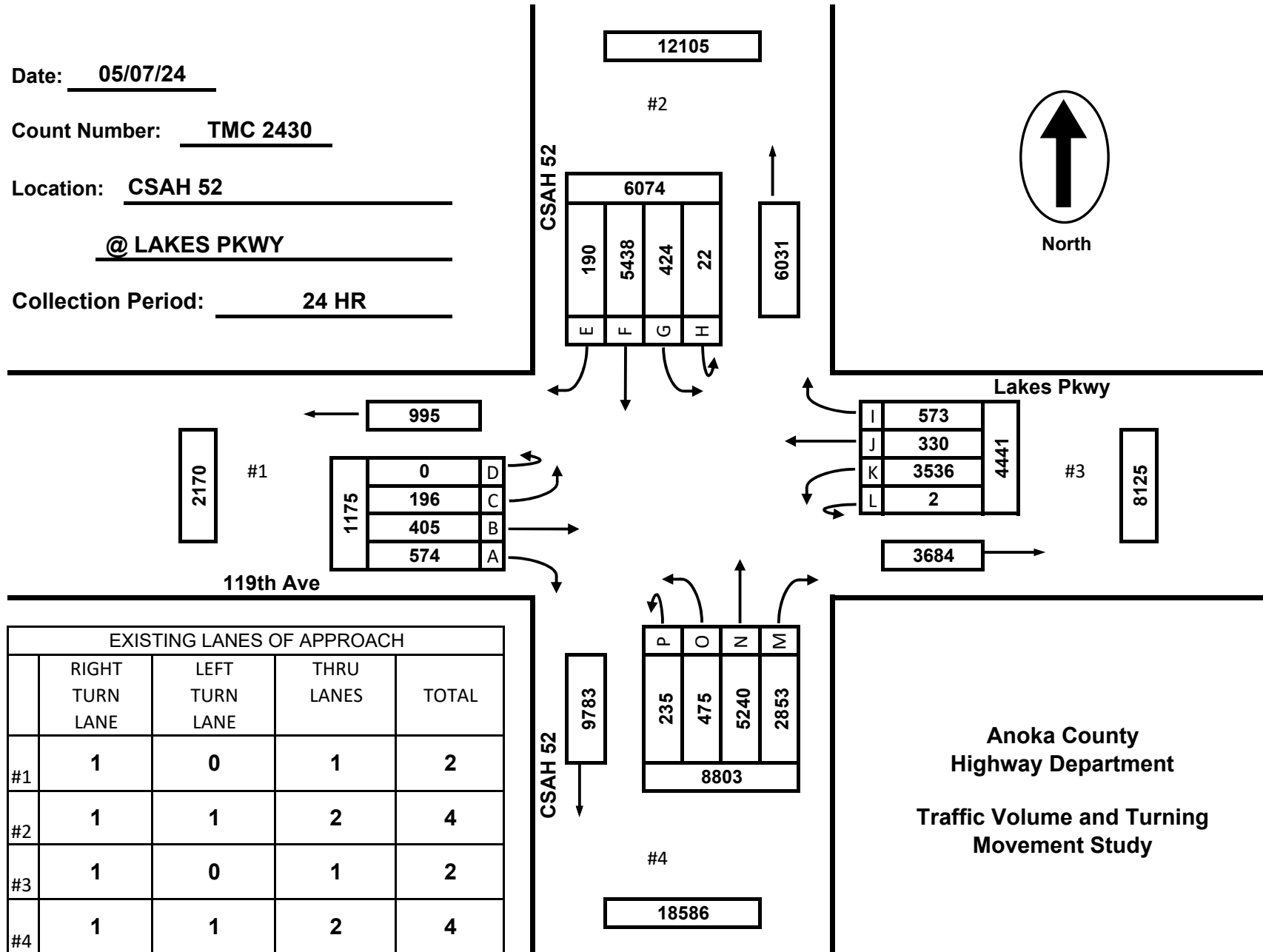
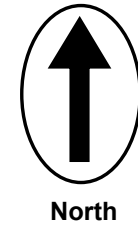


