

OFFICE OF THE FULTON COUNTY ENGINEER

Frank T. Onweller, P.E., P.S.,
County Engineer

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ENGINEER'S ESTIMATE
PROJECT: Bridge 5-2HJ.0 Replacement
DATE: July 15, 2014

ENGINEER'S
\$297,000.00

Average Bid
Unit Price
-28.4%

R. G. Zachrich Construction, Inc.
\$262,626.08
-11.6%

Vernon Nagel, Inc.
\$275,356.60
-7.3%

B. Hill'z Excavating, Inc.
\$312,384.10
5.2%

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	\$ 5,000.00	\$ 5,000.00	\$ 3,366.67	\$ 3,000.00	\$ 3,000.00	\$ 2,500.00	\$ 2,500.00	\$ 4,600.00	\$ 4,600.00
2	202	300	SQ YD	PAVEMENT REMOVED FOR BUTT JOINTS	\$ 12.00	\$ 3,600.00	\$ 5.50	\$ 5.00	\$ 1,500.00	\$ 7.50	\$ 2,250.00	\$ 4.00	\$ 1,200.00
3	202	147	SQ YD	PAVEMENT REMOVED, VARIABLE DEPTH	\$ 12.00	\$ 1,764.00	\$ 8.50	\$ 14.00	\$ 2,058.00	\$ 7.50	\$ 1,102.50	\$ 4.00	\$ 588.00
4	202	58	FT	PIPE REMOVED UNDER 24"	\$ 15.00	\$ 870.00	\$ 9.33	\$ 10.00	\$ 580.00	\$ 8.00	\$ 464.00	\$ 10.00	\$ 580.00
5	203	339	CU YD	EXCAVATION	\$ 20.00	\$ 6,780.00	\$ 16.67	\$ 10.00	\$ 3,390.00	\$ 20.00	\$ 6,780.00	\$ 20.00	\$ 6,780.00
6	203	68	CU YD	EMBANKMENT	\$ 20.00	\$ 1,360.00	\$ 18.33	\$ 15.00	\$ 1,020.00	\$ 20.00	\$ 1,360.00	\$ 20.00	\$ 1,360.00
7	204	297	SQ YD	SUBGRADE COMPACTION	\$ 3.00	\$ 891.00	\$ 1.50	\$ 1.50	\$ 445.50	\$ 1.00	\$ 297.00	\$ 2.00	\$ 594.00
8	606	231.25	FT	GUARDRAIL, TYPE 5	\$ 20.00	\$ 4,625.00	\$ 18.20	\$ 14.00	\$ 3,237.50	\$ 15.60	\$ 3,607.50	\$ 25.00	\$ 5,781.25
9	606	25	FT	GUARDRAIL, TYPE 5, 15' RADIUS	\$ 30.00	\$ 750.00	\$ 22.13	\$ 21.00	\$ 525.00	\$ 18.40	\$ 460.00	\$ 27.00	\$ 675.00
10	606	1	EACH	FLARED END SECTION	\$ 50.00	\$ 50.00	\$ 118.33	\$ 80.00	\$ 80.00	\$ 50.00	\$ 50.00	\$ 225.00	\$ 225.00
11	606	3	EACH	ANCHOR ASSEMBLY, TYPE T	\$ 600.00	\$ 1,800.00	\$ 740.00	\$ 650.00	\$ 1,950.00	\$ 670.00	\$ 2,010.00	\$ 900.00	\$ 2,700.00
12	606	3	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST	\$ 1,350.00	\$ 4,050.00	\$ 1,456.67	\$ 1,150.00	\$ 3,450.00	\$ 1,320.00	\$ 3,960.00	\$ 1,900.00	\$ 5,700.00
13	606	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST, AS PER PLAN	\$ 1,200.00	\$ 1,200.00	\$ 1,493.33	\$ 1,100.00	\$ 1,100.00	\$ 1,480.00	\$ 1,480.00	\$ 1,900.00	\$ 1,900.00
14	606	12.5	FT	THRIE BEAM GUARDRAIL, 5' RADIUS	\$ 50.00	\$ 625.00	\$ 71.33	\$ 30.00	\$ 375.00	\$ 124.00	\$ 1,550.00	\$ 60.00	\$ 750.00
ROADWAY TOTAL						\$ 33,365.00			\$ 22,711.00		\$ 27,871.00		\$ 33,433.25
EROSION CONTROL													
15	601	118	TON	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	\$ 60.00	\$ 7,080.00	\$ 66.67	\$ 50.00	\$ 5,900.00	\$ 75.00	\$ 8,850.00	\$ 75.00	\$ 8,850.00
16	832	2,500	EACH	EROSION CONTROL	\$ 1.00	\$ 2,500.00	\$ 1.00	\$ 1.00	\$ 2,500.00	\$ 1.00	\$ 2,500.00	\$ 1.00	\$ 2,500.00
DRAINAGE TOTAL						\$ 9,580.00			\$ 8,400.00		\$ 11,350.00		\$ 11,350.00
