

OFFICE OF THE FULTON COUNTY ENGINEER

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

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ENGINEER'S ESTIMATE				ENGINEER'S	Average Bid	Heer Excavating, Inc.	R.G. Zachrich Constr., Inc.	Vernon Nagel, Inc.	B. Hill'z Excavating, Inc.	Miller Brothers Constr., Inc.	Posen Construction, Inc.						
PROJECT: Bridge RS11-2.2 Replacement				\$199,359.00	Unit Price	\$160,939.30	\$176,979.55	\$179,345.00	\$183,519.00	\$189,566.70	\$281,398.50						
DATE: March 2009					-12.1%	-19.3%	-11.2%	-10.0%	-7.9%	-4.9%	41.2%						
REF. NO.	ITEM NO.	QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST	UNIT PRICE	ESTIMATED COST	
<b>EARTHWORK</b>																	
1	201	1.0	LUMP	Clearing and Grubbing .....	\$ 2,000.00	\$ 2,000.00	\$ 2,375.00	\$ 1,000.00	\$ 1,000.00	\$ 3,000.00	\$ 3,000.00	\$ 1,700.00	\$ 1,700.00	\$ 5,175.00	\$ 5,175.00	\$ 1,000.00	\$ 1,000.00
2	202	68.0	SY	Pavement Removed for Butt Joints .....	\$ 10.00	\$ 680.00	\$ 9.45	\$ 9.25	\$ 629.00	\$ 9.00	\$ 612.00	\$ 9.00	\$ 612.00	\$ 10.00	\$ 680.00	\$ 10.00	\$ 680.00
3	202	100.0	FT	Guardrail Removed .....	\$ 2.50	\$ 250.00	\$ 2.10	\$ 1.50	\$ 150.00	\$ 2.00	\$ 200.00	\$ 1.50	\$ 150.00	\$ 4.00	\$ 400.00	\$ 1.50	\$ 150.00
4	203	169.0	CY	Excavation not including Embankment .....	\$ 30.00	\$ 5,070.00	\$ 21.20	\$ 24.00	\$ 4,056.00	\$ 32.00	\$ 5,408.00	\$ 20.00	\$ 3,380.00	\$ 10.00	\$ 1,690.00	\$ 20.00	\$ 3,380.00
5	203	17.0	CY	Embankment.....	\$ 35.00	\$ 595.00	\$ 27.40	\$ 15.00	\$ 255.00	\$ 32.00	\$ 544.00	\$ 60.00	\$ 1,020.00	\$ 10.00	\$ 170.00	\$ 20.00	\$ 340.00
6	204	204.0	SY	Subgrade Compaction.....	\$ 2.50	\$ 510.00	\$ 1.75	\$ 0.75	\$ 153.00	\$ 1.50	\$ 306.00	\$ 3.00	\$ 612.00	\$ 2.00	\$ 408.00	\$ 1.50	\$ 306.00
7	207	112.0	FT	Filter Fabric Fence.....	\$ 2.50	\$ 280.00	\$ 1.80	\$ 1.50	\$ 168.00	\$ 2.00	\$ 224.00	\$ 2.00	\$ 224.00	\$ 1.00	\$ 112.00	\$ 2.50	\$ 280.00
8	606	125.0	FT	Type 5 Guardrail, Modified .....	\$ 30.00	\$ 3,750.00	\$ 22.83	\$ 23.75	\$ 2,968.75	\$ 20.00	\$ 2,500.00	\$ 23.20	\$ 2,900.00	\$ 24.00	\$ 3,000.00	\$ 23.20	\$ 2,900.00
9	606	4.0	EACH	Flared End Section (Guardrail).....	\$ 50.00	\$ 200.00	\$ 52.80	\$ 49.00	\$ 196.00	\$ 70.00	\$ 280.00	\$ 47.50	\$ 190.00	\$ 50.00	\$ 200.00	\$ 47.50	\$ 190.00
<b>EARTHWORK TOTAL.....</b>					<b>\$ 13,335.00</b>		<b>\$ 9,575.75</b>	<b>\$ 13,074.00</b>	<b>\$ 10,788.00</b>	<b>\$ 11,835.00</b>	<b>\$ 9,226.00</b>	<b>\$ 20,807.50</b>					
<b>DRAINAGE</b>																	