Date: 05/07/24

Count Number: TMC 2430

Location: CSAH 52  
@ LAKES PKWY

Collection Period: 24 HR



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

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

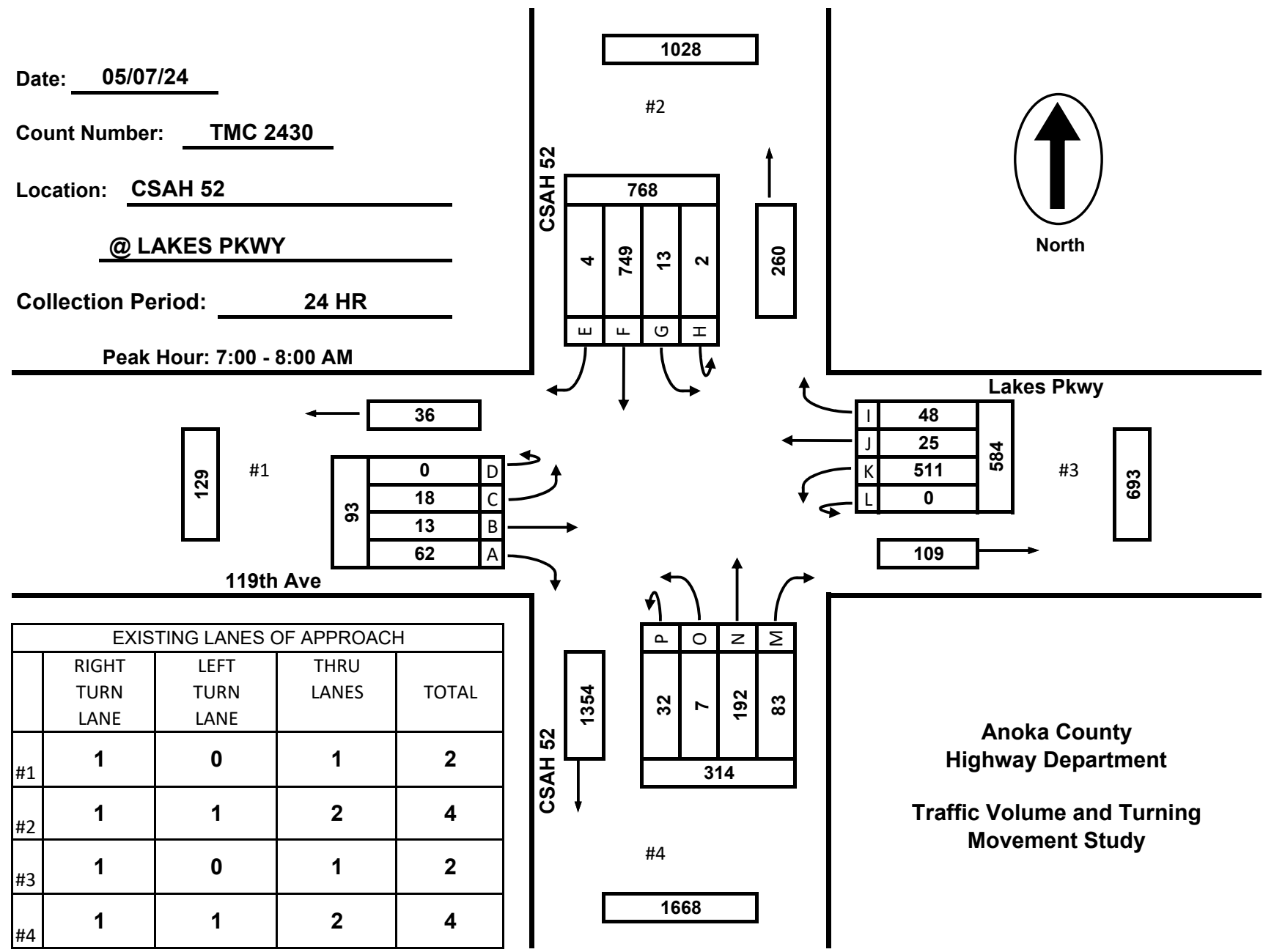
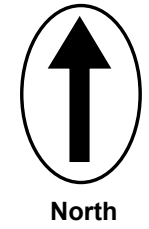
Date: 05/07/24

Count Number: TMC 2430

Location: CSAH 52  
@ LAKES PKWY

Collection Period: 24 HR

Peak Hour: 7:00 - 8:00 AM



1028

#2

768			
E	F	G	H
4	749	13	2

260

129

#1

93	0	D
	18	C
	13	B
	62	A

119th Ave

36

I	48	584
J	25	
K	511	
L	0	

#3

693

Lakes Pkwy

109

P	O	N	M
32	7	192	83
314			

#4

1668

CSAH 52

1354

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

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

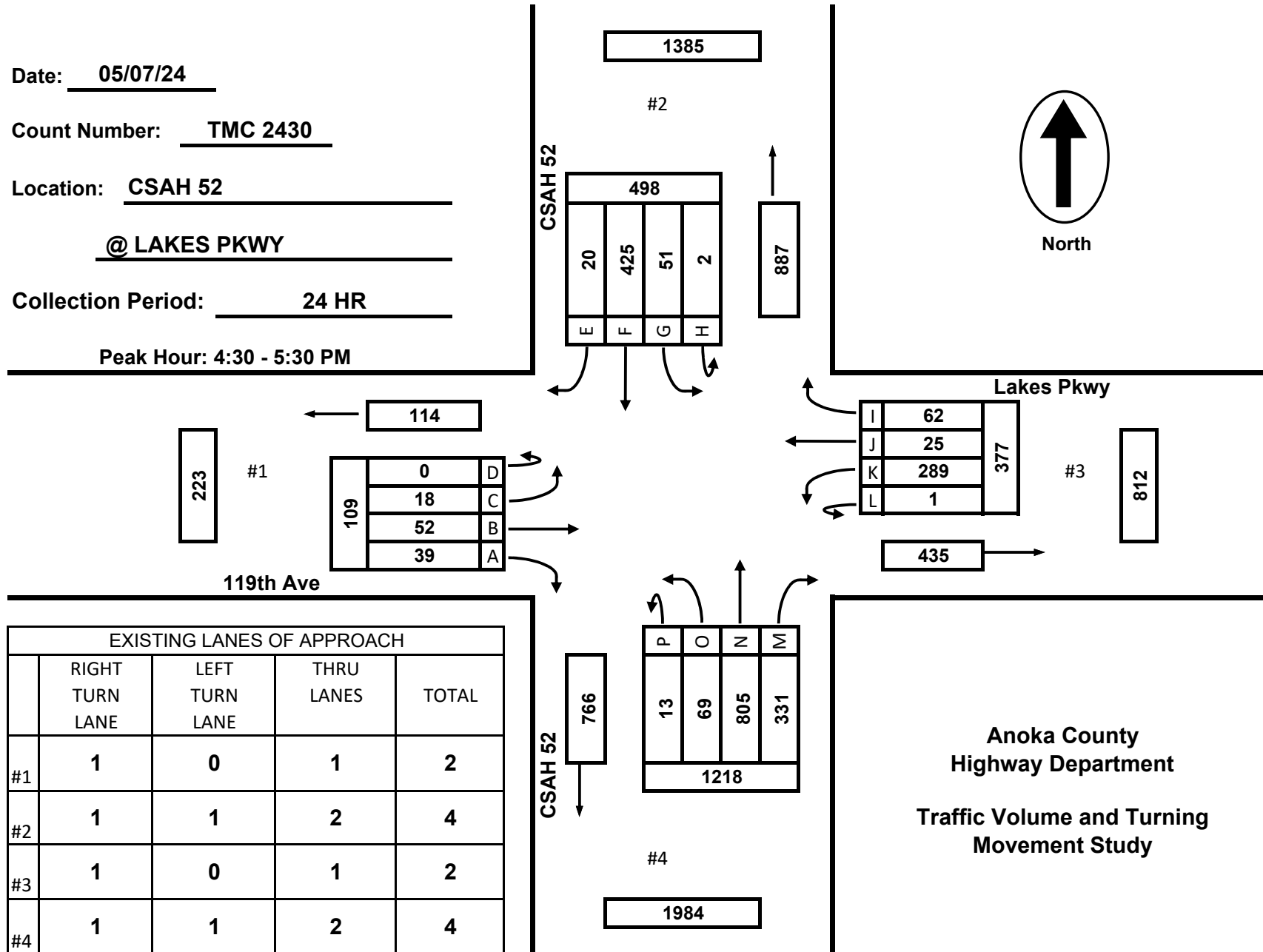
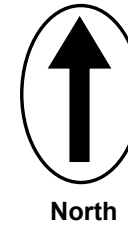
Date: 05/07/24

