42,120.00	\$ 51.90	\$ 54,650.70	\$ (16.90)	\$ (17,795.70)	-33%	0.36%	0.50%	-43.5%
*	SP-IRR	SPRAY HEAD, 12" POP UP	540	EACH	\$72.00	\$38,880.00	\$ 45.00	\$ 24,300.00	\$ 50.00	\$ 27,000.00	\$ 63.07	\$ 34,056.00	\$ (18.07)	\$ (9,756.00)	-29%	0.24%	0.30%	-37.5%
*	SP-IRR	ROTARY HEAD, 4" POP UP	9	EACH	\$100.00	\$900.00	\$ 55.00	\$ 495.00	\$ 60.00	\$ 540.00	\$ 71.60	\$ 644.40	\$ (16.60)	\$ (149.40)	-23%	0.00%	0.01%	-45.0%
*	SP-IRR	IRRIGATION SYSTEM FALL SHUT-DOWN	1	L SUM	\$1,500.00	\$1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 2,000.00	\$ 2,000.00	\$ 1,841.67	\$ 1,841.67	\$ (341.67)	\$ (341.67)	-19%	0.01%	0.01%	0.0%
*	SP-IRR	IRRIGATION SYSTEM SPRING START-UP	1	L SUM	\$1,500.00	\$1,500.00	\$ 1,200.00	\$ 1,200.00	\$ 3,000.00	\$ 3,000.00	\$ 1,979.17	\$ 1,979.17	\$ (779.17)	\$ (779.17)	-39%	0.01%	0.01%	-20.0%
*	SP-IRR	IRRIGATION WEATHER SENSOR	4	EACH	\$150.00	\$600.00	\$ 250.00	\$ 1,000.00	\$ 250.00	\$ 1,000.00	\$ 408.00	\$ 1,632.00	\$ (158.00)	\$ (632.00)	-39%	0.01%	0.00%	66.7%
LANDSCAPING					Subtotal	\$ 1,737,708.00		\$ 1,344,112.54		\$ 1,809,148.00						13.24%	13.19%	
	SP-LS01	PLANT WATERING	1	L SUM	\$ 36,000.00	\$ 36,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 7,633.33	\$ 7,633.33	\$ (5,633.33)	\$ (5,633.33)	-74%	0.02%	0.27%	-94.4%
	25200110	SODDING, SALT TOLERANT	2,852	SQ YD	\$ 5.50	\$ 15,686.00	\$ 7.50	\$ 21,390.00	\$ 7.50	\$ 21,390.00	\$ 6.42	\$ 18,300.33	\$ 1.08	\$ 3,089.67	17%	0.21%	0.12%	36.4%
	25000110	SEEDING, CLASS 1A	1	ACRE	\$ 11,000.00	\$ 11,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,937.67	\$ 4,937.67	\$ (937.67)	\$ (937.67)	-19%	0.04%	0.08%	-63.6%
	A2000086	TREE, ACER X FREEMANII ARMSTRONG (ARMSTRONG FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	37	EACH	\$ 600.00	\$ 22,200.00	\$ 285.00	\$ 10,545.00	\$ 285.00	\$ 10,545.00	\$ 274.17	\$ 10,144.17	\$ 10.83	\$ 400.83	4%	0.10%	0.17%	-52.5%
	A2008748	TREE, ULMUS X FRONTIER (FRONTIER ELM), 3" CALIPER, BALLED AND BURLAPPED, MATCHING HEADS	27	EACH	\$ 700.00	\$ 18,900.00	\$ 310.00	\$ 8,370.00	\$ 310.00	\$ 8,370.00	\$ 340.67	\$ 9,198.00	\$ (30.67)	\$ (828.00)	-9%	0.08%	0.14%	-55.7%
