

Preliminary Cost Estimate

Rice Lake Road Corridor Improvement Project

Saint Louis County, MN

Monday, February 19, 2024

Item		Unit Price	Total Quantity	Total Cost	Rice Lake Road		Martin Road, West of Rice Lake Road		Martin Road, East of Rice Lake Road		Calvary Road West & East of Rice Lake Road		Rice Lake - New City Street (East of Kwik Trip)	
					Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
MAJOR ROADWAY ITEMS														
	REMOVE BITUMINOUS PAVEMENT	\$ 6.00	88,019	\$ 528,112	56,491	\$ 338,943	6,218	\$ 37,310	10,775	\$ 64,647	1,489	\$ 8,936	0	\$
	REMOVE CURB AND GUTTER	\$ 5.00	1,861	\$ 9,304	341	\$ 1,705	500	\$ 2,500	1,020	\$ 5,099	0	\$ -		\$ -
	MILL BITUMINOUS PAVEMENT	\$ 4.00	15,911	\$ 63,643	5,662	\$ 22,648	0	\$ -	7,366	\$ 29,462	2,883	\$ 11,532		\$ -
	EXCAVATION - COMMON	\$ 19.00	184,838	\$ 3,511,930	92,279	\$ 1,753,297	20,558	\$ 390,610	26,012	\$ 494,236	9,145	\$ 173,759	8,825	\$ 167,671
	EXCAVATION - MUCK	\$ 19.00	64,387	\$ 1,223,357	14,705	\$ 279,391	8,683	\$ 164,981	2,839	\$ 53,945	7,049	\$ 133,927	22,223	\$ 422,233
	COMMON EMBANKMENT (CV)	\$ 14.00	64,387	\$ 901,421	14,705	\$ 205,867	8,683	\$ 121,565	2,839	\$ 39,749	7,049	\$ 98,683	22,223	\$ 311,119
	AGGREGATE SURFACING CLASS 2	\$ 57.00	688	\$ 39,188	162	\$ 9,217	382	\$ 21,757	0	\$ -	22	\$ 1,254	0	\$ -
	AGGREGATE BASE (CV) CLASS 5	\$ 44.00	49,708	\$ 2,187,148	24,521	\$ 1,078,933	4,071	\$ 179,128	6,796	\$ 299,015	2,474	\$ 108,852	2,308	\$ 101,543
	SELECT GRANULAR EMBANKMENT (CV)	\$ 24.00	42,699	\$ 1,024,769	22,806	\$ 547,351	2,439	\$ 58,529	6,205	\$ 148,922	2,079	\$ 49,896	2,048	\$ 49,157
	GEOTEXTILE FABRIC TYPE 7	\$ 5.00	165,450	\$ 827,250	83,004	\$ 415,019	16,739	\$ 83,694	23,845	\$ 119,224	8,089	\$ 40,447	8,089	\$ 40,447
	CONCRETE PAVEMENT 8.0"	\$ 86.00	5,567	\$ 478,771	1,482	\$ 127,426	1,024	\$ 88,073	392	\$ 33,678	895	\$ 77,004		\$ -
	TYPE SP 9.5 WEARING COURSE MIX (3,C) - MILL AREA	\$ 88.00	1,831	\$ 161,084	680	\$ 59,840	0	\$ -	804	\$ 70,752	347	\$ 30,492		\$ -
	TYPE SP 9.5 WEARING COURSE MIX (2,B) - TRAIL	\$ 132.00	5,056	\$ 667,339	1,142	\$ 150,718	1,517	\$ 200,231	0	\$ -	212	\$ 28,024	0	\$ -
	TYPE SP 12.5 WEARING COURSE MIX (3,C)	\$ 88.00	41,753	\$ 3,674,238	21,273	\$ 1,872,015	2,394	\$ 210,637	6,037	\$ 531,238	2,017	\$ 177,531	2,250	\$ 197,956
