

Table C-1: Long-Range Project List

	Roadway	Termini	Type of Improvement (current condition/status)	Notes/Other Proposed Changes	Length (mi. for roadways, ft. for bridges)	Construction Cost Estimate	Right of Way Cost Estimate ⁷	Project Cost Estimate
Higher Priority Projects								
Pavement Projects^{1, 2, 7}								
	CSAH 13	Tyler Street to Lincoln Street	Pavement Condition (poor)	Trail project, additional 0.9 mi. covered by capacity project (#87)	1.2	\$936,000	\$421,200	\$1,357,200
	CSAH 4	CSAH 5 to CSAH 15	Pavement Condition (fair)		2.9	\$1,615,900	\$363,578	\$1,979,478
	CSAH 5	TH 10 to CR 75	Pavement Condition (fair)	Future capacity project (#84), trail project (partial)	3.0	[covered by capacity project]		
	CSAH 7	TH 10 to St. Cloud W. City Limits	Pavement Condition (fair)		2.1	\$1,158,250	\$260,606	\$1,418,856
	CSAH 8	37th Street to CSAH 16	Pavement Condition (fair)	Trail project	2.2	\$1,700,400	\$382,590	\$2,082,990
	CSAH 9	TH 169 to CSAH 19	Pavement Condition (fair)		2.0	\$1,536,600	\$345,735	\$1,882,335
	CSAH 13	CSAH 12 to Twin Lakes Road	Pavement Condition (fair)	Trail project	0.6	\$655,200	\$294,840	\$950,040
	CSAH 18	104th Street to E. County Boundary	Pavement Condition (fair)		1.0	\$787,800	\$177,255	\$965,055
	CSAH 19	CSAH 4 to CSAH 9	Pavement Condition (fair)		4.4	\$2,469,050	\$555,536	\$3,024,586
	CSAH 29	TH 169 to N. County Boundary	Pavement Condition (fair)	Existing capacity project (#40)	0.4	[covered by capacity project]		
	CSAH 33	CSAH 13 (S. Junction) to E. County Boundary	Pavement Condition (fair)		0.5	\$390,000	\$175,500	\$565,500
	CR 37	N. County Boundary to E. County Boundary	Pavement Condition (fair)	Potential turnback	2.4	\$1,903,200	\$428,220	\$2,331,420
	CR 43	TH 10 to Elk River Bridge	Pavement Condition (fair)	Proposed urban collector (from minor arterial), additional 3.8 mi. covered by future capacity project (#89)	1.1	\$1,287,000	\$579,150	\$1,866,150
	CR 44	TH 10 to CSAH 1	Pavement Condition (fair)	Potential turnback (partial)	1.4	\$1,107,600	\$498,420	\$1,606,020
	CR 45	6th Avenue to CSAH 4	Pavement Condition (fair)		0.4	\$339,000	\$152,550	\$491,550
	CR 53	Becker N. City Limits to CSAH 16	Pavement Condition (fair)	County system dead end, proposed minor collector (partial)	7.4	\$5,779,800	\$1,300,455	\$7,080,255
	CR 54	TH 10 to CR 53	Pavement Condition (fair)	Proposed minor collector	3.9	\$3,057,600	\$687,960	\$3,745,560
	CR 80	CSAH 5 to CSAH 3	Pavement Condition (fair)	Potential turnback	2.9	\$2,262,000	\$508,950	\$2,770,950
	CR 83	CR 43 to CSAH 15	Pavement Condition (fair)	Potential turnback	2.3	\$1,809,600	\$814,320	\$2,623,920
	CR 127	CSAH 23 to CSAH 16	Pavement Condition (fair)	Potential turnback	3.0	\$2,340,000	\$526,500	\$2,866,500
Bridge Projects³								
	CSAH 4	Bridge 71505 over St. Francis River	Bridge Replacement (fair/load posted)	0-10 yr priority, TIMB Beam Span, trail project	120	\$1,060,000	NA	\$1,060,000
	CSAH 11	Bridge 71506 over Elk River	Bridge Replacement (fair/load posted)	0-10 yr priority, TIMB Beam Span, proposed minor arterial	136	\$1,305,000	NA	\$1,305,000
	CSAH 15	Bridge 71504 over Elk River	Bridge Replacement (fair/load posted)	0-10 yr priority, TIMB Beam Span	160	\$1,430,000	NA	\$1,430,000
	CSAH 15	Bridge 71509 over St. Francis River	Bridge Replacement (load posted)	10-20 yr priority, TIMB Beam Span	138	\$1,215,000	NA	\$1,215,000
