

OFFICE OF THE FULTON COUNTY ENGINEER

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County Engineer

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ENGINEER'S ESTIMATE				ENGINEER'S	Average Bid	R. G. Zachrich Construction, Inc.	Miller Bros. Const., Inc.	B. Hillz Excavating, Inc.	Vernon Nagel, Inc.					
PROJECT: Bridge 10-2K.3 Replacement				\$446,000.00	Unit Price	\$338,929.56	\$357,594.80	\$362,917.28	\$365,191.60					
DATE: June 27, 2013					-20.1%	-24.0%	-19.8%	-18.6%	-18.1%					
REF. NO.	ITEM NO.	QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST		
ROADWAY														
1	201	1	LUMP	CLEARING AND GRUBBING	\$ 2,500.00	\$ 2,500.00	\$ 3,859.00	\$ 5,000.00	\$ 5,000.00	\$ 1,000.00	\$ 1,000.00	\$ 6,936.00	\$ 2,500.00	
2	202	124	SQ YD	PAVEMENT REMOVED FOR BUTT JOINTS	\$ 15.00	\$ 1,860.00	\$ 10.00	\$ 11.00	\$ 1,364.00	\$ 11.00	\$ 1,364.00	\$ 7.00	\$ 868.00	
3	202	110	FT	PIPE REMOVED UNDER 24"	\$ 15.00	\$ 1,650.00	\$ 7.71	\$ 12.35	\$ 1,358.50	\$ 11.47	\$ 1,261.70	\$ 2.00	\$ 220.00	
4	203	175	CU YD	EXCAVATION	\$ 25.00	\$ 4,375.00	\$ 11.91	\$ 8.65	\$ 1,513.75	\$ 12.00	\$ 2,100.00	\$ 17.00	\$ 2,975.00	
5	203	126	CU YD	EMBANKMENT	\$ 30.00	\$ 3,780.00	\$ 11.32	\$ 6.28	\$ 791.28	\$ 12.00	\$ 1,512.00	\$ 17.00	\$ 2,142.00	
6	204	658	SQ YD	SUBGRADE COMPACTION	\$ 3.00	\$ 1,974.00	\$ 2.04	\$ 1.65	\$ 1,085.70	\$ 1.50	\$ 987.00	\$ 4.00	\$ 2,632.00	
7	606	225	FT	GUARDRAIL, TYPE 5	\$ 30.00	\$ 6,750.00	\$ 16.85	\$ 16.80	\$ 3,780.00	\$ 16.80	\$ 3,780.00	\$ 17.00	\$ 3,825.00	
8	606	4	EACH	ANCHOR ASSEMBLY, TYPE A	\$ 1,000.00	\$ 4,000.00	\$ 965.00	\$ 920.00	\$ 3,680.00	\$ 920.00	\$ 3,680.00	\$ 1,100.00	\$ 4,400.00	
9	606	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST	\$ 1,350.00	\$ 5,400.00	\$ 1,242.50	\$ 1,190.00	\$ 4,760.00	\$ 1,190.00	\$ 4,760.00	\$ 1,400.00	\$ 5,600.00	
ROADWAY TOTAL					\$ 32,289.00			\$ 23,333.23		\$ 20,444.70		\$ 29,598.00	\$ 20,302.00	
EROSION CONTROL														
10	601	113	CU YD	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	\$ 70.00	\$ 7,910.00	\$ 59.60	\$ 56.39	\$ 6,372.07	\$ 50.00	\$ 5,650.00	\$ 67.00	\$ 7,571.00	
11	832	2,500	EACH	EROSION CONTROL	\$ 1.00	\$ 2,500.00	\$ 0.88	\$ 1.00	\$ 2,500.00	\$ 1.00	\$ 2,500.00	\$ 0.50	\$ 1,250.00	
