Opinion of Probable Cost - 30% Estimate

TH 169/County Road 4 Interchange Project

Sherburne County

4/13/2023

BOLTON & MENK
Real People. Real Solutions.

	Item	Unit	Total Qty	Unit Price	Total Cost
MAJOR ROADWAY ITEMS					
	REMOVE BITUMINOUS PAVEMENT	SY	85,500	$ 6.00	$ 513,000
	REMOVE CONCRETE MEDIAN	SF	14,300	$ 2.00	$ 28,600
	REMOVE CURB AND GUTTER	LF	14,300	$ 7.00	$ 100,100
	EXCAVATION - COMMON	CY	168,700	$ 12.00	$ 2,024,400
(7)	EXCAVATION - MUCK	CY	119,000	$ 17.00	$ 2,023,000
	COMMON EMBANKMENT (CV)	CY	197,700	$ 8.00	$ 1,581,600
(1-4)	AGGREGATE BASE (CV) CLASS 5	CY	41,300	$ 35.00	$ 1,445,500
(1-3)	SELECT GRANULAR EMBANKMENT (CV)	CY	84,300	$ 15.00	$ 1,264,500
(1-4)	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	1,100	$ 102.00	$ 112,200
(1-3)	TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	61,600	$ 102.00	$ 6,283,200
	CURB AND GUTTER B424	LF	1,200	$ 30.00	$ 36,000
	CURB AND GUTTER B612	LF	3,900	$ 25.00	$ 97,500
	CURB AND GUTTER B618	LF	5,100	$ 28.00	$ 142,800
	CURB AND GUTTER B624	LF	15,900	$ 40.00	$ 636,000
	CURB AND GUTTER D412	LF	1,800	$ 27.00	$ 48,600
	CURB AND GUTTER D424	LF	9,300	$ 30.00	$ 279,000
	CURB AND GUTTER R424	LF	1,200	$ 30.00	$ 36,000
	CURB AND GUTTER S524	LF	1,600	$ 35.00	$ 56,000
	CONCRETE MEDIAN BARRIER (42")	LF	3,400	$ 150.00	$ 510,000
	8" CONCRETE DRIVEWAY PAVEMENT	SY	1,700	$ 100.00	$ 170,000
	6" CONCRETE DRIVEWAY PAVEMENT	SY	100	$ 82.00	$ 8,200
	6" CONCRETE WALK	SF	5,200	$ 45.00	$ 234,000
	4" CONCRETE WALK	SF	27,100	$ 20.00	$ 542,000
	4" CONCRETE MEDIAN	SF	37,300	$ 20.00	$ 746,000
	GUARDRAIL	LF	2,800	$ 67.00	$ 187,600
	Subtotal				$ 19,108,000
STRUCTURAL ITEMS					
	MOD S 36" BARRIER	LF	2,900	$ 150.00	$ 435,000
(10)	COLUMN SUPPORTED EMBANKMENT	SY	7,600	$ 270.00	$ 2,052,000
	PREFABRICATED MODULAR BLOCK RETAINING WALL	SF	3,700	$ 100.00	$ 370,000
(9)	NW MSE WALL	LS	1	$ 1,249,700.00	$ 1,249,700
(9)	NE MSE WALL	LS	1	$ 1,468,800.00	$ 1,468,800
(9)	SE CIP RETAINING WALL	LS	1	$ 208,550.00	$ 208,600
(9)	BRIDGE APPROACH	LS	1	$ 602,200.00	$ 602,200
	REINFORCED SOIL SLOPE	SY	890	$ 95.00	$ 84,600
(9)	BRIDGE	LS	1	$ 3,740,000.00	$ 3,740,000
	Subtotal				$ 10,211,000
	Major Roadway & Structural Construction Subtotal				**$ 29,319,000**
SPECIAL LUMP SUM CONSTRUCTION ITEMS					
	REMOVE SIGNAL SYSTEM	LS	1	$ 20,000.00	$ 20,000
	UTILITY RELOCATIONS (WATERMAIN & SANITARY)	LS	1	$ 375,000.00	$ 375,000
	NEW CITY UTILITIES (WATERMAIN & SANITARY)	LS	1	$ 120,000.00	$ 120,000
	VISUAL QUALITY ELEMENTS	LS	1	$ 750,000.00	$ 750,000
(5)	LIGHTING	LS	1	$ 510,000.00	$ 510,000
(6)	URBAN DRAINAGE	LS	1	$ 5,860,000.00	$ 5,860,000
	Subtotal				$ 7,635,000
PERCENTAGE ITEMS					
	MOBILIZATION		5%	of all roadway	$ 1,466,000
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%	of all roadway	$ 439,800
	SIGNING & PAVEMENT MARKINGS		3%	of all roadway	$ 879,600
	TURF ESTABLISHMENT AND EROSION CONTROL		5%	of all roadway	$ 1,466,000
	TRAFFIC CONTROL/STAGING		5%	of all roadway	$ 1,466,000
	CONTINGENCY FOR MISSING ITEMS		15%	of all roadway	$ 4,397,900
	Subtotal				$ 10,115,000
	Construction Cost (2024 Dollars)				$ 47,100,000
(8)	Anticipated Right-of-Way/Easement Cost (Dollars)				$ 2,200,000
	Engineering Cost (2024 Dollars)				$ 7,900,000
	Total Cost (2024 Dollars)				**$ 57,200,000**

