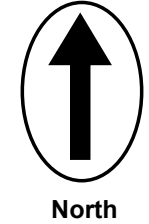


Date: 03/31/26

Count Number: TMC 2610

Location: CSAH 51
@ 111th Ave

Collection Period: 24 HR



North

13698

#2

CSAH 51

6505			
32	6324	136	13
E	F	G	H

7193

111th Ave

I	185	472
J	5	
K	282	
L	0	

#3

856

384

88

#1

169

81	0	D
	19	C
	8	B
	54	A

111th Ln NW

P	O	Z	M
51	51	6976	240
7318			

#4

14029

CSAH 51

6711

EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	1	1
#2	1	1	2	4
#3	0	0	1	1
#4	1	1	2	4

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

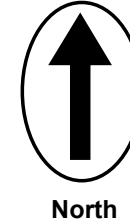
Date: 03/31/26

Count Number: TMC 2610

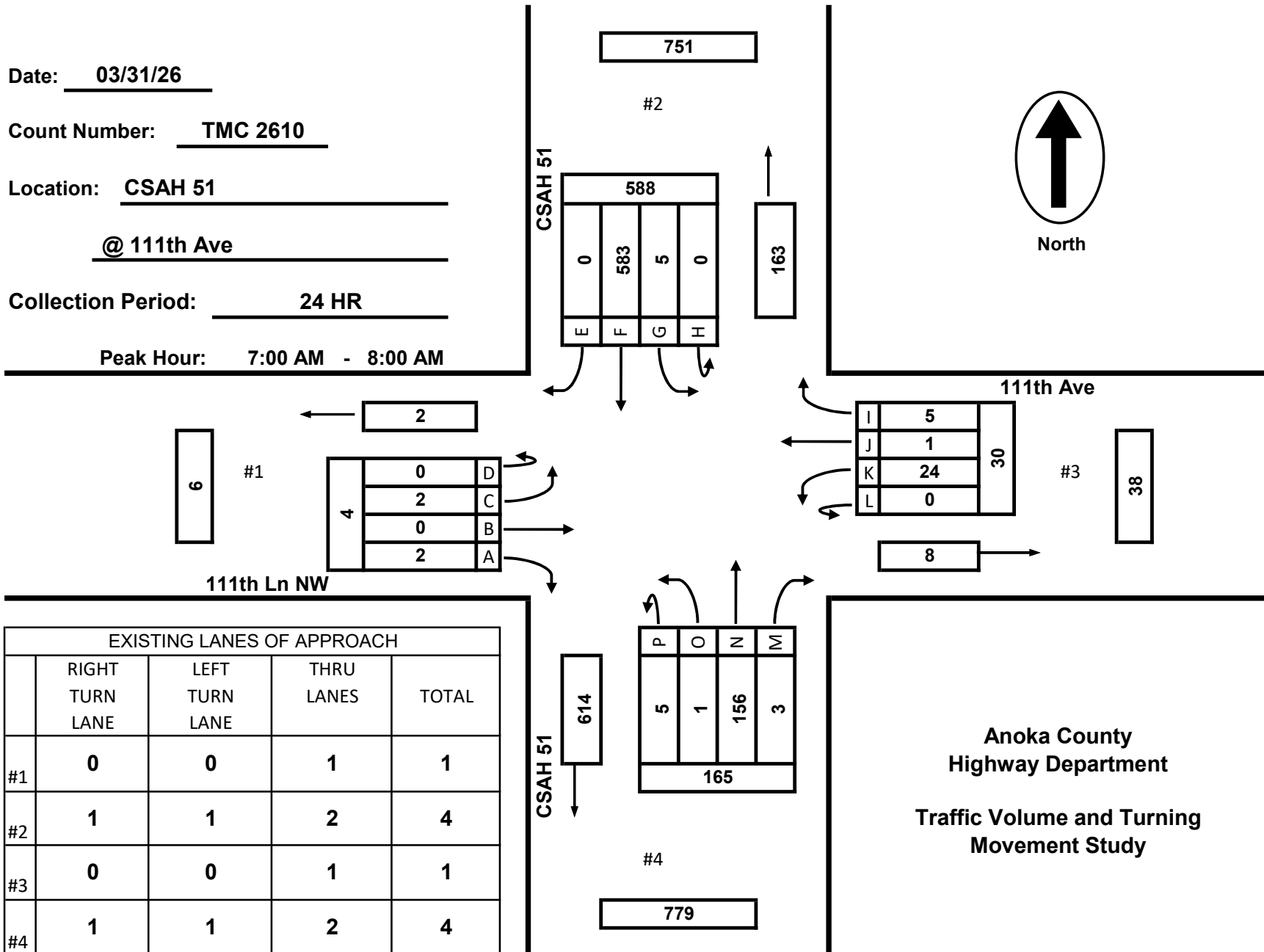
Location: CSAH 51
@ 111th Ave

Collection Period: 24 HR

Peak Hour: 7:00 AM - 8:00 AM



North



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	1	1
#2	1	1	2	4
#3	0	0	1	1
#4	1	1	2	4