Count Number: TMC 2430

Location: CSAH 52  
@ LAKES PKWY

Collection Period: 24 HR

Peak Hour: 4:30 - 5:30 PM



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

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

**TMC 2430 - CSAH 52 @ LAKES PKWY**  
**Blaine MN**  
**Tuesday, May 7, 2024**

Time	Southbound CSAH 52						Westbound Lakes Pkwy						Northbound CSAH 52						Eastbound 119th Ave						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	4	1	0	5	0	1	0	0	0	1	0	4	9	5	0	18	0	1	1	0	0	2	26
12:15 AM	0	0	3	0	0	3	0	3	0	0	0	3	0	0	5	4	0	9	0	0	1	0	1	1	16
12:30 AM	0	0	4	0	0	4	0	2	0	0	0	2	0	1	4	3	0	8	0	0	0	0	0	0	14
12:45 AM	0	1	3	0	0	4	0	0	1	0	0	1	0	0	2	0	0	2	0	0	1	0	0	1	8
Hourly Total	0	1	14	1	0	16	0	6	1	0	0	7	0	5	20	12	0	37	0	1	3	0	1	4	64
1:00 AM	0	0	1	0	0	1	0	1	0	0	0	1	0	1	2	2	0	5	0	0	0	0	0	0	7
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	1	0	7	0	0	0	0	0	0	7
1:30 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
1:45 AM	0	0	0	0	0	0	0	2	0	0	0	2	0	1	1	0	0	2	0	0	0	0	0	0	4
Hourly Total	0	0	1	1	0	2	0	3	0	0	0	3	0	4	8	3	0	15	0	0	0	0	0	0	20
2:00 AM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	4
2:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	2	0	4	0	0	0	0	1	0	5
2:30 AM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	1	2	0	3	0	1	0	1	0	2	7
2:45 AM	0	0	2	0	0	2	0	3	0	0	0	3	0	0	1	1	0	2	0	0	0	0	0	0	7
Hourly Total	0	0	4	0	0	4	0	5	0	1	0	6	0	1	4	6	0	11	0	1	0	1	1	2	23
3:00 AM	0	1	1	0	0	2	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	1	0	1	5
3:15 AM	0	1	4	0	0	5	0	2	0	0	0	2	0	2	1	0	0	3	0	0	0	2	0	2	12
3:30 AM	0	1	6	0	0	7	0	3	1	0	0	4	0	0	2	1	0	3	0	0	0	0	0	0	14
3:45 AM	0	0	6	0	0	6	0	8	0	0	0	8	0	0	0	1	0	1	0	0	0	3	0	3	18
Hourly Total	0	3	17	0	0	20	0	14	1	0	0	15	0	2	4	2	0	8	0	0	0	6	0	6	49
4:00 AM	0	0	8	0	0	8	0	10	0	0	0	10	0	0	4	0	0	4	0	0	0	2	0	2	24
4:15 AM	0	0	14	0	0	14	0	3	1	1	0	5	0	0	2	0	0	2	0	0	0	1	0	1	22
4:30 AM	0	0	24	0	0	24	0	17	0	1	0	18	0	0	3	2	0	5	0	0	0	5	0	5	52
4:45 AM	0	1	28	0	0	29	0	11	2	5	0	18	0	1	5	2	0	8	0	0	0	2	0	2	57
Hourly Total	0	1	74	0	0	75	0	41	3	7	0	51	0	1	14	4	0	19	0	0	0	10	0	10	155
5:00 AM	0	1	38	0	0	39	0	15	0	1	0	16	1	0	4	0	0	5	0	0	0	4	0	4	64
5:15 AM	0	2	68	0	0	70	0	22	0	1	0	23	1	1	7	1	0	10	0	2	1	5	0	8	111
5:30 AM	0	0	72	0	0	72	0	34	0	4	0	38	3	0	4	1	0	8	0	0	0	5	0	5	123
5:45 AM	0	1	80	3	0	84	0	32	1	5	0	38	2	1	15	2	0	20	0	2	0	3	0	5	147
Hourly Total	0	4	258	3	0	265	0	103	1	11	0	115	7	2	30	4	0	43	0	4	1	17	0	22	445
6:00 AM	0	0	87	0	0	87	0	34	0	3	0	37	5	1	21	2	0	29	0	0	0	7	0	7	160
6:15 AM	0	2	94	1	0	97	0	49	2	2	0	53	0	2	11	10	0	23	0	0	0	10	0	10	183
6:30 AM	0	0	111	0	0	111	0	63	1	6	0	70	6	0	32	3	0	41	0	1	1	18	1	20	242
6:45 AM	0	3	135	3	0	141	0	78	3	5	0	86	8	2	32	8	0	50	0	3	3	12	0	18	295
Hourly Total	0	5	427	4	0	436	0	224	6	16	0	246	19	5	96	23	0	143	0	4	4	47	1	55	880
7:00 AM	0	0	146	1	0	147	0	108	6	10	0	124	5	0	43	17	0	65	0	4	6	16	0	26	362
7:15 AM	0	2	171	0	0	173	0	131	2	14	0	147	12	3	46	20	0	81	0	9	3	15	0	27	428
7:30 AM	0	4	219	2	0	225	0	135	6	14	0	155	5	2	43	23	0	73	0	2	3	13	1	18	471
7:45 AM	2	7	213	1	0	223	0	137	11	10	0	158	10	2	60	23	0	95	0	3	1	18	0	22	498
Hourly Total	2	13	749	4	0	768	0	511	25	48	0	584	32	7	192	83	0	314	0	18	13	62	1	93	1759