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 6 inch aggregate base
5. Includes wire, conduit, source of power, base, etc. Assuming MnDOTs LED-40 foot standard poles
6. Storm sewer cost is 20% of roadway construction cost
7. Based on preliminary geotechnical investigation/analysis and therefore subject to change.
8. Right-of-way/easement cost assumes 3x the assessed property value for Fee Title, 2x for Permanent Easement, 1.5x for Temporary Easement. See attached Right-of-Way/Easement breakdown for details.
9. See attached Structural breakdown for details.
10. Includes geogrid stabilization pad/load transfer platform. Estimated cost based on preliminary soil boring results and consultation with contractor.

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TH 169/County Road 4 Interchange Project

Sherburne County

4/13/2023

	Item	Unit	Total Qty	Unit Price	Total Cost	Zimmerman	Sherburne County	MnDOT	Zimmerman	Sherburne County	MnDOT
MAJOR ROADWAY ITEMS											
	REMOVE BITUMINOUS PAVEMENT	SY	85,500	$ 6.00	$ 513,000	24%	8%	68%	$ 122,330	$ 42,200	$ 348,470
	REMOVE CONCRETE MEDIAN	SF	14,300	$ 2.00	$ 28,600	0%	32%	68%	$ -	$ 9,170	$ 19,430
	REMOVE CURB AND GUTTER	LF	14,300	$ 7.00	$ 100,100	0%	92%	8%	$ -	$ 91,670	$ 8,430
	EXCAVATION - COMMON	CY	168,700	$ 12.00	$ 2,024,400	33%	16%	52%	$ 658,720	$ 322,270	$ 1,043,410
(7)	EXCAVATION - MUCK	CY	119,000	$ 17.00	$ 2,023,000	0%	46%	54%	$ -	$ 920,660	$ 1,102,340
	COMMON EMBANKMENT (CV)	CY	197,700	$ 8.00	$ 1,581,600	4%	1%	94%	$ 68,850	$ 22,580	$ 1,490,170
(1-4)	AGGREGATE BASE (CV) CLASS 5	CY	41,300	$ 35.00	$ 1,445,500	24%	8%	68%	$ 344,680	$ 118,920	$ 981,900
(1-3)	SELECT GRANULAR EMBANKMENT (CV)	CY	84,300	$ 15.00	$ 1,264,500	24%	8%	68%	$ 301,520	$ 104,030	$ 858,950
(1-4)	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	1,100	$ 102.00	$ 112,200	100%	0%	0%	$ 112,200	$ -	$ -
(1-3)	TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	61,600	$ 102.00	$ 6,283,200	24%	8%	68%	$ 1,498,230	$ 516,920	$ 4,268,050
	CURB AND GUTTER B424	LF	1,200	$ 30.00	$ 36,000	24%	8%	68%	$ 8,580	$ 2,960	$ 24,450
	CURB AND GUTTER B612	LF	3,900	$ 25.00	$ 97,500	24%	8%	68%	$ 23,250	$ 8,020	$ 66,230
	CURB AND GUTTER B618	LF	5,100	$ 28.00	$ 142,800	100%	0%	0%	$ 142,800	$ -	$ -
	CURB AND GUTTER B624	LF	15,900	$ 40.00	$ 636,000	24%	8%	68%	$ 151,650	$ 52,320	$ 432,020
	CURB AND GUTTER D412	LF	1,800	$ 27.00	$ 48,600	0%	0%	100%	$ -	$ -	$ 48,600
	CURB AND GUTTER D424	LF	9,300	$ 30.00	$ 279,000	0%	0%	100%	$ -	$ -	$ 279,000
	CURB AND GUTTER R424	LF	1,200	$ 30.00	$ 36,000	0%	100%	0%	$ -	$ 36,000	$ -
	CURB AND GUTTER S524	LF	1,600	$ 35.00	$ 56,000	0%	100%	0%	$ -	$ 56,000	$ -
	CONCRETE MEDIAN BARRIER (42")	LF	3,400	$ 150.00	$ 510,000	0%	0%	100%	$ -	$ -	$ 510,000
	8" CONCRETE DRIVEWAY PAVEMENT	SY	1,700	$ 100.00	$ 170,000	0%	0%	100%	$ -	$ -	$ 170,000
	6" CONCRETE DRIVEWAY PAVEMENT	SY	100	$ 82.00	$ 8,200	0%	0%	100%	$ -	$ -	$ 8,200
	6" CONCRETE WALK	SF	5,200	$ 45.00	$ 234,000	5%	50%	45%	$ 10,940	$ 117,980	$ 105,080
