Opinion of Probable Cost - Preliminary Cost Estimate TH169 and CSAH 4 Interchange 30% Estimate Sherburne County



11/30/2022

	Item	Unit	Total Qty		Unit Price		Total Cost
	PR ROADWAY ITEMS (NOTES 1-3)						
IAJU		SY	81,000	\$	6.00	\$	486.0
	REMOVE DITOMINOUS PAVEMENT	SF	12,200	φ \$	2.00	φ \$	24.4
	REMOVE CONCRETE MEDIAN REMOVE CURB AND GUTTER	LF	14.400	φ \$	7.00	φ \$	100,8
	EXCAVATION - COMMON	CY	38,700	\$	12.00	\$	464,4
	COMMON EMBANKMENT (CV)	CY	147,600	\$	8.00	\$	1,180,8
	AGGREGATE BASE (CV) CLASS 5	CY	37,200	\$	35.00	\$	1,302,0
	SELECT GRANULAR EMBANKMENT (CV)	CY	85,200	\$	15.00	\$	1,278,0
	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	1,100	\$	102.00	\$	112,2
	TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	59,400	\$	102.00	\$	6,058,8
	CURB AND GUTTER B424	LF	1,100	\$	30.00	\$	33,0
	CURB AND GUTTER B612	LF	6,100	\$	25.00	\$	152,
	CURB AND GUTTER B618	LF	5,200	\$	28.00	\$	145,
	CURB AND GUTTER B624	LF	16,100	\$	40.00	\$	644,
	CURB AND GUTTER D424	LF	9,900	\$	30.00	\$	297,0
	CURB AND GUTTER R424	LF	1,100	\$	30.00	\$	33,0
	CURB AND GUTTER S524	LF	1,800	\$	35.00	\$	63,
	CONCRETE MEDIAN BARRIER	LF	3,400	\$	150.00	\$	510,
	6" CONCRETE WALK	SF	4,800	\$	45.00	\$	216,
	4" CONCRETE WALK	SF	28,300	\$	20.00	\$	566,
	4" CONCRETE MEDIAN	SF	51,200	\$	20.00	\$	1,024,
	GUARDRAIL	LF	2,800	\$	67.00	\$	187,
	Subtotal					\$	14,879,
TRI	CTURAL ITEMS						
	STRUCTURAL CONCRETE	CY	900	\$	1,100.00	\$	990,
	MOD S 36" BARRIER	LF	3,200	\$	150.00	\$	480,
	REINFORCEMENT BARS	LBS	270,700	\$	3.00	\$	812,
	MODULAR BLOCK RETAINING WALL	SF	3,800	\$	100.00	\$	380,
	MECHANICALLY STABILIZED EARTH WALL	SF	44,500	\$	85.00	\$	3,782,
	BRIDGE	SF	9,500	\$	265.00	\$	2,517,
	Subtotal		-,			\$	8,962,
	All Roadway Construction Subtotal			1		\$	23,841,
				I		Ψ	20,041,
PEC	IAL LUMP SUM CONSTRUCTION ITEMS						
	REMOVE SIGNAL SYSTEM	LS	1	\$	20,000.00	\$	20,
	UTILITY RELOCATIONS (WATERMAIN & SANITARY)	LS	1	\$	375,000.00	\$	375,
		LS	1	\$	370,000.00	\$	370,
(4)	CITY UTILITIES (SANITARY)	LS	1	\$	280,000.00		280,
(4)		LS	1	\$	510,000.00	\$	510,
(5)		LS LS	1	\$ \$	4,770,000.00 500,000.00	\$ \$	4,770, 500,
(6)	MUCK EXCAVATION Subtotal	L3	I	Þ	500,000.00	Դ Տ	6,825,
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ERC	ENTAGE ITEMS						
	MOBILIZATION		5%	of all roadway		\$	1,192,
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%	of all roadway		\$ \$	357,
	SIGNING & PAVEMENT MARKINGS		<u>3%</u> 5%		of all roadway of all roadway		715,
	TURF ESTABLISHMENT AND EROSION CONTROL						1,192,
	LANDSCAPING/STREETSCAPE		3%		of all roadway		596,
	TRAFFIC CONTROL/STAGING		5%		of all roadway		1,192,
	CONTINGENCY FOR MISSING ITEMS	2	0%	c	of all roadway	\$	4,768,
	Subtotal					\$	10,014,
				1			
			Construction	Coo	+ (2024 Dollara)	¢	10 700
	Anticina				t (2024 Dollars) t (2024 Dollars)	\$ \$	40,700,
	Anticipa		ay/Easement	Cos	t (2024 Dollars) t (2024 Dollars) t (2024 Dollars)	\$ \$	40,700, 1,800, 7,200,

