

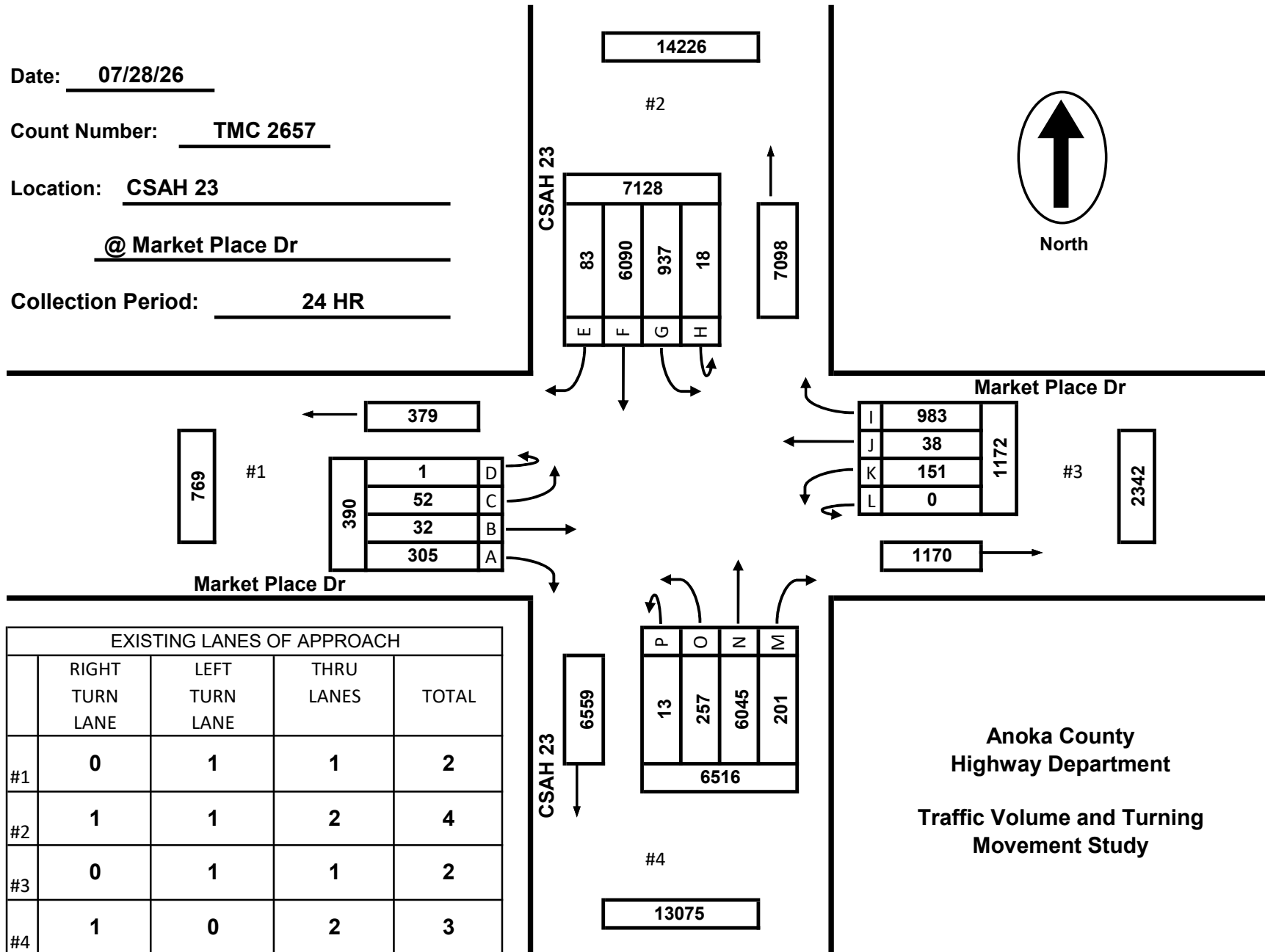
Date: 07/28/26

Count Number: TMC 2657

Location: CSAH 23

@ Market Place Dr

Collection Period: 24 HR



Date: 07/28/26

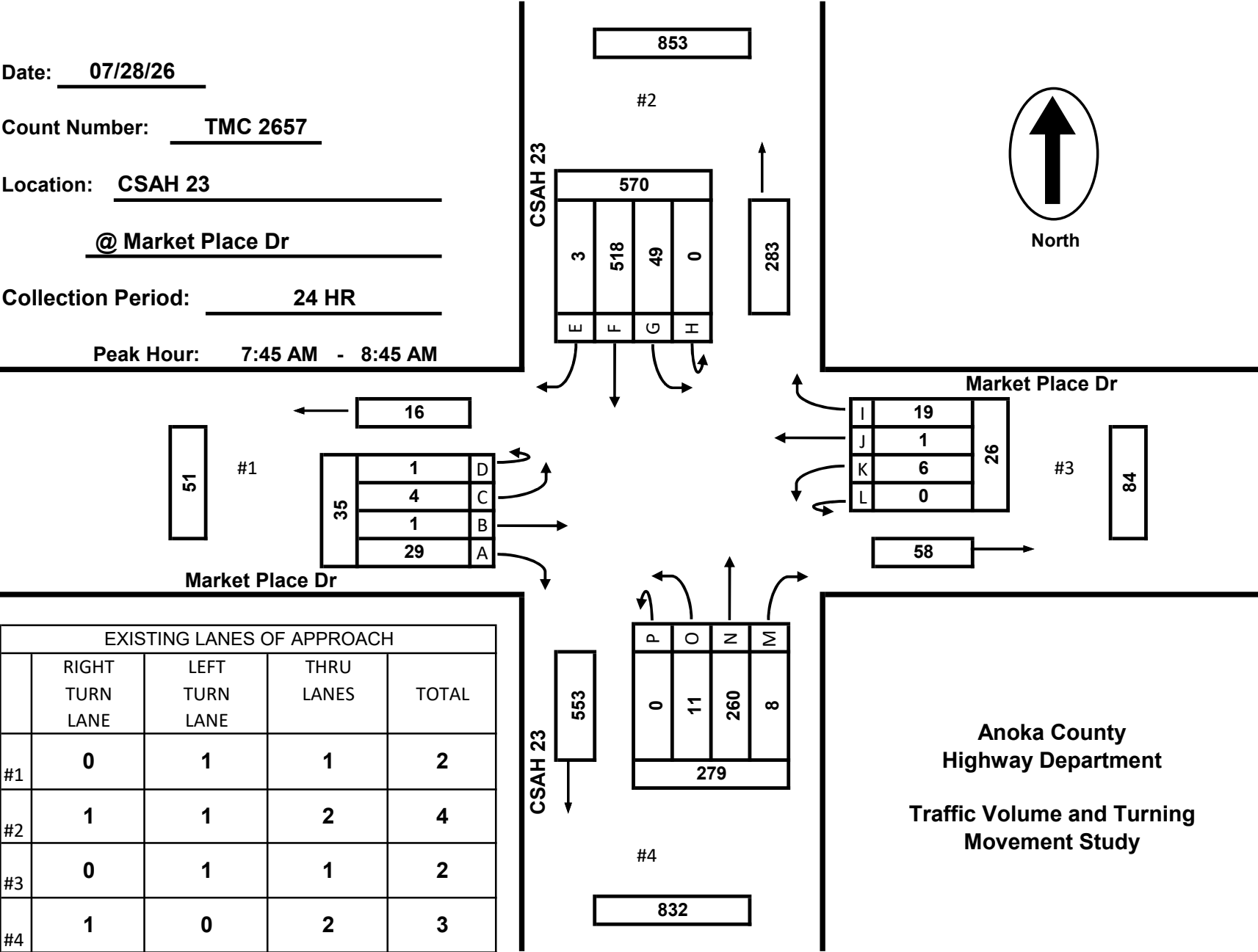
Count Number: TMC 2657