	4" CONCRETE WALK	SF	27,100	$ 20.00	$ 542,000	5%	50%	45%	$ 25,330	$ 273,280	$ 243,390
	4" CONCRETE MEDIAN	SF	37,300	$ 20.00	$ 746,000	24%	8%	68%	$ 177,880	$ 61,370	$ 506,740
	GUARDRAIL	LF	2,800	$ 67.00	$ 187,600	0%	0%	100%	$ -	$ -	$ 187,600
	Subtotal				$ 19,108,000				$ 3,647,000	$ 2,757,000	$ 12,704,000
STRUCTURAL ITEMS											
	MOD S 36" BARRIER	LF	2,900	$ 150.00	$ 435,000	0%	0%	100%	$ -	$ -	$ 435,000
(10)	COLUMN SUPPORTED EMBANKMENT	SY	7,600	$ 270.00	$ 2,052,000	0%	0%	100%	$ -	$ -	$ 2,052,000
	PREFABRICATED MODULAR BLOCK RETAINING WALL	SF	3,700	$ 100.00	$ 370,000	50%	50%	0%	$ 185,000	$ 185,000	$ -
(9)	NW MSE WALL	LS	1	$ 1,249,700.00	$ 1,249,700	0%	0%	100%	$ -	$ -	$ 1,249,700
(9)	NE MSE WALL	LS	1	$ 1,468,800.00	$ 1,468,800	0%	0%	100%	$ -	$ -	$ 1,468,800
(9)	SE CIP RETAINING WALL	LS	1	$ 208,550.00	$ 208,600	0%	0%	100%	$ -	$ -	$ 208,600
(9)	BRIDGE APPROACH	LS	1	$ 602,200.00	$ 602,200	0%	0%	100%	$ -	$ -	$ 602,200
	REINFORCED SOIL SLOPE	SY	890	$ 95.00	$ 84,600	0%	0%	100%	$ -	$ -	$ 84,600
(9)	BRIDGE	LS	1	$ 3,740,000.00	$ 3,740,000	0%	0%	100%	$ -	$ -	$ 3,740,000
	Subtotal				$ 10,211,000				$ 185,000	$ 185,000	$ 9,841,000
	Major Roadway & Structural Construction Subtotal				**$ 29,319,000**				**$ 3,832,000**	**$ 2,942,000**	**$ 22,545,000**
SPECIAL LUMP SUM CONSTRUCTION ITEMS											
	REMOVE SIGNAL SYSTEM	LS	1	$ 20,000.00	$ 20,000	0%	50%	50%	$ -	$ 10,000	$ 10,000
	UTILITY RELOCATIONS (WATERMAIN & SANITARY)	LS	1	$ 375,000.00	$ 375,000	0%	0%	100%	$ -	$ -	$ 375,000
	NEW CITY UTILITIES (WATERMAIN & SANITARY)	LS	1	$ 120,000.00	$ 120,000	100%	0%	0%	$ 120,000	$ -	$ -
	VISUAL QUALITY ELEMENTS	LS	1	$ 750,000.00	$ 750,000	100%	0%	0%	$ 750,000	$ -	$ -
(5)	LIGHTING	LS	1	$ 510,000.00	$ 510,000	25%	0%	75%	$ 130,000	$ -	$ 380,000
(6)	URBAN DRAINAGE	LS	1	$ 5,860,000.00	$ 5,860,000	28%	4%	68%	$ 1,638,373	$ 241,053	$ 3,980,574
	Subtotal				$ 7,635,000				$ 2,638,000	$ 251,000	$ 4,746,000
PERCENTAGE ITEMS											
	MOBILIZATION		5%	of all roadway	$ 1,466,000	13%	10%	77%	$ 191,607	$ 147,105	$ 1,127,288
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%	of all roadway	$ 439,800	0%	23%	77%	$ -	$ 101,613	$ 338,187
	SIGNING & PAVEMENT MARKINGS		3%	of all roadway	$ 879,600	13%	10%	77%	$ 114,964	$ 88,263	$ 676,373
	TURF ESTABLISHMENT AND EROSION CONTROL		5%	of all roadway	$ 1,466,000	0%	23%	77%	$ -	$ 338,712	$ 1,127,288
	TRAFFIC CONTROL/STAGING		5%	of all roadway	$ 1,466,000	13%	10%	77%	$ 191,607	$ 147,105	$ 1,127,288
	CONTINGENCY FOR MISSING ITEMS		15%	of all roadway	$ 4,397,900	13%	10%	77%	$ 574,807	$ 441,305	$ 3,381,788
	Subtotal				$ 10,115,000				$ 1,073,000	$ 1,264,000	$ 7,778,000
	Construction Cost (2024 Dollars)				$ 47,100,000				$ 7,540,000	$ 4,460,000	$ 35,070,000
(8)	Anticipated Right-of-Way/Easement Cost (Dollars)				$ 2,200,000	44%	56%		$ 976,000	$ 1,224,000	$ -
	Engineering Cost (2024 Dollars)				$ 7,900,000	17%	9%	74%	$ 1,352,000	$ 740,600	$ 5,823,200
	Total Cost (2024 Dollars)				**$ 57,200,000**				**$ 9,870,000**	**$ 6,420,000**	**$ 40,890,000**

