

**Preliminary Engineer's Estimate
12th Street Bridge Replacement Project**

Item	Description	Quantity	Unit	Unit Price	Total Amount
Preparation					
1	Mobilization (8%)	1	LS	\$400,000.00	\$400,000.00
2	Clearing and Grubbing	0.2	AC	\$5,000.00	\$1,000.00
3	Removing Drainage Structure	10	EA	\$600.00	\$6,000.00
4	Removal of Structure and Obstruction (Pavement)	1	LS	\$10,000.00	\$10,000.00
5	Removing Existing Signal System	1	LS	\$5,000.00	\$5,000.00
6	Removing Existing Structure (Retaining Wall)	1	LS	\$1,500.00	\$1,500.00
7	Removing Existing Bridge (and Containment Plan)	1	LS	\$900,000.00	\$900,000.00
8	Removing Paint Line	200	LF	\$3.00	\$600.00
9	Removing Plastic Line	100	LF	\$4.00	\$400.00
Grading					
10	Roadway Excavation Incl. Haul (18")	250	CY	\$50.00	\$12,500.00
11	Gravel Borrow Incl. Haul (12" Min.)	200	TN	\$29.00	\$5,800.00
12	Embankment Compaction	170	CY	\$12.00	\$2,040.00
Drainage					
13	Light Loose Riprap	55	CY	\$60.00	\$3,300.00
14	Underdrain Pipe 6 In. Diam. (wall drain)	150	LF	\$13.00	\$1,950.00
Storm Sewer					
15	Catch Basin Type 1	12	EA	\$1,000.00	\$12,000.00
16	Testing Storm Sewer Pipe	600	LF	\$2.50	\$1,500.00
17	Schedule A Storm Sewer Pipe 12 In. Diam.	600	LF	\$38.00	\$22,800.00
Sanitary Sewer					
18	Sewer Service	0	EA	\$400.00	\$0.00
19	Testing Sewer Pipe	0	LF	\$1.00	\$0.00
20	PVC Sanitary Sewer Pipe 8 In. Diam.	0	LF	\$50.00	\$0.00
21	PVC Sanitary Sewer Forcemain 4 In. Diam.	0	LF	\$20.00	\$0.00
Waterlines					
22	Ductile Iron Pipe for Water Main 12 In. Diam.	0	LF	\$70.00	\$0.00
23	Service Connection	0	EA	\$2,000.00	\$0.00
24	Hydrant Assembly	0	EA	\$4,000.00	\$0.00
Structure					
25	Structure Excavation Class A Incl Haul	150	CY	\$20.00	\$3,000.00
26	Shoring and Extra Structure Excavation Class A	1	LS	\$6,000.00	\$6,000.00
26	Concrete Retaining Wall	2880	SF	\$50.00	\$144,000.00
27	Gravel Backfill for Wall	500	CY	\$20.00	\$10,000.00
27	Furnishing Permanent Casing	240	LF	\$220.00	\$52,800.00
28	New Bridge (330' x 66' Incl. Rail)	1	LS	\$4,356,000.00	\$4,356,000.00
Surfacing					
29	Crushed Surfacing Top Course (6", curbs and sidewalk)	150	TN	\$26.00	\$3,900.00
30	Crushed Surfacing Top Course (4", roadway)	120	TN	\$26.00	\$3,120.00
Cement Concrete Pavement					
31	Cement Conc. Pavement (roundabout truck island, 8")	0	CY	\$350.00	\$0.00
Hot Mix Asphalt					
32	HMA CL. 1/2 In. PG 64-22 (4")	150	TN	\$95.00	\$14,250.00

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	Erosion Control and Planting				
33	ESC Lead	100	DAY	\$110.00	\$11,000.00
34	Check Dam	100	LF	\$15.00	\$1,500.00
35	Stabilized Construction Entrance	400	SY	\$20.00	\$8,000.00
36	Street Cleaning	50	HR	\$150.00	\$7,500.00
37	Inlet Protection	15	EA	\$90.00	\$1,350.00
38	Silt Fence	400	LF	\$4.00	\$1,600.00
39	Erosion/Water Pollution Control	1	EST	\$10,000.00	\$10,000.00
40	Wattle	400	LF	\$5.00	\$2,000.00
41	Seeding, Fertilizing, and Mulching	1	AC	\$3,500.00	\$3,500.00
42	Topsoil Type C	40	CY	\$30.00	\$1,200.00
43	High Visibility Fence	0	LF	\$3.00	\$0.00
44	Landscaping	1	LS	\$10,000.00	\$10,000.00
	Traffic				
45	Cement Concrete Traffic Curb and Gutter	500	LF	\$26.00	\$13,000.00
46	Cement Concrete Traffic Curb	0	LF	\$24.00	\$0.00
47	Roundabout Truck Central Island Cement Concrete Curb	0	LF	\$35.00	\$0.00
48	Roundabout Truck Apron Cement Concrete Curb	0	LF	\$28.00	\$0.00
49	Flexible Guide Post	0	EA	\$35.00	\$0.00
50	Paint Line	300	LF	\$0.35	\$105.00
51	Plastic Wide Line	100	LF	\$4.00	\$400.00
52	Plastic Crosswalk Line	100	LF	\$6.00	\$600.00
53	Plastic Stop Line	50	LF	\$4.00	\$200.00
54	Plastic Traffic Arrow	6	EA	\$105.00	\$630.00
55	Plastic Traffic Letter (Yield)	0	EA	\$105.00	\$0.00
56	Plastic Yield Line Symbol	0	EA	\$100.00	\$0.00
57	Raised Pavement Markers	2	HUN	\$200.00	\$400.00
58	Permanent Signing	1	LS	\$5,000.00	\$5,000.00
59	Illumination System	1	LS	\$50,000.00	\$50,000.00
60	Flaggers and Spotters	320	HR	\$35.00	\$11,200.00
61	Traffic Control Supervisor	160	HR	\$40.00	\$6,400.00
62	Construction Signs Class A	96	SF	\$15.00	\$1,440.00
	Other Items				
63	Gravel Backfill for Drain (wall drain)	30	CY	\$42.00	\$1,260.00
64	Cement Conc. Sidewalk	350	SY	\$50.00	\$17,500.00
65	Cement Conc. Driveway Entrance	2	SY	\$60.00	\$120.00
66	Cement Conc. Sidewalk Ramp	6	EA	\$1,600.00	\$9,600.00
67	Adjust Existing Utility (Water, Power, Gas on Bridge)	1	LS	\$50,000.00	\$50,000.00
68	Trimming and Cleanup	1	LS	\$5,000.00	\$5,000.00
69	SPCC Plan	1	LS	\$1,000.00	\$1,000.00
70	Construction Geotextile for Soil Stabilization	500	SY	\$3.00	\$1,500.00
71	Traffic Signal System (relocate existing)	1	LS	\$35,000.00	\$35,000.00
72	Water Quality and Quantity (in vaults)	1	LS	\$60,000.00	\$60,000.00
73	Right-of-Way	2000	SF	\$5.00	\$10,000.00
				Sub-total	\$6,317,465.00
				Contingency (15%)	\$947,619.75
				Design and Survey (18%)	\$1,137,143.70
				Total	\$8,402,228.45

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assume \$200/sf per Wilder