

BOLTON HIGHWAY 10 CORRIDOR STUDY VICTORIA-CHASKA AREA

Highway 10 Corridor Study Victoria-Chaska Area

Implementation Plan

December 2020

																				OC		TRA	NSPORTATION COUR
	Project		Years		Potential									Co	ost								
ority	Number	Sub-Area	Estimated	Project Description	Funding	Lead Agency	Co	nstruc	tion	Right-	of-Way		Project Devel	opment	t and Delivery	Total (2020 D	ollars)	Year		Total ected 3% inf		Comments
	S1	Highway 11	2-3 Years	CSAH 11 Improvements North of Railroad Xing to South of Marsh Lake Road	CO, Local	County	\$1,700,000	to	\$1,870,000	\$22,000 t	0	\$20,000	\$340,000	to	\$370,000	\$2,062,000	to	\$2,270,000	2022	\$2,190,000	to	\$2,410,000	
	S2	Eastern	4-6 Years	CSAH 10 Reconstruction from West of White Oak Drive to E. of Crest Drive	CO, Local, RS, TH	County	\$4,260,000	to	\$4,690,000	\$490,700 t	o :	\$540,000	\$850,000	to	\$940,000	\$5,600,700	to	\$6,160,000	2024	\$6,300,000	to	\$6,930,000	
	S3	Eastern	4-6 Years	TH 41 Grade Separated Pedestrian Crossing North of CSAH 10	Local, SRTS	City	\$1,200,000	to	\$1,320,000	\$66,300 t	0	\$70,000	\$250,000	to	\$280,000	\$1,516,300	to	\$1,670,000	2024	\$1,710,000	to	\$1,880,000	
	S4	Eastern	4-6 Years	CSAH 10 Grade Separated Pedestrian Crossing East of TH 41	CO, Local, RS	City, County	\$950,000	to	\$1,050,000	\$124,100 t	o :	\$140,000	\$200,000	to	\$220,000	\$1,274,100	to	\$1,400,000	2024	\$1,430,000	to	\$1,580,000	
	S5	Eastern	4-6 Years	CSAH 10/Bavaria Road Intersection Improvements	CO, Local, RS	County	\$2,658,000	to	\$2,920,000	\$110,000 t	o :	\$120,000	\$550,000	to	\$610,000	\$3,318,000	to	\$3,650,000	2024	\$3,730,000	to	\$4,110,000	
	S6	Eastern	4-6 Years	CSAH 10 Reconstruction from Bavaria Road to White Oak Drive	CO, Local, RS	County	\$1,194,600	to	\$1,310,000	\$160,600 t	0	\$180,000	\$250,000	to	\$280,000	\$1,605,200	to	\$1,770,000	2024	\$1,810,000	to	\$1,990,000	
	S7	Eastern	4-6 Years	CSAH 10/Park Ridge Drive Intersection Improvements	CO, Local, SRTS	County	\$2,868,800	to	\$3,160,000	\$175,900 t	o :	\$190,000	\$550,000	to	\$610,000	\$3,594,700	to	\$3,950,000	2024	\$4,050,000	to	\$4,450,000	
	S8	Eastern	4-6 Years	ISD #112 School Site Planning Study - Near Crest Drive	CO, Local	City, County	\$0	to	\$0	\$0 t	o	\$0	\$40,000	to	\$40,000	\$40,000	to	\$40,000	2024	\$50,000	to	\$50,000	
				Subtotal			\$14,831,400	to	\$16,320,000	\$1,149,600 t	o \$	1,260,000	\$3,030,000	to	\$3,350,000	\$19,011,000	to	\$20,910,000		\$21,270,000	to	\$23,400,000	
	M1	Western	4-6 Years	CSAH 10/CSAH 11 Intersection Improvements	CO, RS	County	\$3,900,000	to	\$4,290,000	\$50,000 t	0	\$60,000	\$780,000	to	\$860,000	\$4,730,000	to	\$5,200,000	2026	\$5,650,000	to	\$6,210,000	
	M2	Highway 11	6-10 Years	CSAH 11 Improvements North of CSAH 10 to Railroad Xing	CO, Local	County	\$1,894,000	to	\$2,080,000	\$20,000 t	0	\$20,000	\$380,000	to	\$420,000	\$2,294,000	to	\$2,520,000	2026	\$2,740,000	to	\$3,010,000	
	M3	Western	6-10 Years	CSAH 10 Reconstruction from East of Railroad Xing to W. Creek Lane	CO, Local	County	\$8,940,000	to	\$9,830,000	\$855,800 t	o :	\$940,000	\$1,790,000	to	\$1,970,000	\$11,585,800	to	\$12,740,000	2026	\$13,830,000	to	\$15,210,000	Rural typical section as
				Subtotal			\$14,734,000	to	\$16,200,000	\$925,800 t	o \$	1,020,000	\$2,950,000	to	\$3,250,000	\$18,609,800	to	\$20,460,000		\$22,220,000	to	\$24,430,000	
	L1	Eastern	12-15 Years	CSAH 10 Reconstruction from East of Park Ridge Drive to CSAH 61	CO, Local	County	\$5,431,500	to	\$5,970,000	\$107,500 t	o :	\$120,000	\$1,100,000	to	\$1,210,000	\$6,639,000	to	\$7,300,000	2033	\$9,750,000	to	\$10,720,000	
	L2	Eastern	12-15 Years	CSAH 10 Reconstruction from East of TH 212 Ramps to West of Bavaria Road	CO, Local	County	\$2,273,000	to	\$2,500,000	\$20,000 t	0	\$20,000	\$450,000	to	\$500,000	\$2,743,000	to	\$3,020,000	2035	\$4,270,000	to	\$4,710,000	
	L3	Western	15-20 Years	CSAH 10 Reconstruction from CSAH 43 West to East of Railroad Xing	CO, Local	County	\$9,400,000	to	\$10,340,000	\$1,559,000 t	o \$	1,710,000	\$1,880,000	to	\$2,070,000	\$12,839,000	to	\$14,120,000	2038	\$21,860,000	to	\$24,040,000	Completed in coordination development.
				Subtotal			\$17,104,500	to	\$18,810,000	\$1,686,500 t	o \$	1,850,000	\$3,430,000	to	\$2,570,000	\$22,221,000	to	\$24,440,000		\$35,880,000	to	\$39,470,000	
				Total 20 Year Investment			\$46,669,900	to	\$51,330,000	\$3,761,900 t	o \$	4,130,000	\$9,410,000	to	\$9,170,000	\$59,841,800	to	\$65,810,000		\$79,370,000	to	\$87,300,000	
	01	Eastern		Local Trail - City of Chaska Ridge Lane to Ravoux Road	Local	Chaska	\$900,000	to	\$990,000	\$0 t	0	\$0	\$180,000	to	\$200,000	\$1,080,000	to	\$1,190,000	2030	\$1,450,000	to	\$1,600,000	Cost include trail along nor CSAH 10.
	02	Eastern		Trail Realignment And Underpass Near Ravoux Rd	CO, Local	Chaska	\$0	to	\$0	\$0 t	0	\$0	\$0	to	\$0	\$0	to	\$0	2030	TBD	to	TBD	
	O3	Eastern		CSAH 10/White Oak Drive Intersection Traffic Signal Improvement	CO, Local	County	\$250,000	to	\$280,000	\$0 t	0	\$0	\$50,000	to	\$60,000	\$300,000	to	\$330,000	2035	\$470,000	to	\$510,000	May complete with
	O4	Eastern		Local Roads - City of Chaska Old Audubon Rd/Brandon Blvd/Ravoux Rd realignment	Local	Chaska, County	-	to	-	- t	0	-	-	to	-	-	to	-	TBD	-	to	-	
	O5	Eastern		Local Roads - City of Chaska Victoria Drive and Bavaria Lane	CO, Local	County	-	to	-	- t	o	-	-	to	-	-	to	-	TBD	-	to	-	
	O6	Eastern		Local Roads - City of Chaska Prescott Lane, South Connection	Local	Chaska	-	to	-	- t	o	-	-	to	-	-	to	-	TBD	-	to	-	
	07	Western		Local Roads - City of Victoria Collector Roadway System	Local	Victoria	-	to	-	- t	o	-	-	to	-	-	to	-	TBD	-	to	-	
	O8	Western		Development Access(es) Victoria Worx Subarea Plan Access	Local	Victoria, County	-	to	-	- t	o	-	-	to	-	-	to	-	TBD	-	to	-	
	O9	Western		CSAH 10 Grade Separated Railroad Crossing	со	County	-	to	-	- t	o	-	-	to	-	-	to	-	2019	-	to	-	
	010	Highway 11		CSAH 11 Grade Separated Railroad Crossing	со	County		to			0			to			to		2022	-	to		

FUNDIN				
со	County State Aid Highway, County Sales Tax, Wheelage, or Other County Funds	MHFP	Minnesota Highway Freight Program Funds (State)	Note: Construction and Project Development and Delivery cost are est
HSIP	Highway Safety Improvement Program Funds (Federal)	PRIV	Private Funding / Development (Private)	Note: Construction Cost do NOT include City Utilities (Sanitary/Watern
LOCAL	City Funding MSAS	RS	Regional Solicitation (Federal)	Note: Right-of-Way costs are preliminary and will be finalized at a late
LPP	Local Parentship Program	SRTS	Safe Routes to School	
LRIP	Local Road Improvement Program Funds (State)	тн	Trunk Highway Funds (State)	

CAUSE:

POTENTIAL SCHEDULE ADJUSTMENTS

CHANGE: 03 moves to established timeline or schedule

Safety and operations concerns arise at the White Oak Drive Intersection

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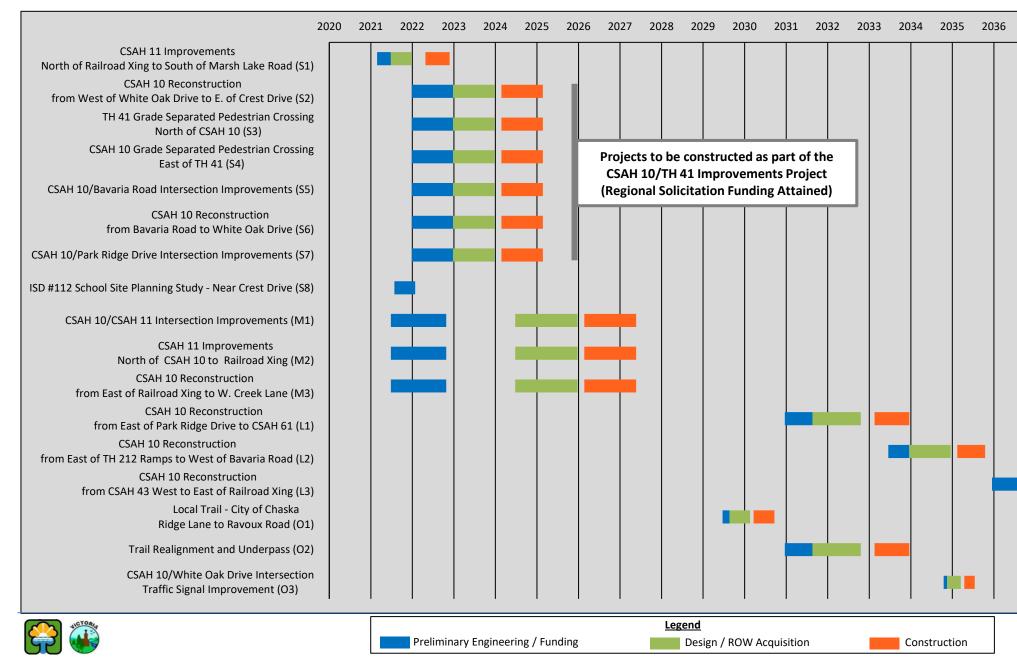


estimate cost plus 10% termain) ater date



Schedule to Deliver Key Projects

December 2020





203	37 20	38 20	39 20	40 20	41





Implementation Plan

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CSAH 11 Improvements North of Railroad Xing to South of Marsh Lake Road (S1)



	2020 Dollars	2022 Dollars								
Construction Cost	\$1,700,000	\$1,800,000		2022 Construction		stion	2020	202	20	202 202
ROW Cost	\$22,000	\$20,000		2022	Construc			1		1
Project Development and Delivery	\$340,000	\$360,000								
Total Cost to Deliver Project	\$2,062,000	\$2,180,000					Preliminary Eng / Env Doc / Funding (\$50k)			
Item	Duration (months)	Start Date		End Date	% of Proj Dev and Deliv	Proj Dev / Delivery	Final Design and ROW Acq (\$140k)			
Preliminary Eng / Env Doc / Funding (\$50k)	4	3/1/2021		7/1/2021	15%	\$50,000				
Final Design and ROW Acq (\$140k)	6	7/1/2021		1/1/2022	40%	\$140,000				
Letting	2	3/1/2022	\rightarrow	5/1/2022	0%	\$0	Letting			
Construction Services (\$160k \$1.8M)	7	5/1/2022	\rightarrow	12/1/2022	45%	\$160,000				
TOTAL					100%	\$350,000				
		3					Construction Services (\$160k \$1.8M)			
COUNTY TRANSPORTATION							\\metrosouth4	4\h\CACO\T44117142\2 Preliminary\C Reports\	Final Reports\Implementation\Final Funding Plans\[II	nplementation Plan (01-21-21).xlsx]M3-West_Track to C

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Highway 10 Corridor Study Victoria-Chaska Area

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CSAH 10 Reconstruction

from West of White Oak Drive to E. of Crest Drive (S2)



	2020 Dollars	2024 Dollars										
Construction Cost	\$4,260,000	\$4,790,000		202	4 Construe	tion	2021	2022	2023	2024	2025	2026
ROW Cost	\$490,700	\$550,000		202-	+ construc	stion		1	1	1	1	1
Project Development and Delivery	\$850,000	\$960,000										
Total Cost to Deliver Project	\$5,600,700	\$6,300,000					Preliminary Eng / Env Doc / Funding (\$140k)					
	Duration				% of Proj	Proj Dev /						
Item	(months)	Start Date	\rightarrow	End Date	Dev and	Delivery	Final Design and ROW Acq (\$380k)					
					Deliv							
Preliminary Eng / Env Doc / Funding (\$140k)	12	1/1/2022		1/1/2023	15%	\$140,000						
Final Design and ROW Acq (\$380k)	12	1/1/2023	>	1/1/2024	40%	\$380,000						
Letting	2	1/1/2024	\longrightarrow	3/1/2024	0%	\$0	Letting					
Construction Services (\$430k \$4.79M)	12	3/1/2024	\rightarrow	3/1/2025	45%	\$430,000						
TOTAL					100%	\$950,000						
							Construction Services (\$430k \$4.79M)					
CARVER DEPARTMENT OF COUNTY		j						b\CACO\T44117142\2_Preliminarv\C	Reports/Final Reports/Implementat	ion\Final Funding Plans\[Implem	entation Plan (01-21-21) xkx10	