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 6 inch aggregate base
5. Includes wire, conduit, source of power, base, etc. Assuming MnDOTs LED-40 foot standard poles
6. Storm sewer cost is 20% of roadway construction cost
7. Based on preliminary geotechnical investigation/analysis and therefore subject to change.
8. Right-of-way/easement cost assumes 3x the assessed property value for Fee Title, 2x for Permanent Easement, 1.5x for Temporary Easement.
   See attached Right-of-Way/Easement breakdown for details.
9. See attached Structural breakdown for details.
10. Includes geogrid stabilization pad/load transfer platform. Estimated cost based on preliminary soil boring results and consultation with contractor.

Right-of-Way/Easement Estimate

SHERBURNE COUNTY TH 169/COUNTY ROAD 4 INTERCHANGE PROJECT
S.P. 7106-92

						ACQUISITION TYPE/SIZE								MULTIPLICATION FACTOR							
														3.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0
BMI PARCEL #	PID	PROPERTY OWNER	EXISTING PARCEL SIZE (ACRE)	PROPERTY VALUE	VALUE PER ACRE	PROP. PERM. R/W ESMT (SF)	PROP. TEMP. ESMT. (SF)	PROP. TEMP. ESMT. IN EX. D/U (SF)	PROP. D/U (SF)	PROP. D/U W/INGRESS/ EGRESS ESMT. (SF)	PROP. SIDEWALK ESMT. (SF)	PROP. SIGHT ESMT. (SF)	PROP. RET. WALL MAINT. (SF)	PROP. PERM. R/W ESMT (SF)	PROP. TEMP. ESMT. (SF)	PROP. TEMP. ESMT. IN EX. D/U (SF)	PROP. D/U (SF)	PROP. D/U W/INGRESS/ EGRESS ESMT. (SF)	PROP. SIDEWALK ESMT. (SF)	PROP. SIGHT ESMT. (SF)	PROP. RET. WALL MAINT. (SF)
1	95-016-4300	CITY OF ZIMMERMAN	23.15	$ 413,600.00	$ 17,866.09									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2	95-438-0130	RANDALL HANSON	16.91	$ 107,000.00	$ 6,327.62	27,800	22,774	1,551						$ 12,114.86	$ 4,962.30	$ 337.95	$ -	$ -	$ -	$ -	$ -
3	95-438-0010	MIKE LARSON	15.63	$ 28,900.00	$ 1,849.01		8,540	4,774						$ -	$ 543.75	$ 303.97	$ -	$ -	$ -	$ -	$ -
4	30-016-4104	VIRGIL & LILLIAN JOHNSON TRUST	10.56	$ 225,400.00	$ 21,344.70	49,898	32,008							$ 73,351.08	$ 23,526.21	$ -	$ -	$ -	$ -	$ -	$ -
5	95-442-0110	RANDALL HANSON	4.37	$ 95,200.00	$ 21,784.90	876		4,779	131					$ 1,314.30	$ -	$ 3,585.06	$ 131.03	$ -	$ -	$ -	$ -
6	95-442-0105	RANDALL HANSON	11.97	$ 118,700.00	$ 9,916.46		24,128	3,724						$ -	$ 8,239.13	$ 1,271.66	$ -	$ -	$ -	$ -	$ -
7	95-438-0110	FAITH COMMUNITY LUTHERAN CHURCH	9.09	$ 160,300.00	$ 17,634.76		1,200	595						$ -	$ 728.71	$ 361.32	$ -	$ -	$ -	$ -	$ -
8	30-016-4205	VIRGIL & LILLIAN JOHNSON TRUST	3.19	$ 118,100.00	$ 37,021.94	18,949	9,182							$ 48,314.66	$ 11,705.77	$ -	$ -	$ -	$ -	$ -	$ -
9	30-016-4210	KRIESEL-JACOBSON POST 560	1.98	$ 7,300.00	$ 3,686.87									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
10	95-016-1302	MARTHA & HEIM STILLER, LARRY M	14.85	$ 96,600.00	$ 6,505.05									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
11	95-016-1300	BRIAN R & THERESA L SANDY	12.06	$ 185,000.00	$ 15,339.97		7,440			24,402				$ -	$ 3,930.07	$ -	$ -	$ 17,186.68	$ -	$ -	$ -
12	95-016-3106	NELSON NURSERY, INC	4.29	$ 21,200.00	$ 4,941.72		4,970							$ -	$ 845.74	$ -	$ -	$ -	$ -	$ -	$ -
13	95-016-3105	MAE H THOMSON TRUSTEE	43	$ 181,000.00	$ 4,209.30									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
14	95-016-2402	CITY OF ZIMMERMAN	36.4	$ 426,700.00	$ 11,722.53		12,257				1,308			$ -	$ 4,947.76	$ -	$ -	$ -	$ 704.00	$ -	$ -
15	95-016-2401	NELSON NURSERY, INC	5.58	$ 235,900.00	$ 42,275.99	12,863	8,908							$ 37,451.52	$ 12,968.13	$ -	$ -	$ -	$ -	$ -	$ -
