



Board of County Commissioners Agenda Request

3B

Agenda Item #

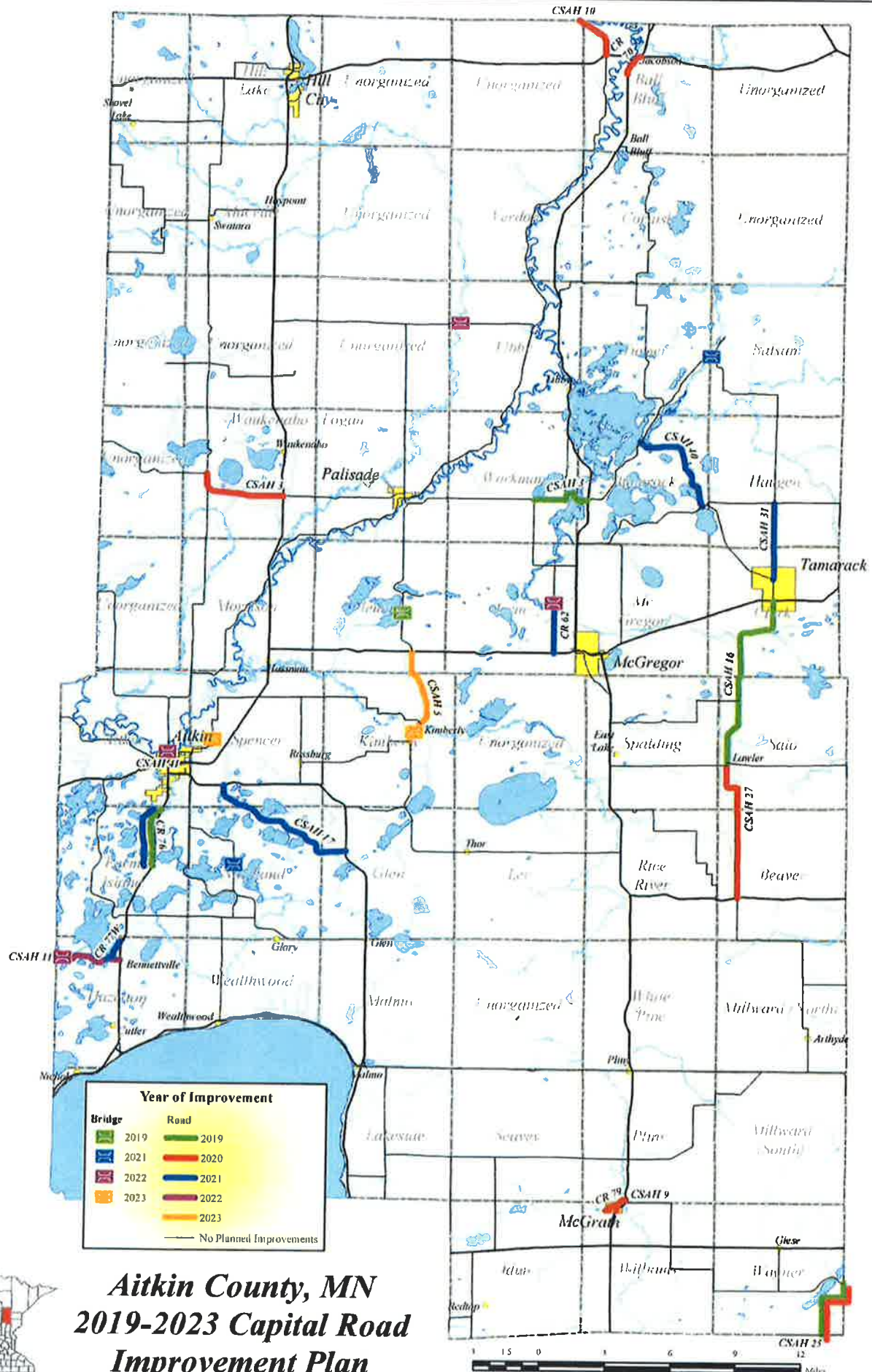
Requested Meeting Date: 11-13-18

Title of Item: 2019-2023 Capital Road Improvement Program

<input checked="" type="checkbox"/> REGULAR AGENDA <input type="checkbox"/> CONSENT AGENDA <input type="checkbox"/> INFORMATION ONLY	Action Requested: <input type="checkbox"/> Approve/Deny Motion <input type="checkbox"/> Adopt Resolution (attach draft)	<input type="checkbox"/> Direction Requested <input checked="" type="checkbox"/> Discussion Item <input type="checkbox"/> Hold Public Hearing* <small>*provide copy of hearing notice that was published</small>
Submitted by: John Welle		Department: Highway Department
Presenter (Name and Title): John Welle, Aitkin County Engineer		Estimated Time Needed: 20 minutes
Summary of Issue: <p>As discussed at the 8-14-18 Board meeting as part of the 2019 budget presentation, it is my intention beginning with the 2019 budget year to include the 5-year Capital Road Improvement Plan as part of the budget approval process. This will allow an annual process to continually review, update and approve this plan.</p> <p>Attached is the proposed list of projects for the 2019-2023 plan including a map showing the location of the various projects. Note that the project list did change somewhat from the list presented at the budget presentation in August based on new bridge and pavement condition data.</p> <p>Also attached are documents outlining the project selection process, a partial listing of bridge condition data, a listing of pavement data by segment, a the priority rating worksheet used to prioritize gravel road segments for improvement to paved road standards.</p>		
Alternatives, Options, Effects on Others/Comments:		
Recommended Action/Motion: Request approval by motion or consensus to include proposed 2019-2023 Capital Road Improvement Plan into 2019 budget document for approval as part of the 2019 budget.		
Financial Impact: <i>Is there a cost associated with this request?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>What is the total cost, with tax and shipping?</i> \$ 23,890,700 five-year plan total <i>Is this budgeted?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Please Explain:</i> Costs for projects that will require expenditures in 2019 are included in 2019 budget figures.		

Legally binding agreements must have County Attorney approval prior to submission.