Location: CSAH 23

@ Market Place Dr

Collection Period: 24 HR

Peak Hour: 7:45 AM - 8:45 AM



Anoka County
Highway Department

Traffic Volume and Turning
Movement Study

Date: 07/28/26

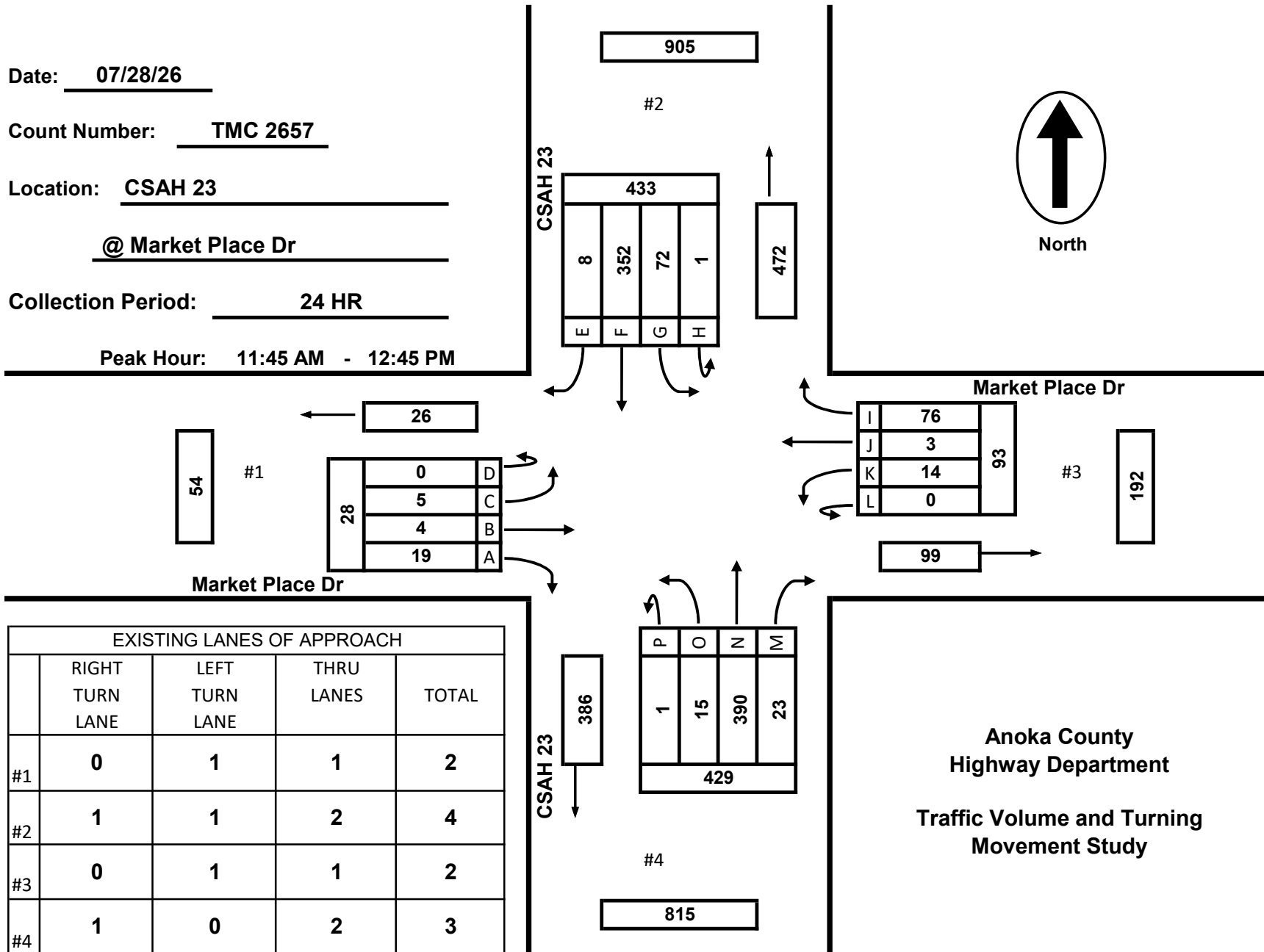
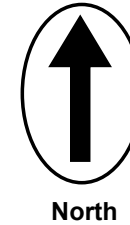
Count Number: TMC 2657

Location: CSAH 23

@ Market Place Dr

Collection Period: 24 HR

Peak Hour: 11:45 AM - 12:45 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