16	95-016-1305	NELSON NURSERY, INC	0.43	$ 93,700.00	$ 217,906.98									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
17	95-016-1310	CLAYTON & CONNIE FRANK	0.56	$ 73,200.00	$ 130,714.29									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
18	95-016-1315	DAVID ZIEMKE	0.77	$ 114,300.00	$ 148,441.56									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
19	95-423-0205	NELSON NURSERY, INC	0.52	$ 67,500.00	$ 129,807.69	836	4,500					2,672		$ 7,473.78	$ 20,114.83	$ -	$ -	$ -	$ -	$ 15,924.98	$ -
20	95-423-0010	CITY OF ZIMMERMAN	1		$ -		3,810				4,256			$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
21	95-016-2101	CASA Y TIERRA LLC*	0.64	$ 19,800.00	$ 30,937.50	27,878								$ 59,399.15	$ -	$ -	$ -	$ -	$ -	$ -	$ 125,000.00
22	95-016-1200	JOHN LAWVER & BRENDA LAWVER	39.96	$ 316,100.00	$ 7,910.41	150,519	14,355		81,507					$ 82,001.86	$ 3,910.26	$ -	$ 29,603.02	$ -	$ -	$ -	$ -
23	95-433-0105	REALTY INCOME PROPERTIES 3 LLC	1.55	$ 405,100.00	$ 261,354.84	5,924	5,000				385		1,771	$ 106,629.89	$ 44,999.11	$ -	$ -	$ -	$ 4,619.91	$ -	$ 21,251.58
24	95-474-0010	CITY OF ZIMMERMAN	0.29	$ 2,300.00	$ 7,931.03									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	95-474-0105	MTK DEVELOPMENT, LLC	0.5	$ 108,900.00	$ 217,800.00									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
26	95-474-0110	MTK DEVELOPMENT, LLC	1.05	$ 183,000.00	$ 174,285.71			1,216			78			$ -	$ -	$ 7,297.91	$ -	$ -	$ 624.16	$ -	$ -
27	95-457-0120	PRAIRIE HILL MONTESSORI, LLC	0.53	$ 92,300.00	$ 174,150.94	2,583	876	802	1,015					$ 30,980.16	$ 5,253.31	$ 4,809.54	$ 8,115.85	$ -	$ -	$ -	$ -
28	95-423-0106	BRIAN E RAVNAAS	0.3	$ 39,900.00	$ 133,000.00		2,324		122					$ -	$ 10,643.66	$ -	$ 745.00	$ -	$ -	$ -	$ -
29	95-402-0360	BRIAN E RAVNAAS	0.14	$ 16,800.00	$ 120,000.00									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
30	95-402-0370	BRIAN E RAVNAAS	0.04	$ 9,600.00	$ 240,000.00									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
31	95-402-0350	BRIAN E RAVNAAS	0.26	$ 59,900.00	$ 230,384.62									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
32,32A	95-009-4301	DONALD R PETERSON	26.25	$ 264,600.00	$ 10,080.00		1,945	1,065						$ -	$ 675.12	$ 369.67	$ -	$ -	$ -	$ -	$ -
33	95-009-3406	HOLIDAY STATION STORE, INC	1	$ 213,400.00	$ 213,400.00	3,021	6,865	1,725						$ 44,399.55	$ 50,447.35	$ 12,676.14	$ -	$ -	$ -	$ -	$ -
34	95-009-3415	HOLIDAY STATION STORE, INC	0.22	$ 4,200.00	$ 19,090.91	9,319								$ 12,252.63	$ -	$ -	$ -	$ -	$ -	$ -	$ -
35	95-009-3450	D7-3 LLC & FOURTEEN FOODS LLC	1.09	$ 16,300.00	$ 14,954.13	41,122	760							$ 42,351.49	$ 391.36	$ -	$ -	$ -	$ -	$ -	$ -
36	95-421-0230	D7-3 LLC & FOURTEEN FOODS LLC	0.53	$ 138,500.00	$ 261,320.75	218	1,009	1,013					1,249	$ 3,923.41	$ 9,079.64	$ 9,115.63	$ -	$ -	$ -	$ -	$ 14,985.75
37	95-421-0180	NCPH TWO LLC	0.38	$ 82,800.00	$ 217,894.74			450						$ -	$ -	$ 3,376.47	$ -	$ -	$ -	$ -	$ -
38	95-009-3401	NCPH TWO LLC	0.14	$ 30,500.00	$ 217,857.14		148							$ -	$ 1,110.29	$ -	$ -	$ -	$ -	$ -	$ -
39	95-009-3400	RESTORING LIVES CHURCH OF GOD PROPH	1.46	$ 42,700.00	$ 29,246.58	2,156	20,477							$ 4,342.67	$ 20,622.66	$ -	$ -	$ -	$ -	$ -	$ -
40	95-565-0050	CITY OF ZIMMERMAN	0.12	$ 900.00	$ 7,500.00									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
