



WADE TRIM

271 W. McCoy Road, Gaylord, MI 49735
Phone: 989.732.3584 - FAX: 989.732.6391

Opinion of Probable Cost Otsego County Road Commission Milbocker Road

This project estimate is Wade Trim's opinion of probable cost based upon the available information.

Prepared: 06/15/10

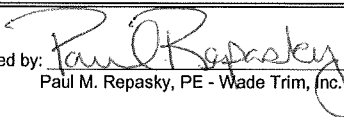
Project description: Preliminary Estimate, Milbocker Road from Dickerson 9,050 feet west: Category 1 is 6,550 feet; Category 2 is 2,500 feet (3 lanes to end of Industrial Park). Proposed 40' grade (2-12' lanes with 5' paved shoulder plus 3' gravel shoulder; curb and gutter at M-32 only; trench, crush and shape exist. bit; grading, drainage, horizontal and vertical corrections, new cross sections, traffic control and restoration

Category: 0001 Road Reconstruction: West 6,550 LFT

Line	Item	Description	Quantity	Unit	Unit Price	Amount
1	1000001	Mobilization, % Max.	1.00	LS	\$ 50,000.00	\$ 50,000.00
2	2010001	Clearing	0.50	ACRE	\$ 4,000.00	\$ 2,000.00
3	2020002	Tree, Rem, 19 inch to 36 inch	1.00	EA	\$ 500.00	\$ 500.00
4	2040006	Curb and Gutter, Rem	50.00	FT	\$ 10.00	\$ 500.00
5	2050010	Embankment, CIP	13,500.00	CYD	\$ 3.00	\$ 40,500.00
6	2050016	Excavation, Earth	12,800.00	CYD	\$ 4.00	\$ 51,200.00
7	2050041	Subgrade Undercutting, Type II	100.00	CYD	\$ 7.50	\$ 750.00
8	2080002	Erosion Control, Check Dam, Stone	50.00	FT	\$ 35.00	\$ 1,750.00
9	2080025	Erosion Control, Silt Fence	400.00	FT	\$ 3.00	\$ 1,200.00
10	3010002	Subbase, CIP	6,300.00	CYD	\$ 7.50	\$ 47,250.00
11	3020010	Aggregate Base, 4 inch	17,300.00	SYD	\$ 3.75	\$ 64,875.00
12	3020028	Aggregate Base, 10 inch	9,800.00	SYD	\$ 6.25	\$ 61,250.00
13	3050002	HMA Base Crushing and Shaping	19,500.00	SYD	\$ 1.25	\$ 24,375.00
14	3050015	Salv Crushed Material, LM	1,200.00	CYD	\$ 12.00	\$ 14,400.00
15	3070026	Approach, CI II, 4 inch	1,200.00	SYD	\$ 3.50	\$ 4,200.00
16	3070125	Shoulder, CI II, 3 inch	4,300.00	SYD	\$ 3.50	\$ 15,050.00
17	3070200	Trenching	131.00	STA	\$ 55.00	\$ 7,205.00
18	4010001	Culv, CI A, 15 inch	160.00	FT	\$ 35.00	\$ 5,600.00
19	4010832	Culv End Sect, 15 inch	4.00	EA	\$ 225.00	\$ 900.00
20	5020031	HMA, 3C	3,300.00	TON	\$ 50.00	\$ 165,000.00
21	5020032	HMA, 4C	2,550.00	TON	\$ 55.00	\$ 140,250.00
22	5020061	HMA Approach	150.00	TON	\$ 90.00	\$ 13,500.00
23	8020016	Curb and Gutter, Conc, Det B2	400.00	FT	\$ 30.00	\$ 12,000.00
24	8110065	Pavt Mrkg, Regular Dry, 4 inch, White	13,000.00	FT	\$ 0.20	\$ 2,600.00
25	8110066	Pavt Mrkg, Regular Dry, 4 inch, Yellow	10,000.00	FT	\$ 0.20	\$ 2,000.00
26	8120005	Barricade, Type III, High Intensity, Lighted, Furn	2.00	EA	\$ 500.00	\$ 1,000.00
27	8120006	Barricade, Type III, High Intensity, Lighted, Oper	2.00	EA	\$ 200.00	\$ 400.00
28	8120030	Flag Control	1.00	LS	\$ 15,000.00	\$ 15,000.00
29	8120042	Lighted Arrow, Type C, Furn	2.00	EA	\$ 500.00	\$ 1,000.00
30	8120043	Lighted Arrow, Type C, Oper	2.00	EA	\$ 400.00	\$ 800.00
31	8120050	Minor Traf Devices	1.00	LS	\$ 20,000.00	\$ 20,000.00
32	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	800.00	FT	\$ 1.00	\$ 800.00
33	8120102	Plastic Drum, High Intensity, Lighted, Furn	100.00	EA	\$ 25.00	\$ 2,500.00
34	8120103	Plastic Drum, High Intensity, Lighted, Oper	100.00	EA	\$ 10.00	\$ 1,000.00
35	8120120	Sign, Type B, Temp, Furn	500.00	SFT	\$ 4.00	\$ 2,000.00
36	8120121	Sign, Type B, Temp, Oper	500.00	SFT	\$ 1.50	\$ 750.00
37	8130010	Riprap, Plain	100.00	SYD	\$ 30.00	\$ 3,000.00
38	8140005	Ditch, Plain Cobble	100.00	SYD	\$ 20.00	\$ 2,000.00
39	8140010	Paved Ditch, HMA	40.00	SYD	\$ 40.00	\$ 1,600.00
40	8160027	Mulch Blanket	1,600.00	SYD	\$ 1.10	\$ 1,760.00
41	8160028	Mulch Blanket, High Velocity	900.00	SYD	\$ 1.50	\$ 1,350.00
42	8160050	Slope Restoration	14,500.00	SYD	\$ 1.25	\$ 18,125.00
43	8210001	Monument Box	2.00	EA	\$ 300.00	\$ 600.00
44	8210010	Monument Preservation	2.00	EA	\$ 400.00	\$ 800.00
Category 0001 Total:						\$ 803,340.00