Notes:

1. Highway pavement section assumed is 10 inch bituminous pavement, 12 inch aggregate base, and 24 inch sand.

2. County road pavement section assumed is 10 inch bituminous pavement, 12 inch aggregate base, and 24 inch sand.

3. Local road pavement section assumed is 4 inch bituminous pavement,6 inch aggregate base, and 24 inch sand.

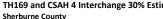
4. Trail pavement section assumed is 3 inch bituminous pavement and 4 inch aggregate base

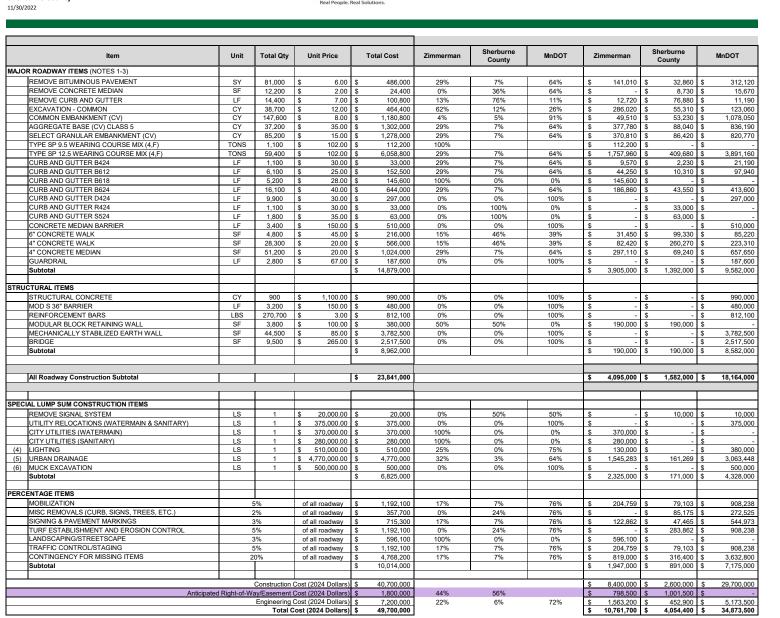
4. Includes wire, conduit, source of power, base, etc. Assuming MnDOTs LED-40 foot standard poles

5. Storm sewer cost is 20% of roadway construction cost

6. Geotechnical investigation and analysis is not yet complete, therefore the muck excavation cost required at the interchage is unknown.

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BOLTON & MENK

Notes

Highway payement section assumed is 10 inch bituminous payement.12 inch aggregate base, and 24 inch sand.

County road pavement section assumed is 10 inch bituminous pavement, 12 inch aggregate base, and 24 inch sand.

Local road pavement section assumed is 4 inch bituminous pavement,6 inch aggregate base, and 24 inch sand. 3.

Trail pavement section assumed is 3 inch bituminous pavement and 4 inch aggregate base Includes wire, conduit, source of power, base, etc. Assuming MnDOTs LED-40 foot standard poles

Storm sewer cost is 20% of roadway construction cost

Geotechnical investigation and analysis is not yet complete, therefore the muck excavation cost required at the interchage is unknown