41	95-567-0205	LAURENCE & SHERYL WINTER REV TRUST	0.4	$ 33,100.00	$ 82,750.00	375	3,018	2,353						$ 2,137.14	$ 8,599.85	$ 6,704.92	$ -	$ -	$ -	$ -	$ -
42	95-566-0010	CITY OF ZIMMERMAN	0.11	$ 12,500.00	$ 113,636.36									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
43	95-566-0105	PA DEPOT APARTMENTS LLC	1.76	$ 1,950,000.00	$ 1,107,954.55		406	3,617			293		600	$ -	$ 15,490.00	$ 137,998.33	$ -	$ -	$ 14,904.99	$ -	$ 30,522.16
44	95-009-3410	CASA Y TIERRA LLC	0.53	$ 9,000.00	$ 16,981.13									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
45	95-575-0105	BANK OF ELK RIVER	1.33	$ 275,200.00	$ 206,917.29									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
45	95-575-0110	BANK OF ELK RIVER (CARIBOU COFFEE)	0.33	$ 109,000.00	$ 330,303.03									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
46	95-571-0020	COURTYARD APARTMENTS	10.69	$ 609,400.00	$ 57,006.55									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
47	30-004-0000	SHERBURNE COUNTY	3.55	$ 15,500.00	$ 4,366.20									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
48	30-009-2100	F.B. & RUDQUIST SCHREIBER TRUSTEE	10.62	$ 186,000.00	$ 17,514.12									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
49	30-009-2102	DAVID W GRUHLKE	13.84	$ 342,400.00	$ 24,739.88									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
50	30-009-2103	STEVEN & DEBORAH COMPTON	12.39	$ 198,400.00	$ 16,012.91		7,260							$ -	$ 4,003.23	$ -	$ -	$ -	$ -	$ -	$ -
51	30-009-2115	BRIAN R & THOE SCHUH, KRISTA L	1.55	$ 305,900.00	$ 197,354.84									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
52	30-009-2203	LEONARD & JANA SYVERSON	4.97	$ 167,700.00	$ 33,742.45	15,137	12,283							$ 35,176.28	$ 14,271.99	$ -	$ -	$ -	$ -	$ -	$ -
53	30-009-2101	JOSHUA L LARSON	2.51	$ 146,800.00	$ 58,486.06									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
54	30-004-3300	ROBERT E BRAZIER	2.23	$ 144,500.00	$ 64,798.21	125,094	84,119							$ 558,255.29	$ 187,698.36	$ -	$ -	$ -	$ -	$ -	$ -
55	30-004-3400	JOSEPH FRANK BEAN	35.58	$ 80,200.00	$ 2,254.08	54,375	33,215		38,110					$ 8,441.14	$ 2,578.14	$ -	$ 3,944.11	$ -	$ -	$ -	$ -
56	30-004-3440	JOSEPH FRANK BEAN	22.84	$ 71,100.00	$ 3,112.96	42,099	25,870							$ 9,025.65	$ 2,773.15	$ -	$ -	$ -	$ -	$ -	$ -
57	30-004-3405	KERMIT & PEGGY BODE	2.9	$ 344,800.00	$ 118,896.55									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
58	95-423-0110	VENTSCH INVESTMENT PROPERTIES LLC	0.52	$ 65,700.00	$ 126,346.15		728							$ -	$ 3,167.36	$ -	$ -	$ -	$ -	$ -	$ -
59	95-421-0220	4760 LLC	0.46	$ 90,800.00	$ 197,391.30									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
60	95-449-0105	ALOIS J WARZECHA	0.64	$ 104,500.00	$ 163,281.25									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
61	95-469-0010	CITY OF ZIMMERMAN	1.15	$ 8,200.00	$ 7,130.43									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
62	95-009-3402	ZIEGLER CUSTOM HOME INC	0.04	$ 9,000.00	$ 225,000.00									$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
0	30-016-4100	MARTHA K STILLER	9.06	$ 72,900.00	$ 8,046.36	34,305	10,266							$ 19,010.35	$ 2,844.49	$ -	$ -	$ -	$ -	$ -	$ -
00	95-429-0010	JEFFREY SMITH & MERWIN SMITH	0.17	$ 25,900.00	$ 152,352.94		875					865		$ -	$ 4,590.52	$ -	$ -	$ -	$ -	$ 6,050.75	$ -
		TOTALS				625,347	371,516	27,664	120,885	24,402	6,320	3,537	3,620	$1,198,346.85	$485,662.24	$188,208.56	$42,539.01	$17,186.68	$20,853.06	$21,975.73	$191,759.49