DRAINAGE													
17	811	46	FT	6" CONDUIT, TYPE C	\$ 20.00	\$ 920.00	\$ 24.33	\$ 42.00	\$ 1,932.00	\$ 12.00	\$ 552.00	\$ 19.00	\$ 874.00
18	811	43	FT	8" CONDUIT, TYPE B	\$ 30.00	\$ 1,290.00	\$ 30.67	\$ 42.00	\$ 1,806.00	\$ 24.00	\$ 1,032.00	\$ 26.00	\$ 1,118.00
19	811	148	FT	8" CONDUIT, TYPE C	\$ 25.00	\$ 3,700.00	\$ 25.00	\$ 42.00	\$ 6,216.00	\$ 12.00	\$ 1,776.00	\$ 21.00	\$ 3,108.00
20	811	1	EACH	CATCH BASIN, NO. 2-2B	\$ 1,300.00	\$ 1,300.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,200.00	\$ 1,200.00	\$ 800.00	\$ 800.00
DRAINAGE TOTAL						\$ 7,210.00			\$ 10,954.00		\$ 4,560.00		\$ 5,900.00
PAVEMENT													
21	301	6	CU YD	ASPHALT CONCRETE BASE (4")	\$ 175.00	\$ 1,050.00	\$ 277.67	\$ 260.00	\$ 1,560.00	\$ 323.00	\$ 1,938.00	\$ 250.00	\$ 1,500.00
22	304	8	CU YD	6" AGGREGATE BASE	\$ 60.00	\$ 480.00	\$ 43.33	\$ 40.00	\$ 320.00	\$ 50.00	\$ 400.00	\$ 40.00	\$ 320.00
23	304	84	CU YD	12" AGGREGATE BASE	\$ 60.00	\$ 5,040.00	\$ 46.67	\$ 40.00	\$ 3,360.00	\$ 60.00	\$ 5,040.00	\$ 40.00	\$ 3,360.00
24	407	98	GALLON	TACK COAT	\$ 3.00	\$ 294.00	\$ 2.92	\$ 2.00	\$ 196.00	\$ 1.75	\$ 171.50	\$ 5.00	\$ 490.00
25	408	128	GALLON	PRIME COAT	\$ 3.00	\$ 384.00	\$ 3.33	\$ 3.25	\$ 416.00	\$ 1.75	\$ 224.00	\$ 5.00	\$ 640.00
26	448	31	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	\$ 225.00	\$ 6,975.00	\$ 247.00	\$ 265.00	\$ 8,215.00	\$ 196.00	\$ 6,076.00	\$ 280.00	\$ 8,680.00
27	448	34	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	\$ 250.00	\$ 8,500.00	\$ 258.33	\$ 280.00	\$ 9,520.00	\$ 215.00	\$ 7,310.00	\$ 280.00	\$ 9,520.00
28	617	6	CU YD	RECONDITIONING OF SHOULDERS	\$ 70.00	\$ 420.00	\$ 76.67	\$ 60.00	\$ 360.00	\$ 130.00	\$ 780.00	\$ 40.00	\$ 240.00
PAVEMENT TOTAL						\$ 23,143.00			\$ 23,947.00		\$ 21,939.50		\$ 24,750.00
TRAFFIC CONTROL													
29	642	0.06	MILE	CENTER LINE, TYPE 1	\$ 12,500.00	\$ 750.00	\$ 10,596.33	\$ 11,789.00	\$ 707.34	\$ 10,000.00	\$ 600.00	\$ 10,000.00	\$ 600.00
30	642	0.11	MILE	EDGE LINE, TYPE 1	\$ 12,500.00	\$ 1,375.00	\$ 10,548.00	\$ 11,644.00	\$ 1,280.84	\$ 10,000.00	\$ 1,100.00	\$ 10,000.00	\$ 1,100.00
TRAFFIC CONTROL TOTAL						\$ 2,125.00			\$ 1,988.18		\$ 1,700.00		\$ 1,700.00
BRIDGE 5-2HJ.0 TOTAL													
31	202	1	LUMP	STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	\$ 18,000.00	\$ 18,000.00	\$ 11,666.67	\$ 15,000.00	\$ 15,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
32	202	77	SQ YD	WEARING COURSE REMOVED	\$ 10.00	\$ 770.00	\$ 5.50	\$ 5.00	\$ 385.00	\$ 7.50	\$ 577.50	\$ 4.00	\$ 308.00
33	203	620	TON	GRANULAR EMBANKMENT #89 STONE	\$ 25.00	\$ 15,500.00	\$ 38.88	\$ 24.64	\$ 15,276.80	\$ 48.00	\$ 29,760.00	\$ 44.00	\$ 27,280.00
34	203	450	TON	GRANULAR EMBANKMENT #304 STONE	\$ 30.00	\$ 13,500.00	\$ 36.33	\$ 15.00	\$ 6,750.00	\$ 58.00	\$ 26,100.00	\$ 36.00	\$ 16,200.00