Proposed 2019 through 2023 Capital Road Improvement Plan (**indicates projects from a previously approved Program)				
	Length	Location	Pavement Age/RQI	Estimated Construction Cost
2019				
**S.A.P. 001-603-018 - CSAH 3 Reconstruction	3.2	6 miles east of CSAH 5 to TH 65	2001/1.7-1.8 ('17)	\$ 3,200,000
**S.A.P. 001-605-013 - CSAH 5 Bridge (Culvert) Replacement	0.1	CSAH 5 over Fleming Lake inlet		\$ 168,700
**S.A.P. 001-616-007 - CSAH 16 Pavement Resurfacing	8.9		1993/2.2-2.5 ('17)	\$ 1,425,000
**S.A.P. 001-625-001 - CSAH 25 Reconstruction (Grading and Agg. Base)	3.3			\$ 1,485,000
**C.P. 001-076-001 - CR 76 Culvert Replacements				\$ 200,000
S.P. 001-070-006 - HSIP Intersection Lighting				\$ 114,000
S.P. 001-072-001 - HSIP Pavement Markings				\$ 138,000
			Total:	\$ 6,730,700
2020				
CSAH 3 Resurfacing	4.15	CSAH 29 to US Hwy 169	1996/2.6 ('17)	\$ 680,000
CSAH 9 Resurfacing	0.82		2003/2.2-2.4('17)	\$ 130,000
CSAH 10 Resurfacing	2.25	TH 200 to Itasca County Line	2003/2.5-2.6 ('17)	\$ 400,000
**CSAH 25 Bituminous Paving	3.3			\$ 1,100,000
**CSAH 27 Gravel Road Improvement	6.6			\$ 800,000
**CSAH 41 (7th Avenue in City of Aitkin) Resurfacing	0.1	1st Street to 2nd Street	1994/2.6('17)	\$ 150,000
CR 70 Resurfacing	1.08		2002/1.4-1.5('17)	\$ 180,000
CR 79 Resurfacing	0.48		2003/2.0-2.1('17)	\$ 80,000
			Total:	\$ 3,520,000
2021				
CSAH 12 Bridge Replacement	0.2	CSAH 12 over Ripple River		\$ 540,000
**CSAH 14 Bridge Replacement	0.2	CSAH 14 over Savanna River		\$ 390,000
CSAH 17 Resurfacing	7.1		1997/3.1 ('17)	\$ 1,200,000
CSAH 31 Resurfacing	3.53		2002/2.4-2.5('17)	\$ 600,000
CSAH 40 Resurfacing	4.9		2002/3.0-3.1('17)	\$ 830,000
CR 62 Resurfacing	2.64	TH 210 to 435th Street	2002/2.6-2.8('17)	\$ 450,000
**CR 76 Resurfacing	2.82		1999/2.7 ('17)	\$ 480,000
CR 77W Resurfacing	1.04		1999/2.3 ('17)	\$ 170,000
			Total:	\$ 4,660,000
2022				
CSAH 1 Bridge Rehabilitation	0.1	CSAH 1 over Mississippi River		\$ 300,000
CSAH 11 Widening/Resurfacing/Bridge Replacement	3.2		2003/3.1-3.3 ('17)	\$ 3,400,000
CSAH 18 Bridge Replacement	0.2	CSAH 18 over Willow River		\$ 960,000
CR 62 Bridge Replacement	0.2	CR 62 over Sandy River		\$ 700,000
HSIP Pavement Markings				\$ 230,000
			Total:	\$ 5,590,000
2023				
CSAH 5 Reconstruction (Grading and Agg. Base)	4.7	CR 53 to TH 210		\$ 2,500,000
CSAH 5 Bridge Replacement	0.1	CSAH 5 over Rice River		\$ 510,000
CR 54 Bridge Replacement	0.5	CR 54 over Sissabagamah Creek		\$ 380,000
			Total:	\$ 3,390,000
Five Year Total:				\$ 23,890,700