* Billboard relocation cost shown in Wall Maintenance Easement column.

Total Estimated Cost	$2,166,531.62

BOLTON & MENK

Real People. Real Solutions.

TH 169/CSAH 4 Interchange - Est. Construction Cost: Alternative A: Roadway Structural Item Estimate

Bolton & Menk, Inc.
7533 Sunwood Drive NW
Suite 206
Ramsey, MN 55303
Phone (763) 433-2851
Fax (763) 427-0833
4/10/2023

ITEM #	ITEM	UNIT	UNIT PRICE	ESTIMATED QUANTITIES		PROJECT TOTAL	EST. PRICE
				ALT. A - CIP Semi-Integral on Piles	-		
	SW CIP RETAINING WALL						
	NONE - ALL INCLUDED IN BRIDGE						
	SE CIP RETAINING WALL						
2401.507	STRUCTURAL CONCRETE (1G52)	CU YD	$600.00	60		60	$36,000
2401.507	STRUCTURAL CONCRETE (3B52)	CU YD	$1,000.00	90		90	$90,000
2401.508	REINFORCEMENT BARS	POUND	$1.50	5500		5500	$8,250
2401.508	REINFORCEMENT BARS (EPOXY COATED)	POUND	$1.75	8800		8800	$15,400
2452.502	C-I-P CONCRETE TEST PILE 70 FT LONG 12"	EACH	$8,000.00	1		1	$8,000
2452.502	PILE ANALYSIS	EACH	$3,500.00	1		1	$3,500
2452.502	PILE REDRIVING	EACH	$600.00	1		1	$600
2452.503	C-I-P CONCRETE PILING 12"	LIN FT	$65.00	720		720	$46,800
	NW MECHANICALLY STABILIZED EARTH WALL						
	MOMENT SLAB BY LF (INCLUDES CONC/BARS/PARAPET)	LIN FT	$340.00	780		780	$265,200
2411.604	MECHANICALLY STABILIZED EARTH WALL	SQ YD	$700.00	1130		1130	$791,000
2451.607	STRUCTURAL BACKFILL MOD (CV)	CU YD	$45.00	4300		4300	$193,500
	NE MECHANICALLY STABILIZED EARTH WALL						
	MOMENT SLAB BY LF (INCLUDES CONC/BARS/PARAPET)	LIN FT	$340.00	920		920	$312,800
2411.604	MECHANICALLY STABILIZED EARTH WALL	SQ YD	$700.00	1330		1330	$931,000
2451.607	STRUCTURAL BACKFILL MOD (CV)	CU YD	$45.00	5000		5000	$225,000
	BRIDGE APPROACH						
2406.504	BRIDGE APPROACH PANELS	SQ YD	$350.00	770		770	$269,500
2406.503	EXPANSION JOINTS, DESIGN E8	LIN FT	$100.00	167		167	$16,700
2451.607	STRUCTURAL BACKFILL (CV)	CU YD	$40.00	7900		7900	$316,000
	ESTIMATED CONSTRUCTION COST - Alternative A: Roadway Structural Item Estimate:						**$3,530,000**