	CSAH 16	Bridge 71511 over Elk River	Bridge Replacement (fair/load posted)	10-20 yr priority, TIMB Beam Span	105	\$1,000,000	NA	\$1,000,000
	CSAH 16	Bridge 71510 over Rice Creek	Bridge Replacement (load posted)	10-20 yr priority, TIMB Slab Span	78	\$905,000	NA	\$905,000
	CSAH 16	Bridge 71507 over Stream	Bridge Replacement (load posted)	10-20 yr priority, TIMB Slab Span	78	\$815,000	NA	\$815,000
	CSAH 16	Bridge 71508 over Lily Creek	Bridge Replacement (load posted)	10-20 yr priority, TIMB Slab Span	78	\$805,000	NA	\$805,000
	CR 62	Bridge 71513 over Elk River	Bridge Replacement (load posted)	10-20 yr priority, TIMB Slab Span	114	\$692,550	NA	\$692,550
Freight Projects^{1, 2, 7}								
	CSAH 6	CSAH 16 to CSAH 3	Upgrade to 10 ton (7 ton)	Pavement resurfacing programmed, trail project (partial)	3.1	\$2,418,000	\$544,050	\$2,962,050
	CSAH 16	CR 93 to CSAH 5	Upgrade to 10 ton (7 ton)		2.1	\$1,638,000	\$368,550	\$2,006,550
	CSAH 22	CSAH 3 to N. County Boundary	Upgrade to 10 ton (7 ton)	Pavement resurfacing programmed	1.0	\$780,000	\$175,500	\$955,500

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Volume/Capacity Projects (Existing and Connected Future Segments based on 3% Growth Projection)^{1, 4, 7}								
	CSAH 4	CR 46 to US 169	Capacity	Trail project	1.4	\$6,750,000	\$3,037,500	\$9,787,500
	CSAH 4	TH 169 to 0.3 mi W CR 39	Capacity	Trail project	1.3	\$3,825,000	\$1,721,250	\$5,546,250
	CSAH 8	US 10 to University Drive	Capacity		0.8	\$2,550,000	\$1,147,500	\$3,697,500
	CSAH 11	US 10 to TH 25	Capacity	Trail project	3.8	\$7,600,000	\$3,420,000	\$11,020,000
	CSAH 29	TH 169 to N. County Boundary	Capacity	Pavement project	0.4	\$1,500,000	\$375,000	\$1,875,000
New County Connections^{5, 7}								
	TH 25 New River Crossing		Connectivity	Proposed new river crossing				
	CSAH 8 realignment ¹⁰	CR 53 to TH 10	Connectivity	Proposed grade separation at TH 25/TH 10, proposed minor arterial, trail project	1.4	\$19,025,000	\$19,025,000	\$38,050,000
	CSAH 33 realignment	Smith Street to CSAH 13	Connectivity	Proposed minor arterial, trail project	0.8	\$2,865,000	\$1,289,250	\$4,154,250
County Trail Projects^{6, 7}								
	Great Northern Trail	CSAH 9 to TH 169 near Rum River Dr	Proposed county trail		3.8	\$1,805,760	NA	\$1,805,760
	Great Northern Trail	CSAH 9 to CSAH 4	Proposed county trail		4.0	\$1,900,800	NA	\$1,900,800
	CSAH 5	237th Ave NW to CSAH 4	Proposed county trail		1.9	\$902,880	\$225,720	\$1,128,600
	CSAH 5	CSAH 4 to CSAH 9	Proposed county trail		4.5	\$2,138,400	\$534,600	\$2,673,000
	CSAH 5/CR 75	Alliance Park to CSAH 5 near 237th Ave NW	Proposed county trail	Pavement project (partial), future capacity project (partial, #84)	3.3	\$1,568,160	\$392,040	\$1,960,200
	CSAH 9	CSAH 5 to Great Northern Trail	Proposed county trail		7.1	\$3,373,920	\$843,480	\$4,217,400
	CSAH 4/120th St	Great Northern Trail to Grams Regional Park	Proposed county trail	Non-county ROW; partially covered by urban capacity projects (#36 and #37)	1.1	\$522,720	\$235,224	\$757,944
Traffic Control Modification Projects^{7, 11}								
	TH 10	CSAH 16	Traffic control modification project		NA	\$500,000	\$125,000	\$625,000
	TH 25	CSAH 17	Traffic control modification project		NA	\$500,000	\$125,000	\$625,000
	CSAH 1	CSAH 4	Traffic control modification project		NA	\$500,000	\$125,000	\$625,000