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TRANSPORTATION

COUNTY

Highway 10 Corridor Study Victoria-Chaska Area

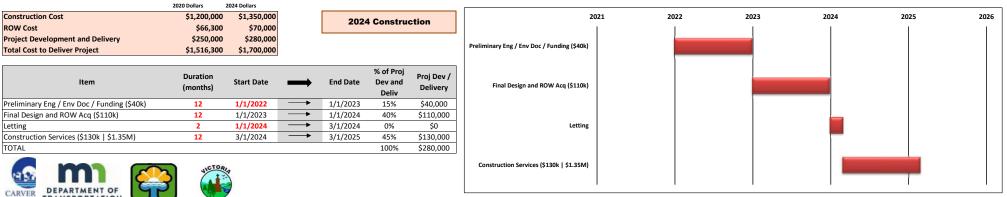
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TH 41 Grade Separated Pedestrian Crossing North of CSAH 10 (S3)





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CARVER DEPARTMENT OF COUNTY TRANSPORTATION

Highway 10 Corridor Study Victoria-Chaska Area

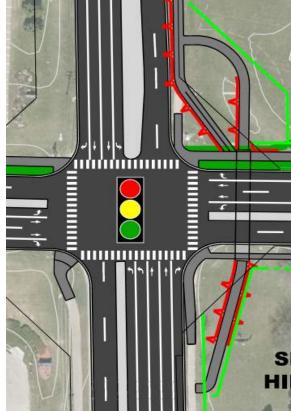
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CSAH 10 Grade Separated Pedestrian Crossing

East of TH 41 (S4)



	2020 Dollars	024 Dollars						A 6				
Construction Cost	\$950,000	\$1,070,000		202	4 Constru	a ti a n	2021	2022	2023	2024	2025	2026
ROW Cost	\$124,100	\$140,000		2024	+ Constru	CTION		I.	1	I	1	1
Project Development and Delivery	\$200,000	\$230,000										
Total Cost to Deliver Project	\$1,274,100	\$1,440,000					Preliminary Eng / Env Doc / Funding (\$30k)					
						1						
	Duration			- I.S. I	% of Proj	Proj Dev /						
Item	(months)	Start Date		End Date	Dev and Deliv	Delivery	Final Design and ROW Acq (\$90k)					
Preliminary Eng / Env Doc / Funding (\$30k)	12	1/1/2022	>	1/1/2023	15%	\$30,000						
Final Design and ROW Acq (\$90k)	12	1/1/2023	\rightarrow	1/1/2024	40%	\$90,000						
Letting	2	1/1/2024	\rightarrow	3/1/2024	0%	\$0	Letting					
Construction Services (\$100k \$1.07M)	12	3/1/2024	\rightarrow	3/1/2025	45%	\$100,000						
TOTAL					100%	\$220,000						
💁 mì 🔯	VICTOR	5					Construction Services (\$100k \$1.07M)					

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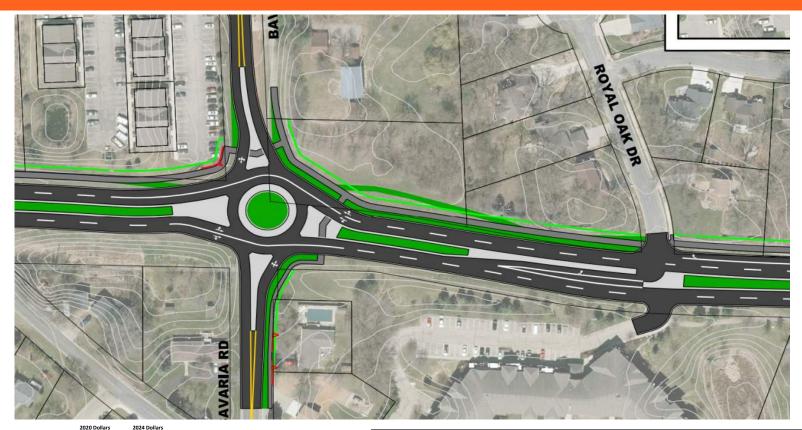


Implementation Plan

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BOLTON & MENK Real People. Real Solutions.

CSAH 10/Bavaria Road Intersection Improvements (S5)



	2020 Dollars	2024 Dollars					[
Construction Cost	\$2,658,000	\$2,990,000		202	4 Construe	stion	2021	2022	2023	2024	2025	2026
ROW Cost	\$110,000	\$120,000		202	+ construc				1	1	1	1
Project Development and Delivery	\$550,000	\$620,000										
Total Cost to Deliver Project	\$3,318,000	\$3,730,000					Preliminary Eng / Env Doc / Funding (\$120k)					
Item	Duration (months)	Start Date	\rightarrow	End Date	% of Proj Dev and Deliv	Proj Dev / Delivery	Final Design and ROW Acq (\$250k)					
Preliminary Eng / Env Doc / Funding (\$120k)	12	1/1/2022	\rightarrow	1/1/2023	20%	\$120,000						
Final Design and ROW Acq (\$250k)	12	1/1/2023	\rightarrow	1/1/2024	40%	\$250,000						
Letting	2	1/1/2024	\rightarrow	3/1/2024	0%	\$0	Letting					
Construction Services (\$250k \$2.99M)	12	3/1/2024	\rightarrow	3/1/2025	40%	\$250,000						
TOTAL					100%	\$620,000						
							Construction Services (\$250k \$2.99M)					
CARVER DEPARTMENT OF COUNTY TRANSPORTATION							\\metrosouth4\h\CAI	CO\T44117142\2_Preliminary\C_Rep	orts\Final Reports\Implementat	ion\Final Funding Plans\[Impleme	ntation Plan (01-21-21).xlsx]M3-	-West_Track to Creek



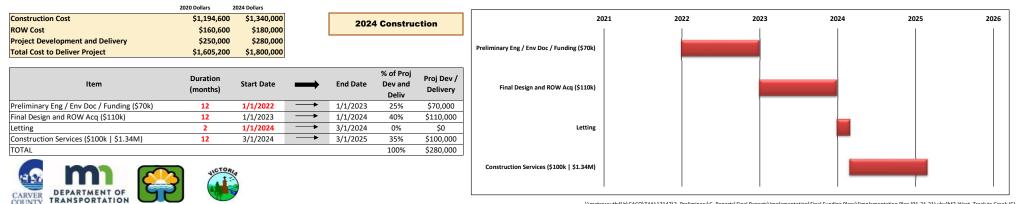
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CSAH 10 Reconstruction from Bavaria Road to White Oak Drive (S6)





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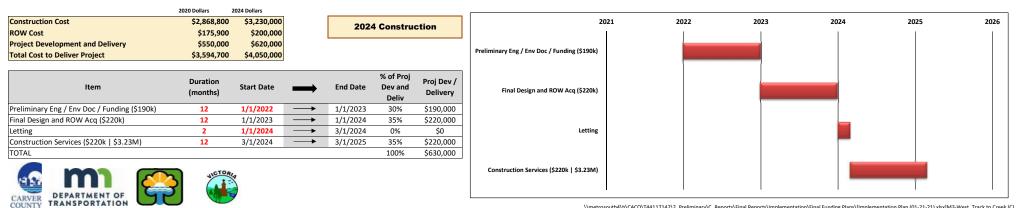
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CSAH 10/Park Ridge Drive Intersection Improvements (S7)





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Highway 10 Corridor Study Victoria-Chaska Area

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CSAH 10/CSAH 11 Intersection Improvements (M1)



	2020 Dollars	2026 Dollars					[
Construction Cost	\$3,900,000	\$4,660,000		2026	6 Construc	ation	202	21	2022	2023	2024	2024	2025	2026	2027
ROW Cost	\$50,000	\$60,000		2020	Construc	stion			1	1	1	1	1	1	1
Project Development and Delivery	\$780,000	\$930,000													
Total Cost to Deliver Project	\$4,730,000	\$5,650,000					Preliminary Eng / Env Doc / Funding (\$90k)								
	Duration				% of Proj	Proj Dev /									
Item	(months)	Start Date	\rightarrow	End Date	Dev and Deliv	Delivery	Final Design and ROW Acq (\$420k)								
Proliminant Frank (Franchas (2001)	10	7/4/2024		11/1/2022		¢00.000									
Preliminary Eng / Env Doc / Funding (\$90k)	16	7/1/2021	\rightarrow	11/1/2022	10%	\$90,000									
Final Design and ROW Acq (\$420k)	18	7/1/2024	>	1/1/2026	45%	\$420,000									
Letting	2	1/1/2026	\longrightarrow	3/1/2026	0%	\$0	Letting								
Construction Services (\$420k \$4.66M)	15	3/1/2026	\rightarrow	6/1/2027	45%	\$420,000									
TOTAL					100%	\$930,000									
							Construction Services (\$420k \$4.66M)								
COUNTY TRANSPORTATION							\\metros	outh4\b\C	ACO\T44117142\2 Prelimina	ru/C Reports/F	nal Reports\Implementa	tion\Final Funding Plan	Vimplementation Plan	(01-21-21) visy1M3-W/	est Track to Creek

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	2020 Dollars	2026 Dollars													
Construction Cost	\$1,894,000	\$2,260,000		202	6 Construc	stion	202	1	2022	2023	024	2025	2026	2027	2028
ROW Cost	\$20,000	\$20,000		202	o construc	,000	1		1	1	1	1	1	1	1
Project Development and Delivery	\$380,000	\$450,000													
Total Cost to Deliver Project	\$2,294,000	\$2,730,000					Preliminary Eng / Env Doc / Funding (\$70k)								
	Duration				% of Proj	Proj Dev /									
Item	(months)	Start Date		End Date	Dev and Deliv	Delivery	Final Design and ROW Acq (\$230k)								
Preliminary Eng / Env Doc / Funding (\$70k)	16	7/1/2021	\rightarrow	11/1/2022	15%	\$70,000							(
Final Design and ROW Acq (\$230k)	18	7/1/2024	\rightarrow	1/1/2026	50%	\$230,000									
Letting	2	1/1/2026	\rightarrow	3/1/2026	0%	\$0	Letting								
Construction Services (\$160k \$2.26M)	15	3/1/2026	\rightarrow	6/1/2027	35%	\$160,000									
TOTAL					100%	\$460,000									
							Construction Services (\$160k \$2.26M)								
COUNTY TRANSPORTATION							Umetroco		T44117142\2 Preliminan	C Reports Einal Report	Implementatio	n\Einal Eunding Plans	\[Implementation Plan (01)	21-21) vkv1M2-Woo	st Track to Creek

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Implementation Plan

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CSAH 10 Reconstruction

from East of Railroad Xing to W. Creek Lane (M3)

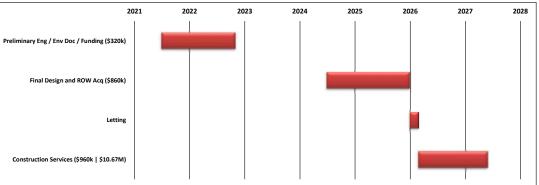


2026 Construction

Construction Cost	\$8,940,000	\$10,670,000
ROW Cost	\$855,800	\$1,020,000
Project Development and Delivery	\$1,790,000	\$2,140,000
Total Cost to Deliver Project	\$11,585,800	\$13,830,000

Item	Duration (months)	Start Date		End Date	% of Proj Dev and Deliv	Proj Dev / Delivery
Preliminary Eng / Env Doc / Funding (\$320k)	16	7/1/2021	\rightarrow	11/1/2022	15%	\$320,000
Final Design and ROW Acq (\$860k)	18	7/1/2024	\rightarrow	1/1/2026	40%	\$860,000
Letting	2	1/1/2026	\rightarrow	3/1/2026	0%	\$0
Construction Services (\$960k \$10.67M)	15	3/1/2026	\rightarrow	6/1/2027	45%	\$960,000
TOTAL					100%	\$2,140,000





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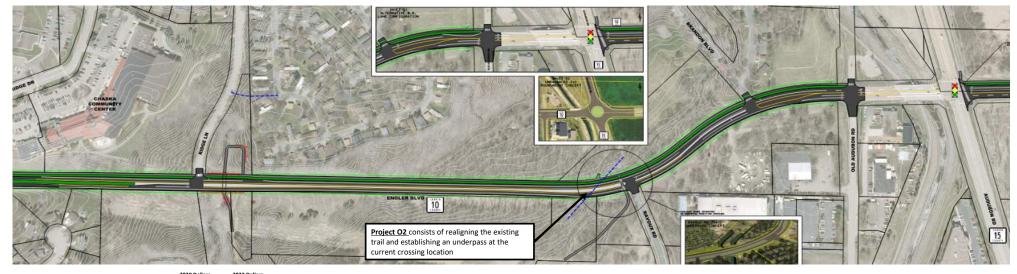
Implementation Plan

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CSAH 10 Reconstruction

from East of Park Ridge Drive to CSAH 61 (L1)



	2020 Dollars	2033 Dollars										
Construction Cost	\$5,431,500	\$7,980,000		203	3 Construe	stion	2030	2031	2032	2033	2034	2035
ROW Cost	\$107,500	\$160,000		203.	5 oonstru	stion		1		1		1
Project Development and Delivery	\$1,100,000	\$1,620,000										
Total Cost to Deliver Project	\$6,639,000	\$9,760,000					Preliminary Eng / Env Doc / Funding (\$240k)					
ltem	Duration (months)	Start Date		End Date	% of Proj Dev and Deliv	Proj Dev / Delivery	Final Design and ROW Acq (\$650k)					
Preliminary Eng / Env Doc / Funding (\$240k)	8	1/1/2031	\rightarrow	9/1/2031	15%	\$240,000						
Final Design and ROW Acq (\$650k)	14	9/1/2031		11/1/2032	40%	\$650,000						
Letting	2	11/1/2032	\longrightarrow	1/1/2033	0%	\$0	Letting					
Construction Services (\$730k \$7.98M)	10	3/1/2033	\longrightarrow	1/1/2034	45%	\$730,000				_		
TOTAL					100%	\$1,620,000						
							Construction Services (\$730k \$7.98M)					
CARVER TRANSPORTATION							\\metrosouth4\h\0	CACO\T44117142\2 Preliminary\C Rep	orts\Final Reports\Implementa	ion\Final Funding Plans\[Impleme	ntation Plan (01-21-21).xlsx1M3	-West Track to Creek

\metrosouth4\h\CACO\T44117142\2_Preliminary\C_Reports\Final Reports\Implementation\Final Funding Plans\[Implementation Plan (01-21-21).xlsx]M3-West_Track to Creek (C)