	A2007820	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 2-1/2" CALIPER, BALLED AND BURLAPPED	24	EACH	\$ 600.00	\$ 14,400.00	\$ 285.00	\$ 6,840.00	\$ 285.00	\$ 6,840.00	\$ 279.17	\$ 6,700.00	\$ 5.83	\$ 140.00	2%	0.07%	0.11%	-52.5%

Engineers Opinion of Probable Construction Cost
143rd Street & LaGrange Road - Roadway Improvements

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Bid							F.H. Paschen		Lorig Construction Company		Average		Low Diff From Ave		Bid Review			
SP	Item Number	Description	Quantity	Unit	Unit Price	Cost	Unit Price	Total Price	Unit Price	Total Price	Unit	Price	Unit	Price	%age Diff From Bid Ave	% of total Contract (bid)	% of total Contract (Eng.)	Diff from EOPCC
	A2004520	TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 2-1/2" CALIPER, BALLED AND BURLAPPED	19	EACH	\$ 600.00	\$ 11,400.00	\$ 410.00	\$ 7,790.00	\$ 410.00	\$ 7,790.00	\$ 427.50	\$ 8,122.50	\$ (17.50)	\$ (332.50)	-4%	0.08%	0.09%	-31.7%
	A2008920	TREE, ULMUS REGAL (REGAL ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	14	EACH	\$ 600.00	\$ 8,400.00	\$ 285.00	\$ 3,990.00	\$ 285.00	\$ 3,990.00	\$ 321.67	\$ 4,503.33	\$ (36.67)	\$ (513.33)	-11%	0.04%	0.06%	-52.5%
	A2004720	TREE, GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEYLOCUST), 2-1/2" CALIPER, BALLED AND BURLAPPED	46	EACH	\$ 600.00	\$ 27,600.00	\$ 285.00	\$ 13,110.00	\$ 285.00	\$ 13,110.00	\$ 278.33	\$ 12,803.33	\$ 6.67	\$ 306.67	2%	0.13%	0.21%	-52.5%
	B2005720	TREE, PYRUS CALLERYANA CHANTICLEER (CHANTICLEER CALLERY PEAR), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	4	EACH	\$ 600.00	\$ 2,400.00	\$ 310.00	\$ 1,240.00	\$ 310.00	\$ 1,240.00	\$ 299.17	\$ 1,196.67	\$ 10.83	\$ 43.33	4%	0.01%	0.02%	-48.3%
	C2006236	SHRUB, RIBES ALPINUM (ALPINE CURRANT), 3' HEIGHT, BALLED AND BURLAPPED	8	EACH	\$ 45.00	\$ 360.00	\$ 35.00	\$ 280.00	\$ 35.00	\$ 280.00	\$ 39.67	\$ 317.33	\$ (4.67)	\$ (37.33)	-12%	0.00%	0.00%	-22.2%
	C2009824	SHRUB, SPIREA X BUMALDA ANTHONY WATERER (ANTHONY WATERER SPIREA), 2' HEIGHT, BALLED AND BURLAPPED	54	EACH	\$ 45.00	\$ 2,430.00	\$ 25.00	\$ 1,350.00	\$ 25.00	\$ 1,350.00	\$ 33.50	\$ 1,809.00	\$ (8.50)	\$ (459.00)	-25%	0.01%	0.02%	-44.4%
	C2001049	SHRUB, CARYOPTERIS X CLANDONENSIS ARTHUR SIMMONDS (ARTHUR SIMMONDS BLUEBEARD), 1-GALLON	43	EACH	\$ 45.00	\$ 1,935.00	\$ 25.00	\$ 1,075.00	\$ 25.00	\$ 1,075.00	\$ 20.17	\$ 867.17	\$ 4.83	\$ 207.83	24%	0.01%	0.01%	-44.4%