	CURB AND GUTTER B424	\$ 29.00	50,997	\$ 1,478,916	22,966	\$ 666,008	4,243	\$ 123,038	11,737	\$ 340,373	2,847	\$ 82,557	4,602	\$ 133,470
	4" CONCRETE WALK & MEDIAN	\$ 12.00	127,394	\$ 1,528,732	57,754	\$ 693,053	6,032	\$ 72,389	43,867	\$ 526,403	5,716	\$ 68,587	14,025	\$ 168,300
All Roadway Construction Subtotal				\$ 18,300,000		\$ 8,221,000		\$ 1,754,000		\$ 2,757,000		\$ 1,091,000		\$ 1,592,000
STRUCTURAL ITEMS														
	TRAIL WETLAND CROSSING	\$ 1,600.00	5,326	\$ 8,530,000	1560	\$ 2,496,000	2275	\$ 3,640,000	612	\$ 979,200	457	\$ 731,200		
PERCENTAGE ITEMS														
	MOBILIZATION	5%	of all roadway	\$ 915,200		\$ 411,050		\$ 87,700		\$ 137,850		\$ 54,550		\$ 79,600
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)	2%	of all roadway	\$ 366,080		\$ 164,420		\$ 35,080		\$ 55,140		\$ 21,820		\$ 31,840
	SIGNING & PAVEMENT MARKINGS	3%	of all roadway	\$ 549,120		\$ 246,630		\$ 52,620		\$ 82,710		\$ 32,730		\$ 47,760
	LIGHTING	5%	of all roadway	\$ 915,200		\$ 411,050		\$ 87,700		\$ 137,850		\$ 54,550		\$ 79,600
	URBAN DRAINAGE (STORM SEWER)	20%	of all roadway	\$ 3,660,800		\$ 1,644,200		\$ 350,800		\$ 551,400		\$ 218,200		\$ 318,400
	STORMWATER MANAGEMENT (PONDS)	5%	of all roadway	\$ 915,200		\$ 411,050		\$ 87,700		\$ 137,850		\$ 54,550		\$ 79,600
	TURF ESTABLISHMENT AND EROSION CONTROL	5%	of all roadway	\$ 915,200		\$ 411,050		\$ 87,700		\$ 137,850		\$ 54,550		\$ 79,600
	LANDSCAPING/STREETScape	3%	of all roadway	\$ 457,600		\$ 205,525		\$ 43,850		\$ 68,925		\$ 27,275		\$ 39,800
	TRAFFIC CONTROL/STAGING	5%	of all roadway	\$ 915,200		\$ 411,050		\$ 87,700		\$ 137,850		\$ 54,550		\$ 79,600
	CONTINGENCY FOR MISSING ITEMS	20%	of all roadway	\$ 3,660,800		\$ 1,644,200		\$ 350,800		\$ 551,400		\$ 218,200		\$ 318,400
	Subtotal Percentage Items			\$ 13,270,000		\$ 5,960,000		\$ 1,272,000		\$ 1,999,000		\$ 791,000		\$ 1,154,000
Construction Cost (2026 Dollars)				\$ 40,100,000		\$ 16,677,000		\$ 6,666,000		\$ 5,735,200		\$ 2,613,200		\$ 2,746,000
Anticipated Right-of-Way Cost (2026 Dollars)				\$ 1,100,000		\$ 582,000		\$ -		\$ 126,000		\$ 26,000		\$ 360,000
Engineering Cost (2026 Dollars)				\$ 8,000,000		\$ 3,350,000		\$ 1,350,000		\$ 1,150,000		\$ 500,000		\$ 550,000
Total Cost (2026 Dollars)				\$ 49,200,000		\$ 20,609,000		\$ 8,016,000		\$ 7,011,200		\$ 3,139,200		\$ 3,656,000