CARVER DEPARTMENT OF TRANSPORTATION

Highway 10 Corridor Study Victoria-Chaska Area

Implementation Plan

December 2020



CSAH 10 Reconstruction

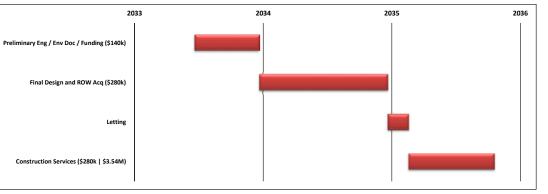
from East of TH 212 Ramps to West of Bavaria Road (L2)



2035 Construction

		2020 Dollars	2035 Dollars
Const	truction Cost	\$2,273,000	\$3,540,000
ROW	Cost	\$20,000	\$30,000
Proje	ct Development and Delivery	\$450,000	\$700,000
Total	Cost to Deliver Project	\$2,743,000	\$4,270,000

Item	Duration (months)	Start Date		End Date	% of Proj Dev and Deliv	Proj Dev / Delivery
Preliminary Eng / Env Doc / Funding (\$140k)	6	7/1/2033	>	1/1/2034	20%	\$140,000
Final Design and ROW Acq (\$280k)	12	1/1/2034	>	1/1/2035	40%	\$280,000
Letting	2	1/1/2035		3/1/2035	0%	\$0
Construction Services (\$280k \$3.54M)	8	3/1/2035	\rightarrow	11/1/2035	40%	\$280,000
TOTAL					100%	\$700,000



\metrosouth4\h\CACO\T44117142\2_Preliminary\C_Reports\Final Reports\mplementation\Final Funding Plans\[Implementation Plan (01-21-21).xlsx]M3-West_Track to Creek (C)



Implementation Plan



December 2020

CSAH 10 Reconstruction from CSAH 43 West to East of Railroad Xing (L3)



	2020 Dollars	2038 Dollars											
Construction Cost	\$9,400,000	\$16,000,000		2039	3 Constru	ction	2035	2036	2037	2038	2039	2040	2041
ROW Cost	\$1,559,000	\$2,650,000		2030	Constru	cuon		1	1	1	1	1	1
Project Development and Delivery	\$1,880,000	\$3,200,000											
Total Cost to Deliver Project	\$12,839,000	\$21,850,000					Preliminary Eng / Env Doc / Funding (\$640k)						
									_				
Item	Duration	Start Date		End Date	% of Proj Dev and	Proj Dev /							
	(months)				Deliv	Delivery	Final Design and ROW Acq (\$1280k)						
Preliminary Eng / Env Doc / Funding (\$640k)	8	1/1/2036	>	9/1/2036	20%	\$640,000							
Final Design and ROW Acq (\$1280k)	14	9/1/2036	\rightarrow	11/1/2037	40%	\$1,280,000				_			
Letting	3	11/1/2037	\rightarrow	2/1/2038	0%	\$0	Letting						
Construction Services (\$1280k \$16M)	20	3/4/2038	\rightarrow	11/4/2039	40%	\$1,280,000							
TOTAL					100%	\$3,200,000							
							Construction Services (\$1280k \$16M)						
COUNTY TRANSPORTATION							\\metrosouth4\h\CAC	:O\T44117142\2_Preliminary	C_Reports\Final Reports	Implementation\Final Fund	ing Plans\[Implementation	Plan (01-21-21).xlsx]M3-W	est_Track to Creek (C)

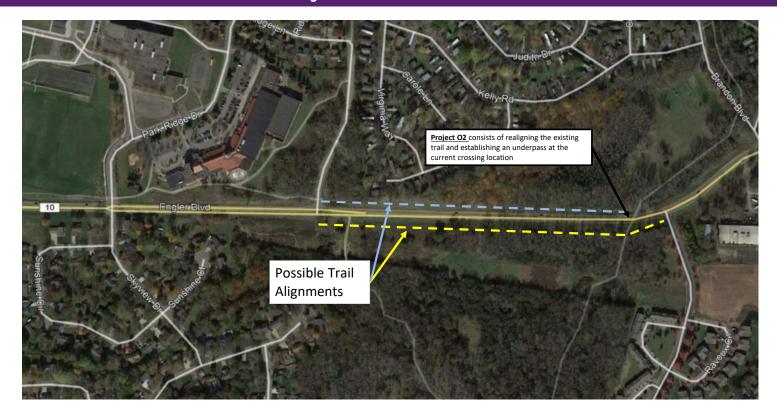


Implementation Plan

December 2020



Local Trail - City of Chaska **Ridge Lane to Ravoux Road**



2020 Dollars	2030 Dollars							
\$900,000	\$1,210,000		2030	Construe	tion	2029	2030	2031
\$0	\$0		2030	Construc	lion			1
\$180,000	\$240,000							
\$1,080,000	\$1,450,000					Preliminary Eng / Env Doc / Funding (\$20k)		
Duration (months)	Start Date		End Date	% of Proj Dev and Deliv	Proj Dev / Delivery	Final Design and ROW Acq (\$120k)		
2	7/1/2029		9/1/2029	10%	\$20,000			
6	9/1/2029		3/1/2030	50%	\$120,000		_	
1	3/1/2030	\rightarrow	4/1/2030	0%	\$0	Letting		
6	4/1/2030	\rightarrow	10/1/2030	40%	\$100,000			
				100%	\$240,000			
						Construction Services (\$100k \$1.21M)		
	\$900,000 \$0 \$180,000 \$1,080,000 Duration	\$900,000 \$1,210,000 \$0 \$0 \$180,000 \$240,000 \$1,080,000 \$1,450,000 Duration (months) Start Date 2 7/1/2029 6 9/1/2029 1 3/1/2030	$\begin{array}{c ccccc} & \$900,000 & \$1,210,000 \\ & \$0 & \$0 \\ & \$180,000 & \$240,000 \\ \\ \$1,080,000 & \$1,450,000 \\ \hline $	\$900,000 \$1,210,000 \$0 \$0 \$1,0000 \$240,000 \$1,080,000 \$240,000 \$1,080,000 \$1,450,000 Duration (months) Start Date End Date 2 7/1/2029 → 9/1/2029 6 9/1/2029 → 3/1/2030 1 3/1/2030 → 4/1/2030	\$900,000 \$1,210,000 \$0 \$0 \$1,080,000 \$240,000 \$1,080,000 \$1,450,000 Duration (months) Start Date → 2 7/1/2029 → 9/1/2029 10% 6 9/1/2029 → 3/1/2030 50% 1 3/1/2030 → 10/1/2030 40%	\$900,000 \$1,210,000 \$0 \$0 \$1,80,000 \$240,000 \$1,80,000 \$240,000 \$1,080,000 \$240,000 \$1,080,000 \$1,450,000 Duration (months) Start Date End Date % of Proj Dev and Deliv Proj Dev / Delivery 2 7/1/2029 → 9/1/2029 10% \$20,000 6 9/1/2029 → 3/1/2030 50% \$120,000 1 3/1/2030 → 4/1/2030 0% \$00 6 4/1/2030 → 10/1/2030 40% \$100,000	\$900,000 \$1,210,000 \$2,20,000 \$2030 Construction 2029 \$\$180,000 \$240,000 \$\$1,080,000 \$\$240,000 \$\$1,080,000 \$\$1,450,000 \$\$1,450,000 \$\$1,080,000 \$\$1,450,000 \$\$1,080,000 \$\$1,450,000 \$\$1,080,000 \$\$1,080,000 \$\$1,080,000 \$\$1,080,000 \$\$1,080,000 \$\$1,080,000 \$\$1,080,000 \$\$1,080,000 \$\$100,000 \$\$100,000 \$\$101,12030 \$\$0% \$\$20,000 \$\$101,12030 \$\$0% \$\$100,000 \$\$101,12030 \$\$100,000 \$\$100,000 \$\$101,12030 \$\$100,000 \$	\$900,000 \$1,210,000 \$0 \$0 \$0 \$0 \$180,000 \$240,000 \$1,080,000 \$240,000 \$1,080,000 \$1,450,000 V V <



CARVER DEPARTMENT OF TRANSPORTATION

Highway 10 Corridor Study Victoria-Chaska Area

Implementation Plan

December 2020



CSAH 10/White Oak Drive Intersection

Traffic Signal Improvement



\$250,000 \$0 \$50,000 \$300,000	\$390,000 \$0 \$80,000 \$470,000		2035	i Construc	tion	2034	2035	20
\$50,000 \$300,000	\$80,000		2033	Construc			_	
\$300,000								
• •	\$470,000							
						Preliminary Eng / Env Doc / Funding (\$10k)		
	Start Date		End Date	% of Proj Dev and	Proj Dev /			
(months)				Deliv	Delivery	Final Design and ROW Acq (\$40k)		
1	11/1/2034	\rightarrow	12/1/2034	10%	\$10,000			
4	12/1/2034	\rightarrow	4/1/2035	50%	\$40,000			
1	4/1/2035	\rightarrow	5/1/2035	0%	\$0	Letting		
3	5/1/2035	\rightarrow	8/1/2035	40%	\$30,000			
				100%	\$80,000			
VICTOR	Š					Construction Services (\$30k \$0.39M)		
	1 4 1 3	Start Date 1 11/1/2034 4 12/1/2034 1 4/1/2035 3 5/1/2035	Start Date 1 11/1/2034 4 12/1/2034 1 4/1/2035 3 5/1/2035	Start Date End Date 1 11/1/2034 → 12/1/2034 4 12/1/2034 → 4/1/2035 1 4/1/2035 → 5/1/2035 3 5/1/2035 → 8/1/2035	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Imation honths) Start Date End Date Dev and Delivery Proj DeV / Delivery 1 11/1/2034 → 12/1/2034 10% \$10,000 4 12/1/2034 → 4/1/2035 50% \$40,000 1 4/1/2035 → 5/1/2035 0% \$0 2 5/1/2035 → 8/1/2035 40% \$30,000 1 00% \$80,000 00% \$0 Letting	Start Date End Date Dev and Deliv Proj DeV/ Delivery 1 11/1/2034 12/1/2034 10% \$10,000 4 12/1/2034 4/1/2035 50% \$40,000 1 4/1/2035 51/2035 0% \$0,000 3 5/1/2035 8/1/2035 40% \$30,000 100% \$80,000 100% \$10,000

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Highway 10 Corridor Study Victoria-Chaska Area Funding Needed by Year to Deliver Key Projects December 2020





HIGHWAY 10 CORRIDOR STUDY VICTORIA-CHASKA AREA

	Preliminary Design / Environmental Documentation / Funding	Final Design / ROW	Construction Services	ROW Cost	Construction Cost	TOTAL
2020	\$105,000	\$0	\$0	\$0	\$0	\$105,000
2021	\$405,000	\$140,000	\$0	\$0	\$0	\$545,000
2022	\$0	\$38,000	\$160,000	\$20,000	\$1,800,000	\$2,018,000
2023	\$70,000	\$190,000	\$0	\$0	\$0	\$260,000
2024	\$160,000	\$1,212,000	\$0	\$760,000	\$0	\$2,132,000
2025	\$110,000	\$650,000	\$660,000	\$1,100,000	\$7,210,000	\$9,730,000
2026	\$112,500	\$125,000	\$1,540,000	\$0	\$17,590,000	\$19,367,500
2027	\$17,500	\$235,000	\$0	\$300,000	\$0	\$552,500
2028	\$0	\$0	\$350,000	\$0	\$4,330,000	\$4,680,000
2029	\$190,000	\$0	\$0	\$0	\$0	\$190,000
2030	\$0	\$220,000	\$0	\$200,000	\$0	\$420,000
2031	\$240,000	\$195,000	\$220,000	\$0	\$3,230,000	\$3,885,000
2032	\$0	\$455,000	\$0	\$160,000	\$0	\$615,000
2033	\$140,000	\$0	\$730,000	\$0	\$7,980,000	\$8,850,000
2034	\$0	\$280,000	\$0	\$30,000	\$0	\$310,000
2035	\$0	\$0	\$280,000	\$0	\$3,540,000	\$3,820,000
2036	\$640,000	\$384,000	\$0	\$0	\$0	\$1,024,000
2037	\$0	\$896,000	\$0	\$2,650,000	\$0	\$3,546,000
2038	\$0	\$0	\$640,000	\$0	\$8,000,000	\$8,640,000
2039	\$0	\$0	\$640,000	\$0	\$8,000,000	\$8,640,000
TOTAL	\$2,190,000	\$5,020,000	\$5,220,000	\$5,220,000	\$61,680,000	\$79,330,000





									Proj	ects								
Year	\$1	S2		S3	S4	S5		S6	S7		S8	M1	M2	M3	L1	L2	L3	Totals
2020	\$-	\$ 105,00) \$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 105,000
2021	\$ 190,000	\$ 35,00) \$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ 320,000	\$ -	\$ -	\$ -	\$ 545,000
2022	\$ 1,980,000	\$ 38,00) \$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,018,000
2023	\$-	\$ 190,00) \$	40,000	\$ 30,000	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 260,000
2024	\$-	\$ 702,00) \$	180,000	\$ 230,000	\$-	\$	-	\$ -	\$	-	\$ 90,000	\$ 70,000	\$ 860,000	\$ -	\$ -	\$ -	\$ 2,132,000
2025	\$-	\$ 5,220,00) \$	1,480,000	\$ 1,170,000	\$ 60,000) \$	-	\$ -	\$	50,000	\$ 480,000	\$ 250,000	\$ 1,020,000	\$ -	\$ -	\$ -	\$ 9,730,000
2026	\$-	\$-	\$	-	\$ -	\$ 185,000) \$	52,500	\$ -	\$	-	\$ 5,080,000	\$ 2,420,000	\$ 11,630,000	\$ -	\$ -	\$ -	\$ 19,367,500
2027	\$-	\$-	\$	-	\$ -	\$ 245,000) \$	307,500	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 552,500
2028	\$-	\$-	\$	-	\$ -	\$ 3,240,000) \$	1,440,000	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,680,000
2029	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ 190,000	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 190,000
2030	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ 420,000	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 420,000
2031	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ 3,450,000	\$	-	\$ -	\$ -	\$ -	\$ 435,000	\$ -	\$ -	\$ 3,885,000
2032	\$ -	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ 615,000	\$ -	\$ -	\$ 615,000
2033	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ 8,710,000	\$ 140,000	\$ -	\$ 8,850,000
2034	\$ -	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ 310,000	\$ -	\$ 310,000
2035	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ 3,820,000	\$ -	\$ 3,820,000
2036	\$ -	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,024,000	\$ 1,024,000
2037	\$ -	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,546,000	\$ 3,546,000
2038	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,640,000	\$ 8,640,000
2039	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,640,000	\$ 8,640,000
2040	\$-	\$-	\$	-	\$ -	\$-	\$	-	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ 2,170,000	\$ 6,290,00	¢ כ	1,700,000	\$ 1,430,000	\$ 3,730,000) \$	1,800,000	\$ 4,060,000	\$	50,000	\$ 5,650,000	\$ 2,740,000	\$ 13,830,000	\$ 9,760,000	\$ 4,270,000	\$ 21,850,000	\$ 79,330,000