**TMC 2430 - CSAH 52 @ LAKES PKWY  
Blaine MN**

**Tuesday, May 7, 2024**

Time	Southbound CSAH 52						Westbound Lakes Pkwy						Northbound CSAH 52						Eastbound 19th Ave						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	2	2	134	4	0	142	0	73	5	6	0	84	9	1	31	34	0	75	0	3	7	12	0	22	323
8:15 AM	1	6	119	1	0	127	0	70	6	4	0	80	3	2	42	22	0	69	0	3	1	8	0	12	288
8:30 AM	0	1	100	7	0	108	0	80	6	5	0	91	1	2	52	20	0	75	0	3	3	15	0	21	295
8:45 AM	1	4	87	1	0	93	0	74	9	10	0	93	6	5	59	28	0	98	0	6	8	14	1	28	312
Hourly Total	4	13	440	13	0	470	0	297	26	25	0	348	19	10	184	104	0	317	0	15	19	49	1	83	1218
9:00 AM	0	7	87	1	0	95	0	61	4	5	0	70	7	3	50	29	0	89	0	5	6	8	0	19	273
9:15 AM	0	5	95	3	0	103	0	46	4	7	0	57	3	3	40	21	0	67	0	2	4	13	0	19	246
9:30 AM	0	4	76	1	0	81	0	52	3	10	0	65	2	3	38	19	0	62	0	1	3	6	0	10	218
9:45 AM	0	3	56	3	0	62	0	49	4	5	0	58	1	4	36	21	0	62	0	2	2	4	0	8	190
Hourly Total	0	19	314	8	0	341	0	208	15	27	0	250	13	13	164	90	0	280	0	10	15	31	0	56	927
10:00 AM	0	4	48	2	0	54	0	40	5	4	0	49	3	5	40	16	0	64	0	1	3	8	0	12	179
10:15 AM	0	4	49	1	0	54	0	48	5	6	0	59	5	7	44	17	1	73	0	4	4	7	1	15	201
10:30 AM	3	2	67	1	0	73	1	39	3	7	0	50	3	10	49	28	0	90	0	0	3	8	1	11	224
10:45 AM	0	3	64	0	2	67	0	42	2	6	0	50	2	4	45	33	0	84	0	2	2	4	0	8	209
Hourly Total	3	13	228	4	2	248	1	169	15	23	0	208	13	26	178	94	1	311	0	7	12	27	2	46	813
11:00 AM	0	6	55	2	1	63	0	40	7	8	0	55	6	6	60	29	0	101	0	3	3	5	1	11	230
11:15 AM	1	6	59	3	1	69	0	59	2	11	0	72	4	8	49	20	0	81	0	0	6	7	1	13	235
11:30 AM	0	4	66	1	0	71	0	44	11	5	0	60	2	4	61	30	3	97	0	4	2	13	1	19	247
11:45 AM	0	2	79	2	0	83	0	45	4	7	0	56	1	5	65	38	0	109	0	4	4	5	2	13	261
Hourly Total	1	18	259	8	2	286	0	188	24	31	0	243	13	23	235	117	3	388	0	11	15	30	5	56	973
12:00 PM	1	4	79	1	4	85	0	45	2	11	1	58	3	5	68	37	0	113	0	2	7	9	0	18	274
12:15 PM	1	5	75	3	0	84	0	62	2	6	0	70	2	5	68	42	0	117	0	0	8	7	0	15	286
12:30 PM	1	5	46	1	0	53	0	52	8	7	0	67	2	7	68	27	1	104	0	2	6	10	1	18	242
12:45 PM	1	3	47	0	3	51	0	46	5	6	0	57	2	8	74	32	0	116	0	5	7	11	0	23	247
Hourly Total	4	17	247	5	7	273	0	205	17	30	1	252	9	25	278	138	1	450	0	9	28	37	1	74	1049
1:00 PM	0	4	57	3	0	64	0	32	4	9	0	45	4	7	72	33	0	116	0	3	6	11	0	20	245
1:15 PM	0	4	67	5	0	76	0	44	8	9	0	61	4	5	61	27	0	97	0	3	9	3	2	15	249
1:30 PM	0	8	64	2	0	74	0	38	7	11	0	56	2	6	52	29	0	89	0	1	7	11	0	19	238
1:45 PM	1	8	62	0	2	71	0	36	9	13	2	58	1	9	81	25	0	116	0	3	8	9	1	20	265
Hourly Total	1	24	250	10	2	285	0	150	28	42	2	220	11	27	266	114	0	418	0	10	30	34	3	74	997
2:00 PM	1	3	81	0	1	85	0	41	3	9	0	53	4	11	67	42	0	124	0	3	4	5	1	12	274
2:15 PM	1	3	70	4	0	78	0	47	3	11	0	61	8	9	90	38	0	145	0	4	7	6	1	17	301
2:30 PM	0	7	65	2	0	74	0	54	6	11	0	71	2	10	97	47	0	156	0	2	10	8	2	20	321
2:45 PM	0	16	68	2	0	86	0	45	6	4	0	55	3	14	121	48	0	186	0	2	8	7	0	17	344
Hourly Total	2	29	284	8	1	323	0	187	18	35	0	240	17	44	375	175	0	611	0	11	29	26	4	66	1240
3:00 PM	0	4	64	3	1	71	0	60	6	8	0	74	3	6	144	71	0	224	0	5	9	10	2	24	393
3:15 PM	0	12	71	5	0	88	0	44	7	12	0	63	2	6	124	72	1	204	0	5	6	13	0	24	379
3:30 PM	0	11	92	6	0	109	0	34	7	16	0	57	5	13	166	89	0	273	0	2	15	13	1	30	469
3:45 PM	1	10	74	8	0	93	0	64	12	17	0	93	6	13	189	60	0	268	0	7	19	5	0	31	485
Hourly Total	1	37	301	22	1	361	0	202	32	53	0	287	16	38	623	292	1	969	0	19	49	41	3	109	1726