	TH 169	CSAH 25/CSAH 19	Traffic control modification project	Potential temporary signal, new county connection project	NA	\$500,000	\$125,000	\$625,000
	CSAH 4	CSAH 19	Traffic control modification project	Pavement project	NA	\$500,000	\$125,000	\$625,000
	TH 10	CR 50	Traffic control modification project		NA	\$500,000	\$125,000	\$625,000
	TH 10	CSAH 7	Traffic control modification project	Pavement project	NA	\$500,000	\$250,000	\$750,000
Jurisdictional Transfer Projects^{1, 2, 12}								
	Various (see separate tab)	Various (see separate tab)	Pavement project prior to turnback		20.5	\$20,631,000	NA	\$20,631,000
Safety Projects¹³								
	Various	Various	Intersection improvements, signing, shoulders, rumble strips, striping, etc.		Unknown	\$7,311,780	NA	\$7,311,780
Additional Projects								
Pavement Projects^{1, 2, 7}								
	CSAH 1	CR 32 (N. junction) to CSAH 4	Future Pavement Condition		8.5	\$6,630,000	\$1,491,750	\$8,121,750
	CSAH 1	CSAH 9 to N. County Boundary	Future Pavement Condition		4.0	\$3,120,000	\$702,000	\$3,822,000
	CSAH 3	CSAH 6 to CSAH 23	Future Pavement Condition		5.0	\$2,825,000	\$635,625	\$3,460,625
	CSAH 4	.8 mi. east of CSAH 23 to CSAH 11	Future Pavement Condition		2.0	\$1,560,000	\$351,000	\$1,911,000
	CSAH 4	CSAH 19 to E. County Boundary	Future Pavement Condition		1.0	\$565,000	\$127,125	\$692,125
	CSAH 13	CSAH 33 (S. junction) to E. County Boundary	Future Pavement Condition		2.2	\$1,716,000	\$772,200	\$2,488,200
	CSAH 14	CSAH 30 to TH 10	Future Pavement Condition		1.1	\$621,500	\$139,838	\$761,338
	CSAH 16	CR 93 to CSAH 5	Future Pavement Condition		2.1	\$1,638,000	\$368,550	\$2,006,550

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	CSAH 17	TH 25 to CR 81	Future Pavement Condition		2.2	\$1,243,000	\$279,675	\$1,522,675
	CSAH 23	N. Becker City Limits to N. County Boundary	Future Pavement Condition		11.2	\$8,736,000	\$1,965,600	\$10,701,600
	CSAH 24	CR 67 to CSAH 11	Future Pavement Condition		1.6	\$904,000	\$203,400	\$1,107,400
	CSAH 30	CSAH 14 to CR 30	Future Pavement Condition		2.9	\$2,262,000	\$508,950	\$2,770,950
	CSAH 33	CSAH 1 to TH 169	Future Pavement Condition		2.9	\$1,638,500	\$737,325	\$2,375,825
	CR 32	CSAH 1 to N. Elk River City Limits	Future Pavement Condition		4.6	\$3,588,000	\$1,614,600	\$5,202,600
	CR 39	1.0 mi. north of CSAH 4 to CSAH 9	Future Pavement Condition		3.5	\$2,730,000	\$614,250	\$3,344,250
	CR 40	CSAH 12 to CSAH 13	Future Pavement Condition		1.6	\$1,248,000	\$561,600	\$1,809,600
	CR 45	CSAH 25 to 6th Avenue	Future Pavement Condition		1.8	\$1,017,000	\$254,250	\$1,271,250
	CR 45	CSAH 4 to CSAH 9	Future Pavement Condition		4.0	\$3,120,000	\$780,000	\$3,900,000
	CR 46	CSAH 1 to CSAH 4	Future Pavement Condition		2.6	\$2,028,000	\$608,400	\$2,636,400
	CR 62	CSAH 20 to CSAH 6	Future Pavement Condition		3.3	\$1,864,500	\$419,513	\$2,284,013
	CR 76	CSAH 8 to TH 10	Future Pavement Condition		3.9	\$3,042,000	\$684,450	\$3,726,450
Bridge Projects³								
	CR 75	Bridge 1960 over Eagle Lake Outlet	Culvert Replacement (usable service life)	10-20 yr priority, Concrete Box Culvert	28	\$150,000	NA	\$150,000
Volume/Capacity Projects (Future based on 3% Growth Projection)^{1, 4, 7}								
	CSAH 1	US 10 to Proctor Rd.	Capacity	Trail project	0.6	\$2,400,000	\$1,080,000	\$3,480,000