Aitkin County, MN 2019-2023 Capital Road Improvement Plan



Project Selection Process

Identified improvements fall into one of four construction categories. Those categories, listed in priority order are as follows.

1. Bridge Replacement
2. Pavement Resurfacing/Shoulder Widening
3. Gravel Road Reconstruction to Paved Road Standards
4. Gravel Road Improvement

1. Bridge Replacement

Bridge replacement projects are selected based on calculated sufficiency ratings that are the result of bridge safety inspections conducted on each bridge under the County's jurisdiction. See attached listing of deficient local bridges in Aitkin County.

2. Pavement Resurfacing/Shoulder Widening

Pavement resurfacing projects are selected based on pavement condition data collected on a four-year frequency. See attached listing of Ride Quality Index (RQI) information for all of Aitkin County's paved highway segments.

In addition, observed pavement conditions and the geographical grouping of projects for lower construction prices are factors that determine when a resurfacing project is scheduled.

The specific type of pavement resurfacing project is determined during the design stage of the project based on the project's individual characteristics. Overlay, mill and overlay, reclaim and pave, and cold in-place recycle and pave are included in this construction category.

For segments that have deficient shoulder width, slopes, or culverts, additional work to correct these deficiencies may be added to the resurfacing project.

3. Gravel Road Reconstruction to Paved Road Standards

Projects in this category are programmed on existing gravel roads to reconstruct them as improved, paved highways. Projects are chosen based on a prioritization worksheet developed in 2005 that ranks the various gravel road segments based on annual average daily traffic (AADT) count, residence density, functional classification, safety deficiencies, complete route improvement, and private/public land ownership. The resulting priority ratings are updated with each Capital Road Improvement Plan update. See attached priority rating worksheet.

4. Gravel Road Improvement

Projects in this category involve drainage and roadbed improvements on roads that will remain as gravel surfaced roads. Projects constructed under this category are programmed based on observed deficiencies of gravel road segments.