DRAINAGE TOTAL					\$ 10,410.00			\$ 8,872.07		\$ 8,150.00		\$ 8,821.00	\$ 9,845.00	
DRAINAGE														
12	603	45	FT	6" CONDUIT, TYPE C	\$ 30.00	\$ 1,350.00	\$ 17.25	\$ 23.99	\$ 1,079.55	\$ 10.00	\$ 450.00	\$ 5.00	\$ 225.00	
13	603	30	FT	8" CONDUIT, TYPE C	\$ 35.00	\$ 1,050.00	\$ 29.60	\$ 34.41	\$ 1,032.30	\$ 30.00	\$ 900.00	\$ 19.00	\$ 570.00	
14	603	40	FT	10" CONDUIT, TYPE C	\$ 40.00	\$ 1,600.00	\$ 31.85	\$ 32.39	\$ 1,295.60	\$ 35.00	\$ 1,400.00	\$ 20.00	\$ 800.00	
DRAINAGE TOTAL					\$ 4,000.00			\$ 3,407.45		\$ 2,750.00		\$ 1,595.00	\$ 4,000.00	
PAVEMENT														
15	301	57	CU YD	ASPHALT CONCRETE BASE (4")	\$ 150.00	\$ 8,550.00	\$ 175.25	\$ 171.00	\$ 9,747.00	\$ 171.00	\$ 9,747.00	\$ 188.00	\$ 10,716.00	
16	304	172	CU YD	AGGREGATE BASE	\$ 60.00	\$ 10,320.00	\$ 47.94	\$ 41.76	\$ 7,182.72	\$ 50.00	\$ 8,600.00	\$ 50.00	\$ 8,600.00	
17	407	91	GALLON	TACK COAT	\$ 3.00	\$ 273.00	\$ 2.00	\$ 2.00	\$ 182.00	\$ 2.00	\$ 182.00	\$ 2.00	\$ 182.00	
18	408	320	GALLON	PRIME COAT	\$ 6.00	\$ 1,920.00	\$ 2.00	\$ 2.00	\$ 640.00	\$ 2.00	\$ 640.00	\$ 2.00	\$ 640.00	
19	411	8	CU YD	CRUSHED AGGREGATE FOR SHOULDER PARKING	\$ 70.00	\$ 560.00	\$ 66.46	\$ 49.84	\$ 398.72	\$ 80.00	\$ 640.00	\$ 36.00	\$ 288.00	
20	448	44	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	\$ 225.00	\$ 9,900.00	\$ 178.50	\$ 174.00	\$ 7,656.00	\$ 174.00	\$ 7,656.00	\$ 192.00	\$ 8,448.00	
21	448	38	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	\$ 250.00	\$ 9,500.00	\$ 193.75	\$ 189.00	\$ 7,182.00	\$ 189.00	\$ 7,182.00	\$ 208.00	\$ 7,904.00	
22	617	7	CU YD	RECONDITIONING OF SHOULDERS	\$ 70.00	\$ 490.00	\$ 63.86	\$ 19.43	\$ 136.01	\$ 100.00	\$ 700.00	\$ 36.00	\$ 252.00	
PAVEMENT TOTAL					\$ 41,513.00			\$ 33,124.45		\$ 35,347.00		\$ 37,030.00	\$ 35,507.00	
TRAFFIC CONTROL														
23	642	0.06	MILE	CENTER LINE, TYPE 1	\$ 15,000.00	\$ 900.00	\$ 10,625.00	\$ 10,000.00	\$ 600.00	\$ 10,000.00	\$ 600.00	\$ 12,500.00	\$ 750.00	
24	642	0.13	MILE	EDGE LINE, TYPE 1	\$ 15,000.00	\$ 1,950.00	\$ 10,625.00	\$ 10,000.00	\$ 1,300.00	\$ 10,000.00	\$ 1,300.00	\$ 12,500.00	\$ 1,625.00	
TRAFFIC CONTROL TOTAL					\$ 2,850.00			\$ 1,900.00		\$ 1,900.00		\$ 2,375.00	\$ 1,900.00	
BRIDGE 10-2K.3														