**TMC 2430 - CSAH 52 @ LAKES PKWY  
Blaine MN**

**Tuesday, May 7, 2024**

Time	Southbound CSAH 52						Westbound Lakes Pkwy						Northbound CSAH 52						Eastbound 119th Ave						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	11	91	6	0	108	0	60	9	15	0	84	3	17	200	66	0	286	0	3	11	6	0	20	498
4:15 PM	1	13	92	5	1	111	0	50	8	18	0	76	8	10	210	79	0	307	0	5	12	15	0	32	526
4:30 PM	2	8	100	5	0	115	0	70	9	14	0	93	1	17	206	79	0	303	0	4	14	12	0	30	541
4:45 PM	0	19	116	4	0	139	1	67	5	19	0	92	1	13	185	88	0	287	0	7	16	12	0	35	553
Hourly Total	3	51	399	20	1	473	1	247	31	66	0	345	13	57	801	312	0	1183	0	19	53	45	0	117	2118
5:00 PM	0	16	94	4	1	114	0	65	8	10	0	83	7	14	238	79	0	338	0	3	11	6	1	20	555
5:15 PM	0	8	115	7	0	130	0	87	3	19	0	109	4	25	176	85	0	290	0	4	11	9	0	24	553
5:30 PM	0	8	79	6	1	93	0	63	4	10	0	77	3	12	160	74	0	249	0	5	4	12	0	21	440
5:45 PM	0	5	87	4	2	96	0	67	5	9	0	81	5	16	141	98	0	260	0	4	9	6	0	19	456
Hourly Total	0	37	375	21	4	433	0	282	20	48	0	350	19	67	715	336	0	1137	0	16	35	33	1	84	2004
6:00 PM	0	9	79	8	1	96	0	42	6	14	0	62	5	10	94	62	0	171	0	7	3	8	0	18	347
6:15 PM	0	5	65	3	1	73	0	43	6	9	0	58	5	15	90	59	0	169	0	7	10	7	0	24	324
6:30 PM	0	8	70	4	0	82	0	51	4	14	0	69	2	6	107	68	0	183	0	3	11	9	0	23	357
6:45 PM	0	8	70	5	0	83	0	39	6	8	0	53	0	9	88	71	0	168	0	1	7	4	0	12	316
Hourly Total	0	30	284	20	2	334	0	175	22	45	0	242	12	40	379	260	0	691	0	18	31	28	0	77	1344
7:00 PM	0	8	52	5	1	65	0	23	5	7	0	35	1	3	67	70	0	141	0	2	10	10	0	22	263
7:15 PM	0	5	56	2	0	63	0	34	6	4	0	44	2	9	67	42	0	120	0	2	8	4	0	14	241
7:30 PM	0	10	49	2	2	61	0	38	4	7	0	49	1	7	59	68	0	135	0	2	2	2	0	6	251
7:45 PM	0	6	53	4	2	63	0	28	3	3	0	34	3	6	52	51	0	112	0	2	11	5	2	18	227
Hourly Total	0	29	210	13	5	252	0	123	18	21	0	162	7	25	245	231	0	508	0	8	31	21	2	60	982
8:00 PM	0	10	48	3	2	61	0	24	1	2	0	27	1	5	64	66	0	136	0	0	8	2	1	10	234
8:15 PM	0	8	42	4	1	54	0	20	7	7	0	34	0	5	50	61	0	116	0	1	5	4	0	10	214
8:30 PM	1	7	36	4	0	48	0	16	6	3	0	25	4	4	41	51	1	100	0	2	3	4	0	9	182
8:45 PM	0	16	32	3	0	51	0	24	3	9	0	36	2	3	45	41	1	91	0	2	3	4	0	9	187
Hourly Total	1	41	158	14	3	214	0	84	17	21	0	122	7	17	200	219	2	443	0	5	19	14	1	38	817
9:00 PM	0	6	32	2	0	40	0	18	1	2	0	21	1	4	46	39	0	90	0	4	6	3	0	13	164
9:15 PM	0	4	28	1	0	33	0	22	1	4	0	27	1	3	47	39	0	90	0	1	2	2	1	5	155
9:30 PM	0	6	17	1	0	24	0	18	2	3	0	23	1	4	29	33	0	67	0	3	1	2	0	6	120
9:45 PM	0	5	16	1	1	22	0	13	1	3	0	17	1	5	25	29	0	60	0	0	1	1	0	2	101
Hourly Total	0	21	93	5	1	119	0	71	5	12	0	88	4	16	147	140	0	307	0	8	10	8	1	26	540
10:00 PM	0	5	15	1	0	21	0	8	2	8	0	18	0	3	18	19	0	40	0	1	1	2	0	4	83
10:15 PM	0	3	15	2	1	20	0	5	1	1	0	7	1	4	19	23	0	47	0	1	2	1	0	4	78
10:30 PM	0	8	10	1	0	19	0	12	1	0	0	13	2	3	15	15	0	35	0	0	3	0	0	3	70
10:45 PM	0	1	1	1	0	3	0	6	1	0	0	7	0	5	7	9	0	21	0	0	1	2	0	3	34
Hourly Total	0	17	41	5	1	63	0	31	5	9	0	45	3	15	59	66	0	143	0	2	7	5	0	14	265
11:00 PM	0	0	4	1	0	5	0	5	0	0	0	5	1	1	8	12	0	22	0	0	0	0	0	0	32
11:15 PM	0	1	3	0	0	4	0	3	0	0	0	3	0	2	6	4	0	12	0	0	0	0	0	0	19
11:30 PM	0	0	2	0	0	2	0	0	0	1	0	1	0	1	1	9	0	11	0	0	1	0	0	1	15
11:45 PM	0	0	2	0	0	2	0	2	0	1	0	3	0	1	8	3	0	12	0	0	0	2	0	2	19
Hourly Total	0	1	11	1	0	13	0	10	0	2	0	12	1	5	23	28	0	57	0	0	1	2	0	3	85
<b>DAILY TOTAL</b>	<b>22</b>	<b>424</b>	<b>5438</b>	<b>190</b>	<b>32</b>	<b>6074</b>	<b>2</b>	<b>3536</b>	<b>330</b>	<b>573</b>	<b>3</b>	<b>4441</b>	<b>235</b>	<b>475</b>	<b>5240</b>	<b>2853</b>	<b>8</b>	<b>8803</b>	<b>0</b>	<b>196</b>	<b>405</b>	<b>574</b>	<b>28</b>	<b>1175</b>	<b>20493</b>
<b>Cars</b>	21	421	5332	188	19	5962	2	3482	327	566	3	4377	235	470	5140	2816	3	8661	0	190	398	566	14	1154	20154
<b>Heavy Vehicles</b>	1	3	106	2	13	112	0	54	3	7	0	64	0	5	100	37	5	142	0	6	7	8	14	21	339
<b>Heavy Vehicle %</b>	4.55%	0.71%	1.95%	1.05%	40.63%	1.84%	0.00%	1.53%	0.91%	1.22%	0.00%	1.44%	0.00%	1.05%	1.91%	1.30%	62.50%	1.61%	0.00%	3.06%	1.73%	1.39%	50.00%	1.79%	1.65%