CSAH 10 Corridor Improvements

East Area Project Area Costs w/ Funding Awarded

December 2020

- A	HIGHWAY 10	CORRIDOR	STUDY
Y	VICTORIA	- C H A S K A	AREA

Component	Contstruction Year	Construction	ROW	Engineering / Const. Admin.	Total
CSAH 10/TH 41 Roadway Expansion Regional Solicitation Funds Awarded	2025	\$13,830,000	\$1,240,000	\$2,780,000	\$17,850,000
Regional Solicitation Funds		\$7,000,000	\$0	\$0	\$7,000,000
MnDOT		\$879,060	\$60,000	\$390,000	\$1,329,060
Carver County		\$3,955,770	\$590,000	\$1,940,000	\$6,485,770
City of Chaska		\$1,995,170	\$590,000	\$450,000	\$3,035,170
TH 41 North Pedestrian Underpass SRTS Funds Awarded	2025	\$1,400,000	\$80,000	\$280,000	\$1,760,000
Regional Solicitation Funds		\$933,360	\$0	\$0	\$933,360
MnDOT		\$0	\$0	\$0	\$0
Carver County		\$233,320	\$40,000	\$140,000	\$413,320
City of Chaska		\$233,320	\$40,000	\$140,000	\$413,320
Ridge Drive to CSAH 61 Improvements	2033	\$6,950,000	\$160,000	\$1,390,000	\$8,500,000
Carver County		\$5,400,000	\$80,000	\$1,240,000	\$6,720,000
City of Chaska		\$1,550,000	\$80,000	\$150,000	\$1,780,000
Ridge Drive Pedestrian Underpass	2033	\$1,020,000	\$0	\$220,000	\$1,240,000
Carver County		\$510,000	\$0	\$110,000	\$620,000
City of Chaska		\$510,000	\$0	\$110,000	\$620,000
Victoria Drive to Prescott Lane Improvements	2035	\$3,540,000	\$40,000	\$700,000	\$4,280,000
MnDOT	NHPP/BF	\$0	\$0	\$0	\$0
Carver County		\$2,450,000	\$20,000	\$640,000	\$3,110,000
City of Chaska		\$1,090,000	\$20,000	\$60,000	\$1,170,000

Regional Solicitation Funds	\$7,933,360	\$0	\$0	\$7,933,360
MnDOT	\$879,060	\$60,000	\$390,000	\$1,329,060
Carver County	\$12,549,090	\$730,000	\$4,070,000	\$17,349,090
City of Chaska	\$5,378,490	\$730,000	\$910,000	\$7,018,490

\$26,740,000

Notes:

1. All costs shown in construction year dollars at 3% inflation.

Total Investment

2. ROW costs subject to change during final design





\$5,370,000

\$1,520,000

\$33,630,000

CSAH 10 Corridor Improvements

East Area Project Area Costs

December 2020



Component	Contstruction Year	Construction	ROW	Engineering / Const. Admin.	Total	Total (Project Year Doll at 3% Inflation)
TH 41 Intersection Improvements	2025	\$4,260,400	\$490,710	\$850,010	\$5,601,120	\$6,490,000
MnDOT		\$1,534,650	\$49,070	\$337,430	\$1,921,150	\$2,230,000
Carver County		\$2,045,550	\$220,820	\$466,030	\$2,732,400	\$3,170,000
City of Chaska		\$680,200	\$220,820	\$46,550	\$947,570	\$1,100,000
TH 41 North Pedestrian Underpass	2025	\$1,200,000	\$66,300	\$250,000	\$1,516,300	\$1,760,000
MnDOT		\$0	\$0	\$0	\$0	\$0
Carver County		\$600,000	\$33,150	\$125,000	\$758,150	\$880,000
City of Chaska		\$600,000	\$33,150	\$125,000	\$758,150	\$880,000
TH 41 East Pedestrian Underpass	2025	\$950,000	\$124,100	\$200,000	\$1,274,100	\$1,480,000
MnDOT		\$0	\$0	\$0	\$0	\$0
Carver County		\$475,000	\$62,050	\$100,000	\$637,050	\$740,000
City of Chaska		\$475,000	\$62,050	\$100,000	\$637,050	\$740,000
Bavaria Road Intersection Improvements	2028	\$2,658,600	\$110,000	\$550,000	\$3,318,600	\$4,200,000
Carver County		\$1,624,800	\$55,000	\$437,800	\$2,117,600	\$2,680,000
City of Chaska		\$1,033,800	\$55,000	\$112,200	\$1,201,000	\$1,520,000
Fire Station Segment Improvements	2028	\$1,194,100	\$160,600	\$250,010	\$1,604,710	\$2,030,000
Carver County		\$971,600	\$80,300	\$224,940	\$1,276,840	\$1,620,000
City of Chaska		\$222,500	\$80,300	\$25,070	\$327,870	\$420,000
Park Ridge Drive Intersection Improvements	2031	\$2,869,200	\$175,900	\$550,010	\$3,595,110	\$4,980,000
Carver County		\$1,791,500	\$87,950	\$445,640	\$2,325,090	\$3,220,000
City of Chaska		\$1,077,700	\$87,950	\$104,370	\$1,270,020	\$1,760,000
Ridge Drive to CSAH 61 Improvements	2033	\$4,731,600	\$107,500	\$950,000	\$5,789,100	\$8,500,000
MnDOT	NHPP/BF	\$0	\$0	\$0	\$0	\$0
Carver County		\$3,676,800	\$53,750	\$844,800	\$4,575,350	\$6,720,000
City of Chaska		\$1,054,800	\$53,750	\$105,200	\$1,213,750	\$1,780,000
Ridge Drive Pedestrian Underpass	2033	\$700,000	\$0	\$150,000	\$850,000	\$1,250,000
MnDOT	NHPP/BF	\$0	\$0	\$0	\$0	\$0
Carver County		\$350,000	\$0	\$75,000	\$425,000	\$620,000

City of Chaska		\$350,000	\$0	\$75,000	\$425,000	\$620,000
Victoria Drive to Prescott Lane Improvements	2035	\$2,273,400	\$20,000	\$450,000	\$2,743,400	\$4,270,000
Carver County		\$1,571,600	\$10,000	\$411,300	\$1,992,900	\$3,100,000
City of Chaska		\$701,800	\$10,000	\$38,700	\$750,500	\$1,170,000

Total Investment	\$20,837,300	\$1,255,110	\$4,200,030	\$26,292,440	
MnDOT	\$1,534,650	\$49,070	\$337,430	\$1,921,150	
Carver County	\$13,106,850	\$603,020	\$3,130,510	\$16,840,380	
City of Chaska	\$6,195,800	\$603,020	\$732,090	\$7,530,910	

Notes:

1. All costs shown in 2020 dollars unless otherwise noted.

2. ROW costs subject to change during final design





CSAH 10 Corridor Improvements

Regional Solicitation Funding Plan December 2020

HIGHWAY 10 CORRIDOR STUDY Vietoria-chaska area



VICTORIA-CHASKA AREA					
Component	Construction Year	Construction	ROW	Engineering / Const. Admin.	Total
CSAH 10/TH 41 Roadway Expansion	2025	\$13,830,000	\$1,240,000	\$2,780,000	\$17,850,000
MnDOT		\$1,780,000	\$60,000	\$390,000	\$2,230,000
Carver County		\$8,010,000	\$590,000	\$1,940,000	\$10,540,000
City of Chaska		\$4,040,000	\$590,000	\$450,000	\$5,080,000
CSAH 10/TH 41 Roadway Expansion Regional Solicitation Funds Awarded	2025	\$13,830,000	\$1,240,000	\$2,780,000	\$17,850,000
Regional Solicitation Funds		\$7,000,000	\$0	\$0	\$7,000,000
MnDOT		\$879,060	\$60,000	\$390,000	\$1,329,060
Carver County		\$3,955,770	\$590,000	\$1,940,000	\$6,485,770
City of Chaska		\$1,995,170	\$590,000	\$450,000	\$3,035,170
TH 41 North Pedestrian Underpass SRTS	2025	\$1,400,000	\$80,000	\$280,000	\$1,760,000
MnDOT		\$0	\$0	\$0	\$0
Carver County		\$700,000	\$40,000	\$140,000	\$880,000
City of Chaska		\$700,000	\$40,000	\$140,000	\$880,000
TH 41 North Pedestrian Underpass SRTS Funds Awarded	2025	\$1,400,000	\$80,000	\$280,000	\$1,760,000
Regional Solicitation Funds		\$933,360	\$0	\$0	\$933,360
MnDOT		\$0	\$0	\$0	\$0
Carver County		\$233,320	\$40,000	\$140,000	\$413,320
City of Chaska		\$233,320	\$40,000	\$140,000	\$413,320
Total Investment No Funding Awarded		\$15,230,000	\$1,320,000	\$3,060,000	\$19,610,000
MnDOT		\$1,780,000	\$60,000	\$390,000	\$2,230,000
Carver County		\$8,710,000	\$630,000	\$2,080,000	\$11,420,000
City of Chaska		\$4,740,000	\$630,000	\$590,000	\$5,960,000
Total Investment All Requested Funding Awa	rded	\$15,230,000	\$1,320,000	\$3,060,000	\$19,610,000
Requested Funding		\$7,933,360	\$0	\$0	\$7,933,360
MnDOT		\$879,060	\$60,000	\$390,000	\$1,329,060
Carver County		\$4,189,090	\$630,000	\$2,080,000	\$6,899,090
City of Chaska		\$2,228,490	\$630,000	\$590,000	\$3,448,490

Notes:

1. All costs shown in construction year dollars at 3% inflation.

2. ROW costs subject to change during final design





CSAH 11 Improvements Project - Urban Section N of Tracks (S1)

Carver County

1/22/2021



Item	Unit	Total Qty		Jnit Price	т	otal Cost
DR ROADWAY ITEMS (NOTES 1-2)						
REMOVE BITUMINOUS PAVEMENT	SY	6,779	\$	4.00	\$	27,2
SAWING BITUMINOUS PAVEMENT (FULL DPETH)	LF	3,360	\$	3.00	\$	10,1
MILL BITUMINOUS SURFACE	SY	7,483	\$	5.00	\$	37,5
EXCAVATION - COMMON	CY	8,495	\$	7.00	\$	59,5
COMMON EMBANKMENT (CV)	CY	2,835	\$	4.00	\$	11,4
AGGREGATE BASE (CV) CLASS 5Q	CY	3,567	\$	29.00	\$	103,5
SELECT GRANULAR EMBANKMENT (CV)	CY	3,826	\$	18.00	\$	68,9
TYPE SP 9.5 WEARING COURSE MIX (4,C)	TONS	462	\$	65.00	\$	30,1
TYPE SP 12.5 WEARING COURSE MIX (4,C)	TONS	4,214	\$	55.00	\$	231,8
PEDESTRIAN RAMP	EACH	6	\$	1,500.00	\$	9,0
CURB AND GUTTER B424	LF	8,396	\$	20.00	\$	168,0
4" CONCRETE WALK	SF	24,822	\$	5.00	\$	124,2
Subtotal					\$	881,0
All Roadway Construction Subtotal					\$	881.
All Roadway Construction Subtotal					\$	881,0
All Roadway Construction Subtotal					\$	881,0
	LS				\$ 	881,(
CIAL LUMP SUM CONSTRUCTION ITEMS	LS LS	1	\$	379,000.00		
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC)		1	\$	379,000.00	\$	379,0
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal		1	\$	379,000.00	\$	379,1
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal	LS	1		379,000.00 all roadway	\$	379, 379,
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS	LS		of		\$ \$ \$	379,1 379,1 63,1
CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION		5%	of	all roadway	\$ \$ \$	379, 379, 379, 63, 44,
CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		5% 5%	of of of	all roadway all roadway	\$ \$ \$ \$	379, 379, 63, 44, 26,
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS		5% 5% 3%	of of of of	all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$	379,1 379,1 63,1 44, 26,1 47,1
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL		5% 5% 3% 5%	of of of of of	all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$	379, 379, 379, 63, 44, 26, 47, 23,
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE		5% 5% 3% 5% 3%	of of of of of of	all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	379, 379, 379, 63, 44, 26, 47, 23, 45,
CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING		5% 5% 3% 5% 3% 5% 5%	of of of of of of	all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	379, 379, 379, 63, 44, 26, 47, 23, 45, 185,
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS	LS	5% 5% 3% 5% 3% 5% 0%	of of of of of of of	all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	379,0 379,0 379,0 63,0 44,0 26,0 47,0 23,0 45,0 185,0 435,0
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS		5% 5% 3% 5% 3% 5% 0% Construction (of of of of of of of Cost (all roadway all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	881,1 379,0 379,0 379,0 63,0 44,7 26,5 47,2 23,2 45,7 185,7 435,0 1,700,0
CIAL LUMP SUM CONSTRUCTION ITEMS CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS	LS	5% 5% 3% 5% 3% 5% 0% Construction C Right-of-Way C	of of of of of of of Cost (Cost (all roadway all roadway all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	379,0 379,0 379,0 63,0 44,7 26,9 47,2 23,2 45,4 185,7 435,0 1,700,0

Notes:

1. Pavement section assumed is 6 inch bituminous pavement, 12 inch aggregate base, and 18 inch sand.

2. Trail pavement section assumed is 2.5 inch bituminous pavement and 4 inch aggregate base.

Opinion of Probable Cost - Preliminary Cost Estimate

Hwy 10 Improvements: TH 41 Intersection Improvements (S2)