Category: 0002 Center Turn Lane at east 2,500 LFT of project

Line	Item	Description	Quantity	Unit	Unit Price	Amount
45	2040006	Curb and Gutter, Rem	450.00	FT	\$ 10.00	\$ 4,500.00
46	2050010	Embankment, CIP	1,500.00	CYD	\$ 3.00	\$ 4,500.00
47	2050016	Excavation, Earth	1,000.00	CYD	\$ 4.00	\$ 4,000.00
48	2050041	Subgrade Undercutting, Type II	100.00	CYD	\$ 7.50	\$ 750.00
49	2080025	Erosion Control, Silt Fence	100.00	FT	\$ 3.00	\$ 300.00
50	3010002	Subbase, CIP	2,050.00	CYD	\$ 7.50	\$ 15,375.00
51	3020010	Aggregate Base, 4 inch	6,200.00	SYD	\$ 3.75	\$ 23,250.00
52	3020026	Aggregate Base, 10 inch	7,100.00	SYD	\$ 6.25	\$ 44,375.00
53	3060002	HMA Base Crushing and Shaping	7,500.00	SYD	\$ 1.25	\$ 9,375.00
54	3070026	Approach, CI II, 4 inch	800.00	SYD	\$ 3.50	\$ 2,800.00
55	3070125	Shoulder, CI II, 3 inch	1,700.00	SYD	\$ 3.50	\$ 5,950.00
56	3070200	Trenching	50.00	STA	\$ 200.00	\$ 10,000.00
57	4010000	Culv, CI A, 12 inch	300.00	FT	\$ 30.00	\$ 9,000.00
58	4010831	Culv End Sect, 12 inch	10.00	EA	\$ 150.00	\$ 1,500.00
59	4030053	Dr Structure Cover, Adj, Case 2	6.00	EA	\$ 300.00	\$ 1,800.00
60	5020031	HMA, 3C	1,400.00	TON	\$ 50.00	\$ 70,000.00
61	5020032	HMA, 4C	1,050.00	TON	\$ 51.00	\$ 53,550.00
62	5020061	HMA Approach	350.00	TON	\$ 90.00	\$ 31,500.00
63	8020016	Curb and Gutter, Conc, DET B2	800.00	FT	\$ 30.00	\$ 24,000.00
64	8110065	Pavt Mrkg, Regular Dry, 4 inch, White	10,000.00	FT	\$ 0.20	\$ 2,000.00
65	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	200.00	FT	\$ 1.00	\$ 200.00
66	8140010	Paved Ditch, HMA	10.00	SYD	\$ 40.00	\$ 400.00
67	8160027	Mulch Blanket	400.00	SYD	\$ 1.10	\$ 440.00
68	8160028	Mulch Blanket, High Velocity	100.00	SYD	\$ 1.50	\$ 150.00
69	8160050	Slope Restoration	5,500.00	SYD	\$ 1.25	\$ 6,875.00
70	8210001	Monument Box	1.00	EA	\$ 300.00	\$ 300.00
71	8210010	Monument Preservation	1.00	EA	\$ 400.00	\$ 400.00
Category 0002 Total:						\$ 327,290.00
Estimate Total:						\$ 1,130,630.00