	C2000815	SHRUB, BERBERIS THUNBERGII ATROPURPUREA (REDLEAF JAPANESE BARBERRY), 15" WIDTH, BALLED AND BURLAPPED	66	EACH	\$ 45.00	\$ 2,970.00	\$ 25.00	\$ 1,650.00	\$ 25.00	\$ 1,650.00	\$ 32.25	\$ 2,128.50	\$ (7.25)	\$ (478.50)	-22%	0.02%	0.02%	-44.4%
	C2C11026	SHRUB, SYRINGA PATULA MISS KIM (MISS KIM MANCHURIAN LILAC), 30" HEIGHT, 5-GALLON CONTAINER	30	EACH	\$ 45.00	\$ 1,350.00	\$ 35.00	\$ 1,050.00	\$ 35.00	\$ 1,050.00	\$ 43.00	\$ 1,290.00	\$ (8.00)	\$ (240.00)	-19%	0.01%	0.01%	-22.2%
	C2C15761	SHRUB, SPIREA JAPONICA NEON FLASH (NEON FLASH JAPANESE SPIREA), 18" HEIGHT, 5-GALLON CONTAINER	47	EACH	\$ 45.00	\$ 2,115.00	\$ 30.00	\$ 1,410.00	\$ 30.00	\$ 1,410.00	\$ 35.17	\$ 1,652.83	\$ (5.17)	\$ (242.83)	-15%	0.01%	0.02%	-33.3%
	C2C076G3	SHRUB, ROSA NEARLY WILD (NEARLY WILD SHRUB ROSE), CONTAINER GROWN, 3-GALLON	228	EACH	\$ 45.00	\$ 10,260.00	\$ 25.00	\$ 5,700.00	\$ 25.00	\$ 5,700.00	\$ 35.04	\$ 7,989.50	\$ (10.04)	\$ (2,289.50)	-29%	0.06%	0.08%	-44.4%
	C2C041G5	SHRUB, ITEA VIRGINICA LITTLE HENRY (LITLE HENRY VIRGINIA SWEETSPIRE), CONTAINER GROWN, 5-GALLON	60	EACH	\$ 45.00	\$ 2,700.00	\$ 30.00	\$ 1,800.00	\$ 30.00	\$ 1,800.00	\$ 36.54	\$ 2,192.50	\$ (6.54)	\$ (392.50)	-18%	0.02%	0.02%	-33.3%
	C2002646	SHRUB, EUONYMUS ALATUS TIMBER CREEK (CHICAGO FIRE BURNING BUSH), 3' HEIGHT, BALLED AND BURLAPPED	3	EACH	\$ 45.00	\$ 135.00	\$ 50.00	\$ 150.00	\$ 50.00	\$ 150.00	\$ 58.29	\$ 174.88	\$ (8.29)	\$ (24.88)	-14%	0.00%	0.00%	11.1%
	C2000815	SHRUB, BERBERIS THUNBERGII ATROPURPUREA (REDLEAF JAPANESE BARBERRY), 15" WIDTH, BALLED AND BURLAPPED	11	EACH	\$ 45.00	\$ 495.00	\$ 25.00	\$ 275.00	\$ 25.00	\$ 275.00	\$ 33.92	\$ 373.08	\$ (8.92)	\$ (98.08)	-26%	0.00%	0.00%	-44.4%
	D2C00815	EVERGREEN, JUNIPERUS HORIZONTALIS BLUE CHIP (BLUE CHIP JUNIPER), 15" WIDTH, CONTAINER	9	EACH	\$ 45.00	\$ 405.00	\$ 25.00	\$ 225.00	\$ 25.00	\$ 225.00	\$ 34.33	\$ 309.00	\$ (9.33)	\$ (84.00)	-27%	0.00%	0.00%	-44.4%
		EVERGREEN, JUNIPERUS VIRGINIANA 'SKYROCKET' B&B	42	EACH	\$ 125.00	\$ 5,250.00	\$ 75.00	\$ 3,150.00	\$ 75.00	\$ 3,150.00	\$ 85.50	\$ 3,591.00	\$ (10.50)	\$ (441.00)	-12%	0.03%	0.04%	-40.0%