Date: 07/28/26

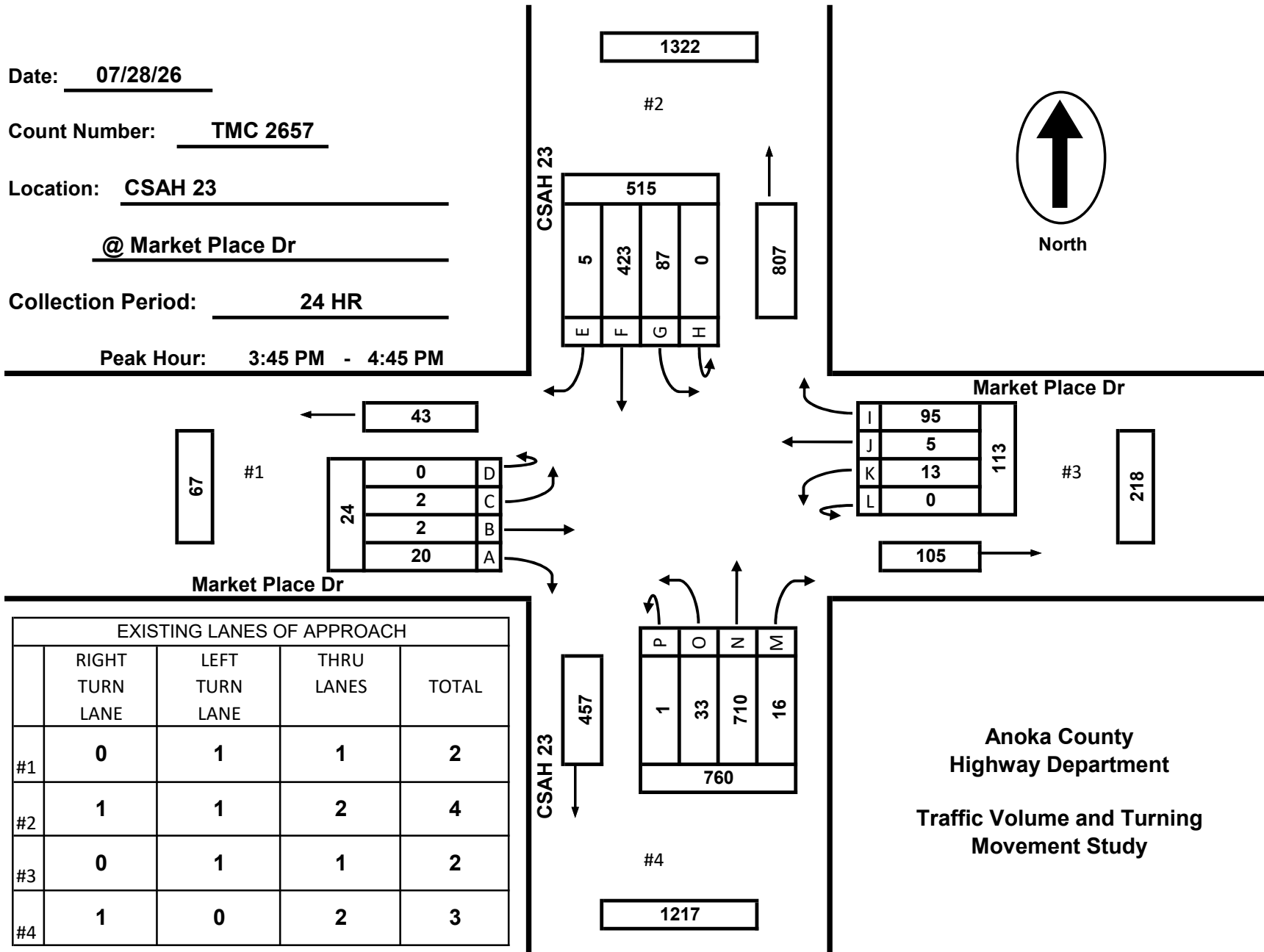
Count Number: TMC 2657

Location: CSAH 23

@ Market Place Dr

Collection Period: 24 HR

Peak Hour: 3:45 PM - 4:45 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

**TMC 2657 - CSAH 23 @ Market Place Dr
Lino Lakes MN
Tuesday, July 28, 2026**

Time	Southbound CSAH 23						Westbound Market Place Dr						Northbound CSAH 23						Eastbound Market Place Dr						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	0	0	4	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	7
12:15 AM	0	0	3	0	0	3	0	0	0	1	0	1	0	1	13	1	0	15	0	0	0	0	0	0	19
12:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	0	0	9
12:45 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
Hourly Total	0	0	15	0	0	15	0	0	0	1	0	1	0	2	29	1	0	32	0	0	0	0	0	0	48
1:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5
1:15 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
1:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	9
1:45 AM	0	0	3	0	0	3	0	1	0	0	0	1	0	1	3	0	0	4	0	0	0	1	0	1	9
Hourly Total	0	0	14	0	0	14	0	1	0	0	0	1	0	2	12	0	0	14	0	0	0	1	0	1	30
2:00 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
2:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	6
2:30 AM	0	2	3	0	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
2:45 AM	0	1	1	0	0	2	0	0	0	0	0	0	0	1	6	0	0	7	0	0	0	0	0	0	9
Hourly Total	0	3	8	0	0	11	0	0	0	0	0	0	0	1	15	0	0	16	0	0	0	0	0	0	27
3:00 AM	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
3:15 AM	1	0	5	0	0	6	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	8
3:30 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	10