	CSAH 5	US 10 to CR 75	Capacity	Pavement project, trail project (partial)	2.9	\$10,750,000	\$3,932,500	\$14,682,500
	CSAH 12	Zane St. to E. County Boundary	Capacity		2.2	\$6,600,000	\$2,970,000	\$9,570,000
	CSAH 13	187th Ave. to Tyler St.	Capacity		0.6	\$2,400,000	\$600,000	\$3,000,000
	CSAH 13	Lincoln St. to CSAH 33 (S. Junction)	Capacity	Pavement project, trail project	0.9	\$2,925,000	\$731,250	\$3,656,250
	CSAH 23	US 10 to Edgewood St.	Capacity	Trail project	1.3	\$4,225,000	\$1,056,250	\$5,281,250
	CR 45	14th Avenue to TH 169	Capacity	Pavement project	0.5	\$1,625,000	\$406,250	\$2,031,250
New County Connections^{5, 7}								
	CSAH 8/CSAH 11 extension	CSAH 8 near 100th Avenue to CSAH 11 near 166th Street	Connectivity	Proposed minor arterial, trail project	8.3	\$12,420,000	\$12,420,000	\$24,840,000
	CSAH 3 extension ⁸	CSAH 8 to TH 10	Connectivity	Proposed major collector	2.2	\$3,300,000	\$3,300,000	\$6,600,000
	CSAH 4 extension ^{8, 9}	97th Street to intersection of CSAH 4/CSAH 23	Connectivity	Proposed minor arterial, trail project	1.3	\$6,187,500	\$2,784,375	\$8,971,875
	CSAH 4 extension ⁸	TH 10 to 97th Street	Connectivity	Proposed minor arterial	2.0	\$2,700,000	\$2,700,000	\$5,400,000
	CSAH 4 interchange ¹⁵	At TH 169	Connectivity/Mobility	Proposed interchange	0.8	See total	See total	\$22,500,000
	CSAH 19 extension	South terminus of 104th Street to E. County Boundary	Connectivity	Proposed minor arterial	2.4	\$4,235,000	\$4,235,000	\$8,470,000
	CSAH 19/CSAH 25 connection	Great Northern Trail to 114th Avenue	Connectivity	Proposed grade separation	0.6	\$9,500,000	\$1,500,000	\$11,000,000
	CSAH 2/CR 42 connection	315th Avenue to 317th Avenue	Connectivity	Proposed overpass at TH 169	1.3	\$5,500,000	\$3,000,000	\$8,500,000
	CR 32 realignment	North Elk River city limits to intersection of CSAH 1/CSAH 25	Connectivity	Proposed major collector	1.1	\$3,855,000	\$1,734,750	\$5,589,750
County Trail Projects^{6, 7}								
	TH 10/MRT	CSAH 8 to CSAH 11	Proposed county trail	Interim alignment, non-county ROW	4.6	\$2,185,920	NA	\$2,185,920
	TH 10/MRT	CSAH 1 to SE County Boundary	Proposed county trail	Non-county ROW	5.6	\$2,661,120	NA	\$2,661,120
	TH 25	CSAH 11/CSAH 14 to TH 10	Proposed county trail	Non-county ROW	2.7	\$1,283,040	NA	\$1,283,040
	CSAH 1	Great Northern Trail near Upland St NW to CSAH 33	Proposed county trail		3.3	\$1,568,160	\$392,040	\$1,960,200
	CSAH 4	CSAH 23 to CSAH 5	Proposed county trail		6.9	\$3,278,880	\$819,720	\$4,098,600
	CSAH 4	CSAH 5 to Great Northern Trail	Proposed county trail	Bridge project, additional 2.7 mi. covered by existing and future urban capacity projects (#36 and #37)	3.1	\$1,473,120	\$368,280	\$1,841,400
	CSAH 6	TH 10 to 42nd St SE	Proposed county trail	Freight project (partial)	5.7	\$2,708,640	\$677,160	\$3,385,800
	CSAH 8/MRT	21st St SE to 27th St SE/S. St. Cloud Boundary	Proposed county trail		0.7	\$332,640	\$83,160	\$415,800
	CSAH 8/MRT	27th St SE/S. St. Cloud Boundary to CR 58	Proposed county trail	Pavement project (partial)	11.2	\$5,322,240	\$1,330,560	\$6,652,800

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	CSAH 8 realignment	CR 53 to TH 10	Proposed county trail	Future county ROW, proposed new connection	1.4	\$665,280	\$166,320	\$831,600
	CSAH 8/MRT	CR 58 to TH 10	Proposed county trail	Interim alignment	5.2	\$2,471,040	\$617,760	\$3,088,800