- Notes:
- Highway pavement section assumed is 6 inch bituminous pavement, 12 inch aggregate base, and 12 inch sand.
 - Trail pavement section assumed is 3 inch bituminous pavement and 6 inch aggregate base
 - Muck Excavation assumes 5 feet of excavation in mitigated wetland areas

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Item		Unit Price	W Frontage Rd, Calvary to Martin Road		E Frontage Rd, Ridgeview to Calvary Road		Rice Lake Road, South Trail - Technology Drive to Ridgeview Lane		Ridgeview Road, East of Rice Lake Road		Northland Constructors Driveway		Tax Forfeiture Access Road, North of Martin Road	
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
MAJOR ROADWAY ITEMS														
	REMOVE BITUMINOUS PAVEMENT	\$ 6.00	3,795	\$ 22,770	9,095	\$ 54,569		\$ -	156	\$ 937		\$ -		\$ -
	REMOVE CURB AND GUTTER	\$ 5.00	0	\$ -		\$ -		\$ -	0	\$ -		\$ -		\$ -
	MILL BITUMINOUS PAVEMENT	\$ 4.00	0						0					
	EXCAVATION - COMMON	\$ 19.00	4,633	\$ 88,031	12,971	\$ 246,445		\$ -	1,110	\$ 21,090	3,520	\$ 66,872	5,785	\$ 109,919
	EXCAVATION - MUCK	\$ 19.00	0	\$ -		\$ -		\$ -	0	\$ -	8,888	\$ 168,880	0	\$ -
	COMMON EMBANKMENT (CV)	\$ 14.00	0	\$ -		\$ -		\$ -	0	\$ -	8,888	\$ 124,438	0	\$ -
	AGGREGATE SURFACING CLASS 2	\$ 57.00	11	\$ 627	95	\$ 5,392		\$ -	17	\$ 941		\$ -	0	\$ -
	AGGREGATE BASE (CV) CLASS 5	\$ 44.00	1,244	\$ 54,740	3,210	\$ 141,231	2,022	\$ 88,959	213	\$ 9,390	1,228	\$ 54,014	1,621	\$ 71,342
	SELECT GRANULAR EMBANKMENT (CV)	\$ 24.00	1,236	\$ 29,674	3,064	\$ 73,524		\$ -	213	\$ 5,122	987	\$ 23,681	1,621	\$ 38,914
	GEOTEXTILE FABRIC TYPE 7	\$ 5.00	4,247	\$ 21,236	11,890	\$ 59,450		\$ -	1,018	\$ 5,088	3,226	\$ 16,132	5,303	\$ 26,516
	CONCRETE PAVEMENT 8.0"	\$ 86.00	34	\$ 2,933	657	\$ 56,476		\$ -		\$ -	1,084	\$ 93,181		\$ -
	TYPE SP 9.5 WEARING COURSE MIX (3,C) - MILL AREA	\$ 88.00		\$ -										
	TYPE SP 9.5 WEARING COURSE MIX (2,B) - TRAIL	\$ 132.00	0	\$ -		\$ -	2,185	\$ 288,367		\$ -		\$ -		\$ -
	TYPE SP 12.5 WEARING COURSE MIX (3,C)	\$ 88.00	1,335	\$ 117,515	3,334	\$ 293,401		\$ -	237	\$ 20,812	1,066	\$ 93,799	1,811	\$ 159,333
	CURB AND GUTTER B424	\$ 29.00	0	\$ -	4,602	\$ 133,470	0	\$ -	0	\$ -	0	\$ -		\$ -
	4" CONCRETE WALK & MEDIAN	\$ 12.00	0	\$ -		\$ -	0	\$ -	0	\$ -	0	\$ -		\$ -
All Roadway Construction Subtotal				\$ 338,000		\$ 1,064,000		\$ 377,000		\$ 63,000		\$ 641,000		\$ 406,000
STRUCTURAL ITEMS														
	TRAIL WETLAND CROSSING	\$ 1,600.00												
PERCENTAGE ITEMS														
	MOBILIZATION	5%		\$ 16,900		\$ 53,200		\$ 18,850		\$ 3,150		\$ 32,050		\$ 20,300
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)	2%		\$ 6,760		\$ 21,280		\$ 7,540		\$ 1,260		\$ 12,820		\$ 8,120
	SIGNING & PAVEMENT MARKINGS	3%		\$ 10,140		\$ 31,920		\$ 11,310		\$ 1,890		\$ 19,230		\$ 12,180
	LIGHTING	5%		\$ 16,900		\$ 53,200		\$ 18,850		\$ 3,150		\$ 32,050		\$ 20,300
	URBAN DRAINAGE (STORM SEWER)	20%		\$ 67,600		\$ 212,800		\$ 75,400		\$ 12,600		\$ 128,200		\$ 81,200
	STORMWATER MANAGEMENT (PONDS)	5%		\$ 16,900		\$ 53,200		\$ 18,850		\$ 3,150		\$ 32,050		\$ 20,300
	TURF ESTABLISHMENT AND EROSION CONTROL	5%		\$ 16,900		\$ 53,200		\$ 18,850		\$ 3,150		\$ 32,050		\$ 20,300
	LANDSCAPING/STREETSCAPE	3%		\$ 8,450		\$ 26,600		\$ 9,425		\$ 1,575		\$ 16,025		\$ 10,150
	TRAFFIC CONTROL/STAGING	5%		\$ 16,900		\$ 53,200		\$ 18,850		\$ 3,150		\$ 32,050		\$ 20,300
	CONTINGENCY FOR MISSING ITEMS	20%		\$ 67,600		\$ 212,800		\$ 75,400		\$ 12,600		\$ 128,200		\$ 81,200
	Subtotal Percentage Items			\$ 245,000		\$ 771,000		\$ 273,000		\$ 46,000		\$ 465,000		\$ 294,000
Construction Cost (2026 Dollars)				\$ 583,000		\$ 1,835,000		\$ 650,000		\$ 109,000		\$ 1,106,000		\$ 700,000
Anticipated Right-of-Way Cost (2026 Dollars)				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -
Engineering Cost (2026 Dollars)				\$ 100,000		\$ 350,000		\$ 150,000		\$ -		\$ 200,000		\$ 150,000
Total Cost (2026 Dollars)				\$ 683,000		\$ 2,185,000		\$ 800,000		\$ 109,000		\$ 1,306,000		\$ 850,000

- Notes:
- Highway pavement section assumed is 6 inch bituminous pavement,12 inch aggreg
 - Trail pavement section assumed is 3 inch bituminous pavement and 6 inch aggrega
 - Muck Excavation assumes 5 feet of excavation in mitigated wetland areas