25	202	1	LUMP	STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	\$ 20,000.00	\$ 20,000.00	\$ 19,648.70	\$ 20,531.81	\$ 20,531.81	\$ 20,000.00	\$ 20,000.00	\$ 18,063.00	\$ 18,063.00	
26	202	76	SQ YD	WEARING COURSE REMOVED	\$ 10.00	\$ 760.00	\$ 9.25	\$ 11.00	\$ 836.00	\$ 8.00	\$ 608.00	\$ 7.00	\$ 532.00	
27	503	583	CU YD	UNCLASSIFIED EXCAVATION	\$ 50.00	\$ 29,150.00	\$ 33.51	\$ 34.04	\$ 19,845.32	\$ 40.00	\$ 23,320.00	\$ 35.00	\$ 20,405.00	
28	505	1	LUMP	PILE DRIVING EQUIPMENT MOBILIZATION	\$ 15,000.00	\$ 15,000.00	\$ 12,677.50	\$ 14,000.00	\$ 14,000.00	\$ 6,000.00	\$ 6,000.00	\$ 18,210.00	\$ 12,500.00	
29	507	990	FT	STEEL PILES HP10X42, FURNISHED	\$ 17.00	\$ 16,830.00	\$ 20.75	\$ 20.00	\$ 19,800.00	\$ 22.00	\$ 21,780.00	\$ 17.00	\$ 16,830.00	
30	507	880	FT	STEEL PILES HP10X42, DRIVEN	\$ 10.00	\$ 8,800.00	\$ 7.75	\$ 7.00	\$ 6,160.00	\$ 10.00	\$ 8,800.00	\$ 7.00	\$ 6,160.00	
31	509	13,272	POUND	EPOXY COATED REINFORCING STEEL	\$ 2.00	\$ 26,544.00	\$ 1.02	\$ 1.06	\$ 14,068.32	\$ 1.00	\$ 13,272.00	\$ 1.00	\$ 13,272.00	
32	511	105	CU YD	CLASS C CONCRETE, ABUTMENT INCLUDING FOOTING	\$ 475.00	\$ 49,875.00	\$ 421.00	\$ 326.00	\$ 34,230.00	\$ 525.00	\$ 55,125.00	\$ 483.00	\$ 50,715.00	
33	512	228	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	\$ 20.00	\$ 4,560.00	\$ 16.89	\$ 15.54	\$ 3,543.12	\$ 20.00	\$ 4,560.00	\$ 14.00	\$ 3,192.00	
34	512	168	SQ YD	TYPE 3 WATERPROOFING	\$ 40.00	\$ 6,720.00	\$ 22.38	\$ 17.51	\$ 2,941.68	\$ 22.00	\$ 3,696.00	\$ 22.00	\$ 3,696.00	
35	515	8	EACH	PRESTRESSED CONCRETE NON-COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, B21-48	\$ 13,000.00	\$ 104,000.00	\$ 9,684.50	\$ 9,068.00	\$ 72,544.00	\$ 8,750.00	\$ 70,000.00	\$ 9,620.00	\$ 76,960.00	
36	516	129	SQ FT	1" PREFORMED EXPANSION JOINT FILLER	\$ 6.00	\$ 774.00	\$ 4.16	\$ 5.63	\$ 726.27	\$ 4.00	\$ 516.00	\$ 2.00	\$ 258.00	
37	516	33	FT	2" DEEP JOINT SEALER, AS PER PLAN	\$ 10.00	\$ 330.00	\$ 8.68	\$ 13.73	\$ 453.09	\$ 8.00	\$ 264.00	\$ 7.00	\$ 231.00	
38	516	33	FT	SPECIAL - SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	\$ 20.00	\$ 660.00	\$ 12.08	\$ 13.33	\$ 439.89	\$ 20.00	\$ 660.00	\$ 7.00	\$ 231.00	
39	516	16	EACH	1/8" PREFORMED BEARING PAD	\$ 10.00	\$ 160.00	\$ 10.25	\$ 10.00	\$ 160.00	\$ 10.00	\$ 160.00	\$ 11.00	\$ 176.00	