	CSAH 8/CSAH 11 extension/MRT	CSAH 8 near 100th Avenue to CSAH 11 near 166th Street	Proposed county trail	Final alignment, future county ROW, proposed new connection	8.3	\$3,944,160	\$986,040	\$4,930,200
	CSAH 11/MRT	TH 10 to TH 25	Proposed county trail	Existing capacity project, future capacity project	3.8	\$1,805,760	\$451,440	\$2,257,200
	CSAH 13	CSAH 12 to Lincoln Street	Proposed county trail	Pavement project, additional 1.5 mi. covered by future urban capacity projects (#86 and #87)	1.9	\$902,880	\$225,720	\$1,128,600
	CSAH 14/MRT	TH 25 to CSAH 30	Proposed county trail		5.8	\$2,756,160	\$689,040	\$3,445,200
	CSAH 23	TH 10 to CSAH 4	Proposed county trail	Additional 1.3 mi. covered by future urban capacity project (#88)	1.6	\$760,320	\$190,080	\$950,400
	CSAH 30/CR 30/MRT	CSAH 14 to Orono Rd.	Proposed county trail	Potential jurisdictional transfer (partial)	4.7	\$2,233,440	\$558,360	\$2,791,800
	CSAH 33	CSAH 1 to Smith St NW	Proposed county trail		3.9	\$1,853,280	\$463,320	\$2,316,600
	CSAH 33 realignment	Smith St NW to CSAH 13	Proposed county trail	Future county ROW, proposed new connection	0.8	\$380,160	\$95,040	\$475,200
	CR 58	CR 8 to S. Clear Lake Boundary	Proposed county trail		2.0	\$950,400	\$237,600	\$1,188,000
	Main St./Proctor Ave./MRT	Orono Rd to TH 10	Proposed county trail	Non-county ROW	1.1	\$522,720	\$235,224	\$757,944
	Oak Savanna Park Trail	TH 10 to Elk River near 97th St	Proposed county trail	Non-county ROW	1.0	\$475,200	\$213,840	\$689,040
	Oak Savanna Park Trail	Oak Savanna Park to future CSAH 4 alignment	Proposed county trail	Non-county ROW	0.6	\$285,120	\$128,304	\$413,424
	Riverside Park Trail	CSAH 8 to NW County Boundary near University Drive SE	Proposed county trail	Non-county ROW	0.9	\$427,680	\$192,456	\$620,136
	Twin Lakes Rd/171st Ave.	MRT Trail to CSAH 12	Proposed county trail	Non-county ROW	2.0	\$950,400	\$427,680	\$1,378,080
Traffic Control Modification Projects^{7,11}								
	CSAH 8	TH 301	Traffic control modification project		NA	\$500,000	\$250,000	\$750,000
	CSAH 11	CSAH 24	Traffic control modification project		NA	\$500,000	\$125,000	\$625,000
	CSAH 15	CR 43	Traffic control modification project	Capacity project, pavement	NA	\$500,000	\$125,000	\$625,000
	CSAH 25	CR 45	Traffic control modification project	Pavement project	NA	\$500,000	\$125,000	\$625,000
	CSAH 12	CSAH 13	Traffic control modification project		NA	\$500,000	\$125,000	\$625,000
	CSAH 33	CSAH 33/Proctor Road	Traffic control modification project		NA	\$500,000	\$250,000	\$750,000
	CSAH 29	Northland Boulevard	Signal replacement project		NA	\$250,000	NA	\$250,000
	CSAH 4	CR 45	Signal replacement project		NA	\$250,000	NA	\$250,000
	CSAH 5	CSAH 75	Traffic control modification project	Pavement project, future capacity project, trail project (partial)	NA	\$500,000	\$125,000	\$625,000
	CSAH 11	CR 50	Traffic control modification project	Capacity project	NA	\$500,000	\$125,000	\$625,000
Jurisdictional Transfer Projects^{1, 2, 12}								
	Various (see separate tab)	Various (see separate tab)	Pavement project prior to turnback		43.3	\$19,874,571	NA	\$19,874,571
Crack Sealing Projects¹⁴								
	Various	Various	Crack sealing projects on new or reconstructed segments		Unknown	\$5,400,000	NA	\$5,400,000

Higher Priority Project Cost, 2023-2040 (2018 Dollars):	\$132,968,970	\$42,808,029	\$175,776,999
