

City of Saugatuck & Friends of the Blue Star Trail
Blue Star Trail Feasibility Study
Engineer's Pre-Design Estimate of Probable Project Cost



Project: 837010
 Date: 5/28/2019
 By: LMS/JWM

Part 1 - Existing Trail to Kalamazoo River Bridge, Option 1D - Trail within Existing Pavement Width with Buffer

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 2,100.00	\$ 2,100.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 500.00	\$ 500.00
3	Temporary Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00
4	Curb and Gutter, Rem	FT	50	\$ 10.00	\$ 500.00
5	Pavt, Rem	SYD	180	\$ 10.00	\$ 1,800.00
6	Aggregate Base, 8 inch	SYD	165	\$ 10.00	\$ 1,650.00
7	Concrete Curb	FT	300	\$ 20.00	\$ 6,000.00
8	Hand Patching	TON	50	\$ 150.00	\$ 7,500.00
9	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
10	Permanent Signage	LS	1	\$ 500.00	\$ 500.00

Subtotal Estimated Construction Cost: \$ 23,600.00
 Undeveloped Details & Construction Contingencies (25%): \$ 5,900.00
Estimated Design & Construction Engineering & Admin (20% of Const + Contingencies): \$ 5,900.00
Total Estimated Project Cost (Rounded): \$ 35,400.00

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Part 2 - Bridge over the Kalamazoo River, Option 1D- Trail within Existing Deck Width with Buffer

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 700.00	\$ 700.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 100.00	\$ 100.00
3	Temporary Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00
4	Pavement Markings	LS	1	\$ 5,000.00	\$ 5,000.00
5	Permanent Signage	LS	1	\$ 500.00	\$ 500.00

Subtotal Estimated Construction Cost: \$ 7,300.00
 Undeveloped Details & Construction Contingencies (25%): \$ 1,800.00
Estimated Design & Construction Engineering & Admin (20% of Const + Contingencies): \$ 1,800.00
Total Estimated Project Cost (Rounded): \$ 10,900.00

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Part 3 - Kalamazoo River Bridge to Lake Street, Option 2B - Widened/Shared Sidewalk, West Side

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 9,100.00	\$ 9,100.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 2,500.00	\$ 2,500.00
3	Temporary Traffic Control	LS	1	\$ 2,500.00	\$ 2,500.00
4	Curb and Gutter, Rem	FT	30	\$ 10.00	\$ 300.00
5	Sidewalk, Rem	SYD	260	\$ 10.00	\$ 2,600.00
6	Pavt, Rem	SYD	10	\$ 8.00	\$ 80.00
7	Sidewalk Grading	STA	3	\$ 1,000.00	\$ 3,000.00
8	Subbase, CIP	CYD	150	\$ 12.00	\$ 1,800.00
9	Hand Patching	TON	5	\$ 150.00	\$ 750.00
10	Sidewalk, Conc, 4 inch	SFT	5,000	\$ 4.00	\$ 20,000.00
11	Curb and Gutter, Conc, Det F4	FT	30	\$ 20.00	\$ 600.00
12	Pavement Markings	LS	1	\$ 3,000.00	\$ 3,000.00
13	Permanent Signage	LS	1	\$ 500.00	\$ 500.00
14	Slope Stabilization	LS	1	\$ 40,000.00	\$ 40,000.00
15	Decorative Railing/Fencing	FT	430	\$ 25.00	\$ 10,750.00
16	Slope Restoration	SYD	500	\$ 5.00	\$ 2,500.00

Subtotal Estimated Construction Cost: \$ 100,000.00
 Undeveloped Details & Construction Contingencies (25%): \$ 25,000.00
Estimated Design & Construction Engineering & Admin (20% of Const + Contingencies): \$ 25,000.00
Total Estimated Project Cost (Rounded): \$ 150,000.00

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Part 4 - Blue Star Highway & Lake Street Intersection, Option 1D - Signalized, Widened/Shared Sidewalk in front of Saugatuck sign

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 26,300.00	\$ 26,300.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 2,500.00	\$ 2,500.00
3	Temporary Traffic Control	LS	1	\$ 2,500.00	\$ 2,500.00
4	Curb and Gutter, Rem	FT	160	\$ 10.00	\$ 1,600.00
5	Sidewalk, Rem	SYD	50	\$ 10.00	\$ 500.00
6	Sidewalk Grading	STA	1.5	\$ 1,000.00	\$ 1,500.00
7	Pavt, Rem	SYD	80	\$ 10.00	\$ 800.00
8	Subbase, CIP	CYD	40	\$ 12.00	\$ 480.00
9	Sidewalk, Conc, 4 inch	SFT	1,400	\$ 4.00	\$ 5,600.00
10	Sidewalk Ramp, Conc, 6 inch	SFT	700	\$ 10.00	\$ 7,000.00
11	Curb and Gutter, Conc, Det F4	FT	130	\$ 18.00	\$ 2,340.00
12	Curb Ramp Opening, Conc	FT	30	\$ 30.00	\$ 900.00
13	Decorative Railing/Fencing	FT	100	\$ 25.00	\$ 2,500.00
14	Traffic Signal	LS	1	\$ 200,000.00	\$ 200,000.00
15	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
16	Permanent Signage	LS	1	\$ 1,000.00	\$ 1,000.00
17	Landscaping	LS	1	\$ 2,000.00	\$ 2,000.00
18	Drainage Modifications	LS	1	\$ 2,000.00	\$ 2,000.00
19	Slope Stabilization	LS	1	\$ 25,000.00	\$ 25,000.00
20	Slope Restoration	SYD	500	\$ 5.00	\$ 2,500.00

Subtotal Estimated Construction Cost: \$ 289,000.00
 Undeveloped Details & Construction Contingencies (25%): \$ 72,300.00
Estimated Design & Construction Engineering & Admin (20% of Const + Contingencies): \$ 72,300.00
Total Estimated Project Cost (Rounded): \$ 433,600.00

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Part 5 - Lake Street to Maple Road, Option 1D - Trail in Widened Pavement Width with Buffer

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 2,900.00	\$ 2,900.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 500.00	\$ 500.00
3	Temporary Traffic Control	LS	1	\$ 1,000.00	\$ 1,000.00
4	Excavation, Earth	Cyd	350	\$ 10.00	\$ 3,500.00
5	HMA, 13A	TON	120	\$ 60.00	\$ 7,200.00
6	Aggregate Base, 8 inch	SYD	550	\$ 10.00	\$ 5,500.00
7	Subbase, CIP	CYD	180	\$ 12.00	\$ 2,160.00
8	Hand Patching	TON	10	\$ 150.00	\$ 1,500.00
9	Sidewalk Grading	STA	1	\$ 1,000.00	\$ 1,000.00
10	Drainage Modifications	LS	1	\$ 2,000.00	\$ 2,000.00
11	Pavement Markings	LS	1	\$ 4,000.00	\$ 4,000.00
12	Permanent Signage	LS	1	\$ 1,000.00	\$ 1,000.00

Subtotal Estimated Construction Cost: \$ 32,300.00
 Undeveloped Details & Construction Contingencies (25%): \$ 8,100.00
Estimated Design & Construction Engineering & Admin (20% of Const + Contingencies): \$ 8,100.00
Total Estimated Project Cost (Rounded): \$ 48,500.00

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