**TMC 2430 - CSAH 52 @ LAKES PKWY  
Blaine MN**

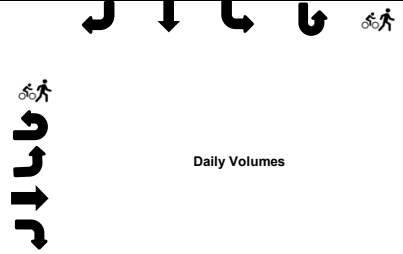
**Tuesday, May 7, 2024  
AM Peak Hour**

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	146	1	0	147	0	108	6	10	0	124	5	0	43	17	0	65	0	4	6	16	0	26	362
7:15 AM	0	2	171	0	0	173	0	131	2	14	0	147	12	3	46	20	0	81	0	9	3	15	0	27	428
7:30 AM	0	4	219	2	0	225	0	135	6	14	0	155	5	2	43	23	0	73	0	2	3	13	1	18	471
7:45 AM	2	7	213	1	0	223	0	137	11	10	0	158	10	2	60	23	0	95	0	3	1	18	0	22	498
Peak Hour Total	2	13	749	4	0	768	0	511	25	48	0	584	32	7	192	83	0	314	0	18	13	62	1	93	1759
PHF	0.250	0.464	0.855	0.500	0.000	0.853	0.000	0.932	0.568	0.857	0.000	0.924	0.667	0.583	0.800	0.902	0.000	0.826	0.000	0.500	0.542	0.861	0.250	0.861	0.883

**PM Peak Hour**

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	
4:30 PM	2	8	100	5	0	115	0	70	9	14	0	93	1	17	206	79	0	303	0	4	14	12	0	30	541
4:45 PM	0	19	116	4	0	139	1	67	5	19	0	92	1	13	185	88	0	287	0	7	16	12	0	35	553
5:00 PM	0	16	94	4	1	114	0	65	8	10	0	83	7	14	238	79	0	338	0	3	11	6	1	20	555
5:15 PM	0	8	115	7	0	130	0	87	3	19	0	109	4	25	176	85	0	290	0	4	11	9	0	24	553
Peak Hour Total	2	51	425	20	1	498	1	289	25	62	0	377	13	69	805	331	0	1218	0	18	52	39	1	109	2202
PHF	0.250	0.671	0.916	0.714	0.250	0.896	0.250	0.830	0.694	0.816	0.000	0.865	0.464	0.690	0.846	0.940	0.000	0.901	0.000	0.643	0.813	0.813	0.250	0.779	0.992

Total Vehicles On Leg		12105	
Vehicles Entering Intersection	6074	Vehicles Exiting Intersection	6031
<b>Southbound</b>			
Cars	188	5332	421
Heavy	2	106	3
<b>Total</b>	<b>190</b>	<b>5438</b>	<b>424</b>



Total Vehicles on Leg 2170	Vehicles Entering Intersection 1175	Eastbound	Cars	Heavy	Total
			14	14	28
	0		0	0	
	190		6	196	
	398		7	405	
Vehicles Exiting Intersection 995			566	8	574

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 4441	Total Vehicles on Leg 8125
566	7	573			
327	3	330			
3482	54	3536			
2	0	2			
3	0	3	Vehicles Exiting Intersection 3684		