**STATE OF MINNESOTA
BRIDGE ROSTER
AITKIN COUNTY
(SORTED BY BRIDGE NUMBER)**

11/06/2018

Page

BR NO	AGENCY BR NO	FACILITY CARRIED	FEATURE CROSSED	REF POINT	MAIN SPAN TYPE	D	C	C	E	G	U	A	DEF	SUFF	RTG	FHWA STATUS		
						K	P	B	V	N	L	M					R	O
7215	CSAH 2		STREAM	010+00.700	TIMB BEAM SPAN	6	6	5	N	6	5	6	N	8	8	ADEQ	79.8	OPEN
7216	CSAH 2		SNAKE RIVER	011+00.550	TIMB BEAM SPAN	6	6	5	N	6	5	6	N	8	8	ADEQ	78.4	OPEN
7367	PEDESTRIAN		RIPPLE RIVER		TIMB BEAM SPAN	3	5	4	N	8	N	N	N	5	N	N/A	N/A	CLOSED
7375	CR 54		SISSABAGAMAH CREEK	002+00.520	TIMB SLAB SPAN	6	6	6	N	6	6	5	N	5	5	ADEQ	86.9	LOAD POSTEC
01011	CSAH 3		CHAN BETWEEN TWO LAKES	025+00.042	PRESTR BM SPAN	7	8	6	N	8	6	7	N	9	4	ADEQ	97.0	OPEN
01012	CSAH 3		MISSISSIPPI RIVER	016+00.144	PRESTR BM SPAN	7	7	7	N	6	7	7	N	9	8	ADEQ	98.5	OPEN
01502	CSAH 22		WAKEFIELD BROOK	000+00.200	TIMB SLAB SPAN	6	6	5	N	6	5	5	N	6	8	ADEQ	77.1	OPEN
01503	CSAH 14		SAVANNA RIVER	009+00.220	TIMB SLAB SPAN	6	6	4	N	6	4	6	N	8	8	S.D.	62.6	LOAD POSTEC
01505	CSAH 18		WILLOW RIVER	008+00.720	TIMB SLAB SPAN	5	5	5	N	6	5	7	N	8	8	ADEQ	86.4	LOAD POSTEC
01506	CSAH 1		MISSISSIPPI RIVER	000+00.490	PRESTR BM SPAN	6	6	6	N	6	6	5	N	8	8	ADEQ	87.8	OPEN
01507	CSAH 12		RIPPLE RIVER	006+00.201	TIMB SLAB SPAN	5	6	5	N	6	5	7	N	9	8	ADEQ	86.7	LOAD POSTEC
01508	CSAH 5		RICE RIVER	007+00.230	TIMB SLAB SPAN	6	6	6	N	6	6	7	N	6	8	ADEQ	98.3	LOAD POSTEC
01509	CSAH 5		WILLOW RIVER	021+00.150	TIMB SLAB SPAN	5	5	6	N	6	5	9	N	6	8	ADEQ	87.9	LOAD POSTEC
01510	CR 62		SANDY RIVER	002+00.280	TIMB SLAB SPAN	6	6	5	N	6	5	6	N	8	7	ADEQ	87.9	LOAD POSTEC
01511	200TH LANE		SNAKE RIVER	000+00.730	TIMB SLAB SPAN	6	6	6	N	7	6	4	N	7	8	ADEQ	93.0	LOAD POSTEC
01512	CSAH 28		RIPPLE RIVER	004+00.440	PRESTR QUAD TEE	7	7	6	N	5	6	6	N	8	8	ADEQ	91.4	OPEN