	K0030470	PERENNIAL PLANT, ORNAMENTAL GRASS TYPE	1,460	EACH	\$ 12.00	\$ 17,520.00	\$ 17.50	\$ 25,550.00	\$ 17.50	\$ 25,550.00	\$ 14.50	\$ 21,170.00	\$ 3.00	\$ 4,380.00	21%	0.25%	0.13%	45.8%
	25400105	PERENNIAL PLANTS	1,468	EACH	\$ 10.00	\$ 14,680.00	\$ 10.00	\$ 14,680.00	\$ 10.00	\$ 14,680.00	\$ 11.08	\$ 16,270.33	\$ (1.08)	\$ (1,590.33)	-10%	0.14%	0.11%	0.0%
*	SP-LS03	COMPOST, SOIL PREP	569	CU YD	\$ 100.00	\$ 56,900.00	\$ 5.00	\$ 2,845.00	\$ 5.00	\$ 2,845.00	\$ 39.08	\$ 22,235.57	\$ (34.08)	\$ (19,390.57)	-87%	0.03%	0.43%	-95.0%
	21101625	TOPSOIL FURNISH AND PLACE, 6"	328	SQ YD	\$ 14.00	\$ 4,592.00	\$ 3.00	\$ 984.00	\$ 3.00	\$ 984.00	\$ 5.13	\$ 1,681.00	\$ (2.13)	\$ (697.00)	-41%	0.01%	0.03%	-78.6%
	X0325545	PLANTING MIX FURNISH AND PLACE 18"	1,511	SQ YD	\$ 40.00	\$ 60,440.00	\$ 12.50	\$ 18,887.50	\$ 12.50	\$ 18,887.50	\$ 20.30	\$ 30,665.75	\$ (7.80)	\$ (11,778.25)	-38%	0.19%	0.46%	-68.8%
	X0324525	PLANTING MIX FURNISH AND PLACE 36"	207	SQ YD	\$ 80.00	\$ 16,560.00	\$ 25.00	\$ 5,175.00	\$ 25.00	\$ 5,175.00	\$ 42.38	\$ 8,772.32	\$ (17.38)	\$ (3,597.32)	-41%	0.05%	0.13%	-68.8%
*	K1005482 / SP-LS04	SHREDDED BARK MULCH 4"	1,511	SQ YD	\$ 13.50	\$ 20,398.50	\$ 5.00	\$ 7,555.00	\$ 5.00	\$ 7,555.00	\$ 5.91	\$ 8,927.49	\$ (0.91)	\$ (1,372.49)	-15%	0.07%	0.15%	-63.0%
*	K1004800 / SP-LS05	METAL EDGER	2,149	FOOT	\$ 2.50	\$ 5,372.50	\$ 5.00	\$ 10,745.00	\$ 5.00	\$ 10,745.00	\$ 6.70	\$ 14,398.30	\$ (1.70)	\$ (3,653.30)	-25%	0.11%	0.04%	100.0%
*	X0324994 - SP-LS06	ORNAMENTAL PLANTER	4	L SUM	\$ 900.00	\$ 3,600.00	\$ 2,400.00	\$ 9,600.00	\$ 1,800.00	\$ 7,200.00	\$ 1,995.83	\$ 7,983.33	\$ 404.17	\$ 1,616.67	20%	0.09%	0.03%	166.7%
	SP-LS07	IRONSMITH PAVER GRATE 48"	130	EACH	\$ 1,610.00	\$ 209,300.00	\$ 1,350.00	\$ 175,500.00	\$ 1,400.00	\$ 182,000.00	\$ 1,504.17	\$ 195,541.67	\$ (154.17)	\$ (20,041.67)	-10%	1.73%	1.59%	-16.1%
	SP-LS07	IRONSMITH PAVER GRATE 60"	11	EACH	\$ 2,410.00	\$ 26,510.00	\$ 1,850.00	\$ 20,350.00	\$ 2,000.00	\$ 22,000.00	\$ 2,060.00	\$ 22,660.00	\$ (210.00)	\$ (2,310.00)	-10%	0.20%	0.20%	-23.2%
*	SP-LS07	LANDSCAPE FABRIC	2,482	SQ FT	\$ 2.50	\$ 6,205.00	\$ 0.50	\$ 1,241.00	\$ 0.50	\$ 1,241.00	\$ 0.98	\$ 2,419.95	\$ (0.48)	\$ (1,178.95)	-49%	0.01%	0.05%	-80.0%