**Assumed pile length of 60'-0"*

BOLTON & MENK

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TH 169/CSAH 4 Interchange - Est. Construction Cost: Alternative A: Semi-Integral Abutment on Pile Footing

Bolton & Menk, Inc.
7533 Sunwood Drive NW
Suite 206
Ramsey, MN 55303
Phone (763) 433-2851
Fax (763) 427-0833
4/10/2023

ITEM #	ITEM	UNIT	UNIT PRICE	ESTIMATED QUANTITIES		PROJECT TOTAL	EST. PRICE
				ALT. A - CIP Semi-Integral on Piles	-		
2401.503	TYPE S BARRIER CONCRETE 36" (3S52)	LIN FT	$125.00	450		450	$56,250
2401.503	TYPE S BARRIER CONCRETE 42" (3S52)	LIN FT	$130.00	450		450	$58,500
2401.507	STRUCTURAL CONCRETE (1G52)	CU YD	$600.00	520		520	$312,000
2401.507	STRUCTURAL CONCRETE (3B52)	CU YD	$1,000.00	760		760	$760,000
2401.508	REINFORCEMENT BARS	POUND	$1.50	51500		51500	$77,250
2401.508	REINFORCEMENT BARS (EPOXY COATED)	POUND	$1.75	139000		139000	$243,250
2401.508	REINFORCEMENT BARS (STAINLESS-75KSI)	POUND	$4.00	2000		2000	$8,000
2401.618	BRIDGE SLAB CONCRETE (3YHPC-S)	SQ FT	$35.00	10470		10470	$366,450
2402.502	BEARING ASSEMBLY	EACH	$1,575.00	28		28	$44,100
2404.518	CONCRETE WEARING COURSE (3U17A)	SQ FT	$15.00	16800		16800	$252,000
2405.503	PRESTRESSED CONCRETE BEAMS MN45	LIN FT	$400.00	1866		1866	$746,400
2405.503	DIAPHRAGMS FOR PREST BEAMS MN45	LIN FT	$100.00	132		132	$13,200
2411.618	ARCHITECTURAL CONCRETE TEXTURE	SQ FT	$20.00	5200		5200	$104,000
2411.618	ARCHITECTURAL SURFACE FINISH (SINGLE COLOR)	SQ FT	$2.50	5200		5200	$13,000
2451.601	STRUCTURE EXCAVATION	LUMP SUM	$75,000.00	1		1	$75,000
2452.502	C-I-P CONCRETE TEST PILE 70 FT LONG 12"	EACH	$8,000.00	8		8	$64,000
2452.502	PILE ANALYSIS	EACH	$3,500.00	8		8	$28,000
2452.502	PILE REDRIVING	EACH	$600.00	8		8	$4,800
2452.503	C-I-P CONCRETE PILING 12"	LIN FT	$65.00	7600		7600	$494,000
2502.501	DRAINAGE SYSTEM TYPE (B910)	LUMP SUM	$5,000.00	1		1	$5,000
2545.501	CONDUIT SYSTEM	LUMP SUM	$15,000.00	1		1	$15,000
ESTIMATED CONSTRUCTION COST - Alternative A: Semi-Integral Abutment on Pile Footing:							**$3,740,000**

**Assumed pile length of 60'-0"*