Cars	3	235	470	5140	2816
Heavy	5	0	5	100	37
<b>Total</b>	<b>8</b>	<b>235</b>	<b>475</b>	<b>5240</b>	<b>2853</b>
<b>Northbound</b>					
Vehicles Entering Intersection 8803			Vehicles Exiting Intersection 9783		
Total Vehicles On Leg			18586		





# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2430

Study Date : 05/10/2024

## Signal Warrants - Summary

### Major Street Approaches

Northbound: CSAH 52

Number of Lanes : 2+

Total Approach Volume: 8,803

Southbound: CSAH 52

Number of Lanes :2+

Total Approach Volume: 6,074

### Minor Street Approaches

Eastbound: 119th Ave

Number of Lanes :1

Total Approach Volume: 1,175

Westbound: Lakes Pkwy

Number of Lanes :1

Total Approach Volume: 4,441

### Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Satisfied

Warrant 1A - Minimum Vehicular Volume.....Satisfied

Required volumes reached for 16 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Satisfied

Required volumes reached for 13 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Satisfied

Required 1A volumes reached for 17 hours, 8 are needed

Required 1B volumes reached for 15 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Satisfied

Number of hours (15) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

Warrant 3A - Peak Hour Delay.....Satisfied

Number of one hour periods (55) volumes exceed minimum >= required (1). Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Satisfied

Volumes exceed minimums for at least 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: TMC 2430

Study Date : 05/10/2024

## 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

16 one hour periods meet minimums.  
Warrant IS 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 = **420**  
 Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 52</b>					<b>119th Ave</b>		
16:30 - 17:30	1218	+	498	=	1716	109	377	Yes
15:30 - 16:30	1134	+	421	=	1555	113	310	Yes
17:30 - 18:30	849	+	358	=	1207	82	278	Yes
14:30 - 15:30	770	+	319	=	1089	85	263	Yes
07:30 - 08:30	312	+	717	=	1029	74	477	Yes
18:30 - 19:30	612	+	293	=	905	71	201	Yes
06:30 - 07:30	237	+	572	=	809	91	427	Yes
13:30 - 14:30	474	+	308	=	782	68	228	Yes
11:30 - 12:30	436	+	323	=	759	65	244	Yes
19:30 - 20:30	499	+	239	=	738	44	144	Yes
08:30 - 09:30	329	+	399	=	728	87	311	Yes
12:30 - 13:30	433	+	244	=	677	76	230	Yes
10:30 - 11:30	356	+	272	=	628	43	227	Yes
20:30 - 21:30	371	+	172	=	543	36	109	Yes
09:30 - 10:30	261	+	251	=	512	45	231	Yes
05:30 - 06:30	80	+	340	=	420	27	166	Yes
05:15 - 06:15	67	+	313	=	380	25	136	No
05:00 - 06:00	43	+	265	=	308	22	115	No
21:30 - 22:30	214	+	87	=	301	16	65	No
21:45 - 22:45	182	+	82	=	264	13	55	No
04:45 - 05:45	31	+	210	=	241	19	95	No
22:00 - 23:00	143	+	63	=	206	14	45	No
04:30 - 05:30	28	+	162	=	190	19	75	No
22:15 - 23:15	125	+	47	=	172	10	32	No
04:15 - 05:15	20		106		126	12	57	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2430

Study Date : 05/10/2024

## 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

13 one hour periods meet minimums.  
Warrant IS 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 = **630**  
 Veh/Hr Minor = **53**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 52</b>					<b>119th Ave</b>		
16:45 - 17:45	1164	+	476	=	1640	100	361	Yes
15:45 - 16:45	1164	+	427	=	1591	113	346	Yes
14:45 - 15:45	887	+	354	=	1241	95	249	Yes
17:45 - 18:45	783	+	347	=	1130	84	270	Yes
07:15 - 08:15	324	+	763	=	1087	89	544	Yes
13:45 - 14:45	541	+	308	=	849	69	243	Yes
18:45 - 19:45	564	+	272	=	836	54	181	Yes
08:15 - 09:15	331	+	423	=	754	80	334	Yes
11:45 - 12:45	443	+	305	=	748	64	251	Yes
19:45 - 20:45	464	+	226	=	690	47	120	Yes
12:45 - 13:45	418	+	265	=	683	77	219	Yes
06:15 - 07:15	179	+	496	=	675	74	333	Yes
10:45 - 11:45	363	+	270	=	633	51	237	Yes
10:30 - 11:30	356	+	272	=	628	43	227	No
10:15 - 11:15	348	+	257	=	605	45	214	No
06:00 - 07:00	143	+	436	=	579	55	246	No
10:00 - 11:00	311	+	248	=	559	46	208	No
09:15 - 10:15	255	+	300	=	555	49	229	No
09:45 - 10:45	289	+	243	=	532	46	216	No
09:30 - 10:30	261	+	251	=	512	45	231	No
05:45 - 06:45	113	+	379	=	492	42	198	No
20:45 - 21:45	338	+	148	=	486	33	107	No
21:00 - 22:00	307	+	119	=	426	26	88	No
05:30 - 06:30	80	+	340	=	420	27	166	No
05:15 - 06:15	67		313		380	25	136	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2430

Study Date : 05/10/2024

## 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

17 hours meet 1A minimums.  
15 hours meet 1B minimums.  
Warrant IS 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 = **336 504**