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

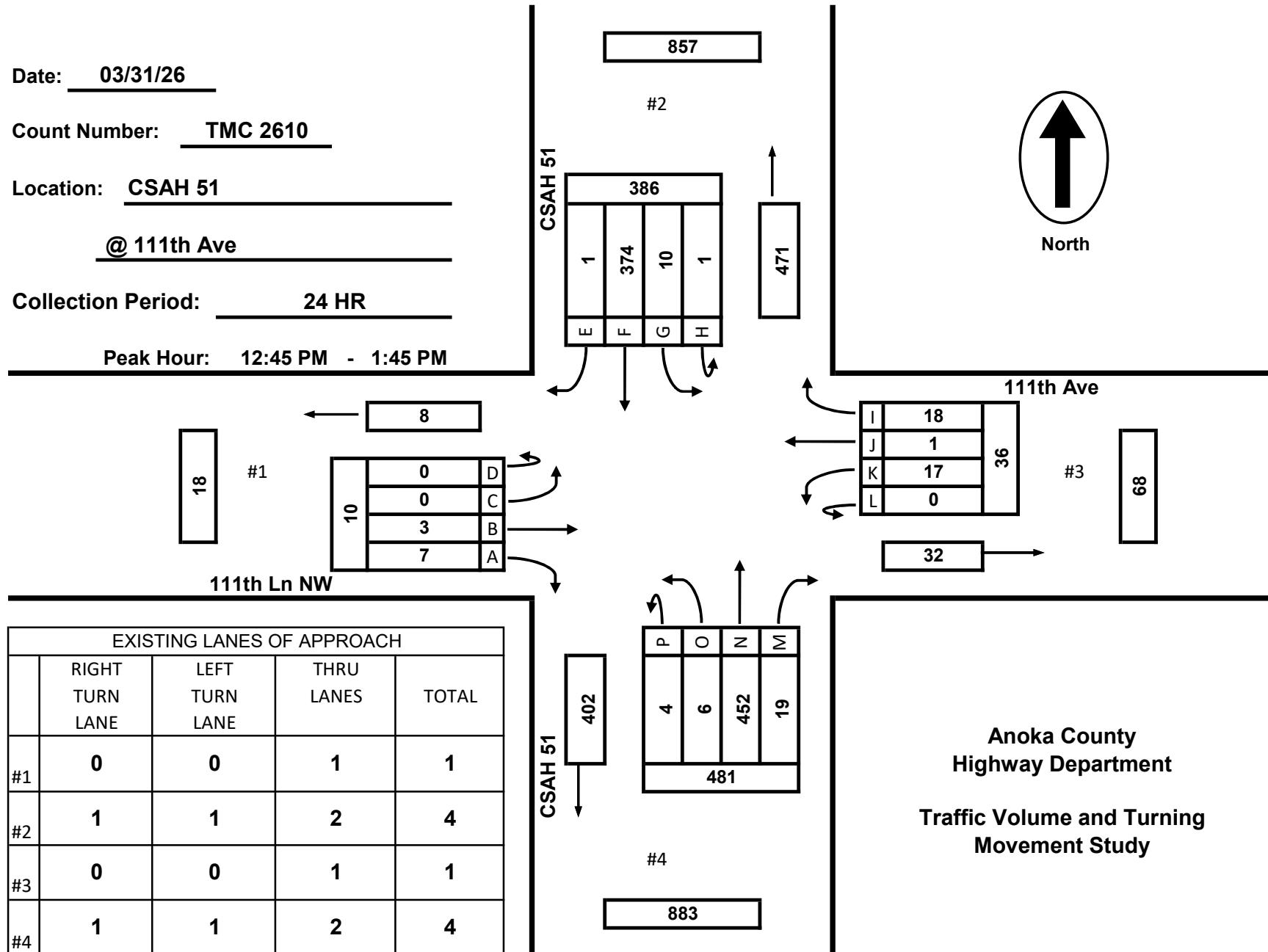
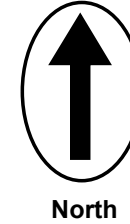
Date: 03/31/26

Count Number: TMC 2610

Location: CSAH 51
@ 111th Ave

Collection Period: 24 HR

Peak Hour: 12:45 PM - 1:45 PM



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	1	1
#2	1	1	2	4
#3	0	0	1	1
#4	1	1	2	4

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

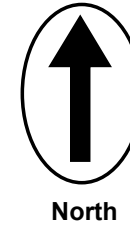
Date: 03/31/26

Count Number: TMC 2610

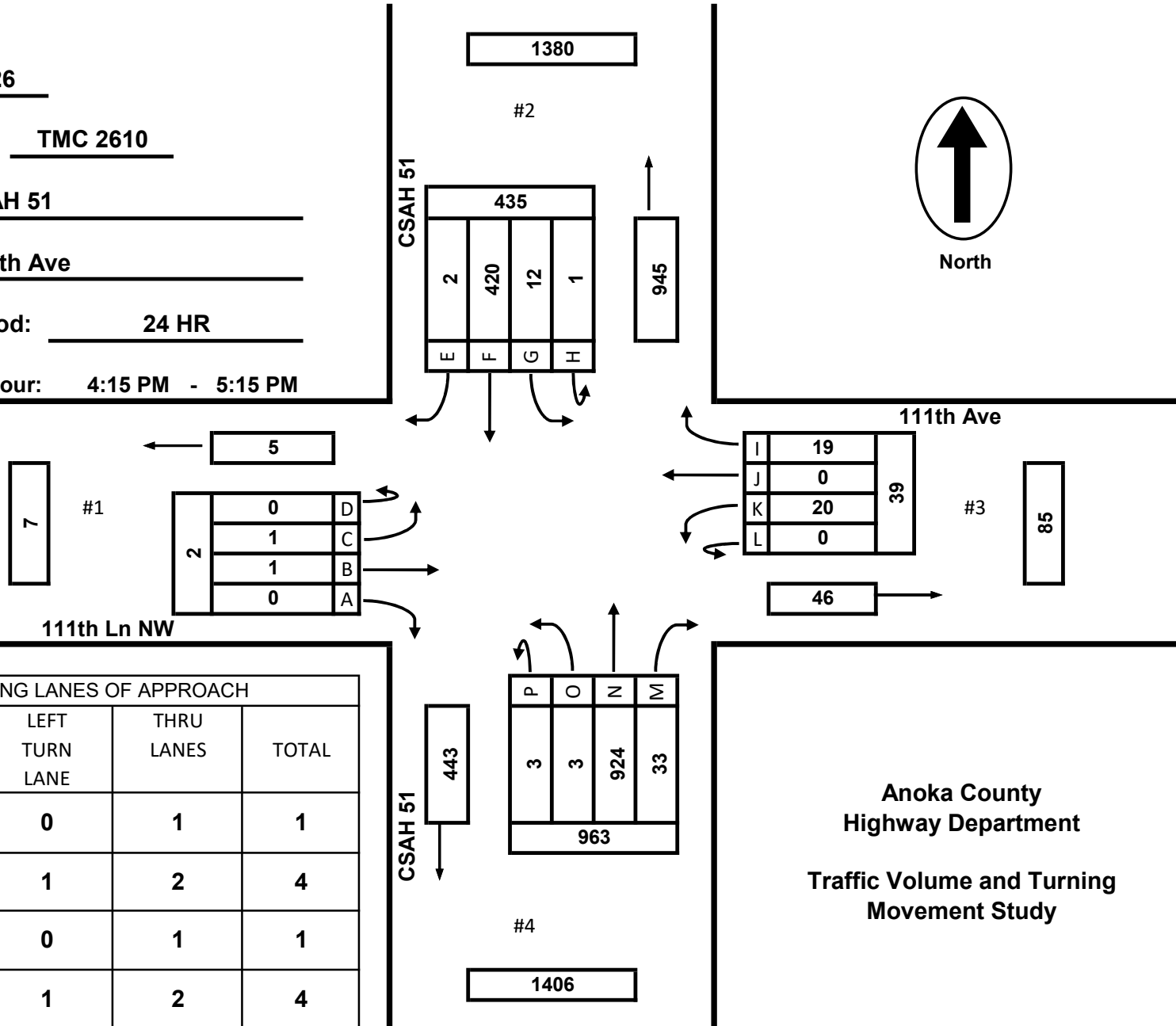
Location: CSAH 51
@ 111th Ave

Collection Period: 24 HR

Peak Hour: 4:15 PM - 5:15 PM



North



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	1	1
#2	1	1	2	4
#3	0	0	1	1
#4	1	1	2	4