*	SP-LS07	CONCRETE FOOTER	155	EACH	\$ 200.00	\$ 31,000.00	\$ 300.00	\$ 46,500.00	\$ 250.00	\$ 38,750.00	\$ 435.83	\$ 67,554.17	\$ (135.83)	\$ (21,054.17)	-31%	0.46%	0.24%	50.0%
*	SP-LS08	TRASH RECEPTACLE	9	EACH	\$ 1,000.00	\$ 9,000.00	\$ 1,525.00	\$ 13,725.00	\$ 1,500.00	\$ 13,500.00	\$ 1,417.17	\$ 12,754.50	\$ 107.83	\$ 970.50	8%	0.14%	0.07%	52.5%
*	SP-LS08	BENCH	6	EACH	\$ 2,300.00	\$ 13,800.00	\$ 1,300.00	\$ 7,800.00	\$ 2,200.00	\$ 13,200.00	\$ 1,824.67	\$ 10,948.00	\$ (524.67)	\$ (3,148.00)	-29%	0.08%	0.10%	-43.5%
*	SP-LS09	4' ORNAMENTAL FENCE	434	FOOT	\$ 45.00	\$ 19,530.00	\$ 39.54	\$ 17,160.36	\$ 40.00	\$ 17,360.00	\$ 43.93	\$ 19,065.62	\$ (4.39)	\$ (1,905.26)	-10%	0.17%	0.15%	-12.1%
	SP-LS09	18" ORNAMENTAL RAIL	131	FOOT	\$ 30.00	\$ 3,930.00	\$ 38.79	\$ 5,081.49	\$ 40.00	\$ 5,240.00	\$ 45.18	\$ 5,918.58	\$ (6.39)	\$ (837.09)	-14%	0.05%	0.03%	29.3%
*	Z0034100 / SP-LS10	MASONRY WALL	3,414	SQ FT	\$ 50.00	\$ 170,700.00	\$ 90.16	\$ 307,806.24	\$ 170.00	\$ 580,380.00	\$ 112.53	\$ 384,166.04	\$ (22.37)	\$ (76,359.80)	-20%	3.03%	1.30%	80.3%
*	X0322923 / SP-LS11	SEGMENTAL CONCRETE BLOCK WALL	1,367	SQ FT	\$ 24.00	\$ 32,808.00	\$ 30.00	\$ 41,010.00	\$ 55.00	\$ 75,185.00	\$ 38.93	\$ 53,215.03	\$ (8.93)	\$ (12,205.03)	-23%	0.40%	0.25%	25.0%
*	50401205 / SP-LS12	PRECAST CONCRETE CAPS	34	EACH	\$ 335.00	\$ 11,390.00	\$ 625.00	\$ 21,250.00	\$ 800.00	\$ 27,200.00	\$ 770.83	\$ 26,208.33	\$ (145.83)	\$ (4,958.33)	-19%	0.21%	0.09%	86.6%
*	SP-LS12	PRECAST CONCRETE WALL CAP	1,262	FOOT	\$ 45.00	\$ 56,790.00	\$ 46.00	\$ 58,052.00	\$ 76.00	\$ 95,912.00	\$ 50.33	\$ 63,520.67	\$ (4.33)	\$ (5,468.67)	-9%	0.57%	0.43%	2.2%

Engineers Opinion of Probable Construction Cost
143rd Street & LaGrange Road - Roadway Improvements

updated 01/11/11

			Bid		Bid		F.H. Paschen		Lorig Construction Company		Average		Low Diff From Ave		Bid Review			
SP	Item Number	Description	Quantity	Unit	Unit Price	Cost	Unit Price	Total Price	Unit Price	Total Price	Unit	Price	Unit	Price	%age Diff From Bid Ave	% of total Contract (bid)	% of total Contract (Eng.)	Diff from EOPCC
*	SP-LS12	PRECAST CONCRETE LEDGE	776	FOOT	\$ 30.00	\$ 23,280.00	\$ 30.00	\$ 23,280.00	\$ 71.00	\$ 55,096.00	\$ 47.67	\$ 36,989.33	\$ (17.67)	\$ (13,709.33)	-37%	0.23%	0.18%	0.0%