10	601	111.0	TON	Rock Channel Protection without Filter, Type C.....	\$ 40.00	\$ 4,440.00	\$ 38.80	\$ 26.00	\$ 2,886.00	\$ 43.00	\$ 4,773.00	\$ 35.00	\$ 3,885.00	\$ 43.00	\$ 4,773.00	\$ 47.00	\$ 5,217.00
<b>DRAINAGE TOTAL.....</b>					<b>\$ 4,440.00</b>		<b>\$ 2,886.00</b>	<b>\$ 4,773.00</b>	<b>\$ 3,885.00</b>	<b>\$ 4,773.00</b>	<b>\$ 5,217.00</b>	<b>\$ 7,770.00</b>					
<b>PAVEMENT</b>																	
11	304	68.0	CY	Aggregate Base (12").....	\$ 54.00	\$ 3,672.00	\$ 52.20	\$ 37.00	\$ 2,516.00	\$ 64.00	\$ 4,352.00	\$ 50.00	\$ 3,400.00	\$ 45.00	\$ 3,060.00	\$ 65.00	\$ 4,420.00
12	407	27.0	GAL	Tack Coat (0.10 Gal./S.Y.).....	\$ 1.50	\$ 40.50	\$ 2.08	\$ 1.80	\$ 48.60	\$ 1.80	\$ 48.60	\$ 2.00	\$ 54.00	\$ 3.00	\$ 81.00	\$ 1.80	\$ 48.60
13	408	82.0	GAL	Bituminous Prime Coat (0.40 Gal./S.Y.).....	\$ 5.00	\$ 410.00	\$ 5.40	\$ 6.00	\$ 492.00	\$ 6.00	\$ 492.00	\$ 6.00	\$ 492.00	\$ 3.00	\$ 246.00	\$ 6.00	\$ 492.00
14	448	14.0	CY	Asphalt Concrete Intermediate Course, Type 2, PG 64-22 (2.5").....	\$ 300.00	\$ 4,200.00	\$ 221.20	\$ 221.00	\$ 3,094.00	\$ 220.00	\$ 3,080.00	\$ 225.00	\$ 3,150.00	\$ 220.00	\$ 3,080.00	\$ 220.00	\$ 3,080.00
15	448	9.0	CY	Asphalt Concrete Surface Course, Type 1, PG 64-22 (1.25").....	\$ 325.00	\$ 2,925.00	\$ 282.20	\$ 301.00	\$ 2,709.00	\$ 300.00	\$ 2,700.00	\$ 290.00	\$ 2,610.00	\$ 220.00	\$ 1,980.00	\$ 300.00	\$ 2,700.00
<b>PAVEMENT TOTAL.....</b>					<b>\$ 11,247.50</b>		<b>\$ 8,859.60</b>	<b>\$ 10,672.60</b>	<b>\$ 9,706.00</b>	<b>\$ 8,447.00</b>	<b>\$ 10,740.60</b>	<b>\$ 11,922.00</b>					
<b>INCIDENTALS</b>																	
16	103	1.00	LUMP	Premium for Contract Performance Bond and Maintenance Guarantee Bond.....	\$ 2,900.00	\$ 2,900.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 3,000.00	\$ 3,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 2,000.00	\$ 1,000.00	\$ 1,000.00
17	614	1.0	LUMP	Maintaining Traffic .....	\$ 3,500.00	\$ 3,500.00	\$ 3,860.00	\$ 3,300.00	\$ 3,300.00	\$ 6,000.00	\$ 6,000.00	\$ 2,500.00	\$ 2,500.00	\$ 3,000.00	\$ 3,000.00	\$ 4,500.00	\$ 4,500.00
18	623	1.00	LUMP	Construction Layout and Staking.....	\$ 3,750.00	\$ 3,750.00	\$ 2,270.00	\$ 1,200.00	\$ 1,200.00	\$ 2,000.00	\$ 2,000.00	\$ 6,500.00	\$ 6,500.00	\$ 850.00	\$ 850.00	\$ 800.00	\$ 800.00
<b>INCIDENTALS TOTAL.....</b>					<b>\$ 10,150.00</b>		<b>\$ 6,500.00</b>	<b>\$ 11,000.00</b>	<b>\$ 11,000.00</b>	<b>\$ 5,850.00</b>	<b>\$ 6,300.00</b>	<b>\$ 13,500.00</b>					
<b>BRIDGE RS11-2.2</b>																	
19	202	1.0	LUMP	Structure Removed.....	\$ 20,500.00	\$ 20,500.00	\$ 12,430.00	\$ 6,500.00	\$ 6,500.00	\$ 10,000.00	\$ 10,000.00	\$ 13,000.00	\$ 13,000.00	\$ 19,850.00	\$ 19,850.00	\$ 12,800.00	\$ 12,800.00