3:45 AM	0	4	8	0	0	12	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	14
Hourly Total	1	4	24	0	0	29	0	0	0	1	0	1	0	1	5	0	0	6	0	0	0	0	0	0	36
4:00 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	13
4:15 AM	0	2	16	0	0	18	0	0	0	1	0	1	0	1	1	0	0	2	0	0	0	3	0	3	24
4:30 AM	0	1	38	0	0	39	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	1	0	1	48
4:45 AM	0	4	34	0	0	38	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	1	0	1	46
Hourly Total	0	7	97	0	0	104	0	0	0	1	0	1	0	1	20	0	0	21	0	0	0	5	0	5	131
5:00 AM	0	0	43	0	0	43	0	0	0	0	0	0	0	0	9	0	0	9	0	0	1	2	0	3	55
5:15 AM	0	0	63	0	0	63	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	6	0	6	78
5:30 AM	1	1	66	0	0	68	0	0	0	0	0	0	0	1	24	1	0	26	0	1	0	3	0	4	98
5:45 AM	0	5	59	0	0	64	0	0	0	1	0	1	0	1	24	0	0	25	0	0	0	6	0	6	96
Hourly Total	1	6	231	0	0	238	0	0	0	1	0	1	0	2	66	1	0	69	0	1	1	17	0	19	327
6:00 AM	1	2	96	2	0	101	0	1	0	0	0	1	0	0	25	1	0	26	0	0	0	6	0	6	134
6:15 AM	0	6	119	1	0	126	0	0	0	0	0	0	0	2	38	0	0	40	0	1	0	9	0	10	176
6:30 AM	0	4	121	2	0	127	0	5	0	6	0	11	0	4	42	1	1	47	0	0	0	12	0	12	197
6:45 AM	0	12	139	1	0	152	0	0	0	3	0	3	0	1	43	2	0	46	0	1	0	6	0	7	208
Hourly Total	1	24	475	6	0	506	0	6	0	9	0	15	0	7	148	4	1	159	0	2	0	33	0	35	715
7:00 AM	1	5	139	2	0	147	0	2	0	2	0	4	0	6	37	0	0	43	0	2	0	8	0	10	204
7:15 AM	0	9	146	1	0	156	0	0	0	6	0	6	0	1	35	0	0	36	0	2	0	8	0	10	208
7:30 AM	0	9	133	1	1	143	0	2	0	0	0	2	0	0	59	2	0	61	0	0	0	8	0	8	214
7:45 AM	0	15	146	1	0	162	0	1	0	5	0	6	0	2	65	1	0	68	0	0	0	8	0	8	244
Hourly Total	1	38	564	5	1	608	0	5	0	13	0	18	0	9	196	3	0	208	0	4	0	32	0	36	870