01513	CSAH 29		WILLOW RIVER	013+00.410	TIMB SLAB SPAN	5	5	7	N	7	5	9	N	8	8	ADEQ	85.9	LOAD POSTEC
01514	140TH PL		PRAIRIE RIVER	000+00.430	TIMB SLAB SPAN	6	6	7	N	6	6	5	N	8	5	ADEQ	90.0	OPEN
01515	CR 54		RIPPLE RIVER	000+00.040	PRESTR QUAD TEE	7	7	6	N	7	6	6	N	8	6	ADEQ	97.9	OPEN
01516	CSAH 23		CHAN BETWEEN TWO LAKES	004+00.990	PRESTR QUAD TEE	7	6	7	N	7	6	7	N	8	8	ADEQ	90.1	OPEN
01517	CSAH 10		WILLOW RIVER	001+00.200	PRESTR DOUB TEE	7	7	7	N	5	7	9	N	6	8	ADEQ	98.0	OPEN
01518	CSAH 26		SNAKE RIVER	010+00.880	PRESTR DOUB TEE	7	7	7	N	7	7	9	N	8	8	ADEQ	98.0	OPEN
01519	435TH ST		SANDY RIVER	003+00.980	PRESTR BM SPAN	7	7	7	N	8	7	7	N	8	7	ADEQ	98.0	OPEN
01521	CR 56		RICE RIVER	004+00.539	TIMB SLAB SPAN	7	7	7	N	7	7	7	N	6	8	ADEQ	98.0	OPEN
01522	145TH PL (CEM ENT)		PRAIRIE RIVER	000+00.320	CCONC SLAB SPAN	8	8	7	N	7	7	7	N	8	5	ADEQ	91.9	OPEN
01523	205TH LN		SNAKE RIVER	000+00.108	PRESTR BM SPAN	7	8	8	N	6	8	7	N	6	8	ADEQ	94.5	OPEN
01524	CR 62		SANDY RIVER	004+00.420	CCONC SLAB SPAN	8	8	7	N	6	7	9	N	6	6	ADEQ	100.0	OPEN
01525	LONG POINT PL		BIG SANDY LAKE	001+00.300	TIMB SLAB SPAN	7	8	7	N	7	7	8	N	9	6	ADEQ	93.2	OPEN
01526	CSAH 22		MISS R DIVERSION CHANNEL	001+00.030	PRESTR BM SPAN	7	7	8	N	8	7	7	N	8	8	ADEQ	99.4	OPEN
01527	CSAH 1		Miss. R. Diversion Chan.	005+00.004	PRESTR BM SPAN	8	8	8	N	7	8	8	N	8	8	ADEQ	99.9	OPEN
01528	CSAH 32		TAMARACK RIVER	006+00.160	PRESTR BM SPAN	8	7	8	N	8	7	8	N	9	8	ADEQ	99.9	OPEN
01529	362 LN		RICE RIVER	000+00.695	CCONC SLAB SPAN	8	8	7	N	8	7	6	N	8	8	ADEQ	95.9	OPEN
01530	CSAH 3		BIG WILLOW RIVER	012+00.345	PRESTR BM SPAN	8	7	8	N	8	7	7	N	9	8	ADEQ	99.2	OPEN
01531	CSAH 14		PRAIRIE RIVER	004+00.180	PRESTR BM SPAN	8	8	8	N	8	8	7	N	9	8	ADEQ	99.5	OPEN
01532	CSAH 4		RICE RIVER	013+00.847	PRESTR BM SPAN	8	9	9	N	8	9	8	N	9	8	ADEQ	99.5	OPEN