20	407	14.0	GAL	Tack Coat (0.10 Gal./S.Y.).....	\$ 1.50	\$ 21.00	\$ 2.08	\$ 1.80	\$ 25.20	\$ 1.80	\$ 25.20	\$ 2.00	\$ 28.00	\$ 3.00	\$ 42.00	\$ 1.80	\$ 25.20
21	448	7.0	CY	Asphalt Concrete Intermediate Course, Type 2, PG 64-22 (Variable Thk.).....	\$ 300.00	\$ 2,100.00	\$ 221.20	\$ 221.00	\$ 1,547.00	\$ 220.00	\$ 1,540.00	\$ 225.00	\$ 1,575.00	\$ 220.00	\$ 1,540.00	\$ 220.00	\$ 1,540.00
22	448	5.0	CY	Asphalt Concrete Surface Course, Type 1, PG 64-22 (1.25").....	\$ 325.00	\$ 1,625.00	\$ 282.20	\$ 301.00	\$ 1,505.00	\$ 300.00	\$ 1,500.00	\$ 290.00	\$ 1,450.00	\$ 220.00	\$ 1,100.00	\$ 300.00	\$ 1,500.00
23	503	119.0	CY	Unclassified Excavation, As Per Plan.....	\$ 60.00	\$ 7,140.00	\$ 38.80	\$ 22.00	\$ 2,618.00	\$ 32.00	\$ 3,808.00	\$ 60.00	\$ 7,140.00	\$ 30.00	\$ 3,570.00	\$ 50.00	\$ 5,950.00
24	505	1.0	LUMP	Pile Driving Equipment Mobilization.....	\$ 15,000.00	\$ 15,000.00	\$ 5,720.00	\$ 5,600.00	\$ 5,600.00	\$ 8,000.00	\$ 8,000.00	\$ 5,000.00	\$ 5,000.00	\$ 4,000.00	\$ 4,000.00	\$ 6,000.00	\$ 6,000.00
25	507	420.0	FT	Steel Piles HP12x53, As Per Plan.....	\$ 36.00	\$ 15,120.00	\$ 39.10	\$ 40.50	\$ 17,010.00	\$ 35.00	\$ 14,700.00	\$ 35.00	\$ 14,700.00	\$ 45.00	\$ 18,900.00	\$ 40.00	\$ 16,800.00
26	509	5,773.0	POUND	Epoxy Coated Reinforcing Steel, Grade 60.....	\$ 1.0999	\$ 6,350.00	\$ 1.10	\$ 1.20	\$ 6,927.60	\$ 1.00	\$ 5,773.00	\$ 1.00	\$ 5,773.00	\$ 1.00	\$ 5,773.00	\$ 1.30	\$ 7,504.90

27	511	58.0	CY	Class C Concrete, Abutment Including Footing.....	\$ 425.00	\$ 24,650.00	\$ 384.00	\$ 370.00	\$ 21,460.00	\$ 250.00	\$ 14,500.00	\$ 375.00	\$ 21,750.00	\$ 425.00	\$ 24,650.00	\$ 500.00	\$ 29,000.00	\$ 585.00	\$ 33,930.00
28	SPEC	135.0	SY	Special - Waterproofing, Misc.: Reinf. Membrane-Geotac Polyester HS.....	\$ 16.00	\$ 2,160.00	\$ 30.78	\$ 37.00	\$ 4,995.00	\$ 22.90	\$ 3,091.50	\$ 26.00	\$ 3,510.00	\$ 45.00	\$ 6,075.00	\$ 23.00	\$ 3,105.00	\$ 35.00	\$ 4,725.00
29	SPEC	121.0	SY	Special - Sealing of Concrete Surfaces (Epoxy Urethane).....	\$ 13.2562	\$ 1,604.00	\$ 12.45	\$ 9.25	\$ 1,119.25	\$ 10.00	\$ 1,210.00	\$ 15.00	\$ 1,815.00	\$ 8.00	\$ 968.00	\$ 20.00	\$ 2,420.00	\$ 25.00	\$ 3,025.00
30	SPEC	95.0	FT	Steel Drip Strip .....	\$ 9.50	\$ 902.50	\$ 8.47	\$ 9.00	\$ 855.00	\$ 8.35	\$ 793.25	\$ 10.00	\$ 950.00	\$ 7.00	\$ 665.00	\$ 8.00	\$ 760.00	\$ 24.00	\$ 2,280.00
31	515	7.0	EACH	Prestressed Conc. Box Beam, 41.38' Long, B21-48 with Type 1 Post .....	\$ 7,605.00	\$ 53,235.00	\$ 7,836.20	\$ 7,200.00	\$ 50,400.00	\$ 8,581.00	\$ 60,067.00	\$ 7,600.00	\$ 53,200.00	\$ 7,700.00	\$ 53,900.00	\$ 8,100.00	\$ 56,700.00	\$ 9,000.00	\$ 63,000.00