*	SP-LS12	PRECAST CONCRETE SPLASH BLOCK	591	FOOT	\$ 55.00	\$ 32,505.00	\$ 96.00	\$ 56,736.00	\$ 70.00	\$ 41,370.00	\$ 57.67	\$ 34,081.00	\$ 38.33	\$ 22,655.00	66%	0.56%	0.25%	74.5%
*	SP-LS12	PRECAST PRIMARY MONUMENT COLUMN LEDGE	1	EACH	\$ 2,000.00	\$ 2,000.00	\$ 5,800.00	\$ 5,800.00	\$ 70.00	\$ 70.00	\$ 8,145.00	\$ 8,145.00	\$ (2,345.00)	\$ (2,345.00)	-29%	0.06%	0.02%	190.0%
*	SP-LS12	PRECAST PLANTER URN BASE CAP	3	EACH	\$ 2,400.00	\$ 7,200.00	\$ 2,060.00	\$ 6,180.00	\$ 2,500.00	\$ 7,500.00	\$ 3,343.33	\$ 10,030.00	\$ (1,283.33)	\$ (3,850.00)	-38%	0.06%	0.05%	-14.2%
*	SP-LS13	ALUMINUM MONUMENT CAP	1	EACH	\$ 10,000.00	\$ 10,000.00	\$ 9,500.00	\$ 9,500.00	\$ 17,500.00	\$ 17,500.00	\$ 17,000.00	\$ 17,000.00	\$ (7,500.00)	\$ (7,500.00)	-44%	0.09%	0.08%	-5.0%
*	60107600	PIPE UNDERDRAINS 4"	4,911	FOOT	\$ 15.00	\$ 73,665.00	\$ 12.50	\$ 61,387.50	\$ 17.00	\$ 83,487.00	\$ 16.67	\$ 81,850.00	\$ (4.17)	\$ (20,462.50)	-25%	0.60%	0.56%	-16.7%
*	LR430050 / SP-LS14	PAVER SIDEWALK	2,416	SQ YD	\$ 100.00	\$ 241,600.00	\$ 64.50	\$ 155,832.00	\$ 75.00	\$ 181,200.00	\$ 93.54	\$ 225,996.67	\$ (29.04)	\$ (70,164.67)	-31%	1.54%	1.83%	-35.5%
*	SP-LS14	PAVER CROSSWALK	1,139	SQ YD	\$ 270.00	\$ 307,530.00	\$ 63.00	\$ 71,757.00	\$ 58.00	\$ 66,062.00	\$ 91.29	\$ 103,981.21	\$ (28.29)	\$ (32,224.21)	-31%	0.71%	2.34%	-76.7%
*	SP-LS14	PAVE EDGE	775	FOOT	\$ 2.00	\$ 1,550.00	\$ 2.50	\$ 1,937.50	\$ 3.50	\$ 2,712.50	\$ 3.75	\$ 2,906.25	\$ (1.25)	\$ (968.75)	-33%	0.02%	0.01%	25.0%
*	42400430 / SP-LS15	PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL	2,426	SQ FT	\$ 11.00	\$ 26,686.00	\$ 6.20	\$ 15,041.20	\$ 11.00	\$ 26,686.00	\$ 9.53	\$ 23,127.87	\$ (3.33)	\$ (8,086.67)	-35%	0.15%	0.20%	-43.6%
	SP-LS18	ANTI-GRAFFITI COATING	2,100	SQ YD	\$ 2.00	\$ 4,200.00	\$ 4.50	\$ 9,450.00	\$ 19.00	\$ 39,900.00	\$ 9.50	\$ 19,950.00	\$ (5.00)	\$ (10,500.00)	-53%	0.09%	0.03%	125.0%
*	SP-LS16	PLANTER CURB	485	FOOT	\$ 15.00	\$ 7,275.00	\$ 16.75	\$ 8,123.75	\$ 21.00	\$ 10,185.00	\$ 26.63	\$ 12,913.13	\$ (9.88)	\$ (4,789.38)	-37%	0.08%	0.06%	11.7%
*	SP-LS16	LANDSCAPE CURB	600	FOOT	\$ 18.00	\$ 10,800.00	\$ 17.00	\$ 10,200.00	\$ 24.00	\$ 14,400.00	\$ 27.17	\$ 16,300.00	\$ (10.17)	\$ (6,100.00)	-37%	0.10%	0.08%	-5.6%
Special Provision																		