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

TMC 2610 - CSAH 51 @ 111th Ave
Coon Rapids MN
Tuesday, March 31, 2026

Time	Southbound CSAH 51						Westbound 111th Ave						Northbound CSAH 51						Eastbound 111th Ln NW						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	0	6	0	0	6	0	2	0	0	0	2	0	0	22	2	0	24	0	0	0	0	0	0	32
12:15 AM	0	0	13	0	0	13	0	0	0	0	3	3	0	0	20	0	0	20	0	0	0	0	0	0	33
12:30 AM	0	0	3	1	0	4	0	1	0	0	0	1	0	0	8	1	0	9	0	0	0	0	0	0	14
12:45 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	12
Hourly Total	0	0	29	1	0	30	0	3	0	0	3	3	0	0	55	3	0	58	0	0	0	0	0	0	91
1:00 AM	0	0	6	0	0	6	0	1	0	0	0	1	0	0	5	2	0	7	0	0	0	0	0	0	14
1:15 AM	0	0	4	0	0	4	0	0	0	1	0	1	0	0	13	1	0	14	0	0	0	0	0	0	19
1:30 AM	0	0	4	0	0	4	0	0	0	0	1	0	0	0	5	0	0	5	0	0	0	0	0	0	9
1:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	12
Hourly Total	0	0	17	0	0	17	0	1	0	1	1	2	0	0	32	3	0	35	0	0	0	0	0	0	54
2:00 AM	0	1	3	0	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	9
2:15 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	11
2:30 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	9	1	0	10	0	0	0	0	0	0	15
2:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	15
Hourly Total	0	1	18	0	0	19	0	0	0	0	0	0	0	0	30	1	0	31	0	0	0	0	0	0	50
3:00 AM	0	0	13	0	0	13	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	20
3:15 AM	0	0	13	0	0	13	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	20
3:30 AM	0	0	9	0	0	9	0	1	0	1	0	2	0	0	7	0	0	7	0	0	0	0	0	0	18
3:45 AM	0	0	10	0	0	10	0	1	0	0	0	1	0	0	3	1	0	4	0	0	0	0	0	0	15
Hourly Total	0	0	45	0	0	45	0	2	0	1	0	3	0	0	24	1	0	25	0	0	0	0	0	0	73
4:00 AM	0	0	12	0	0	12	0	1	0	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	16
4:15 AM	0	0	28	0	0	28	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	32
4:30 AM	0	0	34	0	0	34	0	1	0	1	0	2	0	0	1	0	0	1	0	0	0	0	0	0	37
4:45 AM	0	0	48	0	0	48	0	2	0	0	0	2	0	0	10	0	0	10	0	0	0	1	0	1	61
Hourly Total	0	0	122	0	0	122	0	4	0	1	0	5	0	0	17	1	0	18	0	0	0	1	0	1	146
5:00 AM	0	0	41	0	0	41	0	1	0	0	0	1	0	0	10	0	0	10	0	0	0	1	0	1	53
5:15 AM	0	0	53	0	0	53	0	2	0	0	0	2	0	0	13	0	0	13	0	0	0	1	0	1	69
5:30 AM	0	2	94	0	0	96	0	11	0	1	1	12	0	0	10	0	0	10	0	0	0	0	1	0	118
5:45 AM	0	0	73	0	0	73	0	4	0	0	0	4	0	0	23	0	0	23	0	0	0	0	0	0	100
Hourly Total	0	2	261	0	0	263	0	18	0	1	1	19	0	0	56	0	0	56	0	0	0	2	1	2	340
6:00 AM	0	0	73	0	0	73	0	7	0	1	0	8	0	0	13	2	0	15	0	0	0	1	1	1	97
6:15 AM	0	0	118	0	0	118	0	9	0	2	2	11	0	0	15	1	0	16	0	0	0	0	0	0	145
6:30 AM	1	1	131	0	0	133	0	8	0	1	0	9	1	1	29	0	0	31	0	0	0	0	1	0	173
6:45 AM	0	1	136	2	0	139	0	4	0	3	2	7	0	1	33	2	0	36	0	0	0	1	0	1	183
Hourly Total	1	2	458	2	0	463	0	28	0	7	4	35	1	2	90	5	0	98	0	0	0	2	2	2	598
7:00 AM	0	0	149	0	0	149	0	9	0	0	1	9	2	0	21	2	0	25	0	0	0	0	0	0	183
7:15 AM	0	0	155	0	0	155	0	5	0	2	1	7	1	0	40	0	0	41	0	0	0	1	0	1	204
7:30 AM	0	3	152	0	0	155	0	5	1	1	0	7	1	1	47	0	0	49	0	1	0	0	0	1	212
7:45 AM	0	2	127	0	0	129	0	5	0	2	0	7	1	0	48	1	0	50	0	1	0	1	0	2	188
Hourly Total	0	5	583	0	0	588	0	24	1	5	2	30	5	1	156	3	0	165	0	2	0	2	0	4	787