Veh/Hr Minor = **84 42**

#### Major Road CSAH 52

#### Minor Road 119th Ave

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:15 - 17:15	1235	+	479	=	1714	117	344	Yes
15:15 - 16:15	1031	+	398	=	1429	105	297	Yes
17:15 - 18:15	970	+	415	=	1385	82	329	Yes
07:15 - 08:15	324	+	763	=	1087	89	544	Yes
14:15 - 15:15	711	+	309	=	1020	78	261	Yes
18:15 - 19:15	661	+	303	=	964	81	215	Yes
08:15 - 09:15	331	+	423	=	754	80	334	Yes
19:15 - 20:15	503	+	248	=	751	48	154	Yes
13:15 - 14:15	426	+	306	=	732	66	228	Yes
11:15 - 12:15	400	+	308	=	708	63	246	Yes
12:15 - 13:15	453	+	252	=	705	76	239	Yes
06:15 - 07:15	179		496		675	74	333	Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:00 - 17:00	1183	+	473	=	1656	117	345	Yes
17:00 - 18:00	1137	+	433	=	1570	84	350	Yes
15:00 - 16:00	969	+	361	=	1330	109	287	Yes
07:00 - 08:00	314	+	768	=	1082	93	584	Yes
18:00 - 19:00	691	+	334	=	1025	77	242	Yes
14:00 - 15:00	611	+	323	=	934	66	240	Yes
08:00 - 09:00	317	+	470	=	787	83	348	Yes
19:00 - 20:00	508	+	252	=	760	60	162	Yes
12:00 - 13:00	450	+	273	=	723	74	252	Yes
13:00 - 14:00	418	+	285	=	703	74	220	Yes
11:00 - 12:00	388	+	286	=	674	56	243	Yes
20:00 - 21:00	443		214		657	38	122	Yes

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2430

Study Date : 05/10/2024

## 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.

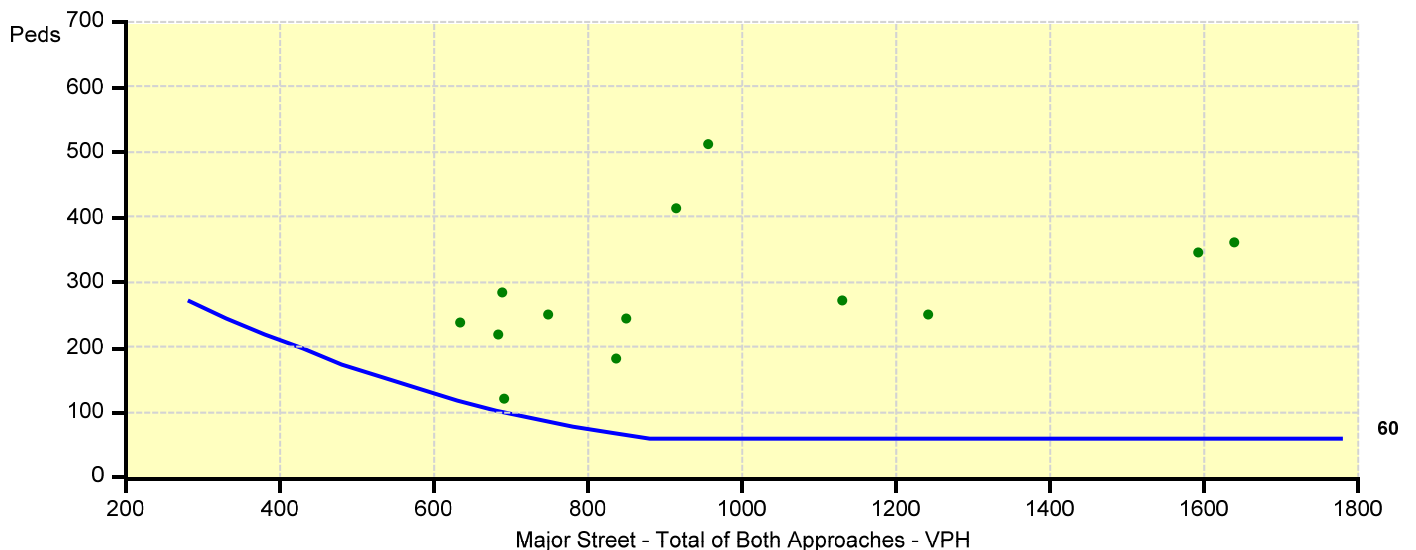
#### Summary

15 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

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

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 52</b>					<b>119th Ave</b>		
16:45 - 17:45	1164	+	476	=	1640	100	361	Yes
15:45 - 16:45	1164	+	427	=	1591	113	346	Yes
14:45 - 15:45	887	+	354	=	1241	95	249	Yes
17:45 - 18:45	783	+	347	=	1130	84	270	Yes
06:45 - 07:45	269	+	686	=	955	89	512	Yes
07:45 - 08:45	314	+	600	=	914	77	413	Yes
13:45 - 14:45	541	+	308	=	849	69	243	Yes
18:45 - 19:45	564	+	272	=	836	54	181	Yes
11:45 - 12:45	443	+	305	=	748	64	251	Yes
19:45 - 20:45	464	+	226	=	690	47	120	Yes
08:45 - 09:45	316	+	372	=	688	76	285	Yes
12:45 - 13:45	418		265		683	77	219	Yes



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2430

Study Date : 05/10/2024

## 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

45 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

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

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 52					119th Ave		
16:30 - 17:30	1218	+	498	=	1716	109	377	Yes
16:15 - 17:15	1235	+	479	=	1714	117	344	Yes
16:00 - 17:00	1183	+	473	=	1656	117	345	Yes
16:45 - 17:45	1164	+	476	=	1640	100	361	Yes
15:45 - 16:45	1164	+	427	=	1591	113	346	Yes
17:00 - 18:00	1137	+	433	=	1570	84	350	Yes
15:30 - 16:30	1134	+	421	=	1555	113	310	Yes
15:15 - 16:15	1031	+	398	=	1429	105	297	Yes
17:15 - 18:15	970	+	415	=	1385	82	329	Yes
15:00 - 16:00	969	+	361	=	1330	109	287	Yes
14:45 - 15:45	887	+	354	=	1241	95	249	Yes
17:30 - 18:30	849		358		1207	82	278	Yes