35	204	3,310	SQ YD	SPECIAL - HIGH STRENGTH WOVEN POLYPROPYLENE FABRIC	\$ 4.00	\$ 13,240.00	\$ 3.50	\$ 3.50	\$ 11,585.00	\$ 3.00	\$ 9,930.00	\$ 4.00	\$ 13,240.00
36	204	666	SQ YD	SPECIAL - MEDIUM STRENGTH WOVEN POLYPROPYLENE FABRIC	\$ 5.00	\$ 3,330.00	\$ 3.17	\$ 3.50	\$ 2,331.00	\$ 3.00	\$ 1,998.00	\$ 3.00	\$ 1,998.00
37	503	1	LUMP	UNCLASSIFIED EXCAVATION	\$ 18,000.00	\$ 18,000.00	\$ 18,960.00	\$ 18,000.00	\$ 18,000.00	\$ 8,000.00	\$ 8,000.00	\$ 30,880.00	\$ 30,880.00
38	511	3	CU YD	CLASS QC 1 CONCRETE, AS PER PLAN	\$ 475.00	\$ 1,425.00	\$ 450.00	\$ 450.00	\$ 1,350.00	\$ 400.00	\$ 1,200.00	\$ 500.00	\$ 1,500.00
39	512	133	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	\$ 20.00	\$ 2,660.00	\$ 2.33	\$ 5.00	\$ 665.00	\$ 1.00	\$ 133.00	\$ 1.00	\$ 133.00
40	512	174	SQ YD	TYPE 3 WATERPROOFING	\$ 30.00	\$ 5,226.67	\$ 29.67	\$ 29.00	\$ 5,046.00	\$ 30.00	\$ 5,220.00	\$ 30.00	\$ 5,220.00
41	515	8	EACH	PRESTRESSED CONCRETE NON-COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, B21-48	\$ 11,000.00	\$ 88,000.00	\$ 9,935.00	\$ 10,200.00	\$ 81,600.00	\$ 9,555.00	\$ 76,440.00	\$ 10,050.00	\$ 80,400.00
42	517	84.33	FT	RAILING (TWIN STEEL TUBE)	\$ 120.00	\$ 10,120.00	\$ 128.83	\$ 121.50	\$ 10,246.10	\$ 120.00	\$ 10,119.60	\$ 145.00	\$ 12,227.85
43	518	91	FT	SPECIAL - STEEL DRIP STRIP	\$ 12.00	\$ 1,092.00	\$ 9.67	\$ 11.00	\$ 1,001.00	\$ 10.00	\$ 910.00	\$ 8.00	\$ 728.00
44	704	916	EACH	SPLITFACE CONCRETE MASONRY BLOCK	\$ 8.00	\$ 7,328.00	\$ 8.33	\$ 5.00	\$ 4,580.00	\$ 8.00	\$ 7,328.00	\$ 12.00	\$ 10,992.00
45	704	762	EACH	SOLID CONCRETE MASONRY BLOCK	\$ 10.00	\$ 7,620.00	\$ 9.00	\$ 5.00	\$ 3,810.00	\$ 10.00	\$ 7,620.00	\$ 12.00	\$ 9,144.00
46	SPECIAL	1	LUMP	BEAM SEAT CONSTRUCTION	\$ 3,000.00	\$ 3,000.00	\$ 3,500.00	\$ 4,000.00	\$ 4,000.00	\$ 2,500.00	\$ 2,500.00	\$ 4,000.00	\$ 4,000.00
BRIDGE 5-2HJ.0 TOTAL						\$ 208,811.67			\$ 181,625.90		\$ 197,836.10		\$ 224,250.85
INCIDENTALS													
47	103	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND MAINTENANCE GUARANTEE BOND	\$ 3,765.33	\$ 3,765.33	\$ 3,583.33	\$ 4,000.00	\$ 4,000.00	\$ 3,250.00	\$ 3,250.00	\$ 3,500.00	\$ 3,500.00
48	614	1	LUMP	MAINTAINING TRAFFIC	\$ 5,000.00	\$ 5,000.00	\$ 3,616.67	\$ 5,000.00	\$ 5,000.00	\$ 3,850.00	\$ 3,850.00	\$ 2,000.00	\$ 2,000.00
49	623	1	LUMP	CONSTRUCTION LAYOUT AND STAKING	\$ 4,000.00	\$ 4,000.00	\$ 4,166.67	\$ 4,000.00	\$ 4,000.00	\$ 3,000.00	\$ 3,000.00	\$ 5,500.00	\$ 5,500.00
INCIDENTALS TOTAL						\$ 12,765.33			\$ 13,000.00		\$ 10,100.00		\$ 11,000.00
BID TOTAL						\$ 297,000.00			\$ 262,626.08		\$ 275,356.60		\$ 312,384.10
							R. G. Zachrich Construction, Inc.		Vernon Nagel, Inc.		B. Hill'z Excavating, Inc.		
							-11.6%		-7.3%		5.2%		
							% Difference from Engineer's Estimate						