TMC 2610 - CSAH 51 @ 111th Ave
Coon Rapids MN
Tuesday, March 31, 2026

Time	Southbound CSAH 51						Westbound 111th Ave						Northbound CSAH 51						Eastbound 111th Ln NW						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	2	116	0	0	118	0	8	0	1	1	9	1	1	45	2	0	49	0	0	0	0	0	0	176
8:15 AM	0	0	84	1	0	85	0	4	0	2	2	6	1	1	60	3	1	65	0	1	0	3	0	4	160
8:30 AM	0	1	111	0	0	112	0	2	0	2	2	4	1	0	29	3	0	33	0	0	0	0	0	0	149
8:45 AM	0	0	111	0	0	111	0	6	0	2	1	8	1	0	51	3	1	55	0	0	0	1	0	1	175
Hourly Total	0	3	422	1	0	426	0	20	0	7	6	27	4	2	185	11	2	202	0	1	0	4	0	5	660
9:00 AM	0	2	112	1	0	115	0	3	0	3	0	6	1	1	68	0	0	70	0	0	0	2	0	2	193
9:15 AM	0	2	88	1	0	91	0	7	1	2	0	10	1	1	45	3	0	50	0	1	0	1	0	2	153
9:30 AM	1	0	94	1	0	96	0	5	0	1	0	6	1	0	42	0	0	43	0	1	0	0	0	1	146
9:45 AM	0	3	92	0	1	95	0	5	0	1	0	6	0	2	63	2	0	67	0	0	0	3	0	3	171
Hourly Total	1	7	386	3	1	397	0	20	1	7	0	28	3	4	218	5	0	230	0	2	0	6	0	8	663
10:00 AM	0	1	85	0	0	86	0	2	0	0	2	2	2	1	69	1	1	73	0	0	0	1	0	1	162
10:15 AM	0	1	89	0	0	90	0	4	0	1	0	5	0	0	62	2	0	64	0	0	0	0	0	0	159
10:30 AM	0	0	72	0	0	72	0	4	0	4	0	8	0	1	66	4	0	71	0	0	0	3	0	3	154
10:45 AM	0	1	91	0	0	92	0	2	0	2	0	4	1	1	80	3	0	85	0	0	0	0	0	0	181
Hourly Total	0	3	337	0	0	340	0	12	0	7	2	19	3	3	277	10	1	293	0	0	0	4	0	4	656
11:00 AM	0	2	69	1	0	72	0	0	1	4	1	5	1	0	73	4	0	78	0	0	0	0	0	0	155
11:15 AM	0	0	86	0	0	86	0	0	0	1	2	1	2	1	76	2	0	81	0	0	0	0	0	0	168
11:30 AM	0	1	100	1	0	102	0	4	0	4	2	8	2	3	64	2	0	71	0	1	0	3	0	4	185
11:45 AM	0	1	90	0	1	91	0	3	0	1	0	4	1	1	81	1	0	84	0	1	0	0	1	1	180
Hourly Total	0	4	345	2	1	351	0	7	1	10	5	18	6	5	294	9	0	314	0	2	0	3	1	5	688
12:00 PM	0	4	85	0	0	89	0	4	0	3	1	7	1	1	79	4	0	85	0	0	0	1	0	1	182
12:15 PM	0	3	58	0	0	61	0	3	0	6	1	9	1	0	93	1	0	95	0	0	0	0	0	0	165
12:30 PM	0	4	79	2	0	85	0	4	0	4	1	8	1	2	94	6	0	103	0	0	0	0	0	0	196
12:45 PM	0	0	96	0	1	96	0	6	0	5	1	11	2	0	127	5	0	134	0	0	2	2	0	4	245
Hourly Total	0	11	318	2	1	331	0	17	0	18	4	35	5	3	393	16	0	417	0	0	2	3	0	5	788
1:00 PM	0	1	89	0	1	90	0	3	0	2	0	5	0	1	109	8	0	118	0	0	0	1	0	1	214
1:15 PM	0	5	92	1	0	98	0	5	0	4	2	9	1	3	105	3	0	112	0	0	1	3	0	4	223
1:30 PM	1	4	97	0	0	102	0	3	1	7	2	11	1	2	111	3	0	117	0	0	0	1	0	1	231
1:45 PM	0	1	102	0	0	103	0	1	0	1	2	2	1	0	116	3	0	120	0	0	0	2	0	2	227
Hourly Total	1	11	380	1	1	393	0	12	1	14	6	27	3	6	441	17	0	467	0	0	1	7	0	8	895
2:00 PM	0	2	101	0	0	103	0	3	0	3	3	6	0	0	108	7	1	115	0	0	1	1	0	2	226
2:15 PM	0	3	112	0	0	115	0	4	0	2	0	6	1	0	136	6	0	143	0	0	0	0	0	0	264
2:30 PM	0	3	87	2	1	92	0	7	0	3	1	10	1	1	131	4	0	137	0	0	0	1	2	1	240
2:45 PM	0	4	80	1	1	85	0	6	0	2	0	8	0	0	145	3	0	148	0	0	0	0	2	0	241
Hourly Total	0	12	380	3	2	395	0	20	0	10	4	30	2	1	520	20	1	543	0	0	1	2	4	3	971
3:00 PM	0	2	77	1	0	80	0	7	0	5	1	12	1	0	144	6	0	151	0	0	0	3	0	3	246
3:15 PM	0	1	95	0	1	96	0	3	0	8	4	11	0	0	157	1	0	158	0	0	0	0	0	0	265
3:30 PM	0	2	111	0	0	113	0	3	0	4	2	7	1	1	191	6	0	199	0	0	1	3	1	4	323
3:45 PM	0	1	97	1	0	99	0	7	0	4	0	11	4	0	217	11	0	232	0	0	0	1	0	1	343
Hourly Total	0	6	380	2	1	388	0	20	0	21	7	41	6	1	709	24	0	740	0	0	1	7	1	8	1177