Bituminous Pavements - Age and RQI Data

	Length	2017 RQI		Length	2017 RQI
1993			2010		
CSAH 16	8.9	2.2/2.5	CSAH 10 from CSAH 18 to 8.2 miles south of TH 200	6.88	3.6
1994			CSAH 33	0.29	3.3/3.5
CSAH 41	0.07	3.2	CR 62 from TH 232 to 1.0 mile south	1.0	3.4/3.5
1995			2011		
			CSAH 6 from 5.27 miles east of TH 65 to TH 210	7.68	3.1
1996			CSAH 10 from TH200 to 8.12 miles south	8.12	3.3/3.4
CSAH 3 from CSAH 29 to TH 169	4.15	2.6	CSAH 32 from CSAH 31 to Carlton County Line	3.01	3.8/3.7
CR 69	0.3		CR 241	0.3	
1997			2012		
CSAH 17	7.1	3.1	CSAH 3 from US Hwy 169 to n. jct. CSAH 5	5.6	3.3/3.6
1999			CSAH 5 from TH 47 to CR 50	1	3.5
CSAH 39	5.1	3.6	CSAH 14 from TH 65 to 2.3 miles northeast	2.3	3.4/3.5
CR 76	2.82	2.7	CSAH 36 from CSAH 14 to 1.6 mile north	1.6	2.8/2.9
CR 77W	1.04	2.3	2013		
CR 81	1.05	3.1/3.3	CSAH 12 from .35 m. E. of N. jct. CSAH 39 to TH 47 (NW)		
2000			CR 54 from CSAH 1 to .47 miles east	0.47	2.7/2.9
2001			CR 54 from CR 83 to end of pavement	0.58	3.0/3.1
CSAH 3 from 6.36 miles east of north jct CSAH 5 to TH (3.2	3.1/3.4	CR 60	3.98	3.7
CSAH 14 from 2.3 m. northeast of TH 65 to State Park	8.6	3.4/3.5	CR 66 from 0.26 miles east of US 169 to US 169	0.83	2.5/2.7
CSAH 22	4.6	3.5	CR 77	0.57	3.7
CSAH 24	4.2	3.6	CR 82	1.03	2.5/2.7
2002			CR 83	0.49	3.4/3.5
CSAH 31	3.53	2.4/2.5	CR 85	1.2	3
CSAH 40	4.9	3.0/3.1	2014		
CR 62 from TH 210 to 435th Street	2.64	2.6/2.8	CSAH 12 from 35 m. E. of N. jct. CSAH 39 to TH 47 (Wear)	2.69	3.5
CR 70	1.08	3.2/3.3	2015		
2003			CSAH 10 from US Hwy 169 to CSAH 3	7.01	3.8
CSAH 9	0.82	2.2/2.4	CSAH 28 from TH 210 to TH 169	8	3.6
CSAH 10 from TH 200 to Itasca County Line	2.25	2.5/2.6	2016		
CSAH 11	3.2	3.1/3.3	CSAH 2 from TH 47 to TH 65	12.4	3.8
CSAH 23	5.3	3.2/3.5	CSAH 3 from north jct. CSAH 5 to 6.36 miles east	6.36	3.9
CSAH 28 from TH 169 to CSAH 12	5.8	3.7	CSAH 12 from TH 47 to TH 210	0.58	3.3/3.4
CSAH 37	2.3	2.8/3.0	CSAH 12 from TH 47 to 375th Avenue	6.88	3.9/4.0
CR 54 from .47 miles east of CSAH 1 to CR 83	0.83	2.9	CSAH 13 from TH 65 to CSAH 18	5.5	3.8/4.0
CR 79	0.48	2.0/2.1	CSAH 41	1.01	3.5
2004			CR 88	1.02	2.9/3.5
CSAH 2 from TH 65 to Pine County Line	10.4	3.4/3.5	2017		
2005			CSAH 1 from CSAH 22 to 3.6 miles north	3.6	
CSAH 1 from TH 210 to beginning of Mississippi River B	0.45	2.0/2.4	CSAH 10 from TH 232 to CSAH 18	11.06	
2006			CSAH 15 from Crow Wing County Line to CSAH 1	6.08	
CSAH 3 from Crow Wing County Line to CSAH 29	5.74	3.3	CR 74	1.53	
CSAH 7	3.2	3.2/3.3	2018		
CR 66 from US 169 to 0.26 miles east	0.26	3.2/3.3	CSAH 6 from TH 65 to 5.3 miles east	5.3	
CSAH 29 from CSAH 19 to CSAH 7	0.26	3.2/3.3	CSAH 8 from TH 210 to old Soo Line RR	0.87	
2007			CSAH 12 from 375th Avenue to Lanie's corner	2.74	
CSAH 8 from old Soo Line RR to TH 65	1.97	3.3/3.4	CSAH 12 from Lanie's Corner to n. jct. CSAH 39	1.95	
CSAH 38	6.1	3.4/3.5	CSAH 32 from CSAH 6 to CSAH 31	3.2	
2008			CR 53 from CSAH 4 to 0.78 mile north	3.23	
CSAH 4 from TH 47 to TH 65	14.4	3.4/3.5	Subtotal:	137.9	
CSAH 29 from CSAH 3 to 509th Lane	2.3	2.8/2.7	Grand Total:	277.24	
2009					
CSAH 1 from beginning of Mississippi River Bridge to C:	2.5	3.3			
CSAH 5 from TH 210 to TH 232	7.5	3			
Sub-total:	139.34				

