

TH 169/CSAH 4 Interchange

Sherburne County

3/23/2022

Item	Unit	Total Qty	Unit Price	Total Cost
MAJOR ROADWAY ITEMS (NOTES 1-3)				
REMOVE BITUMINOUS PAVEMENT	SY	74,312	\$ 6.00	\$ 445,900
REMOVE CONCRETE MEDIAN	SY	5,390	\$ 7.00	\$ 37,800
REMOVE CURB AND GUTTER	LF	3,762	\$ 3.00	\$ 11,300
EXCAVATION - COMMON	CY	10,000	\$ 10.00	\$ 100,000
COMMON EMBANKMENT (CV)	CY	88,000	\$ 8.00	\$ 704,000
(1) AGGREGATE BASE (CV) CLASS 5Q	CY	23,988	\$ 35.00	\$ 839,600
(1) SELECT GRANULAR EMBANKMENT (CV)	CY	47,109	\$ 13.00	\$ 612,500
CONCRETE PAVEMENT 8.0"	SY	798	\$ 85.00	\$ 67,800
(3) TYPE SP 9.5 WEARING COURSE MIX (2,C)	TONS	418	\$ 75.00	\$ 31,400
(1) TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	41,263	\$ 80.00	\$ 3,301,100
CURB AND GUTTER B424	LF	15,829	\$ 21.00	\$ 332,500
CONCRETE MEDIAN BARRIER	LF	2,530	\$ 200.00	\$ 506,000
4" CONCRETE WALK	SF	17,100	\$ 7.00	\$ 119,700
Subtotal				\$ 7,110,000
STRUCTURAL ITEMS				
RETAINING WALLS	SF	49,500	\$ 125.00	\$ 6,187,500
BRIDGE	SF	10,626	\$ 265.00	\$ 2,815,900
Subtotal				\$ 9,003,000
All Roadway Construction Subtotal				
				\$ 16,113,000
SPECIAL LUMP SUM CONSTRUCTION ITEMS				
REMOVE SIGNAL SYSTEM	LS	1	\$ 20,000.00	\$ 20,000
CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC)	LS	1	\$ 250,000.00	\$ 250,000
(2) LIGHTING	LS	1	\$ 100,000.00	\$ 100,000
URBAN DRAINAGE	LS	1	\$ 1,610,000.00	\$ 1,610,000
Subtotal				\$ 1,980,000
PERCENTAGE ITEMS				
MOBILIZATION	5%		of all roadway	\$ 904,700
MISC REMOVALS (CURB, SIGNS, TREES, ETC.)	2%		of all roadway	\$ 241,700
SIGNING & PAVEMENT MARKINGS	3%		of all roadway	\$ 483,400
TURF ESTABLISHMENT AND EROSION CONTROL	5%		of all roadway	\$ 805,700
LANDSCAPING/STREETSCAPE	2%		of all roadway	\$ 322,300
TRAFFIC CONTROL/STAGING	8%		of all roadway	\$ 1,289,100
CONTINGENCY FOR MISSING ITEMS	20%		of all roadway	\$ 3,222,600
Subtotal				\$ 7,270,000
Construction Cost (2023 Dollars)				\$ 25,400,000
Anticipated Right-of-Way Cost (2023 Dollars)				\$ -
Engineering Cost (2023 Dollars)				\$ 5,100,000
Total Cost (2023 Dollars)				\$ 30,500,000

Notes:

- Highway pavement section assumed is 10 inch bituminous pavement, 12 inch aggregate base, and 24 inch sand.
- Includes wire, conduit, source of power, base, etc. Assuming MnDOT's LED-40 foot standard poles for both intersection and interchange lighting
- Trail section assumed to be 3 inch bituminous pavement, 4 inch aggregate base

Assumed pavement structure for mainline, ramps, and CSAH 4 is 10 inches bit, 12 inches agg, 24 inches sand

Assumes reconstruction of CSAH 4 from west of 2nd Street to east of TH 169

Assumes access closures at Oak Street, 5th Ave, Gateway Dr., and Main Street

Assumes footprint stays within existing right of way