TMC 2610 - CSAH 51 @ 111th Ave
Coon Rapids MN
Tuesday, March 31, 2026

Time	Southbound CSAH 51						Westbound 111th Ave						Northbound CSAH 51						Eastbound 111th Ln NW						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	5	90	0	0	95	0	7	1	3	1	11	0	2	217	6	1	225	0	0	0	1	0	1	332
4:15 PM	0	2	105	0	0	107	0	3	0	5	4	8	2	0	226	8	0	236	0	0	0	0	0	0	351
4:30 PM	0	3	99	0	0	102	0	5	0	4	0	9	0	1	227	8	0	236	0	0	1	0	0	1	348
4:45 PM	1	5	125	0	2	131	0	4	0	6	7	10	0	0	228	11	0	239	0	1	0	0	1	1	381
Hourly Total	1	15	419	0	2	435	0	19	1	18	12	38	2	3	898	33	1	936	0	1	1	1	1	3	1412
5:00 PM	0	2	91	2	0	95	0	8	0	4	2	12	1	2	243	6	0	252	0	0	0	0	0	0	359
5:15 PM	0	5	104	2	2	111	0	2	0	10	4	12	1	0	215	6	0	222	0	0	0	1	1	1	346
5:30 PM	0	4	80	1	0	85	0	6	0	5	0	11	0	2	205	4	4	211	0	0	1	1	0	2	309
5:45 PM	1	5	87	1	0	94	0	4	0	6	0	10	0	3	178	4	2	185	0	0	0	1	3	1	290
Hourly Total	1	16	362	6	2	385	0	20	0	25	6	45	2	7	841	20	6	870	0	0	1	3	4	4	1304
6:00 PM	1	0	100	0	0	101	0	1	0	2	3	3	0	1	159	3	0	163	0	0	1	1	3	2	269
6:15 PM	1	1	91	1	0	94	0	6	0	0	4	6	0	1	133	4	1	138	0	0	0	1	0	1	239
6:30 PM	0	2	62	0	0	64	0	4	0	2	0	6	0	0	124	10	5	134	0	1	0	1	0	2	206
6:45 PM	0	2	65	1	0	68	0	4	0	2	3	6	4	0	101	2	0	107	0	2	0	0	1	2	183
Hourly Total	2	5	318	2	0	327	0	15	0	6	10	21	4	2	517	19	6	542	0	3	1	3	4	7	897
7:00 PM	0	4	80	1	0	85	0	3	0	1	1	4	1	0	96	2	5	99	0	2	0	0	0	2	190
7:15 PM	0	3	53	0	0	56	0	1	0	7	5	8	1	0	95	4	1	100	0	0	0	1	0	1	165
7:30 PM	0	0	73	3	0	76	0	5	0	4	0	9	1	0	92	2	0	95	0	3	0	0	0	3	183
7:45 PM	0	2	64	1	0	67	0	0	0	3	0	3	0	0	80	2	0	82	0	1	0	0	0	1	153
Hourly Total	0	9	270	5	0	284	0	9	0	15	6	24	3	0	363	10	6	376	0	6	0	1	0	7	691
8:00 PM	0	6	43	0	0	49	0	3	0	1	0	4	1	1	81	3	1	86	0	0	0	0	0	0	139
8:15 PM	0	1	62	1	0	64	0	0	0	0	0	4	0	0	100	2	0	102	0	0	0	0	0	0	166
8:30 PM	0	5	44	0	0	49	0	0	0	2	0	2	0	1	75	5	0	81	0	0	0	1	0	1	133
8:45 PM	1	2	43	0	0	46	0	2	0	0	0	2	0	0	55	1	0	56	0	0	0	0	0	0	104
Hourly Total	1	14	192	1	0	208	0	5	0	3	0	8	1	2	311	11	1	325	0	0	0	1	0	1	542
9:00 PM	0	0	42	0	0	42	0	1	0	0	0	1	1	0	61	2	0	64	0	0	0	1	0	1	108
9:15 PM	0	3	38	0	0	41	0	0	0	6	0	6	0	1	73	3	0	77	0	0	0	0	0	0	124
9:30 PM	1	4	29	0	0	34	0	0	0	0	1	0	0	0	43	2	0	45	0	1	0	0	0	1	80
9:45 PM	2	0	31	0	0	33	0	0	0	0	0	0	0	2	52	2	0	56	0	0	0	0	0	0	89
Hourly Total	3	7	140	0	0	150	0	1	0	6	1	7	1	3	229	9	0	242	0	1	0	1	0	2	401
10:00 PM	0	1	26	0	0	27	0	1	0	0	0	1	0	2	59	3	0	64	0	0	0	0	0	0	92
10:15 PM	0	2	21	0	0	23	0	1	0	1	0	2	0	2	59	2	0	63	0	0	0	0	0	0	88
10:30 PM	0	0	22	1	0	23	0	2	0	0	1	2	0	0	40	1	0	41	0	0	0	1	0	1	67
10:45 PM	0	0	18	0	0	18	0	0	0	1	0	1	0	1	42	0	0	43	0	0	0	0	0	0	62
Hourly Total	0	3	87	1	0	91	0	4	0	2	1	6	0	5	200	6	0	211	0	0	0	1	0	1	309
11:00 PM	0	0	19	0	0	19	0	1	0	0	0	1	0	0	40	2	0	42	0	0	0	0	0	0	62
11:15 PM	1	0	10	0	0	11	0	0	0	0	0	0	0	0	28	1	0	29	0	1	0	0	0	1	41
11:30 PM	1	0	19	0	0	20	0	0	0	0	0	0	0	1	32	0	0	33	0	0	0	0	0	0	53
11:45 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	27
Hourly Total	2	0	55	0	0	57	0	1	0	0	0	1	0	1	120	3	0	124	0	1	0	0	0	1	183
DAILY TOTAL	13	136	6324	32	11	6505	0	282	5	185	81	472	51	51	6976	240	24	7318	0	19	8	54	18	81	14376
Cars	13	136	6282	31	4	6462	0	277	5	184	48	466	50	49	6915	235	22	7249	0	19	8	52	11	79	14256
Heavy Vehicles	0	0	42	1	7	43	0	5	0	1	33	6	1	2	61	5	2	69	0	0	0	2	7	2	120
Heavy Vehicle %	0.00%	0.00%	0.66%	3.13%	63.64%	0.66%	0.00%	1.77%	0.00%	0.54%	40.74%	1.27%	1.96%	3.92%	0.87%	2.08%	8.33%	0.94%	0.00%	0.00%	0.00%	3.70%	38.89%	2.47%	0.83%

TMC 2610 - CSAH 51 @ 111th Ave
Coon Rapids MN
Tuesday, March 31, 2026
AM Peak Hour (00:00 to 10:00)

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL																																																																																																																																																																			
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total																																																																																																																																																																				
7:00 AM	0	0	149	0	0	149	0	9	0	0	1	9	2	0	21	2	0	25	0	0	0	0	0	0	0	0	155	0	0	155	0	5	0	2	1	7	1	0	40	0	0	41	0	0	0	1	0	1	0	3	152	0	0	155	0	5	1	1	0	7	1	1	47	0	0	49	0	1	0	0	0	1	0	2	127	0	0	129	0	5	0	2	0	7	1	0	48	1	0	50	0	1	0	1	0	2	0	5	583	0	0	588	0	24	1	5	2	30	5	1	156	3	0	165	0	2	0	2	0	4	0	0	2	0	0	2	0.00%	0.00%	0.34%	0.00%	0.00%	0.34%	0.00%	4.17%	0.00%	0.00%	0.00%	3.33%	0.00%	0.00%	1.92%	0.00%	0.00%	1.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.940	0.00%	0.00%	0.948	0.00%	0.667	0.250	0.625	0.500	0.833	0.625	0.250	0.813	0.375	0.00%	0.825	0.00%	0.500	0.00%	0.500	0.00%	0.500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.76%	0.928
Peak Hour Total	0	5	583	0	0	588	0	24	1	5	2	30	5	1	156	3	0	165	0	2	0	2	0	4	0	0	2	0	0	2	0	5	127	0	0	129	0	5	48	1	0	50	0	1	0	1	0	2	0	5	583	0	0	588	0	24	1	5	2	30	5	1	156	3	0	165	0	2	0	2	0	4	0	0	2	0	0	2	0.00%	0.00%	0.34%	0.00%	0.00%	0.34%	0.00%	4.17%	0.00%	0.00%	0.00%	3.33%	0.00%	0.00%	1.92%	0.00%	0.00%	1.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.940	0.00%	0.00%	0.948	0.00%	0.667	0.250	0.625	0.500	0.833	0.625	0.250	0.813	0.375	0.00%	0.825	0.00%	0.500	0.00%	0.500	0.00%	0.500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.76%	0.928																																																						
Peak Hour Heavy Vehicle PHF	0.00%	0.00%	0.34%	0.00%	0.00%	0.34%	0.00%	4.17%	0.00%	0.00%	0.00%	3.33%	0.00%	0.00%	1.92%	0.00%	0.00%	1.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.34%	0.00%	0.00%	0.34%	0.00%	4.17%	0.00%	0.00%	0.00%	3.33%	0.00%	0.00%	1.92%	0.00%	0.00%	1.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.940	0.00%	0.00%	0.948	0.00%	0.667	0.250	0.625	0.500	0.833	0.625	0.250	0.813	0.375	0.00%	0.825	0.00%	0.500	0.00%	0.500	0.00%	0.500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.76%	0.928																																																																																																						

Mid Peak Hour (10:00 - 14:00)