**TMC 2657 - CSAH 23 @ Market Place Dr
Lino Lakes MN
Tuesday, July 28, 2026**

Time	Southbound CSAH 23						Westbound Market Place Dr						Northbound CSAH 23						Eastbound Market Place Dr						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	10	122	2	1	134	0	1	0	5	0	6	0	2	60	2	0	64	0	1	0	6	0	7	211
8:15 AM	0	5	126	0	1	131	0	0	1	3	0	4	0	4	74	2	0	80	0	1	0	6	0	7	222
8:30 AM	0	19	124	0	0	143	0	4	0	6	0	10	0	3	61	3	0	67	1	2	1	9	0	13	233
8:45 AM	0	9	99	2	0	110	0	3	0	6	0	9	0	2	73	2	0	77	0	3	1	8	0	12	208
Hourly Total	0	43	471	4	2	518	0	8	1	20	0	29	0	11	268	9	0	288	1	7	2	29	0	39	874
9:00 AM	0	20	100	1	0	121	0	3	0	9	0	12	0	4	81	6	0	91	0	0	0	7	0	7	231
9:15 AM	0	17	109	2	0	128	0	2	0	10	0	12	0	4	61	4	0	69	0	0	0	2	0	2	211
9:30 AM	0	12	87	2	0	101	0	2	0	10	0	12	0	5	66	2	0	73	0	2	0	7	0	9	195
9:45 AM	0	18	81	1	0	100	0	3	0	21	0	24	0	3	67	1	0	71	0	4	0	6	0	10	205
Hourly Total	0	67	377	6	0	450	0	10	0	50	0	60	0	16	275	13	0	304	0	6	0	22	0	28	842
10:00 AM	1	16	67	0	0	84	0	1	0	17	0	18	0	3	72	5	0	80	0	0	0	1	0	1	183
10:15 AM	1	13	109	2	0	125	0	1	0	7	0	8	0	2	79	6	0	87	0	1	1	3	1	5	225
10:30 AM	0	18	79	0	2	97	0	5	0	17	0	22	0	1	70	4	0	75	0	1	1	6	0	8	202
10:45 AM	2	13	90	1	0	106	0	1	0	16	0	17	0	3	80	2	0	85	0	0	0	5	0	5	213
Hourly Total	4	60	345	3	2	412	0	8	0	57	0	65	0	9	301	17	0	327	0	2	2	15	1	19	823
11:00 AM	0	24	70	1	0	95	0	3	0	20	0	23	0	2	73	1	0	76	0	0	4	3	0	7	201
11:15 AM	0	20	94	1	0	115	0	5	0	12	0	17	0	2	93	4	0	99	0	2	0	4	0	6	237
11:30 AM	1	21	83	1	0	106	0	3	2	21	0	26	2	2	84	4	0	92	0	3	0	9	0	12	236
11:45 AM	0	19	90	3	1	112	0	1	1	20	1	22	0	3	96	4	0	103	0	0	2	4	0	6	243
Hourly Total	1	84	337	6	1	428	0	12	3	73	1	88	2	9	346	13	0	370	0	5	6	20	0	31	917
12:00 PM	0	19	89	2	2	110	0	5	0	26	0	31	0	7	94	8	0	109	0	2	2	4	0	8	258
12:15 PM	1	14	77	1	3	93	0	5	0	17	1	22	1	2	108	2	0	113	0	2	0	7	0	9	237
12:30 PM	0	20	96	2	1	118	0	3	2	13	0	18	0	3	92	9	0	104	0	1	0	4	0	5	245
12:45 PM	1	22	70	0	1	93	0	0	0	17	1	17	1	3	90	5	0	99	0	0	0	1	2	1	210
Hourly Total	2	75	332	5	7	414	0	13	2	73	2	88	2	15	384	24	0	425	0	5	2	16	2	23	950
1:00 PM	0	21	89	0	1	110	0	1	0	20	0	21	0	3	90	4	0	97	0	1	0	3	0	4	232
1:15 PM	1	25	77	0	4	103	0	5	0	19	0	24	1	2	96	9	0	108	0	1	0	2	0	3	238
1:30 PM	0	9	86	2	2	97	0	3	1	21	0	25	1	3	98	9	0	111	0	0	0	2	0	2	235
1:45 PM	0	21	92	0	3	113	0	1	2	15	3	18	0	4	83	5	0	92	0	0	1	4	0	5	228
Hourly Total	1	76	344	2	10	423	0	10	3	75	3	88	2	12	367	27	0	408	0	2	1	11	0	14	933
2:00 PM	1	15	83	2	0	101	0	1	1	20	0	22	0	3	94	2	0	99	0	1	0	2	0	3	225
2:15 PM	0	13	84	3	0	100	0	4	2	16	0	22	0	3	111	1	0	115	0	4	1	3	0	8	245
2:30 PM	0	16	86	2	1	104	0	4	0	16	0	20	0	5	128	7	0	140	0	0	0	2	0	2	266
2:45 PM	0	18	100	3	1	121	0	1	0	24	0	25	0	2	136	0	0	138	0	0	0	6	0	6	290
Hourly Total	1	62	353	10	2	426	0	10	3	76	0	89	0	13	469	10	0	492	0	5	1	13	0	19	1026
3:00 PM	0	16	82	4	0	102	0	7	0	23	0	30	1	7	140	1	0	149	0	0	1	5	0	6	287
3:15 PM	2	15	83	1	0	101	0	3	0	24	0	27	0	8	154	3	0	165	0	0	1	7	0	8	301
3:30 PM	0	17	109	1	0	127	0	3	1	32	0	36	0	7	164	5	0	176	0	0	1	2	0	3	342
3:45 PM	0	22	110	1	0	133	0	4	3	35	2	42	1	8	184	3	0	196	0	0	0	7	0	7	378
Hourly Total	2	70	384	7	0	463	0	17	4	114	2	135	2	30	642	12	0	686	0	0	3	21	0	24	1308