Carver County

1/22/2021

									Cos	at Participation		
	ltem	Unit	Total Qty		Unit Price		Total Cost	MnDOT	с	Carver County		Chaska
MAJOR	ROADWAY ITEMS (NOTES 1-3)					Γ						
R	REMOVE BITUMINOUS PAVEMENT	SY	9,414	\$	4.00	\$	37,700	\$ 4,700	\$	32,600	\$	500
R	REMOVE CONCRETE MEDIAN/WALK	SF	27,682	\$	3.00	\$	83,100	\$ 83,100	\$	-	\$	-
R	REMOVE CURB AND GUTTER	LF	11,255	\$	4.00	\$	45,100	\$ 40,600	\$	4,500	\$	-
E	EXCAVATION - COMMON	CY	25,129	\$	8.00	\$	201,100	\$ 17,700	\$	183,300	\$	10
С	COMMON EMBANKMENT (CV)	CY	26,389	\$	4.00	\$	105,600	\$ 8,300	\$	95,300	\$	2,00
A	GGREGATE BASE (CV) CLASS 5Q	CY	5,382	\$	31.00	\$	166,900	\$ 48,400	\$	115,500	\$	3,00
S	ELECT GRANULAR EMBANKMENT (CV)	CY	12,230	\$	19.00	\$	232,400	\$ 66,700	\$	160,100	\$	5,60
Т	YPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	315	\$	80.00	\$	25,200	\$ 2,600	\$	11,300	\$	11,30
Т	YPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	10,770	\$	44.00	\$	473,900	\$ 177,200	\$	292,400	\$	4,30
С	CURB AND GUTTER B424	LF	15,530	\$	21.00	\$	326,200	\$ 195,100	\$	57,900	\$	73,20
4'	" CONCRETE WALK	SF	47,730	\$	5.00	\$	238,700	\$ 187,900	\$	36,000	\$	14,80
S	ubtotal					\$	1,935,900	\$ 832,300	\$	988,900	\$	114,80
TRUCT	TURAL ITEMS											
M	10DULAR BLOCK RETAINING WALL	SF	2,470	\$	65.00	\$	160,600		\$	160,600	·	
S	subtotal					\$	161,000	\$ -	\$	160,600	\$	-
						I						
Α	II Roadway Construction Subtotal					\$	2,096,900	\$ 832,300	\$	1,149,500	\$	114,80
	L LUMP SUM CONSTRUCTION ITEMS REMOVE SIGNAL SYSTEM	LS	1	\$	10,000.00	\$	10,000	\$ 5,000	\$	5,000		
	RAFFIC SIGNAL SYSTEM	LS	1	\$	300,000.00	\$,	\$ 150,000	-	150,000		
	VHITE OAK DRIVE OVERHEAD RRFB SYSTEM	LS	1	\$	125,000.00	\$,	\$	62,500	\$	62,50
	TTY UTILITIES (WATERMAIN/SANITARY/ELECTRIC)	LS	1	\$	350,000.00	\$,			. ,	\$	350,00
	IGHTING	LS	1	\$	80,000.00	\$	80,000		\$	20,000	\$	60,00
	IRBAN DRAINAGE	LS	1	\$	417,000.00	\$,	\$ 208,500		208,500	\$	-
. ,	ubtotal				,	\$		\$ 363,500	\$	446,000	\$	472,50
RECEN	NTAGE ITEMS											
M	IOBILIZATION		5%	of	all roadway	\$	104,900	\$ 41,700	\$	57,600	\$	5,8
N	IISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%	of	all roadway	\$	31,500	\$ 15,750	\$	15,750	L	
S	IGNING & PAVEMENT MARKINGS		3%	of	all roadway	\$	63,000	\$ 31,500	\$	31,500	L	
Т	URF ESTABLISHMENT AND EROSION CONTROL		5%	of	all roadway	\$	104,900	\$ 41,700	\$	57,600	\$	5,8
L	ANDSCAPING/STREETSCAPE		3%	of	all roadway	\$	- ,				\$	52,50
	RAFFIC CONTROL/STAGING		5%		all roadway	\$,	\$ 41,700		57,600	\$	5,8
	CONTINGENCY FOR MISSING ITEMS		20%	of	all roadway	\$,	\$ 166,500		230,000	\$	23,0
S	ubtotal					\$	881,100	\$ 338,850	\$	450,050	\$	92,90
1				_	2020 Dollars)	-						680,2
	An		0 ,		2020 Dollars)		490,700	\$ 49,070		220,820	\$	220,82
		E	· ·		2020 Dollars)			\$ 337,430		466,030	\$	46,5
					2020 Dollars)	_		\$ 1,921,150		2,732,400	\$	947,5
					2025 Dollars)			\$ 1,780,000		2,370,000	\$	790,0
	An		× /	_	2025 Dollars)	-		\$ 60,000		260,000	\$	260,0
		E		cost (2025 Dollars)	\$		\$ 390,000	\$	540,000	\$	50,00
					2025 Dollars)	\$	6,500,000	\$ 2,230,000	\$	3,170,000	\$	1,100,0

Notes:

1. 2" Bituminous overlay is assummed for all existing pavement on TH 41.

2. 10 inch bituminous pavement, 12 inch aggregate and 24 inch base is assummed for all new pavement.

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

Hwy 10 Improvements: TH 41 North Underpass (S3)

Carver County 1/22/2021 Real People. Real Solutions.

	ltem	Unit											
		Onit	Total Qty	ι	Jnit Price	т	otal Cost	N	InDOT	Carv	er County	С	haska
(R ROADWAY ITEMS (1)												
	EXCAVATION - COMMON	CY	2,688	\$	8.00	\$	21,600						
	COMMON EMBANKMENT (CV)	CY	228	\$	4.00	\$	1,000						
	AGGREGATE BASE (CV) CLASS 5Q	CY	191	\$	31.00	\$	6,000						
	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	223	\$	80.00	\$	17,900						
	Subtotal					\$	47,000	\$	-	\$	-	\$	-
STRUC	TURAL ITEMS												
(2)	BIKE UNDERPASS	SF	1.820	\$	175.00	\$	318,500						
· · /	MODULAR BLOCK RETAINING WALL	SF	1,045	\$	65.00	\$	68,000						
	CAST-IN-PLACE WALLS	SF	3,025	\$	125.00		378,200						
:	Subtotal		,			\$	765,000	\$	-	\$	-	\$	-
1	All Roadway Construction Subtotal			1		\$	812,000	\$	-	\$	-	\$	-
	· · · · ·						-						
-	AL LUMP SUM CONSTRUCTION ITEMS							1		Т			
-	LIGHTING	LS	1	\$	25,000.00	\$	25,000						
(-)		LS	1	\$	20,000.00	\$	20,000						
	Subtotal					\$	45,000	\$	-	\$	-	\$	-
PRECE	NTAGE ITEMS												
1	MOBILIZATION		5%	of	all roadway	\$	40,600						
ſ	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		3%	of	all roadway	\$	24,400						
;	SIGNING & PAVEMENT MARKINGS		2%	of	all roadway	\$	16,300						
-	TURF ESTABLISHMENT AND EROSION CONTROL		5%	of	all roadway	\$	40,600						
1	LANDSCAPING/STREETSCAPE		2%	of	all roadway	\$	16,300						
-	TRAFFIC CONTROL/STAGING		2%	of	all roadway	\$	16,300						
(CONTINGENCY FOR MISSING ITEMS		20%	of	all roadway	\$	162,400						
!	Subtotal					\$	317,000	\$	-	\$	-	\$	-
			onstruction (ost (2020 Dollars)	\$	1.200.000			\$	600,000	¢	600,000
		Anticipated R					66,300			э \$	33,150	э \$	33,150
					2020 Dollars) 2020 Dollars)		250.000			\$	125.000		125,000
					2020 Dollars)		1,516,300			\$	758,150		
		ſ		,	2025 Dollars)		1,400,000			\$	700,000		700,000
		Anticipated R		,	,		80.000			\$	40,000	· ·	40.000
					2025 Dollars) 2025 Dollars)		280,000			\$	140,000		
		•			2025 Dollars)		1,760,000			\$	880,000		

Notes:

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

2. 10' x 14' underpass box culvert assummed with 3' minimum surface cover.

Hwy 10 Improvements: TH 41 East Underpass (S4)

Carver County 1/22/2021

										Co	st Participat	ion	
	Item	Unit	Total Qty	ι	Jnit Price	-	Fotal Cost	м	nDOT	Ca	rver County		Chaska
MAJC	DR ROADWAY ITEMS (1)					Ī							
	EXCAVATION - COMMON	CY	11,014	\$	8.00	\$	88,200			\$	44,100.00	\$	44,100.00
	COMMON EMBANKMENT (CV)	CY	211	\$	4.00	\$	900			\$	450.00	\$	450.00
	AGGREGATE BASE (CV) CLASS 5Q	CY	143	\$	31.00	\$	4,500			\$	2,250.00	\$	2,250.00
	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	167	\$	80.00	\$	13,400			\$	6,700.00	\$	6,700.00
	Subtotal					\$	107,000	\$	-	\$	53,500.00	\$	53,500.00
STRU	CTURAL ITEMS												
(2)	BIKE UNDERPASS	SF	1,890	\$	200.00	\$	378,000			\$	189,000.00	\$	189,000.00
	MODULAR BLOCK RETAINING WALL	SF	2,926	\$	65.00	\$	190,200			\$	95,100.00		95,100.00
	Subtotal		,			\$	568,000	\$	-	\$	284,100.00	-	284,100.00
						L							
	All Roadway Construction Subtotal			1		\$	675,000	\$	-	\$	53,500.00	\$	53,500.00
SPEC	IAL LUMP SUM CONSTRUCTION ITEMS												
	LIGHTING	LS	1	\$	25,000.00	\$	25,000	1		\$	12,500.00	\$	12,500.00
(3)	URBAN DRAINAGE	LS	1	\$	20,000.00	\$	20,000			\$	10,000.00	\$	10,000.00
(-)	Subtotal				-,	\$	45,000	\$	-	\$	22,500.00	\$,
DREC													
	MOBILIZATION		5%	of	all roadway	\$	33,800			\$	16,900.00	\$	16,900.00
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%	_	all roadway	\$	10,200			\$	5,100.00	\$	5,100.00
	SIGNING & PAVEMENT MARKINGS		1%		all roadway	\$	6,800			\$	3,400.00	\$	3,400.00
	TURF ESTABLISHMENT AND EROSION CONTROL		3%		all roadway	\$	20.300	-		\$	10,150.00	\$	10,150.00
			1%		all roadway	\$	6.800			\$	3,400.00	\$	3,400.00
	TRAFFIC CONTROL/STAGING		0%	-	all roadway	\$	-			\$	-	\$	-
	CONTINGENCY FOR MISSING ITEMS		20%	_	all roadway	\$	135,000			\$	67,500.00	\$	67,500.00
	Subtotal		2070	•.	anroadnaj	\$	213,000	\$	-	\$	106,450.00		106,450.00
			Construction C	(,		950,000			\$	475,000.00	\$	475,000.00
		Anticipated R					124,100			\$	62,050.00	\$. ,
		E	Engineering C				200,000				100,000.00		100,000.00
				-	020 Dollars)	\$	1,274,100	\$	-	\$	637,050	\$	637,050
			Construction C	(,		1,100,000				550,000.00		550,000.00
		Anticipated R				\$	140,000			\$	70,000.00	\$	70,000.00
-		I	Engineering C		,		240,000			_	120,000.00		120,000.00
			Total Co	ost (2	025 Dollars)	\$	1,480,000	\$	-	\$	740,000	\$	740,000

Notes:

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

2. 10' x 14' underpass box culvert assummed with 3' minimum surface cover.



Opinion of Probable Cost - Preliminary Cost Estimate

Hwy 10 Improvements: Bavaria Road Intersection Improvements (S5)

Carver County 1/22/2021



								Cost I	Participatio	on		
Item	Unit	Total Qty	Unit Price	·	Total Cost	Mn	DOT	Carve	r County	с	haska	Notes:
AJOR ROADWAY ITEMS (NOTES 1-2)				Ť						1		
REMOVE BITUMINOUS PAVEMENT	SY	14,928	\$ 4.00	\$	59.800			\$	59.800	\$	-	
REMOVE CURB AND GUTTER	LF	2,950	\$ 4.00		11,900			\$	11,900		-	
EXCAVATION - COMMON	CY	7,026	\$ 8.00		56,300			\$	50,700		5,600	
COMMON EMBANKMENT (CV)	CY	10,850	\$ 4.00		43,500			\$	39,200	\$	4,400	
AGGREGATE BASE (CV) CLASS 5Q	CY	4.363	\$ 31.00		135.300			\$		\$	30,200	
SELECT GRANULAR EMBANKMENT (CV)	CY	9,920	\$ 19.00		188,500			\$		\$	41,900	
TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	229	\$ 80.00		18,400			\$	10,000		8,400	
TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	5,573	\$ 44.00		245,200			\$		\$	53,200	
CURB AND GUTTER B424	LF	8,506	\$ 21.00		178,700			\$		\$	48,400	
4" CONCRETE WALK	SF	20.309	\$ 5.00		101,600			\$		\$	31,800	
Subtotal				\$	1,039,000	\$	-	\$	815,500	\$	223,900	
				_								
MODULAR BLOCK RETAINING WALL	SF	891	\$ 65.00		58,000	-		\$	58,000			
Subtotal				\$	58,000	\$	-	\$	58,000	\$	-	
	-			-								
All Roadway Construction Subtotal	T	1		\$	1,097,000	\$	-	\$	873,500	\$	223,900	
CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC)	LS	1	\$ 450.000.00	\$	450.000			1		¢	450.000	
LIGHTING	LS	1	\$ 450,000.00		450,000					\$ \$	450,000 100,000	
3) URBAN DRAINAGE	LS	1	\$ 100,000.00		435,000			\$	348,000	ծ \$	87,000	80:20 Split
Subtotal	LS	1	\$ 435,000.00	ֆ \$	435,000 985,000	\$	-	ծ \$	348,000		637,000	80.20 Spiit
				Ť	000,000	Ŷ		Ŷ	0.10,000	Ŷ	001,000	
ECENTAGE ITEMS												
MOBILIZATION		5%	of all roadway	\$	54,900			\$			11,200	Pro-rated by construction cost
MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%	of all roadway	\$	16,500			\$		\$	-	
SIGNING & PAVEMENT MARKINGS		5%	of all roadway	\$	54,900			\$	54,900	\$	-	
TURF ESTABLISHMENT AND EROSION CONTROL		8%	of all roadway	\$	87,800			\$		\$	17,900	Pro-rated by construction cost
LANDSCAPING/STREETSCAPE		8%	of all roadway	\$	87,800			\$	-	\$	87,800	
TRAFFIC CONTROL/STAGING		5%	of all roadway	\$	54,900			\$	43,700	\$	11,200	Pro-rated by construction cost
CONTINGENCY FOR MISSING ITEMS		20%	of all roadway	\$	219,400			\$		\$	44,800	Pro-rated by construction cost
Subtotal				\$	576,000	\$	-	\$	403,300	\$	172,900	
		onstruction C	ost (2020 Dollars) ¢	2,658,000	1		\$	1,624,800	¢	1,033,800	
Δnt			ost (2020 Dollars		110,000			ф \$	55,000		55,000	50:50 Split
Ant			ost (2020 Dollars		550,000			э \$	437.800		112,200	Pro-rated by construction cost
	-		ost (2020 Dollars		3,318,000	\$	-		2,117,600			The falled by construction cost
		Total Co				Ψ	-	Ψ	.,,	Ψ	.,201,000	
								¢ ′	000 080 2	¢ ·	1 310 000	
And		onstruction C	ost (2028 Dollars)\$	3,370,000				2,060,000			
Ant	icipated Ri	onstruction C ght-of-Way C) \$) \$				\$ 2 \$ \$	2,060,000 70,000 550,000	\$	1,310,000 70,000 140,000	

Notes:

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

2. 3. Trail pavement section assumed is 3 inch bituminous pavement and 4 inch aggregate base. Urban Drainage lump sum item includes all storm sewer pipe, structures and excavation of ponds.

