

# Replacement of Bridge BEN-19-4.70 Graytown Road Over Turtle Creek

					Engineer's Estimate		R & I Construction		RG Zachrich Const	
LINE	ITEM	QTY	UNITS	DESCRIPTION	EST. UNIT COST	TOTAL	BID PRICE	TOTAL	BID PRICE	TOTAL
<b>ROADWAY</b>										
1	201	Lump Sum		Clearing and Grubbing	Lump Sum	\$ 1,000.00	Lump Sum	\$ 500.00	Lump Sum	\$ 1,000.00
2	202	170 Sq Yd		Pavement Removed	\$ 5.00	\$ 850.00	5.00	\$ 850.00	10.00	\$ 1,700.00
3	202	56 Ft		Pipe Removed, over 24"	\$ 10.00	\$ 560.00	3.00	\$ 168.00	10.00	\$ 560.00
4	202	271 Ft		Guardrail Removed	\$ 3.00	\$ 813.00	1.00	\$ 271.00	1.60	\$ 433.60
5	203	20 Cu Yd		Excavation	\$ 15.00	\$ 300.00	15.00	\$ 300.00	15.00	\$ 300.00
6	203	119 Cu Yd		Embankment	\$ 20.00	\$ 2,380.00	15.00	\$ 1,785.00	20.00	\$ 2,380.00
7	606	150 Ft		Guardrail, Type MGS	\$ 17.00	\$ 2,550.00	14.80	\$ 2,220.00	14.80	\$ 2,220.00
8	606	4 Each		Anchor Assembly, MSG Type E	\$ 2,100.00	\$ 8,400.00	1,785.00	\$ 7,140.00	1,785.00	\$ 7,140.00
9	606	4 Each		MGS Bridge Terminal Assembly, Type 1	\$ 2,000.00	\$ 8,000.00	1,880.00	\$ 7,520.00	1,880.00	\$ 7,520.00
<b>EROSION CONTROL</b>										
10	659	740 Sq Yd		Seeding and Mulching	\$ 1.00	\$ 740.00	2.00	\$ 1,480.00	3.20	\$ 2,368.00
11	659	0.10 Ton		Commercial Fertilizer	\$ 600.00	\$ 60.00	600.00	\$ 60.00	500.00	\$ 50.00
12	659	0.15 Acre		Lime	\$ 200.00	\$ 30.00	10.00	\$ 1.50	100.00	\$ 15.00
13	659	2.0 Mgal		Water	\$ 10.00	\$ 20.00	1.00	\$ 2.00	1.00	\$ 2.00
14	832	500 Each		Erosion Control	\$ 1.00	\$ 500.00	0.25	\$ 125.00	1.00	\$ 500.00
<b>DRAINAGE</b>										
15	811	20 Ft		8" Conduit, Type F, As Per Plan	\$ 30.00	\$ 600.00	5.00	\$ 100.00	10.00	\$ 200.00
16	811	58 Ft		36" Conduit, Type C	\$ 50.00	\$ 2,900.00	60.00	\$ 3,480.00	50.00	\$ 2,900.00
17	811	1 Each		Catch Basin, No. 2-5, As Per Plan	\$ 1,800.00	\$ 1,800.00	4,500.00	\$ 4,500.00	3,500.00	\$ 3,500.00
<b>PAVEMENT</b>										
18	301	55 Ton		Asphalt Concrete Base, PG64-22	\$ 75.00	\$ 4,125.00	85.00	\$ 4,675.00	85.00	\$ 4,675.00
19	304	89 Ton		Aggregate Base	\$ 40.00	\$ 3,560.00	28.00	\$ 2,492.00	40.00	\$ 3,560.00
20	407	13 Gal		Tack Coat	\$ 3.00	\$ 39.00	2.00	\$ 26.00	2.00	\$ 26.00
21	407	7 Gal		Tack Coat for Intermediate Course	\$ 3.00	\$ 21.00	2.00	\$ 14.00	2.00	\$ 14.00
22	411	53 Ton		Stabilized Crushed Aggregate	\$ 40.00	\$ 2,120.00	40.00	\$ 2,120.00	40.00	\$ 2,120.00
23	448	16 Ton		Asphalt Concrete Intermediate Course, Type 2, PG64-22	\$ 85.00	\$ 1,360.00	86.50	\$ 1,384.00	86.50	\$ 1,384.00
24	448	11 Ton		Asphalt Concrete Surface Course, Type 1, PG64-22	\$ 90.00	\$ 990.00	96.00	\$ 1,056.00	96.00	\$ 1,056.00
<b>TRAFFIC CONTROL</b>										
25	614	Lump Sum		Detour Signing	Lump Sum	\$ 2,000.00	Lump Sum	\$ 1,000.00	Lump Sum	\$ 2,500.00
26	626	12 Each		Barrier Reflector	\$ 10.00	\$ 120.00	6.00	\$ 72.00	5.95	\$ 71.40
<b>INCIDENTALS</b>										
27	103	Lump Sum		Premium for Contract Performance Bond and for Payment Bond	Lump Sum	\$ 3,500.00	Lump Sum	\$ 5,000.00	Lump Sum	\$ 5,000.00
28	614	Lump Sum		Maintaining Traffic	Lump Sum	\$ 1,500.00	Lump Sum	\$ 2,000.00	Lump Sum	\$ 2,000.00
29	623	Lump Sum		Construction Layout Staking	Lump Sum	\$ 3,000.00	Lump Sum	\$ 1,500.00	Lump Sum	\$ 3,000.00
30	624	Lump Sum		Mobilization	Lump Sum	\$ 14,000.00	Lump Sum	\$ 15,000.00	Lump Sum	\$ 16,600.00
<b>BRIDGE OVER 20 FOOT SPAN</b>										