Total Project Cost, 2023-2040 (2018 Dollars):	\$335,810,301	\$109,877,648	\$468,187,949
Total Projected Funding, 2023-2040 (2018 Dollars):			\$244,391,815
Projected Funding Gap, 2023-2040 (2018 Dollars):			\$223,796,134

NOTES/ASSUMPTIONS:

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1. All project costs/limits have been adjusted to avoid double counting. For example, urban capacity projects are assumed to include trails, so any additional costs associated with trail projects for these segments have been excluded.
2. For pavement projects on <10 ton roadways, a per mile reconstruction cost of \$780,000 was used based on county data. For pavement projects on 10 ton roadways, a per mile reconditioning costs of \$565,000 was used based on county data.
3. For bridge projects where a specific cost estimate was not available, \$175/sq. ft. was used for beam span bridges and \$135/sq. ft. was used for slab span bridges, based on MnDOT cost reports. A 25% multiplier was added for approach work.
4. For capacity projects, a conversion to a 4-lane divided roadway was assumed. A per mile cost estimate of \$1.5-2 million was used for rural projects and \$4 million was used for urban projects (which assume addition of sidewalk and/or trail).
5. For new county connection projects, a per mile cost estimate of \$1.5 million was used for rural projects and \$1.75 million was used for urban projects.
6. For trail projects, a per linear foot cost estimate of \$90 was used, assuming that some of the projects would be completed in conjunction with a roadway project.
7. For reconstruction, capacity, and traffic control projects, ROW costs were estimated at 40-50% of construction costs in urban areas and 20-25% of construction costs in rural areas. For new county connection projects, ROW costs were estimated to be equal to construction costs. For trail projects along county highways, ROW costs were estimated at 25% of construction costs. Trail projects along MnDOT highways and county-owned corridors (i.e. the abandoned railroad corridor for the Great Northern Trail) were assumed not to require additional ROW. For other trail projects, ROW costs were estimated at 45% of construction costs.
8. Limits extended and costs included to upgrade existing township roads to CSAH standards.
9. Cost premium added based on difficulty crossing Elk River in this location.
10. Assumes construction of an interchange at TH 10/TH25.
11. For traffic control modification projects, \$500,000 was used as an estimated cost based on the cost for installing a signal system (\$250,000) and constructing associated turn lanes (\$250,000). Costs will vary based on location and type of modification.
12. Assumes one pavement project per year with an average annual cost of \$842,203 (see separate tab).
13. Assumes \$300,000 per year (in 2018 dollars) for safety projects, matching trend in HSIP funding.
14. Assumes \$150,000 per year (in 2018 dollars); cost assumed to double by 2023 due to contracting this work out. Future costs assumed to increase with inflation.
15. Cost estimate for this project based on EA/EAW for TH 169 from Elk River to Zimmerman, Appendix B, Technical Memorandum 5: Alternatives Development, Evaluation and Selection of Preferred Alternative.