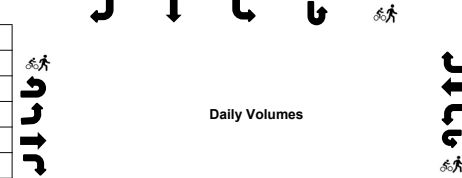
Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL																																																																																																																																																							
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total																																																																																																																																																								
12:45 PM	0	0	96	0	1	96	0	6	0	5	1	11	2	0	127	5	0	134	0	0	2	2	0	4	0	0	89	0	1	90	0	3	0	2	0	5	0	1	109	8	0	118	0	0	0	1	0	1	0	5	92	1	0	98	0	5	0	4	2	9	1	3	105	3	0	112	0	0	1	3	0	4	1	4	97	0	0	102	0	3	1	7	2	11	1	2	111	3	0	117	0	0	0	1	0	1	0	0	374	1	2	386	0	17	1	18	5	36	4	6	452	19	0	481	0	0	3	7	0	10	0.00%	0.00%	0.27%	0.00%	100.00%	0.26%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	1.11%	0.00%	0.00%	1.04%	0.00%	0.00%	0.00%	14.29%	0.00%	10.00%	0.00%	0.00%	0.964	0.250	0.500	0.946	0.00%	0.708	0.250	0.643	0.200%	0.625	0.625	0.500	0.890	0.594	0.00%	0.897	0.00%	0.00%	0.375	0.583	0.00%	0.625	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.77%	0.932
Peak Hour Total	0	0	1	0	2	1	0	0	0	0	1	0	0	0	5	0	2	5	0	0	0	1	0	1	0	0	0	1	0	1	0	0	374	1	2	386	0	17	1	18	5	36	4	6	452	19	0	481	0	0	3	7	0	10	0.00%	0.00%	0.27%	0.00%	100.00%	0.26%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	1.11%	0.00%	0.00%	1.04%	0.00%	0.00%	0.00%	14.29%	0.00%	10.00%	0.00%	0.00%	0.964	0.250	0.500	0.946	0.00%	0.708	0.250	0.643	0.200%	0.625	0.625	0.500	0.890	0.594	0.00%	0.897	0.00%	0.00%	0.375	0.583	0.00%	0.625	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.77%	0.932																																																																		
Peak Hour Heavy Vehicle PHF	0.00%	0.00%	0.27%	0.00%	100.00%	0.26%	0.00%	0.00%	0.00%	0.00%	20.00%	0.00%	0.00%	0.00%	1.11%	0.00%	0.00%	1.04%	0.00%	0.00%	0.00%	14.29%	0.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.964	0.250	0.500	0.946	0.00%	0.708	0.250	0.643	0.200%	0.625	0.625	0.500	0.890	0.594	0.00%	0.897	0.00%	0.00%	0.375	0.583	0.00%	0.625	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.77%	0.932																																																																																																																		

PM Peak Hour (14:00 - 24:00)

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL																																																																																																																																																							
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total																																																																																																																																																								
4:15 PM	0	2	105	0	0	107	0	3	0	5	4	8	2	0	226	8	0	236	0	0	0	0	0	0	0	0	99	0	0	102	0	5	0	4	0	9	0	1	227	8	0	236	0	0	1	0	0	1	1	5	125	0	2	131	0	4	0	6	7	10	0	0	228	11	0	239	0	1	0	0	1	1	0	2	91	2	0	95	0	8	0	4	2	12	1	2	243	6	0	252	0	0	0	0	0	0	1	12	420	2	2	435	0	20	0	19	13	39	3	3	924	33	0	963	0	1	1	0	1	2	0.00%	0.00%	0.48%	0.00%	100.00%	0.46%	0.00%	5.00%	0.00%	0.00%	23.08%	2.56%	0.00%	0.00%	0.65%	3.03%	0.00%	0.73%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.840	0.250	0.250	0.830	0.00%	0.625	0.00%	0.792	0.464	0.813	0.375	0.375	0.951	0.750	0.00%	0.955	0.00%	0.250	0.250	0.00%	0.250	0.500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.69%	0.944
Peak Hour Total	0	0	1	0	2	2	0	1	0	0	3	7	0	0	6	1	2	7	0	0	0	0	0	1	0	0	0	0	0	0	1	12	420	2	2	435	0	20	0	19	13	39	3	3	924	33	0	963	0	1	1	0	1	2	0.00%	0.00%	0.48%	0.00%	100.00%	0.46%	0.00%	5.00%	0.00%	0.00%	23.08%	2.56%	0.00%	0.00%	0.65%	3.03%	0.00%	0.73%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.840	0.250	0.250	0.830	0.00%	0.625	0.00%	0.792	0.464	0.813	0.375	0.375	0.951	0.750	0.00%	0.955	0.00%	0.250	0.250	0.00%	0.250	0.500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.69%	0.944																																																																		
Peak Hour Heavy Vehicle PHF	0.00%	0.00%	0.48%	0.00%	100.00%	0.46%	0.00%	5.00%	0.00%	0.00%	23.08%	2.56%	0.00%	0.00%	0.65%	3.03%	0.00%	0.73%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.840	0.250	0.250	0.830	0.00%	0.625	0.00%	0.792	0.464	0.813	0.375	0.375	0.951	0.750	0.00%	0.955	0.00%	0.250	0.250	0.00%	0.250	0.500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.69%	0.944																																																																																																																		

Total Vehicles On Leg		13698					
Vehicles Entering Intersection		6505		Vehicles Exiting Intersection		7193	
Southbound							
Cars	31	6282	136	13	4		
Heavy	1	42	0	0	7		
Total	32	6324	136	13	11		

Total Vehicles on Leg 169	Vehicles Entering Intersection 81	Eastbound	Cars	Heavy	Total
	Vehicles Exiting Intersection 88		11	7	18
			0	0	0
			19	0	19
	8	0	8		
	52	2	54		



Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 472	Total Vehicles on Leg 856
184	1	185			
5	0	5			
277	5	282			
0	0	0		Vehicles Exiting Intersection 384	
48	33	81			

Cars	22	50	49	6915	235
Heavy	2	1	2	61	5
Total	24	51	51	6976	240
Northbound					
Vehicles Entering Intersection 7318			Vehicles Exiting Intersection 6711		
Total Vehicles On Leg 14029					