Hwy 10 Improvements: Fire Station Improvements (S6)

Carver County 1/22/2021

							Г		Cos	at Participation	on		
Item	Unit	Total Qty		Unit Price		Total Cost		MnDOT	Car	ver County	c	Chaska	Notes:
MAJOR ROADWAY ITEMS (NOTES 1-2)					Ī								
REMOVE BITUMINOUS PAVEMENT	SY	8,889	\$	4.00	\$	35,600			\$	35,600	\$	-	
REMOVE CURB AND GUTTER	LF	259	\$	4.00	\$	1,100			\$	1,100	\$	-	
EXCAVATION - COMMON	CY	8,390	\$	8.00	\$	67,200			\$	67,200	\$	-	
COMMON EMBANKMENT (CV)	CY	942	\$	4.00	\$	3,800			\$	3,800	\$	-	
AGGREGATE BASE (CV) CLASS 5Q	CY	2,825	\$	31.00	\$	87,600			\$	85,400	\$	2,200	
SELECT GRANULAR EMBANKMENT (CV)	CY	6,436	\$	19.00	\$	122,300			\$	122,300	\$	-	
TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	167	\$	80.00	\$	13,400			\$	6,700	\$	6,700	
TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	3,975	\$	44.00	\$	175,000			\$	175,000	\$	-	
CURB AND GUTTER B424	LF	3,934	\$	21.00	\$	82,700			\$	30,600	\$	52,100	
4" CONCRETE WALK	SF	3,941	\$	5.00	\$	19,800			\$	19,800	\$	-	
Subtotal					\$	609,000	5	ş -	\$	547,500	\$	61,000	
		-			_								
All Roadway Construction Subtotal					\$	609,000		\$-	\$	547,500	\$	61,000	
		1			-								
SPECIAL LUMP SUM CONSTRUCTION ITEMS							1						
CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC)	LS		\$	-	\$						\$	-	
LIGHTING	LS	1	\$	40,000.00	\$						\$	40,000	
(3) URBAN DRAINAGE	LS	1	\$	256,000.00	\$				\$		\$	51,200	80:20 Split
Subtotal					\$	296,000			\$	204,800	\$	91,200	
PRECENTAGE ITEMS													
MOBILIZATION		5%		f all roadwav	\$	30,500			\$	27,400	¢	3,100	Pro-rated by construction cost
MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%		,	ф \$				э \$	9,200		- 3,100	FTO-Tated by construction cost
SIGNING & PAVEMENT MARKINGS		3%		f all roadway f all roadway	э \$				э \$	9,200			
TURF ESTABLISHMENT AND EROSION CONTROL		5%		f all roadway	ф \$				э \$	27,400		- 3,100	Pro-rated by construction cost
LANDSCAPING/STREETSCAPE		5% 8%		f all roadway	э \$		⊢		э \$		ֆ \$	48,800	FIG-rated by construction cost
TRAFFIC CONTROL/STAGING		5%		f all roadway	φ \$				\$ \$		پ \$	3,100	Pro-rated by construction cost
CONTINGENCY FOR MISSING ITEMS		20%		f all roadway	φ \$				\$ \$		پ \$	12,200	Pro-rated by construction cost
Subtotal		2078	0	i ali i dauway	φ \$			5 - B	φ \$	219,300		70,300	FIG-rated by construction cost
Gubiotai					Ψ	203,000	Ľ	μ –	Ψ	213,300	Ψ	10,000	
	C	onstruction C	ost	(2020 Dollars)	\$	1,194,600			\$	971,600	\$	222,500	
Antici				(2020 Dollars) (2020 Dollars)			╞		\$	80,300		80,300	50:50 Split
Anu				(2020 Dollars) (2020 Dollars)			⊢		\$	224,940		25,070	Pro-rated by construction cost
	_			2020 Dollars)				s -	\$	1,276,800		327,900	
	C		,	(2028 Dollars)		, ,	۲		\$	1,230,000		280,000	
Antici				(2028 Dollars)			╞		\$	100,000		100,000	
74140				(2028 Dollars)			┢		\$	280,000		30,000	
	-	0 0		2028 Dollars)					\$	1,610,000		410,000	

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Real People. Real Solutions.

Notes:

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

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

Urban Drainage lump sum item includes all storm sewer pipe, structures and excavation of ponds.

4. City Utility costs in this area are included in TH 41 and Bavaria Road projects.

Opinion of Probable Cost - Preliminary Cost Estimate

Hwy 10 Improvements: Park Ridge Drive Intersection Improvements (S7)

Carver County 1/22/2021



							Cos	at Participation	n		
	Item	Unit	Total Qty	Unit Price	Total Cost	MnDOT	Carv	ver County	с	haska	Notes:
JOI	R ROADWAY ITEMS (NOTES 1-2)										
	REMOVE BITUMINOUS PAVEMENT	SY	14,747	\$ 4.00	\$ 59,000		\$	59,000	\$	-	
	REMOVE CURB AND GUTTER	LF	1,029	\$ 4.00	\$ 4,200		\$	4,200	\$	-	
	REMOVE SIGNAL SYSTEM	LS	0	\$ 10,000.00	\$ -		\$	-	\$	-	
	EXCAVATION - COMMON	CY	18,158	\$ 8.00	\$ 145,300		\$	123,500	\$	21,800	
	COMMON EMBANKMENT (CV)	CY	19.688	\$ 4.00	\$ 78,800		\$		\$	11.800	
_	AGGREGATE BASE (CV) CLASS 5Q	CY	4,157	\$ 31.00	\$ 128,900		\$	120,900	\$	8,000	
	SELECT GRANULAR EMBANKMENT (CV)	CY	9,170	\$ 19.00	\$ 174,300		\$	147,900		26,400	
	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	307	\$ 80.00	\$ 24,600		\$		\$	12,000	
	TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	4,983	\$ 44.00	\$ 219,300		\$	189,600	\$	29,700	
	CURB AND GUTTER B424	LF	9,683	\$ 21.00	\$ 203,400		\$	171,600		31,800	
	4" CONCRETE WALK	SF	25,816	\$ 5.00	\$ 129,100		\$	80,700		48,400	
	Subtotal	0.	20,010	¢ 0.00	\$ 1,166,900	\$ -	\$	977,000		189,900	
-					• .,,		Ŧ	,	Ŧ	,	
งบง	TURAL ITEMS										
-	MODULAR BLOCK RETAINING WALL	SF	1.563	\$ 65.00	\$ 101,600		\$	50.800	\$	50.800	50:50 Split
	Subtotal			,	\$ 101,600	\$ -	\$	50,800	\$	50,800	
								· · ·			
	All Roadway Construction Subtotal		1	1	\$ 1,268,500	\$ -	\$	1,027,800	\$	240,700	
		-									
	AL LUMP SUM CONSTRUCTION ITEMS						1				
	CITY UTILITIES (WATERMAIN/SANITARY)	LS	1	\$ 330,000.00					\$	330,000	
	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING	LS	1	\$ 80,000.00	\$ 80,000		\$	40,000	\$	40,000	50:50 Split
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE		-		\$ 80,000 \$ 562,000		\$	40,000 281,000	\$ \$	40,000 281,000	50:50 Split 50:50 Split
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING	LS	1	\$ 80,000.00	\$ 80,000	\$ -		40,000	\$ \$	40,000	
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE	LS	1	\$ 80,000.00	\$ 80,000 \$ 562,000	\$ -	\$	40,000 281,000	\$ \$	40,000 281,000	
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal	LS LS	1	\$ 80,000.00	\$ 80,000 \$ 562,000	-	\$	40,000 281,000	\$ \$ \$	40,000 281,000	50:50 Split
3) ECE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal	LS LS	1	\$ 80,000.00 \$ 562,000.00	\$ 80,000 \$ 562,000 \$ 972,000		\$	40,000 281,000 321,000	\$ \$ \$	40,000 281,000 651,000	50:50 Split
) ECE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION		1 1 5%	\$ 80,000.00 \$ 562,000.00 of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500	-	\$ \$ \$	40,000 281,000 321,000 51,500	\$ \$ \$ \$ \$	40,000 281,000 651,000 12,100	50:50 Split
) ECE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		1 1 5% 2%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100		\$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500	\$ \$ \$ \$ \$	40,000 281,000 651,000 12,100 -	50:50 Split Pro-rated by construction cos
) ECE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS		1 1 5% 2% 5%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500	-	\$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500 51,500	\$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 12,100 - -	50:50 Split Pro-rated by construction cos
) ECE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL		1 1 5% 2% 5% 5%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 63,500	-	\$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500 51,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 - 12,100	50:50 Split Pro-rated by construction cos Pro-rated by construction cos
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE		1 1 5% 2% 5% 5% 3%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway of all roadway of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 19,100 \$ 63,500 \$ 63,500 \$ 101,500	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500 51,500 -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 101,500	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos
CE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING		1 1 2% 5% 5% 3% 5%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway of all roadway of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 19,100 \$ 63,500 \$ 63,500 \$ 101,500 \$ 63,500		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500 51,500 - 51,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 101,500 12,100	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos
CE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STRETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS		1 1 2% 5% 5% 3% 5%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway of all roadway of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 19,100 \$ 63,500 \$ 63,500 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500 51,500 - 51,500 205,600	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - 12,100 101,500 12,100 48,200	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos
CE	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STRETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS		1 1 5% 22% 5% 5% 5% 5% 0%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway of all roadway of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700 \$ 628,300		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 51,500 - 51,500 205,600 442,700	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - 12,100 101,500 12,100 48,200	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS Subtotal		1 1 5% 2% 5% 5% 5% 0% 0%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway of all roadway of all roadway of all roadway of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700 \$ 628,300		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500 51,500 - 51,500 205,600	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 101,500 12,100 48,200 186,000	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS Subtotal	LS LS LS LS LS C C Anticipated Ri	1 1 5% 2% 5% 5% 5% 0% 0% 0% 0%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700 \$ 628,300 \$ 2,868,800		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 51,500 51,500 205,600 442,700 1,791,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - - 12,100 101,500 12,100 48,200 186,000	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos 50:50 Split
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS Subtotal	LS LS LS LS LS C C Anticipated Ri	1 1 5% 2% 5% 5% 5% 0% onstruction C ght-of-Way C Engineering C	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700 \$ 628,300 \$ 2,868,800 \$ 175,900 \$ 550,000	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 19,100 63,500 51,500 - 51,500 205,600 442,700 1,791,500 87,950 445,640	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 101,500 12,100 48,200 186,000 1,077,700 87,950 104,370	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos 50:50 Split
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS Subtotal	LS LS LS LS LS C C Anticipated Ri E	1 1 5% 2% 5% 5% 5% 5% 5% 5% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway ost (2020 Dollars) ost (2020 Dollars)	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700 \$ 253,700 \$ 2,868,800 \$ 175,900 \$ 3,594,700	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 51,500 - 51,500 205,600 442,700 442,700 87,950 445,640 2,325,090	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 101,500 12,100 48,200 186,000 1,077,700 87,950 104,370 104,370	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos 50:50 Split
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS Subtotal	LS LS LS LS LS C C Anticipated Ri E	1 1 1 5% 2% 5% 5% 5% 0% onstruction C ght-of-Way C ingineering C Total Cc onstruction C	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway ost (2020 Dollars) ost (2020 Dollars) ost (2031 Dollars)	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700 \$ 628,300 \$ 2,868,800 \$ 175,900 \$ 550,000 \$ 3,594,700 \$ 3,970,000	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 51,500 51,500 205,600 442,700 1,791,500 87,950 445,640 2,325,690 2,480,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 101,500 12,100 48,200 186,000 10,77,700 87,950 104,370 1,277,020 87,950	50:50 Split Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos Pro-rated by construction cos 50:50 Split
)	CITY UTILITIES (WATERMAIN/SANITARY) LIGHTING URBAN DRAINAGE Subtotal ENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS Subtotal	LS LS LS LS C C Anticipated Ri C C Anticipated Ri	1 1 5% 2% 5% 5% 5% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	\$ 80,000.00 \$ 562,000.00 of all roadway of all roadway ost (2020 Dollars) ost (2020 Dollars)	\$ 80,000 \$ 562,000 \$ 972,000 \$ 63,500 \$ 19,100 \$ 63,500 \$ 101,500 \$ 63,500 \$ 253,700 \$ 253,700 \$ 2,868,800 \$ 175,900 \$ 3,594,700	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 321,000 51,500 51,500 - 51,500 205,600 442,700 442,700 87,950 445,640 2,325,090	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	40,000 281,000 651,000 - - 12,100 101,500 12,100 48,200 186,000 1,077,700 87,950 104,370 104,370	50:50 Split Pro-rated by construction cost Pro-rated by construction cost Pro-rated by construction cost Pro-rated by construction cost

Notes:

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

2. 3.

Trail pavement section assumed is 3 inch bituminous pavement and 4 inch aggregate base. Urban Drainage lump sum item includes all storm sewer pipe, structures and excavation of ponds. Includes improvements on ISD 112 site.