40	516	32	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (6" X 8" X 1.494" THICK)	\$ 150.00	\$ 4,800.00	\$ 86.25	\$ 80.00	\$ 2,560.00	\$ 75.00	\$ 2,400.00	\$ 65.00	\$ 2,080.00	
41	517	95.33	FT	RAILING (TWIN STEEL TUBE)	\$ 120.00	\$ 11,439.60	\$ 119.00	\$ 120.00	\$ 11,439.60	\$ 120.00	\$ 11,439.60	\$ 116.00	\$ 11,058.28	
42	518	49	CU YD	POROUS BACKFILL WITH FILTER FABRIC	\$ 70.00	\$ 3,430.00	\$ 61.86	\$ 72.43	\$ 3,549.07	\$ 65.00	\$ 3,185.00	\$ 50.00	\$ 2,450.00	
43	518	81	FT	SPECIAL - STEEL DRIP STRIP	\$ 12.00	\$ 972.00	\$ 9.48	\$ 10.92	\$ 884.52	\$ 10.00	\$ 810.00	\$ 7.00	\$ 567.00	
44	518	91	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	\$ 12.00	\$ 1,092.00	\$ 6.48	\$ 7.40	\$ 673.40	\$ 7.50	\$ 682.50	\$ 6.00	\$ 546.00	
45	518	47	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE	\$ 15.00	\$ 705.00	\$ 9.35	\$ 11.41	\$ 536.27	\$ 15.00	\$ 705.00	\$ 6.00	\$ 282.00	
46	523	1	EACH	DYNAMIC LOAD TESTING	\$ 3,200.00	\$ 3,200.00	\$ 3,857.50	\$ 3,370.00	\$ 3,370.00	\$ 3,750.00	\$ 3,750.00	\$ 3,310.00	\$ 3,310.00	
47	526	142	SQ YD	REINFORCED CONCRETE APPROACH SLABS (T=13")	\$ 225.00	\$ 31,950.00	\$ 174.25	\$ 150.00	\$ 21,300.00	\$ 185.00	\$ 26,270.00	\$ 197.00	\$ 27,974.00	
BRIDGE 10-2K.3 TOTAL					\$ 341,751.60			\$ 254,592.36		\$ 278,003.10		\$ 277,198.28	\$ 276,637.60	
INCIDENTALS														
48	103	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND MAINTENANCE GUARANTEE BOND	\$ 4,186.40	\$ 4,186.40	\$ 5,300.00	\$ 5,000.00	\$ 5,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,200.00	\$ 3,200.00	
49	614	1	LUMP	MAINTAINING TRAFFIC	\$ 5,000.00	\$ 5,000.00	\$ 4,000.00	\$ 4,500.00	\$ 4,500.00	\$ 7,000.00	\$ 7,000.00	\$ 1,000.00	\$ 1,000.00	
50	623	1	LUMP	CONSTRUCTION LAYOUT AND STAKING	\$ 4,000.00	\$ 4,000.00	\$ 2,700.00	\$ 4,200.00	\$ 4,200.00	\$ 1,000.00	\$ 1,000.00	\$ 2,100.00	\$ 2,100.00	
INCIDENTALS TOTAL					\$ 13,186.40			\$ 13,700.00		\$ 11,000.00		\$ 6,300.00	\$ 17,000.00	
BID TOTAL					\$ 446,000.00			\$ 338,929.56		\$ 357,594.80		\$ 362,917.28	\$ 365,191.60	
								R. G. Zachrich Construction, Inc.		Miller Bros. Const., Inc.		B. Hillz Excavating, Inc.	Vernon Nagel, Inc.	
								% Difference from Engineer's Estimate		-24.0%		-19.8%	-18.6%	-18.1%