32	516	109.0	SF	1" Preformed Expansion Joint Filler.....	\$ 5.00	\$ 545.00	\$ 5.14	\$ 3.70	\$ 403.30	\$ 10.00	\$ 1,090.00	\$ 8.00	\$ 872.00	\$ 2.00	\$ 218.00	\$ 2.00	\$ 218.00	\$ 4.00	\$ 436.00
33	516	65.0	FT	2" Deep Joint Sealer, 705.04, As Per Plan.....	\$ 7.00	\$ 455.00	\$ 2.94	\$ 3.70	\$ 240.50	\$ 2.00	\$ 130.00	\$ 2.00	\$ 130.00	\$ 5.00	\$ 325.00	\$ 2.00	\$ 130.00	\$ 4.00	\$ 260.00
34	SPEC	63.0	FT	Sawing and Sealing Bituminous Concrete Joints.....	\$ 10.00	\$ 630.00	\$ 20.06	\$ 5.30	\$ 333.90	\$ 30.00	\$ 1,890.00	\$ 30.00	\$ 1,890.00	\$ 5.00	\$ 315.00	\$ 30.00	\$ 1,890.00	\$ 35.00	\$ 2,205.00
35	516	28.0	EACH	Elastomeric Bearing Pad (Neoprene) 1"x 5"x 12" .....	\$ 35.00	\$ 980.00	\$ 38.30	\$ 30.50	\$ 854.00	\$ 45.00	\$ 1,260.00	\$ 35.00	\$ 980.00	\$ 31.00	\$ 868.00	\$ 50.00	\$ 1,400.00	\$ 35.00	\$ 980.00
36	516	28.0	EACH	1/8" Preformed Bearing Pad, 711.21.....	\$ 5.75	\$ 161.00	\$ 4.03	\$ 0.15	\$ 4.20	\$ 6.00	\$ 168.00	\$ 7.00	\$ 196.00	\$ 5.00	\$ 140.00	\$ 2.00	\$ 56.00	\$ 5.00	\$ 140.00
37	517	100.0	FT	Railing (Deep Beam Rail with Type 1 Post and A. Bolts).....	\$ 33.00	\$ 3,300.00	\$ 61.26	\$ 66.00	\$ 6,600.00	\$ 43.50	\$ 4,350.00	\$ 63.80	\$ 6,380.00	\$ 67.00	\$ 6,700.00	\$ 66.00	\$ 6,600.00	\$ 64.00	\$ 6,400.00
38	518	45.0	CY	Porous Backfill with Filter Fabric.....	\$ 57.00	\$ 2,565.00	\$ 54.80	\$ 64.00	\$ 2,880.00	\$ 60.00	\$ 2,700.00	\$ 55.00	\$ 2,475.00	\$ 35.00	\$ 1,575.00	\$ 60.00	\$ 2,700.00	\$ 55.00	\$ 2,475.00
39	518	100.0	FT	6" Perforated Corrugated Plastic Pipe, As Per Plan.....	\$ 7.25	\$ 725.00	\$ 7.40	\$ 8.00	\$ 800.00	\$ 6.00	\$ 600.00	\$ 8.00	\$ 800.00	\$ 10.00	\$ 1,000.00	\$ 5.00	\$ 500.00	\$ 7.00	\$ 700.00
40	518	44.0	FT	6" Non-Perforated Corrugated Plastic Pipe Including Specials, As Per Plan.....	\$ 9.50	\$ 418.00	\$ 9.00	\$ 10.00	\$ 440.00	\$ 6.00	\$ 264.00	\$ 8.00	\$ 352.00	\$ 10.00	\$ 440.00	\$ 11.00	\$ 484.00	\$ 7.00	\$ 308.00
<b>BRIDGE 1-1F.4 TOTAL.....</b>					<b>\$ 160,186.50</b>			<b>\$ 133,117.95</b>		<b>\$ 137,459.95</b>		<b>\$ 143,966.00</b>		<b>\$ 152,614.00</b>		<b>\$ 158,083.10</b>		<b>\$ 227,399.00</b>	
<b>BID TOTAL .....</b>					<b>\$ 199,359.00</b>			<b>\$ 160,939.30</b>		<b>\$ 176,979.55</b>		<b>\$ 179,345.00</b>		<b>\$ 183,519.00</b>		<b>\$ 189,566.70</b>		<b>\$ 281,398.50</b>	
								Heer Excavating, Inc.		R.G. Zachrich Constr., Inc.		Vernon Nagel, Inc.		B. Hill'z Excavating, Inc.		Miller Brothers Constr., Inc.		Posen Construction, Inc.	
% Difference from Engineer's Estimate								-19.3%		-11.2%		-10.0%		-7.9%		-4.9%		41.2%	