CSAH 10/11 Intersection Improvements (M1)

Carver County 1/22/2021

									Cost Participat	tion	
Item	Unit	Total Qty		Unit Price		Total Cost	м	nDOT	Carver County		Victoria
MAJOR ROADWAY ITEMS (1)					1						
REMOVE BITUMINOUS PAVEMENT	SY	19,966	\$	4.00	\$	79,900					
SAWING BITUMINOUS PAVEMENT (FULL DPETH)	LF	3,792	\$	3.00	\$	11,400					
REMOVE CURB AND GUTTER	LF	1,500	\$	4.00	\$	6,000					
EXCAVATION - COMMON	CY	15,030	\$	11.00	\$	165,400			\$ 165,400.00		
COMMON EMBANKMENT (CV)	CY	2,121	\$	11.00	\$	23,400			\$ 23,400.00		
AGGREGATE BASE (CV) CLASS 5Q	CY	7,761	\$	31.00	\$	240.600			\$ 240,600.00		
SELECT GRANULAR EMBANKMENT (CV)	CY	9,163	\$	19.00	\$	174,100			\$ 174,100.00		
TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	153	\$	80.00	\$	12,300			\$ 12,300.00		
TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	10,460	\$	70.00	\$	732,300			\$ 732,300.00		
PEDESTRIAN RAMP	EACH	4	\$	3.000.00	\$	12,000			\$ 12,000.00		
CURB AND GUTTER B424	LF	10,287	\$	25.00	\$	257,200			\$ 257,200.00		
4" CONCRETE WALK	SF	15,424	\$	10.00	\$	154,300			\$ 154,300.00		
Subtotal		.0,121	Ť	10100	\$	1,869,000	\$	-	\$1,869,000.00	\$	-
All Roadway Construction Subtotal			1		\$	1,869,000	\$	-	\$1,869,000.00	\$	-
		I								· · · · · ·	
					1						
SPECIAL LUMP SUM CONSTRUCTION ITEMS											
REMOVE TRAFFIC SIGNAL SYSTEM	LS	1	\$	10,000.00	\$	10,000			\$ 10,000.00		
TRAFFIC SIGNAL SYSTEM	LS	1	\$	330,000.00	\$	330,000			\$ 330,000.00		
URBAN DRAINAGE	LS	1	\$	450,000.00	\$	450,000			\$ 450,000.00		
Subtotal					\$	790,000	\$	-	\$ 790,000.00	\$	-
PRECENTAGE ITEMS											
MOBILIZATION		5%	of	all roadway	\$	133,000			\$ 133,000.00		
MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		5%	of	all roadway	\$	133,000			\$ 133,000.00		
SIGNING & PAVEMENT MARKINGS		4%	of	all roadway	\$	106,400			\$ 106,400.00		
TURF ESTABLISHMENT AND EROSION CONTROL		5%	-	all roadway	\$	133,000			\$ 133,000.00	1	
LANDSCAPING/STREETSCAPE		3%		all roadway	\$	66,500			\$ 66,500.00		
TRAFFIC CONTROL/STAGING		6%		all roadway	\$	159,600			\$ 159,600.00	1	
CONTINGENCY FOR MISSING ITEMS		20%	-	all roadway	\$	531,800			\$ 531,800.00		
Subtotal				,	\$	1,263,000	\$	-	\$1,263,300.00	\$	-
				(2020 Dollars)		3,900,000			\$3,900,000.00		
				(2020 Dollars)		50,000			\$ 25,000.00	\$	25,000.00
	E			(2020 Dollars)		780,000			\$ 780,000.00		
		Total Co	ost (2	2020 Dollars)	\$	4,730,000	\$	-	\$4,705,000.00	\$	25,000

Notes:

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

2. Trail pavement section assumed is 2.5 inch bituminous pavement and 4 inch aggregate base.

3. Drainage lump sum item includes all storm sewer pipe, structures and excavation of ponds.



Carver County 1/22/2021



ltem	Unit	Total Qty	U	Jnit Price	Т	otal Cost	Car	ver County		City/ veloper	Notes:
DR ROADWAY ITEMS (NOTES 1-2)											
REMOVE BITUMINOUS PAVEMENT	SY	13,847	\$	4.00	\$	55,400	\$	55,400	\$	-	
SAWING BITUMINOUS PAVEMENT (FULL DPETH)	LF	6,000	\$	3.00	\$	18,000	\$	18,000	\$	-	
REMOVE CURB AND GUTTER	LF	1,459	\$	4.00	\$	5,900	\$	5,900	\$	-	
REMOVE CONCRETE MEDIAN	SF	5,500	\$	3.50	\$	19,300	\$	19,300	\$	-	
MILL BITUMINOUS SURFACE	SY	10,291	\$	5.00	\$	51,500	\$	51,500	\$	-	
EXCAVATION - COMMON	CY	4,195	\$	8.00	\$	33,600	\$	23,845	\$	9,755	
COMMON EMBANKMENT (CV)	CY	13,860	\$	4.00	\$	55,500	\$	39,387	\$	16,113	
AGGREGATE BASE (CV) CLASS 5Q	CY	10,348	\$	31.00	\$	320,800	\$	227,667	\$	93,133	
SELECT GRANULAR EMBANKMENT (CV)	CY	8,217	\$	19.00	\$	156,200	\$	110,853	\$	45,347	
TYPE SP 9.5 WEARING COURSE MIX (4,C)	TONS	965	\$	65.00	\$	62,800	\$	31,400	\$	31,400	
TYPE SP 12.5 WEARING COURSE MIX (4,C)	TONS	8,236	\$	55.00	\$	453,000	\$	321,487	\$	131,513	
PEDESTRIAN RAMP	EACH	12	\$	1,500.00	\$	18,000	\$	-	\$	18,000	
CURB AND GUTTER B424	LF	18,769	\$	21.00	\$	394,200	\$	143,450	\$	250,751	
4" CONCRETE WALK	SF	59,818	\$	5.00	\$	299,100	\$	149,550	\$	149,550	
Subtotal					\$	1,943,000	\$	1,197,800	\$	745,900	
		1	1		\$	1,943,000	¢	1,197,800	\$	745,900	
					\$	1,943,000	\$	1,197,800	\$	745,900	
CIAL LUMP SUM CONSTRUCTION ITEMS	LS		\$	71.000.00							
RAILROAD CROSSING SYSTEM	LS	1	\$	71,000.00	\$ \$ \$ \$	1,943,000 71,000	\$	71,000	э •		
	LS LS LS	1		71,000.00	\$		\$	71,000	\$		95:5 Split
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC)	LS		\$	-	\$	71,000	\$	71,000	\$	-	95:5 Split
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal	LS		\$	-	\$	71,000	\$ \$	71,000	\$	34,250	95:5 Split
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS	LS LS	1	\$	- 685,000.00	\$ \$ \$ \$	71,000 - 685,000 756,000	\$ \$ \$	71,000 - 650,750 721,750	\$ \$ \$	- - 34,250 34,250	
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION	LS	1	\$ \$ of a	- 685,000.00 all roadway	\$ \$ \$ \$	71,000 - 685,000 756,000 135,000	\$ \$ \$ \$	71,000 - 650,750 721,750 83,223	\$ \$ \$ \$	- - 34,250 34,250 51,825	Pro-rated by construction of
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		1 5% 5%	\$ \$ of a of a	- 685,000.00 all roadway all roadway	\$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 - 135,000 97,200	\$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921	\$ \$ \$ \$ \$	- - 34,250 34,250 51,825 37,314	
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS		1 5% 5% 3%	\$ \$ of a of a	- 685,000.00 all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 - 135,000 97,200 58,300	\$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 34,250 34,250 51,825 37,314 -	Pro-rated by construction co
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL		1 5% 5% 3% 3%	\$ \$ of a of a of a of a	- 685,000.00 all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 - 135,000 97,200 58,300 62,400	\$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 34,250 34,250 51,825 37,314 - 23,955	Pro-rated by construction of
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE		1 5% 5% 3% 3% 2%	\$ \$ of a of a of a of a of a	- 685,000.00 all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 97,200 58,300 62,400 40,900	\$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300 38,468 -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 34,250 34,250 51,825 37,314 - 23,955 40,900	Pro-rated by construction of Pro-rated by construction of Pro-rated by construction of
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal EENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL		1 5% 5% 3% 3%	\$ \$ of a of a of a of a of a of a	- 685,000.00 all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 - 135,000 97,200 58,300 62,400	\$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300 38,468	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 34,250 34,250 51,825 37,314 - 23,955	Pro-rated by construction co
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING		1 5% 5% 3% 2% 5%	\$ \$ of a of a of a of a of a of a	685,000.00 all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 97,200 58,300 62,400 40,900 100,100	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300 38,468 - 61,709	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS		1 5% 5% 3% 2% 5%	\$ \$ of a of a of a of a of a of a	685,000.00 all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300 38,468 - 61,709 247,266	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 34,250 34,250 51,825 37,314 - 23,955 40,900 38,427 153,979	Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS		1 5% 5% 3% 2% 5%	\$ \$ of a of a of a of a of a of a of a	685,000.00 all roadway all roadway all roadway all roadway all roadway all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300 38,468 - 61,709 247,266	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - 34,250 34,250 51,825 37,314 - 23,955 40,900 38,427 153,979	Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS		1 5% 5% 3% 3% 2% 5% 00%	\$ \$ of a of a of a of a of a of a of a cof a Cost (2	685,000.00 all roadway all roadway all roadway all roadway all roadway all roadway all roadway all roadway 2020 Dollars)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 97,200 58,300 62,400 40,900 100,100 401,100 895,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300 38,468 - 61,709 247,266 549,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - 34,250 34,250 51,825 37,314 - 23,955 40,900 38,427 153,979 346,000	Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c Pro-rated by construction c
RAILROAD CROSSING SYSTEM CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC) URBAN DRAINAGE Subtotal CENTAGE ITEMS MOBILIZATION MISC REMOVALS (CURB, SIGNS, TREES, ETC.) SIGNING & PAVEMENT MARKINGS TURF ESTABLISHMENT AND EROSION CONTROL LANDSCAPING/STREETSCAPE TRAFFIC CONTROL/STAGING CONTINGENCY FOR MISSING ITEMS	LS LS	1 5% 5% 3% 3% 2% 5% 0% 0% Construction 0	\$ \$ of a of a of a of a of a of a of a cof a Cost (2 Cost (2	all roadway all roadway	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 685,000 756,000 97,200 58,300 62,400 40,900 100,100 401,100 895,000 3,594,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	71,000 - 650,750 721,750 83,223 59,921 58,300 38,468 - 61,709 247,266 549,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - - - - - - - - -	Pro-rated by construction Pro-rated by construction Pro-rated by construction Pro-rated by construction

Notes:

1. Pavement section assumed is 6 inch bituminous pavement, 12 inch aggregate base, and 18 inch sand.

2. Trail pavement section assumed is 2.5 inch bituminous pavement and 4 inch aggregate base.

3. Cost sharing per Carver County Division of Public Works Cost Participation Policy (2013).

Opinion of Probable Cost - Preliminary Cost Estimate CSAH 10 Western Subarea - RR Xing to Creek Ln Rural Section (M3) Carver County 1/22/2021



Item	Unit	Total Qty	Unit Price	Total Cost	Carver Cour	ty Chaska	Victoria	Notes:
AJOR ROADWAY ITEMS (NOTES 1-2)								
REMOVE BITUMINOUS PAVEMENT	SY	47,541	\$ 4.00	\$ 190,200	\$ 190,20	0		
REMOVE CURB AND GUTTER	LF	1.469	\$ 4.00	\$ 5,900	\$ 5.90			
EXCAVATION - COMMON	CY	66,540	\$ 8.00	\$ 532,400	\$ 532,40	D		
COMMON EMBANKMENT (CV)	CY	174,488	\$ 14.00	\$ 2,442,900	\$ 2,442,90	D		
AGGREGATE BASE (CV) CLASS 5Q	CY	20,899	\$ 31.00	\$ 647,900	\$ 634,94	2 \$ 12,958		
SELECT GRANULAR EMBANKMENT (CV)	CY	23,885	\$ 19.00	\$ 453,900	\$ 444,82	2 \$ 9,078		
TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	1,157	\$ 80.00	\$ 92,600	\$ 74,08	0 \$ 18,520		
TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	26,182	\$ 44.00	\$ 1,152,100	\$ 1,152,10	D		
PEDESTRIAN RAMP	EACH	4	\$ 1,500.00	\$ 6,000	\$ 6,00	D		
CURB AND GUTTER B424	LF	4,191	\$ 25.00	\$ 104,800	\$ 104,80	D		
4" CONCRETE WALK	SF	37,841	\$ 10.00	\$ 378,500	\$ 378,50	D		
Subtotal				\$ 6,007,000	\$ 5,967,00	0 \$ 41,000	s -	
All Roadway Construction Subtotal				\$ 6,007,000	\$ 5,967,00	0 \$ 41,000	\$ -	
ECIAL LUMP SUM CONSTRUCTION ITEMS								
LIGHTING	LS	1	\$ 25,000.00	\$ 25,000	\$ 16,700.0	0 \$ 8,300		
3) DRAINAGE	LS	1	\$ 265,000.00	\$ 265,000	\$ 258,37	5 \$ 6,625		
Subtotal				\$ 290,000	\$ 275,07	5 \$ 14,925	\$ -	
ECENTAGE ITEMS								
MOBILIZATION	Ę	5%	of all roadway	\$ 300,400	\$ 298,40	0 \$ 2,100	s -	Pro-rated by construction cost
MISC REMOVALS (CURB, SIGNS, TREES, ETC.)	Ę	5%	of all roadway	\$ 300,400	\$ 300,40	0		
SIGNING & PAVEMENT MARKINGS	3	3%	of all roadway	\$ 180,300	\$ 180,30	D		
TURF ESTABLISHMENT AND EROSION CONTROL	5	5%	of all roadway	\$ 300,400	\$ 298,40	0 \$ 2,100	s -	Pro-rated by construction cost
LANDSCAPING/STREETSCAPE	1	1%	of all roadway	\$ 60,100		\$ 60,100		
TRAFFIC CONTROL/STAGING		5%	of all roadway	\$ 300,400	\$ 298,40		s -	Pro-rated by construction cost
CONTINGENCY FOR MISSING ITEMS		0%	of all roadway	\$ 1,201,400	\$ 1,193,20			Pro-rated by construction cost
Subtotal			()	\$ 2,643,000		0 \$ 75,000	\$ -	
	c	onstruction C	ost (2020 Dollars)	\$ 8,940,000	\$ 8,811,10	0 \$ 130,900	s -	
			ost (2020 Dollars)		\$ 855,80			100% County, assuming Township will not be annexed at time of construct
			ost (2020 Dollars)		\$ 1,778,00		s -	Pro-rated by construction cost
	-		ost (2020 Dollars)			0 \$ 142,900		,

Pavement section assumed is 10 inch bituminous pavement, 12 inch aggregate base, and 12 inch sand. Trail pavement section assumed is 2.5 inch bituminous pavement and 4 inch aggregate base. Drainage lump sum item includes all storm sewer pipe, structures and excavation of ponds.

Notes: 1. 2. 3.