Prepared by:  Date: 10/29/10
 Paul M. Repasky, PE - Wade Trim, Inc.



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Opinion of Probable Cost Otsego County Road Commission Van Tyle Road

This project estimate is Wade Trim's opinion of probable cost based upon the available information.

Prepared: 06/15/10

Project description: Preliminary Estimate, Van Tyle Road from Dickerson Road to S. Townline. Proposed 42' wide grade (2-12' lanes with 4' paved shoulder plus 4' gravel shoulder; curb and gutter at McVannel Road Extended only; *trenching, crush and shape exist. bit; grading, drainage, HMA paveme aggregate shoulders, traffic control and restoration*

Line	Item	Description	Quantity	Unit	Unit Price	Amount
1	1000001	Mobilization, % Max.	1.00	LS	\$ 50,000.00	\$ 50,000.00
2	2010001	Clearing	0.50	ACRE	\$ 4,000.00	\$ 2,000.00
3	2050010	Embankment, CIP	8,340.00	CYD	\$ 3.00	\$ 25,020.00
4	2050016	Excavation, Earth	2,640.00	CYD	\$ 4.00	\$ 10,560.00
5	2050041	Subgrade Undercutting, Type II	500.00	CYD	\$ 7.50	\$ 3,750.00
6	2080002	Erosion Control, Check Dam, Stone	100.00	FT	\$ 35.00	\$ 3,500.00
7	2080025	Erosion Control, Silt Fence	1,000.00	FT	\$ 3.00	\$ 3,000.00
8	3010002	Subbase, CIP	340.00	CYD	\$ 7.50	\$ 2,550.00
9	3020001	Aggregate Base	7,885.00	TON	\$ 8.89	\$ 70,097.65
10	3020020	Aggregate Base, 8 inch	4,655.00	SYD	\$ 4.67	\$ 21,738.85
11	3050002	HMA Base Crushing and Shaping	28,160.00	SYD	\$ 1.25	\$ 35,200.00
12	3050015	Salv Crushed Material, LM	59.00	CYD	\$ 12.00	\$ 708.00
13	3070026	Approach, CI II, 4 inch	840.00	SYD	\$ 3.50	\$ 2,940.00
14	3070128	Shoulder, CI II, 4 inch	9,387.00	SYD	\$ 4.25	\$ 39,894.75
15	3070020	Trenching	211.00	STA	\$ 200.00	\$ 42,200.00
16	4010000	Culv, CI A, 12 inch	1,254.00	FT	\$ 30.00	\$ 37,620.00
17	4010001	Culv, CI A, 15 inch	400.00	FT	\$ 35.00	\$ 14,000.00
18	4010831	Culv End Sect, 12 inch	6.00	EA	\$ 150.00	\$ 900.00
19	4010832	Culv End Sect, 15 inch	10.00	EA	\$ 225.00	\$ 2,250.00
20	5020031	HMA, 3C	4,340.00	TON	\$ 50.00	\$ 217,000.00
21	5020032	HMA, 4C	3,252.00	TON	\$ 51.00	\$ 166,852.00
22	5020061	HMA Approach	853.00	TON	\$ 90.00	\$ 76,770.00
23	8020016	Curb and Gutter, Conc, Det B2	166.00	FT	\$ 30.00	\$ 4,980.00
24	8110066	Pavt Mrkg, Regular Dry, 4 inch, Yellow	21,120.00	FT	\$ 0.20	\$ 4,224.00
25	8110067	Pavt Mrkg, Regular Dry, 6 inch, White	21,120.00	FT	\$ 0.20	\$ 4,224.00
26	8120005	Barricade, Type III, High Intensity, Lighted, Furn	4.00	EA	\$ 500.00	\$ 2,000.00
27	8120006	Barricade, Type III, High Intensity, Lighted, Oper	4.00	EA	\$ 200.00	\$ 800.00
28	8120030	Flag Control	1.00	LS	\$ 15,000.00	\$ 15,000.00
29	8120042	Lighted Arrow, Type C, Furn	2.00	EA	\$ 500.00	\$ 1,000.00
30	8120043	Lighted Arrow, Type C, Oper	2.00	EA	\$ 400.00	\$ 800.00
31	8120050	Minor Traf Devices	1.00	LS	\$ 20,000.00	\$ 20,000.00
32	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	2,640.00	FT	\$ 1.00	\$ 2,640.00
33	8120102	Plastic Drum, High Intensity, Lighted, Furn	500.00	EA	\$ 25.00	\$ 12,500.00
34	8120103	Plastic Drum, High Intensity, Lighted, Oper	500.00	EA	\$ 10.00	\$ 5,000.00
35	8120120	Sign, Type B, Temp, Furn	850.00	SFT	\$ 4.00	\$ 3,400.00
36	8120121	Sign, Type B, Temp, Oper	850.00	SFT	\$ 1.50	\$ 1,275.00
37	8130010	Riprap, Plain	100.00	SYD	\$ 30.00	\$ 3,000.00
38	8140005	Ditch, Plain Cobble	60.00	SYD	\$ 20.00	\$ 1,200.00
39	8140010	Paved Ditch, HMA	60.00	SYD	\$ 40.00	\$ 2,400.00
40	8160028	Mulch Blanket, High Velocity	2,800.00	SYD	\$ 1.50	\$ 4,200.00
41	8160050	Slope Restoration	23,500.00	EA	\$ 1.25	\$ 29,375.00
42	8210001	Monument Box	4.00	EA	\$ 300.00	\$ 1,200.00
43	8210010	Monument Preservation	4.00	EA	\$ 400.00	\$ 1,600.00
Estimate Total:						\$ 948,389.25