TMC 2610 - CSAH 51 @ 111th Ave
Coon Rapids MN
Tuesday, March 31, 2026

Time	Southbound Heavy CSAH 51						Westbound Heavy 111th Ln NW						Northbound Heavy CSAH 51						Eastbound Heavy 111th Ave						VEHICLE 'Heavy Vehicles'	
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'		
8:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
8:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	2	
8:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	
Hourly 'Heavy Vehicles'	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	7	
9:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	
9:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	
9:30 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	3	
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	1	0	0	0	1	0	0	5	0	0	5	0	0	0	0	0	0	10	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
10:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	2	
10:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5	
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	0	0	0	0	0	0	1	4	0	0	5	0	0	0	1	0	1	10	
11:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 AM	0	0	1	0	0	1	0	0	0	0	1	0	0	0	3	0	0	3	0	0	0	0	0	0	4	
11:30 AM	0	0	1	0	0	1	0	0	0	0	1	0	0	0	1	1	0	2	0	0	0	0	0	0	3	
11:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	0	0	0	3	0	0	0	4	1	0	5	0	0	0	0	0	0	9	
12:00 PM	0	0	0	0	0	0	0	1	0	0	1	1	0	0	3	0	0	3	0	0	0	0	0	0	4	
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
12:30 PM	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	2	
12:45 PM	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	3	
Hourly 'Heavy Vehicles'	0	0	2	0	1	2	0	1	0	0	3	1	0	1	5	0	0	6	0	0	0	1	0	1	10	
1:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
1:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	3	0	0	0	0	0	0	3	
1:45 PM	0	0	1	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	1	0	1	1	0	0	0	0	3	0	0	0	4	0	0	4	0	0	0	0	0	0	5	
2:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	0	0	1	
2:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	
2:30 PM	0	0	4	0	0	4	0	0	0	0	1	0	0	0	3	1	0	4	0	0	0	0	2	0	8	
2:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	
Hourly 'Heavy Vehicles'	0	0	8	0	0	8	0	0	0	0	2	0	0	0	7	1	1	8	0	0	0	0	2	0	16	
3:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
3:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3:30 PM	0	0	1	0	0	1	0	0	0	0	2	0	0	0	2	0	0	2	0	0	0	0	1	0	3	
3:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	1	0	3	0	0	4	0	0	0	0	0	0	6	
Hourly 'Heavy Vehicles'	0	0	3	0	1	3	0	0	0	0	3	0	1	0	6	0	0	7	0	0	0	0	1	0	10	

TMC 2610 - CSAH 51 @ 111th Ave
Coon Rapids, MN
Tuesday, March 31, 2026

Time	Southbound Heavy CSAH 51						Westbound Heavy 111th Ln NW						Northbound Heavy CSAH 51						Eastbound Heavy 111th Ave						VEHICLE 'Heavy Vehicles'							
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'								
4:00 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	6
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	
4:45 PM	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	3	0	2	3	0	1	0	0	3	1	0	0	5	1	0	6	0	0	0	0	1	0	0	0	0	0	1	0	10	
5:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	6	
5:15 PM	0	0	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	3	0	2	3	0	0	0	0	1	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	8	
6:00 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
6:15 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6:45 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	9	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 PM	0	0	0	0	0	0	0	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
7:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
7:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Hourly 'Heavy Vehicles'	0	0	2	0	0	2	0	0	0	1	4	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4	
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAILY 'Heavy Vehicles'	0	0	42	1	7	43	0	5	0	1	33	6	1	2	61	5	2	69	0	0	0	2	7	2	0	0	0	0	120			

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: 2610

Study Date : 06/10/2026

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 51

Number of Lanes : 2+

Total Approach Volume: 7,318

Southbound: CSAH 51

Number of Lanes : 2+

Total Approach Volume: 6,505

Minor Street Approaches

Eastbound: 111th Ln NW

Number of Lanes : 1

Total Approach Volume: 81

Westbound: 111th Ave

Number of Lanes : 1

Total Approach Volume: 472

Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied

Warrant 1A - Minimum Vehicular Volume.....Not Satisfied

Required volumes reached for 0 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied

Required volumes reached for 7 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Not Satisfied

Required 1A volumes reached for 0 hours, 8 are needed

Required 1B volumes reached for 11 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Not Satisfied

Number of hours (0) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Not Satisfied

Warrant 3A - Peak Hour Delay.....Not Satisfied

Approach volumes on minor street don't exceed minimums for any one hour period. Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Not Satisfied

Volumes do not exceed minimums for any one hour period.

Warrant 4 - Pedestrian Volumes.....Not Evaluated

Warrant 5 - School Crossing.....Not Evaluated

Warrant 6 - Coordinated Signal System.....Not Evaluated

Warrant 7 - Crash Experience.....Not Evaluated

Warrant 8 - Roadway Network.....Not Evaluated

Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: 2610

Study Date : 06/10/2026

Warrant 1A - Minimum Volumes

Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **252**
 Veh/Hr Minor = **63**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	963	+	435	=	1398	2	39	No
16:30 - 17:30	949	+	439	=	1388	3	43	No
16:00 - 17:00	936	+	435	=	1371	3	38	No
16:45 - 17:45	924	+	422	=	1346	4	45	No
15:45 - 16:45	929	+	403	=	1332	3	39	No
15:30 - 16:30	892	+	414	=	1306	6	37	No
17:00 - 18:00	870	+	385	=	1255	4	45	No
15:15 - 16:15	814	+	403	=	1217	6	40	No
17:15 - 18:15	781	+	391	=	1172	6	36	No
15:00 - 16:00	740	+	388	=	1128	8	41	No
17:30 - 18:30	697	+	374	=	1071	6	30	No
14:45 - 15:45	656	+	374	=	1030	7	38	No
17:45 - 18:45	620	+	353	=	973	6	25	No
14:15 - 15:15	579	+	372	=	951	4	36	No
14:30 - 15:30	594	+	353	=	947	4	41	No
14:00 - 15:00	543	+	395	=	938	3	30	No
13:45 - 14:45	515	+	413	=	928	5	24	No
13:30 - 14:30	495	+	423	=	918	5	25	No
13:15 - 14:15	464	+	406	=	870	9	28	No
18:00 - 19:00	542	+	327	=	869	7	21	No
12:45 - 13:45	481	+	386	=	867	10	36	No
13:00 - 14:00	467	+	393	=	860	8	27	No
12:30 - 13:30	467	+	369	=	836	9	33	No
18:15 - 19:15	478	+	311	=	789	7	22	No
12:15 - 13:15	450		332		782	5	33	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: 2610

Study Date : 06/10/2026

Warrant 1B - Interruption of Continuous Traffic

Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

Summary

Only 7 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **378**
 Veh/Hr Minor = **32**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 51					111th Ln NW		
16:15 - 17:15	963	+	435	=	1398	2	39	Yes
15:15 - 16:15	814	+	403	=	1217	6	40	Yes
17:15 - 18:15	781	+	391	=	1172	6	36	Yes
14:15 - 15:15	579	+	372	=	951	4	36	Yes
12:00 - 13:00	417	+	331	=	748	5	35	Yes
06:30 - 07:30	133	+	576	=	709	2	32	Yes
05:30 - 06:30	64	+	360	=	424	1	35	Yes
14:00 - 15:00	543	+	395	=	938	3	30	No
13:45 - 14:45	515	+	413	=	928	5	24	No
13:30 - 14:30	495	+	423	=	918	5	25	No
13:15 - 14:15	464	+	406	=	870	9	28	No
13:00 - 14:00	467	+	393	=	860	8	27	No
18:15 - 19:15	478	+	311	=	789	7	22	No
18:30 - 19:30	440	+	273	=	713	7	24	No
07:30 - 08:30	213	+	487	=	700	7	29	No
11:45 - 12:45	367	+	326	=	693	2	28	No
11:15 - 12:15	321	+	368	=	689	6	20	No
18:45 - 19:45	401	+	285	=	686	8	27	No
11:30 - 12:30	335	+	343	=	678	6	28	No
10:45 - 11:45	315	+	352	=	667	4	18	No
11:00 - 12:00	314	+	351	=	665	5	18	No
19:00 - 20:00	376	+	284	=	660	7	24	No
08:15 - 09:15	223	+	423	=	646	7	24	No
07:45 - 08:45	197	+	444	=	641	6	26	No
10:30 - 11:30	315		322		637	3	18	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: 2610