31	202	Lump Sum		Portions of Structure Removed, Over 20 Foot Span	Lump Sum	\$ 27,000.00	Lump Sum	\$ 35,725.00	Lump Sum	\$ 30,000.00
32	202	112 Sq Yd		Wearing Course Removed	\$ 6.00	\$ 672.00	14.00	\$ 1,568.00	14.00	\$ 1,568.00
33	407	13 Gal		Tack Coat	\$ 3.00	\$ 39.00	2.00	\$ 26.00	2.00	\$ 26.00
34	407	7 Gal		Tack Coat for Intermediate Course	\$ 3.00	\$ 21.00	2.00	\$ 14.00	2.00	\$ 14.00
35	448	23 Ton		Asphalt Concrete Intermediate Course, Type 2, PG64-22	\$ 85.00	\$ 1,955.00	86.50	\$ 1,989.50	86.50	\$ 1,989.50
36	448	12 Ton		Asphalt Concrete Surface Course, Type 1, PG64-22	\$ 90.00	\$ 1,080.00	96.00	\$ 1,152.00	96.00	\$ 1,152.00
37	503	Lump Sum		Cofferdams and Excavation Bracing	Lump Sum	\$ 5,000.00	Lump Sum	\$ 500.00	Lump Sum	\$ 4,000.00
38	503	Lump Sum		Unclassified Excavation	Lump Sum	\$ 3,500.00	Lump Sum	\$ 5,000.00	Lump Sum	\$ 9,670.00
39	505	Lump Sum		Pile Driving Equipment Mobilization	Lump Sum	\$ 15,000.00	Lump Sum	\$ 5,000.00	Lump Sum	\$ 17,500.00
40	507	660 Ft		Steel Piles HP10x42, Furnished	\$ 25.00	\$ 16,500.00	35.00	\$ 23,100.00	20.00	\$ 13,200.00
41	507	600 Ft		Steel Piles HP10x42, Driven	\$ 15.00	\$ 9,000.00	5.00	\$ 3,000.00	2.50	\$ 1,500.00
42	507	12 Each		Steel Points or Shoes	\$ 100.00	\$ 1,200.00	100.00	\$ 1,200.00	85.00	\$ 1,020.00
43	509	5212 Pound		Epoxy Coated Reinforcing Steel	\$ 1.50	\$ 7,818.00	1.75	\$ 9,121.00	1.50	\$ 7,818.00
44	511	56 Cu Yd		Class QC1 Concrete, Abutment Including Footing	\$ 600.00	\$ 33,600.00	450.00	\$ 25,200.00	543.00	\$ 30,408.00
45	512	80 Sq Yd		Sealing of Concrete Surfaces (Non-Epoxy)	\$ 20.00	\$ 1,600.00	20.00	\$ 1,600.00	20.00	\$ 1,600.00
46	512	205 Sq Yd		Type 3 Waterproofing, As Per Plan	\$ 30.00	\$ 6,150.00	25.00	\$ 5,125.00	30.00	\$ 6,150.00
47	515	7 Each		Prestressed Concrete Non-Composite Box Beam Bridge Members, Level 1, B27x48	\$12,500.00	\$ 87,500.00	12,143.00	\$ 85,001.00	12,200.00	\$ 85,400.00
48	516	27 Sq Ft		1/2" Preformed Expansion Joint Filler	\$ 4.00	\$ 108.00	4.00	\$ 108.00	4.00	\$ 108.00
49	516	128 Sq Ft		1" Preformed Expansion Joint Filler	\$ 4.00	\$ 512.00	4.00	\$ 512.00	4.00	\$ 512.00
50	516	40 Ft		Special - Sawing and Sealing Bituminous Concrete Joints	\$ 20.00	\$ 800.00	10.00	\$ 400.00	40.00	\$ 1,600.00
51	516	14 Each		1/8" Preformed Bearing Pad, 711.21	\$ 10.00	\$ 140.00	8.00	\$ 112.00	1.00	\$ 14.00
52	516	28 Each		Elastomeric Bearing with Internal Laminates Only (Neoprene) (6"x14"x1.25")	\$ 100.00	\$ 2,800.00	90.00	\$ 2,520.00	90.00	\$ 2,520.00
53	517	121.25 Ft		Railing (Twin Steel Tube)	\$ 125.00	\$ 15,156.25	116.00	\$ 14,065.00	116.00	\$ 14,065.00
54	518	43 Cu Yd		Porous Backfill with Filter Fabric	\$ 50.00	\$ 2,150.00	50.00	\$ 2,150.00	50.00	\$ 2,150.00
55	518	131 Ft		Steel Drip Strip	\$ 12.00	\$ 1,572.00	8.00	\$ 1,048.00	12.00	\$ 1,572.00
56	518	94 Ft		6" Perforated Corrugated Plastic Pipe	\$ 10.00	\$ 940.00	8.00	\$ 752.00	10.00	\$ 940.00
57	518	28 Ft		6" Non-Perforated Corrugated Plastic Pipe	\$ 10.00	\$ 280.00	8.00	\$ 224.00	10.00	\$ 280.00
58	601	58 Ton		Rock Channel Protection, Type C with Fabric Filter	\$ 45.00	\$ 2,610.00	35.00	\$ 2,030.00	55.00	\$ 3,190.00
59	690	Lump Sum		Special - Misc: Aesbestos Abatement	Lump Sum	\$ 5,000.00	Lump Sum	\$ 7,000.00	Lump Sum	\$ 22,000.00
<b>TOTAL</b>						<b>\$317,541.25</b>		<b>\$302,084.00</b>		<b>\$336,761.50</b>