Prepared by:  Paul M. Repasky, PE Wade Trim, Inc.

Date: 6/29/10



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Opinion of Probable Cost Otsego County Road Commission McCoy Road

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Prepared: 06/15/10

Project description: Preliminary Estimate, McCoy Road from Krys Road to M-32. Proposed 42' wide grade (2-12' lanes with 4' paved shoulder plus 4' gravel shoulder; curb and gutter at M-32 only; trench, crush and shape exist. bit; grading, drainage, horizontal and vertical corrections, new cross sections, traffic control and restoration

Line	Item	Description	Quantity	Unit	Unit Price	Amount
1	1000001	Mobilization, % Max.	1.00	LS	\$ 50,000.00	\$ 50,000.00
2	2010001	Clearing	2.00	ACRE	\$ 4,000.00	\$ 8,000.00
3	2020002	Tree, Rem, 19 inch to 36 inch	8.00	EA	\$ 500.00	\$ 4,000.00
4	2050010	Embankment, CIP	50,250.00	CYD	\$ 3.00	\$ 150,750.00
5	2050016	Excavation, Earth	46,235.00	CYD	\$ 4.00	\$ 184,940.00
6	2060041	Subgrade Undercutting, Type II	7,290.00	CYD	\$ 7.50	\$ 54,675.00
7	2080002	Erosion Control, Check Dam, Stone	300.00	FT	\$ 35.00	\$ 10,500.00
8	2080025	Erosion Control, Silt Fence	3,000.00	FT	\$ 3.00	\$ 9,000.00
9	3010002	Subbase, CIP	7,000.00	CYD	\$ 7.50	\$ 52,500.00
10	3020001	Aggregate Base	10,500.00	TON	\$ 8.89	\$ 93,345.00
11	3020020	Aggregate Base, 8 inch	16,910.00	SYD	\$ 4.67	\$ 78,969.70
12	3050002	HMA Base Crushing and Shaping	100,000.00	SYD	\$ 1.25	\$ 125,000.00
13	3050015	Salv Crushed Material, LM	1,300.00	CYD	\$ 12.00	\$ 15,600.00
14	3070026	Approach, CI II, 4 inch	3,680.00	SYD	\$ 3.50	\$ 12,880.00
15	3070128	Shoulder, CI II, 4 inch	26,951.00	SYD	\$ 4.25	\$ 114,541.75
16	3070020	Trenching	563.00	STA	\$ 200.00	\$ 112,600.00
17	4010000	Culv, CI A, 12 inch	3,952.00	FT	\$ 30.00	\$ 118,560.00
18	4010001	Culv, CI A, 15 inch	1,000.00	FT	\$ 35.00	\$ 35,000.00
19	4010831	Culv End Sect, 12 inch	10.00	EA	\$ 150.00	\$ 1,500.00
20	4010832	Culv End Sect, 15 inch	26.00	EA	\$ 225.00	\$ 5,850.00