Opinion of Probable Cost - Preliminary Cost Estimate

Hwy 10 Improvements: Ridge Drive to CSAH 61 Improvements (L1)



									Cost Participation					
	ltem	Unit	Total Qty	u	Jnit Price	т	Total Cost	м	nDOT	Car	ver County		Chaska	Notes:
MAJOR R	OADWAY ITEMS (NOTES 1-2)			1										
RE	MOVE BITUMINOUS PAVEMENT	SY	28,349	\$	4.00	\$	113,400			\$	113,400	\$	-	
RE	MOVE CURB AND GUTTER	LF	3,410	\$		\$	13,700			\$	13,700		-	
EX	CAVATION - COMMON	CY	33,956	\$	8.00	\$	271,700			\$	271,700	\$	-	
CC	DMMON EMBANKMENT (CV)	CY	22,331	\$	4.00	\$	89,400			\$	89,400	\$	-	
	GREGATE BASE (CV) CLASS 5Q	CY	8,558	\$	31.00	\$	265,300			\$	265,300	\$	-	
	LECT GRANULAR EMBANKMENT (CV)	CY	18,924	\$		\$	359,600			\$	359,600	\$	-	
	PE SP 9.5 WEARING COURSE MIX (4,F)	TONS	779	\$		\$	62,400			\$	31,200	\$	31,200	
	PE SP 12.5 WEARING COURSE MIX (4,F)	TONS	11,070	\$		\$	487,100			\$	487,100	\$	-	
	IRB AND GUTTER B424	LF	15,794	\$		\$	331,700			\$	129,400	\$	202,300	
	CONCRETE WALK	SF	24,914	\$		\$	124,600			\$	123,400		1,200	
	btotal	0.	21,011	Ť		\$	2,118,900	\$	-	\$	1,884,200		234,700	
- Cu						Ψ	2,110,000	Ψ		Ψ	1,004,200	Ψ	204,700	
All	Roadway Construction Subtotal			1	- 1	\$	2,118,900	\$	-	\$	1,884,200	\$	234,700	
PECIAL	LUMP SUM CONSTRUCTION ITEMS													
RE	MOVE SIGNAL SYSTEM	LS	1	\$	10,000.00	\$	10,000			\$	10,000			
TR	AFFIC SIGNAL SYSTEM	LS	1	\$	275,000.00	\$	275,000			\$	275,000			
CI	TY UTILITIES (WATERMAIN/SANITARY)	LS	1	\$	440,000.00	\$	440,000					\$	440,000	
LIC	GHTING	LS	1	\$	50,000.00	\$	50,000			\$	20,000	\$	30,000	
(3) UF	RBAN DRAINAGE	LS	1	\$	727,000.00	\$	727,000			\$	581,600	\$	145,400	80:20 Split
RA	VOUX ROAD OVERHEAD RRFB SYSTEM	LS	1	\$	125,000.00	\$	125,000			\$	62,500	\$	62,500	50:50 Split
Su	btotal					\$	1,627,000	\$	-	\$	949,100	\$	677,900	
RECEN	TAGE ITEMS													
	DBILIZATION		5%	of	all roadway	\$	106.000			\$	94,300	\$	11,800	Pro-rated by construction cost
	SC REMOVALS (CURB, SIGNS, TREES, ETC.)		3%		,	\$	63,600			\$	63,600		-	· · · · · · · · · · · · · · · · · · ·
	GNING & PAVEMENT MARKINGS		3%	-	,	\$	63,600			\$	63,600		-	
	IRF ESTABLISHMENT AND EROSION CONTROL		8%	-	,	\$	169,600			\$	150,800	\$	18,800	Pro-rated by construction cost
-	NDSCAPING/STREETSCAPE		3%	_		\$	53,000			\$	-	\$	53,000	The fated by construction cost
	AFFIC CONTROL/STAGING		5%	-		\$	106,000			\$	94,300	\$	11,700	Pro-rated by construction cost
	DNTINGENCY FOR MISSING ITEMS		20%	-	,	\$	423,800			\$	376,900		46,900	Pro-rated by construction cost
	btotal		.0 /0	010		φ \$	985,600	\$	-	\$	843,500		142,200	The fated by construction cost
	biotai					φ	903,000	φ	-	φ	043,300	φ	142,200	
·····		C	onstruction C	Cost (2	2020 Dollars)	\$	4,731,500			\$	3,676,800	\$	1,054,800	
		Anticipated Ri					107,500			\$	53,750		53,750	50:50 Split
		E	Engineering C	Cost (2	2020 Dollars)	\$	950,000			\$	844,800		105,200	Pro-rated by construction cost
			Total Co	ost (2	020 Dollars)	\$	5,789,000	\$	-	\$	4,575,350	\$	1,213,750	
		C	onstruction C	Cost (2	2033 Dollars)	\$	6,950,000			\$	5,400,000	\$	1,550,000	
		Anticipated Ri	ght-of-Way C	Cost (2	2033 Dollars)	\$	160,000			\$	80,000	\$	80,000	
					2033 Dollars)	\$	1,390,000			\$	1,240,000	\$	150,000	
					033 Dollars)		8,500,000	\$	-	\$	6,720,000	\$	1,780,000	

Notes

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

2.

Trail pavement section assumed is 3 inch bituminous pavement and 4 inch aggregate base. Urban Drainage lump sum item includes all storm sewer pipe, structures and excavation of ponds. 3.



Carver County

1/22/2021

	Item	Unit	Total Qty		Unit Price	т	otal Cost	М	DOT	Ca	rver County		Chaska
	DR ROADWAY ITEMS (NOTES 1-2)											<u> </u>	
	EXCAVATION - COMMON	CY	1.326	\$	8.00	\$	10.700						
	COMMON EMBANKMENT (CV)	CY	1,320	\$	4.00	\$	5,800						
	AGGREGATE BASE (CV) CLASS 5Q	CY	70	\$	31.00	\$	2,200						
	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	83	\$	80.00	\$	6,600						
	Subtotal	TONO	00	Ψ	00.00	\$	25,000	\$	-	\$	-	\$	-
TRI													
	BIKE UNDERPASS	SF	1,610	\$	175.00	\$	281,800			\$	281,800.00		
	MODULAR BLOCK RETAINING WALL	SF	968	\$	65.00	\$	63,000			Ψ	201,000.00		
	CAST-IN-PLACE WALLS	SF	838	\$	125.00	\$	104,800						
	Subtotal	01	000	Ψ	125.00	φ \$	450,000	\$	-	\$	281,800.00	\$	
	Subiotal					Ψ	430,000	Ψ	-	Ψ	201,000.00	Ψ	
	All Roadway Construction Subtotal			-		\$	475,000	\$		\$		\$	
				L		Ψ.	470,000	Ψ	_	Ψ		Ŷ	
PFC	IAL LUMP SUM CONSTRUCTION ITEMS												
		LS	1	\$	25,000.00	\$	25,000						
(3)	URBAN DRAINAGE	LS	1	\$	10,000.00	\$	10,000						
(-)	Subtotal			•	,	\$	35,000	\$	-	\$	-	\$	-
REC													
	MOBILIZATION		5%	of	f all roadwav	\$	23,800						
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		3%		f all roadway	\$	14,300						
	SIGNING & PAVEMENT MARKINGS		1%	-	f all roadway	\$	4.800						
	TURF ESTABLISHMENT AND EROSION CONTROL		5%	-	f all roadway	\$	23,800						
	LANDSCAPING/STREETSCAPE		3%	-	f all roadway	\$	11,900						
	TRAFFIC CONTROL/STAGING)%	-	f all roadway	\$	-						
	CONTINGENCY FOR MISSING ITEMS		0%		f all roadway	\$	95,000			1		<u> </u>	
	Subtotal					\$	174,000	\$	-	\$	-	\$	-
			onstruction C	ost ((2020 Dollars)	¢	700,000			\$	350,000.00	\$	350,000.0
		Anticipated Ri				Ψ	700,000 TBD	-		φ \$	-	φ \$	
					(2020 Dollars) (2020 Dollars)	\$	150.000	-		\$	75,000.00		75.000.
		-			2020 Dollars)		850.000	\$	-	\$	425.000		425.0
		C			(2033 Dollars)		1,020,000	Ļ		\$	510,000.00		510,000.
		Anticipated Ri			,	÷	TBD	-		\$	-	\$	
					(2033 Dollars)	\$	220,000			\$	110,000.00	\$	110,000.
					2033 Dollars)		1,240,000	\$	-	\$	620,000	\$	620,0

Notes:

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

2. 10' x 14' underpass box culvert assummed with 3' minimum surface cover.



Opinion of Probable Cost - Preliminary Cost Estimate

Hwy 10 Improvements: Victoria Dr to Prescott Ln Improvements (L2)

Carver County





									Cost Participation			
Item	Unit	Unit Total Qty Unit Price			Total Cost	N	MnDOT		Carver County		Chaska	Notes:
JOR ROADWAY ITEMS (NOTES 1-2)												
REMOVE BITUMINOUS PAVEMENT	SY	13,235	\$ 4.00	\$	53,000			\$	53,000	\$	-	
REMOVE CONCRETE MEDIAN/WALK	SF	1,575	\$ 3.00	\$	4,800			\$	4,800	-	-	
REMOVE CURB AND GUTTER	LF	4,109	\$ 4.00	\$	16,500			\$	16,500	\$	-	
EXCAVATION - COMMON	CY	9,900	\$ 8.00	\$	79,200			\$	79,200	\$	-	
COMMON EMBANKMENT (CV)	CY	13,368	\$ 4.00	\$	53,500			\$	53,500	\$	-	
AGGREGATE BASE (CV) CLASS 5Q	CY	4,290	\$ 31.00	\$	133,000			\$	129,700		3,300.00	
SELECT GRANULAR EMBANKMENT (CV)	CY	9,801	\$ 19.00	\$	186,300			\$	186,300	\$	-	
TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	242	\$ 80.00	\$	19,400			\$	9,700	\$	9,700	
TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	5,077	\$ 44.00	\$	223,400			\$	223,400	\$	-	
CURB AND GUTTER B424	LF	7,597	\$ 21.00	\$	159,600			\$	81,400	\$	78,200	
4" CONCRETE WALK	SF	26,386	\$ 5.00	\$	132,000			\$	132,000	\$	-	
Subtotal				\$	1,061,000	\$	-	\$	969,500	\$	91,200	
All Roadway Construction Subtotal				\$	1,061,000	\$	-	\$	969,500	\$	91,200	
CITY UTILITIES (WATERMAIN/SANITARY/ELECTRIC)	LS	1	\$ 425,000.00		425,000					\$	425,000	
LIGHTING	LS	1	\$ 40,000.00		40,000			\$	20,000		20,000	
B) URBAN DRAINAGE	LS	1	\$ 243,000.00	\$	243,000			\$	194,400		48,600	80:20 Split
Subtotal				\$	708,000	\$	-	\$	214,400	\$	493,600	
ECENTAGE ITEMS												
MOBILIZATION		5%	of all roadway	\$	53,100			\$	48,600	\$	4,600	Pro-rated by construction cost
MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		2%	of all roadway	\$	16,000			\$	16,000		-	
SIGNING & PAVEMENT MARKINGS		3%	of all roadway	\$	31,900			\$	31,900	-	-	
TURF ESTABLISHMENT AND EROSION CONTROL		5%	of all roadway	\$	53,100			\$	48,600		4,600	Pro-rated by construction cost
LANDSCAPING/STREETSCAPE		8%	of all roadway	\$	84,900			\$	-	\$	84,900	······································
TRAFFIC CONTROL/STAGING		5%	of all roadway	\$	53,100			\$	48,600	•	4,600	Pro-rated by construction cost
CONTINGENCY FOR MISSING ITEMS		0%	of all roadway	\$	212,200			\$	194,000		18,300	Pro-rated by construction cost
Subtotal			,	\$	504,000	\$	-	\$	387,700		117,000	,
										<u> </u>		
			ost (2020 Dollars)	\$	2,273,000			\$	1,571,600		701,800	
			ost (2020 Dollars))\$	20,000	L		\$	10,000		10,000	50:50 Split
	E		ost (2020 Dollars)		450,000			\$	411,300		38,700	Pro-rated by construction cost
		Total Co	ost (2020 Dollars)	ŝ	2,743,000	\$	-	\$	1,992,900	\$	750,500	
				· ·		Ŧ						
		onstruction C	ost (2033 Dollars) ost (2033 Dollars))\$	3,340,000			\$	2,310,000			

Engineering Cost (2033 Dollars)

Total Cost (2033 Dollars) \$

\$

660,000

4,020,000

\$

 600,000
 \$
 60,000

 2,920,000
 \$
 1,100,000

Notes:

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

2.

Trail pavement section assumed is 3 inch bituminous pavement and 4 inch aggregate base. Urban Drainage lump sum item includes all storm sewer pipe, structures and excavation of ponds. 3.



Carver County

1/22/2021

		Unit	Total Qty		Jnit Price	Total Cost	InDOT	ľ	arver County	Victoria
	R ROADWAY ITEMS (NOTES 1-2)									
	REMOVE BITUMINOUS PAVEMENT	SY	66,753	\$	4.00	\$ 267,100		\$	267,100.00	
	REMOVE CURB AND GUTTER	LF	1,397	\$	4.00	\$ 5,600		\$	5,600.00	-
	EXCAVATION - COMMON	CY	159,380	\$	8.00	\$ 1,275,100		\$	1,275,100.00	-
	COMMON EMBANKMENT (CV)	CY	87,399	\$	4.00	\$ 349,600		\$	349,600.00	
	AGGREGATE BASE (CV) CLASS 5Q	CY	31,633	\$	31.00	\$ 980,700		\$	980,700.00	
	SELECT GRANULAR EMBANKMENT (CV)	CY	36,265	\$	19.00	\$ 689,100		\$	689,100.00	-
	TYPE SP 9.5 WEARING COURSE MIX (4,F)	TONS	1,642	\$	80.00	\$ 131,400		\$	131,400.00	
	TYPE SP 12.5 WEARING COURSE MIX (4,F)	TONS	40,899	\$	44.00	\$ 1,799,600		\$	1,799,600.00	
	CURB AND GUTTER B424	LF	4	\$	1,500.00	\$ 6,000		\$	6,000.00	
	PEDESTRIAN RAMP	EACH	7,150	\$	25.00	\$ 178,800		\$	178,800.00	
	4" CONCRETE WALK	SF	30,811	\$	10.00	\$ 308,200		\$	308,200.00	-
	Subtotal					\$ 5,991,000	\$ -	\$	5,991,200.00	\$
	All Roadway Construction Subtotal					\$ 5,991,000	\$ -	\$	5,991,200.00	\$
ECI	AL LUMP SUM CONSTRUCTION ITEMS									
	LIGHTING	LS	1	\$	50,000.00	\$ 50,000		\$	50,000.00	
3)	DRAINAGE	LS	1	\$	446,000.00	\$ 446,000		\$	446,000.00	
	RAILROAD CROSSING IMPROVEMENTS	LS	1	\$	275,000.00	\$ 275,000		\$	275,000.00	
	Subtotal					\$ 771,000	\$ -	\$	771,000.00	\$
ECE	ENTAGE ITEMS									
	MOBILIZATION		5%	of	all roadway	\$ 299,600		\$	299,600.00	
	MISC REMOVALS (CURB, SIGNS, TREES, ETC.)		5%	of	all roadway	\$ 299,600		\$	299,600.00	
	SIGNING & PAVEMENT MARKINGS	3	3%	of	all roadway	\$ 179,800		\$	179,800.00	
	TURF ESTABLISHMENT AND EROSION CONTROL		5%	of	all roadway	\$ 299,600		\$	299,600.00	
	LANDSCAPING/STREETSCAPE		1%		all roadway	\$ 60,000		\$	60,000.00	
	TRAFFIC CONTROL/STAGING		5%		all roadway	\$ 299,600		\$	299,600.00	
	CONTINGENCY FOR MISSING ITEMS	2	0%	of	all roadway	\$ 1,198,200		\$	1,198,200.00	
_	Subtotal					\$ 2,636,000	\$ -	\$	2,636,400.00	\$
					2020 Dollars)	9,400,000		\$	9,400,000.00	
		Anticipated Ri				1,559,000		\$	779,500.00	\$ 779,500
		E	Engineering C	Cost (2020 Dollars)	\$ 1,880,000		\$	1,880,000.00	

BOLTON & MENK

Real People. Real Solutions.

Notes:

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

2. Trail pavement section assumed is 2.5 inch bituminous pavement and 4 inch aggregate base.