Study Date : 06/10/2026

Warrant 1C Combination of Warrants

Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

Summary

Only 0 hours meet 1A minimums.
11 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **202 302**

Veh/Hr Minor = **50 26**

Major Road CSAH 51

Minor Road 111th Ln NW

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:15 - 17:15	963	+	435	=	1398	2	39	No
16:30 - 17:30	949	+	439	=	1388	3	43	No
16:00 - 17:00	936	+	435	=	1371	3	38	No
16:45 - 17:45	924	+	422	=	1346	4	45	No
15:45 - 16:45	929	+	403	=	1332	3	39	No
15:30 - 16:30	892	+	414	=	1306	6	37	No
17:00 - 18:00	870	+	385	=	1255	4	45	No
15:15 - 16:15	814	+	403	=	1217	6	40	No
17:15 - 18:15	781	+	391	=	1172	6	36	No
15:00 - 16:00	740	+	388	=	1128	8	41	No
17:30 - 18:30	697	+	374	=	1071	6	30	No
14:45 - 15:45	656		374		1030	7	38	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:00 - 17:00	936	+	435	=	1371	3	38	Yes
17:00 - 18:00	870	+	385	=	1255	4	45	Yes
15:00 - 16:00	740	+	388	=	1128	8	41	Yes
14:00 - 15:00	543	+	395	=	938	3	30	Yes
12:30 - 13:30	467	+	369	=	836	9	33	Yes
07:15 - 08:15	189	+	557	=	746	4	30	Yes
18:45 - 19:45	401	+	285	=	686	8	27	Yes
11:30 - 12:30	335	+	343	=	678	6	28	Yes
06:15 - 07:15	108	+	539	=	647	1	36	Yes
08:30 - 09:30	208	+	429	=	637	5	28	Yes
05:15 - 06:15	61	+	295	=	356	2	26	Yes
13:45 - 14:45	515		413		928	5	24	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: 2610

Study Date : 06/10/2026

Warrant 2 - Four Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

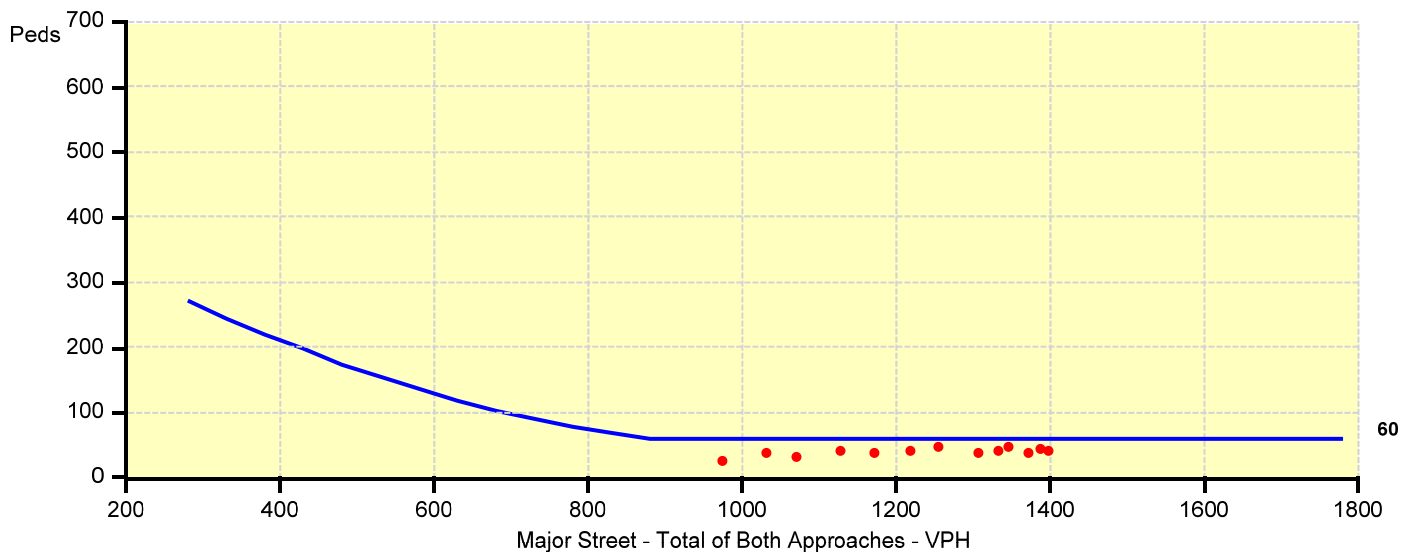
Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 51				Total	Minor Road 111th Ln NW		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:15 - 17:15	963	+	435	=	1398	2	39	No
16:30 - 17:30	949	+	439	=	1388	3	43	No
16:00 - 17:00	936	+	435	=	1371	3	38	No
16:45 - 17:45	924	+	422	=	1346	4	45	No
15:45 - 16:45	929	+	403	=	1332	3	39	No
15:30 - 16:30	892	+	414	=	1306	6	37	No
17:00 - 18:00	870	+	385	=	1255	4	45	No
15:15 - 16:15	814	+	403	=	1217	6	40	No
17:15 - 18:15	781	+	391	=	1172	6	36	No
15:00 - 16:00	740	+	388	=	1128	8	41	No
17:30 - 18:30	697	+	374	=	1071	6	30	No
14:45 - 15:45	656	+	374	=	1030	7	38	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: 2610

Study Date : 06/10/2026

Warrant 3B - Peak Hour Volumes

Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

Summary

Only 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 51				Total	Minor Road 111th Ln NW			Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB		
16:15 - 17:15	963	+	435	=	1398	2	39	No	
16:30 - 17:30	949	+	439	=	1388	3	43	No	
16:00 - 17:00	936	+	435	=	1371	3	38	No	
16:45 - 17:45	924	+	422	=	1346	4	45	No	
15:45 - 16:45	929	+	403	=	1332	3	39	No	
15:30 - 16:30	892	+	414	=	1306	6	37	No	
17:00 - 18:00	870	+	385	=	1255	4	45	No	
15:15 - 16:15	814	+	403	=	1217	6	40	No	
17:15 - 18:15	781	+	391	=	1172	6	36	No	
15:00 - 16:00	740	+	388	=	1128	8	41	No	
17:30 - 18:30	697	+	374	=	1071	6	30	No	
14:45 - 15:45	656		374		1030	7	38	No	