21	5020031	HMA, 3C	12,451.00	TON	\$ 50.00	\$ 622,550.00
22	5020032	HMA, 4C	10,100.00	TON	\$ 51.00	\$ 515,100.00
23	5020061	HMA Approach	1,900.00	TON	\$ 90.00	\$ 171,000.00
24	8020016	Curb and Gutter, Conc, Det B2	460.00	FT	\$ 30.00	\$ 13,800.00
25	8070000	Guardrail, Type B	3,400.00	FT	\$ 17.85	\$ 60,690.00
26	8070042	Guardrail Approach Terminal, Type 2B	14.00	EA	\$ 2,150.00	\$ 30,100.00
27	8070060	Guardrail Reflector	250.00	EA	\$ 4.00	\$ 1,000.00
28	8110066	Pavt Mrkg, Regular Dry, 4 inch, Yellow	60,640.00	FT	\$ 0.20	\$ 12,128.00
29	8110067	Pavt Mrkg, Regular Dry, 6 inch, White	60,640.00	FT	\$ 0.20	\$ 12,128.00
30	8120005	Barricade, Type III, High Intensity, Lighted, Furn	2.00	EA	\$ 500.00	\$ 1,000.00
31	8120006	Barricade, Type III, High Intensity, Lighted, Oper	2.00	EA	\$ 200.00	\$ 400.00
32	8120030	Flag Control	1.00	LS	\$ 15,000.00	\$ 15,000.00
33	8120042	Lighted Arrow, Type C, Furn	2.00	EA	\$ 500.00	\$ 1,000.00
34	8120043	Lighted Arrow, Type C, Oper	2.00	EA	\$ 400.00	\$ 800.00
35	8120050	Minor Traf Devices	1.00	LS	\$ 20,000.00	\$ 20,000.00
36	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	7,580.00	FT	\$ 1.00	\$ 7,580.00
37	8120102	Plastic Drum, High Intensity, Lighted, Furn	500.00	EA	\$ 25.00	\$ 12,500.00
38	8120103	Plastic Drum, High Intensity, Lighted, Oper	500.00	EA	\$ 10.00	\$ 5,000.00
39	8120120	Sign, Type B, Temp, Furn	1,200.00	SFT	\$ 4.00	\$ 4,800.00
40	8120121	Sign, Type B, Temp, Oper	1,200.00	SFT	\$ 1.50	\$ 1,800.00
41	8130010	Riprap, Plain	250.00	SYD	\$ 30.00	\$ 7,500.00
42	8140005	Ditch, Plain Cobble	60.00	SYD	\$ 20.00	\$ 1,200.00
43	8140010	Paved Ditch, HMA	60.00	SYD	\$ 40.00	\$ 2,400.00
44	8160028	Mulch Blanket, High Velocity	13,200.00	SYD	\$ 1.50	\$ 19,800.00
45	8160050	Slope Restoration	47,165.00	SYD	\$ 1.25	\$ 58,956.25
46	8210001	Monument Box	15.00	EA	\$ 300.00	\$ 4,500.00
47	8210010	Monument Preservation	15.00	EA	\$ 400.00	\$ 6,000.00
Estimate Total:						\$ 2,846,943.70

Prepared by: Paul M. Repasky Date: 6/12/2010
Paul M. Repasky, PE - Wade Trim, Inc