Contingency Item			Total		\$13,170,032.05		\$ 10,151,123.74		\$ 10,953,667.12									
							Allowances		\$ 80,000.00									
									\$ 10,231,123.74									

ALTERNATIVES							F.H. Paschen		Lorig Construction					
Alt #	Item Number	Description		Unit	Unit Price		Unit Price	Total Price	Unit Price	Total Price				
1	X0325784 / SP-LS13	Clay Pavers in Lieu of Concrete - Sidewalk	2,301	SQ YD	\$ 5.00		\$ (6.00)	\$ (13,806.00)	\$ (11.00)	\$ (25,311.00)				
	LR430020 / SP-LS13	Clay Pavers in Lieu of Concrete - Crosswalk	1,085	SQ YD	\$ 7.00		\$ 6.50	\$ 7,052.50	\$ (1.00)	\$ (1,085.00)				
		Subtotal Alternate 1						\$ (6,753.50)		\$ (26,396.00)				
2		Pedestrian Pole Substitution	40	EACH	\$ 700.00		\$ 650.00	\$ 26,000.00	\$ 700.00	\$ 28,000.00				
3	Z0034101 / SP-LS09	MASONRY WALL CONSTRUCTION - PARKWAY COLUMNS	800	SQ FT	\$ 50.00		\$ 80.00	\$ 64,000.00	\$ 200.00	\$ 160,000.00				
3	50401205 / SP-LS12	PRECAST CONCRETE CAPS	20	EACH	\$ 335.00		\$ 660.00	\$ 13,200.00	\$ 800.00	\$ 16,000.00				
3	SP-LS12	PRECAST CONCRETE LEDGE	320	FOOT	\$ 30.00		\$ 36.00	\$ 11,520.00	\$ 70.00	\$ 22,400.00				
		Subtotal Alternate 3						\$ 88,720.00		\$ 198,400.00				
4	X0322923 / SP-LS11	SEGMENTAL CONCRETE BLOCK WALL (IN LIEU OF CAST-IN-PLACE MASONRY)	1,058	SQ FT	\$ 24.00		\$ 31.50	\$ 33,327.00	\$ 50.00	\$ 52,900.00				
4		MASONRY WALL CONSTRUCTION	-1,058	SQ FT	\$ 50.00		\$ 85.00	\$ (89,930.00)	\$ 150.00	\$ (158,700.00)				
4	SP-LS012	PRECAST CONCRETE WALL CAP	-600	FOOT	\$ 45.00		\$ 30.00	\$ (18,000.00)	\$ 70.00	\$ (42,000.00)				
		Subtotal Alternate 4						\$ (74,603.00)		\$ (147,800.00)				
5	SP-LS09	ORNAMENTAL FENCE 4' (ADDITIONAL LOCATIONS)	2,030	FOOT	\$ 45.00		\$ 40.25	\$ 81,707.50	\$ 40.00	\$ 81,200.00				
6	SP-LS17	STRUCTURAL SOIL	1,004	CU YD	\$ 70.00		\$ 110.00	\$ 110,440.00	\$ 100.00	\$ 100,400.00				
6	SP-LS02	PLANTING MIX FURNISH AND PLACE 36"	177	SQ YD	\$ 80.00		\$ 45.00	\$ 7,965.00	\$ 40.00	\$ (7,080.00)				
		Subtotal Alternate 6						\$ 118,405.00		\$ 93,320.00				
Subtotal All Alternates								\$ 282,079.00		\$ 372,920.00				
Total with all alternates							\$ 13,366,394.05	\$ 10,513,202.74		\$ 11,300,191.12				
5% Contingency								\$ 511,556.19						
Total w 5% Contingency								\$ 11,024,758.93						