Updated: 11-5-16

Updated: 11-21-16

	Good (RQI>3)	Poor (RQI<2.5)
MnDOT District 1 (non-NHS)	50.5%	11.9%
MnDOT District 3 (non-NHS)	68.1%	3.2%
Aitkin County Roads and County State-Aid Highways	70.5%	1.8%

Priority Rating Worksheet

Road Number	Segment Description	Length	2016 ADT (20 points)	Number of Residences on Segment	Number of Residences on adjacent roads (to midpoint of thru)	Number of Seasonal and FT Residences Per Mile (20 points)	Functional Classification (10 points)	Sight Distance Safety Rating (10 points)	Part of Larger Improved Route (10 points)	Percentage of Private land Adjacent to Segment (10 points)	Priority Rating (80 points)
25	CSAH 23 to Kanabec County Line	3.3	135	15	77	27.88	7	36.37	10	100	88.0
5	CR 53 to TH 210	4.7	90	26	43	14.68	10	46.03	10	76	66.3
71		1	155	8	0	8.00	4	0	10	100	54.9
30	TH 65 to CSAH 16	7	120	43	29	10.29	7	41.27	0	95	52.4
62	2 miles N of TH 210 to CR 71	1.36	155	6	0	4.41	4	0	10	100	50.0
1	3.6 miles N of CSAH 22 to CSAH 3	7.4	115	20	8	3.78	7	8.11	10	68	45.0
64	CSAH 32 to 5 miles North	5	115	15	43	11.60	4	22.16	0	50	43.1
63		2.69	80	12	2	5.20	4	64.72	0	100	41.4
5	CR 50 to CR 53	5.9	65	19	19	6.44	10	27.72	0	98	41.2
62	CR 71 to 1 mile south of TH 232	3	75	13	2	5.00	4	4.4	10	100	41.2
51	TH 18 to CSAH 28	4.77	90	34	12	9.64	4	15.35	0	84	39.5
57	TH 65 to 5 miles east	5	100	27	2	5.80	4	31.53	0	95	39.2
74		2.07	40	8	0	3.86	4	28.04	10	100	38.8
50	CSAH 5 to CR 56	2.95	70	5	0	1.69	4	19	10	100	38.3
19	Cass County Line to CSAH 20	4.8	55	19	13	6.67	10	45.76	0	40	37.2
36	CR 65 to 1.5 miles N of CSAH 14	5.2	85	20	2	4.23	7	48.32	0	60	37.2
36	TH 65 to CR 65	4.2	85	11	1	2.86	7	61.72	0	50	36.4
19	CSAH 20 to CSAH 29	2	100	6	0	3.00	10	28.03	0	50	36.3
20	Cass County Line to CSAH 19	5.9	105	17	3	3.39	7	20.68	0	70	35.4
21	CSAH 1 to TH 169	6.9	55	19	0	2.75	10	30.59	0	95	35.1
72		1.2	65	5	2	5.83	4	29.68	0	100	34.9
59		4.28	120	10	2	2.80	4	13.1	0	95	34.8
61	TH 65 to TH 18	4.23	50	19	10	6.86	4	35.39	0	95	34.8
29	CSAH 7 to CR 67	4.54	80	13	5	3.96	7	23.1	0	70	33.3
26	CSAH 38 to CR 59	5	70	15	2	3.40	7	15.7	0	100	33.1
64	5 miles N of CSAH 32 to CSAH 14	4.49	55	16	13	6.46	4	39.81	0	70	33.0
65		8.96	45	16	20	4.02	4	78.84	0	50	32.5
60W		1.08	75	5	0	4.63	4	12.22	0	100	31.9
56	TH 210 to CR 50	2	70	2	0	1.00	4	0	10	65	30.9
75	TH 27 to CSAH 34	6.9	30	21	19	5.80	7	32.02	0	70	30.7
13	CSAH 16 to Carlton County Line	5.6	85	11	1	2.14	7	23.08	0	60	30.5
27	CSAH 13 to TH 27	6.6	35	25	1	3.94	7	27.78	0	90	30.2
73		5.1	110	16	0	3.14	4	7.76	0	65	30.2
5	CSAH 3 to CSAH 18	7.81	80	23	12	4.48	7	4.56	0	60	30.1
18	CSAH 5 to CSAH 10	6.1	60	4	5	1.48	7	10.81	0	95	27.9
26	TH 65 to CSAH 2	9.1	60	14	11	2.75	7	28.41	0	50	27.9
57	TH 27 to 4 miles North	4.04	25	12	0	2.97	4	42.77	0	95	27.4
61	TH 18 to CSAH 23	7	30	26	1	3.86	4	33.16	0	90	27.2
26	CR 59 to TH 65	6	35	23	4	4.50	7	9.34	0	75	26.6
68	CSAH 29 to dead end west	2	30	7	1	4.00	4	33.63	0	80	26.5
29	CR 67 to TH 200	2	80	5	0	2.50	7	11.21	0	40	26.5
80		1.7	45	5	0	2.94	4	13.19	0	100	25.9
54	End of Blacktop to TH 210	4.88	60	7	0	1.43	4	16.22	0	95	25.7
35	TH 65 to Itasca County Line	0.4	35	1	0	2.50	7	0	0	100	24.9
58		2.67	30	9	0	3.37	4	25.19	0	80	24.4
34	CSAH 2 to CR 75	6.3	30	15	3	2.86	7	16.64	0	70	24.3
67		5.17	15	14	0	2.71	4	38.4	0	80	23.6
29	CR 68 to CSAH 7	6.3	45	19	0	3.02	7	13.4	0	30	22.0
68	TH 169 to dead end east	1.2	30	3	0	2.50	4	10.99	0	80	21.0
56	CR 50 to CSAH 5	6.4	15	6	0	0.94	4	34.73	0	80	20.6
29	2.3 miles N of CSAH 3 to CR 68	3.3	45	5	0	1.52	7	6.79	0	45	20.4
18	TH 169 to CSAH 5	6.1	35	5	4	1.48	7	6.49	0	50	19.5
68	CSAH 29 to TH 169	3.3	30	3	9	3.64	4	14.79	0	40	19.1