**TMC 2657 - CSAH 23 @ Market Place Dr
Lino Lakes MN
Tuesday, July 28, 2026**

Time	Southbound CSAH 23						Westbound Market Place Dr						Northbound CSAH 23						Eastbound Market Place Dr						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	17	92	0	0	109	0	0	1	15	0	16	0	5	181	4	0	190	0	1	1	2	0	4	319
4:15 PM	0	25	95	1	1	121	0	5	0	18	0	23	0	14	168	3	0	185	0	1	1	4	0	6	335
4:30 PM	0	23	126	3	2	152	0	4	1	27	0	32	0	6	177	6	0	189	0	0	0	7	2	7	380
4:45 PM	0	18	92	2	3	112	0	5	0	19	0	24	2	2	151	2	0	157	0	1	2	5	0	8	301
Hourly Total	0	83	405	6	6	494	0	14	2	79	0	95	2	27	677	15	0	721	0	3	4	18	2	25	1335
5:00 PM	0	20	98	3	1	121	0	4	2	27	0	33	0	15	165	3	0	183	0	2	1	5	0	8	345
5:15 PM	1	31	124	0	0	156	0	1	2	22	0	25	0	9	165	4	0	178	0	1	0	6	0	7	366
5:30 PM	0	16	107	0	0	123	0	1	0	20	0	21	0	5	155	4	0	164	0	1	0	3	0	4	312
5:45 PM	0	19	86	3	1	108	0	3	2	29	0	34	0	8	120	6	0	134	0	0	1	4	0	5	281
Hourly Total	1	86	415	6	2	508	0	9	6	98	0	113	0	37	605	17	0	659	0	4	2	18	0	24	1304
6:00 PM	0	11	73	0	0	84	0	4	1	19	0	24	0	7	120	4	0	131	0	1	2	2	0	5	244
6:15 PM	0	11	80	0	1	91	0	1	1	17	0	19	1	3	112	4	0	120	0	2	0	0	0	2	232
6:30 PM	0	24	71	2	1	97	0	1	0	20	0	21	0	2	83	3	0	88	0	0	1	4	0	5	211
6:45 PM	2	16	83	0	3	101	0	1	0	16	2	17	0	2	95	0	0	97	0	0	2	3	0	5	220
Hourly Total	2	62	307	2	5	373	0	7	2	72	2	81	1	14	410	11	0	436	0	3	5	9	0	17	907
7:00 PM	0	15	63	1	2	79	0	3	1	31	0	35	0	2	85	1	0	88	0	0	0	5	0	5	207
7:15 PM	0	10	59	0	0	69	0	0	1	17	0	18	0	3	60	2	0	65	0	0	0	1	0	1	153
7:30 PM	0	17	46	0	0	63	0	1	2	20	0	23	0	3	66	5	0	74	0	0	0	1	0	1	161
7:45 PM	0	7	46	1	3	54	0	2	1	13	0	16	0	2	61	3	0	66	0	0	0	1	0	1	137
Hourly Total	0	49	214	2	5	265	0	6	5	81	0	92	0	10	272	11	0	293	0	0	0	8	0	8	658
8:00 PM	0	7	36	1	6	44	0	2	1	15	1	18	0	2	69	0	0	71	0	1	1	1	0	3	136
8:15 PM	0	6	46	1	0	53	0	0	1	10	0	11	0	1	68	1	0	70	0	0	1	2	0	3	137
8:30 PM	0	5	45	4	2	54	0	0	1	13	2	14	0	4	61	1	0	66	0	0	0	0	0	0	134
8:45 PM	0	6	33	1	0	40	0	2	1	9	0	12	0	5	52	1	0	58	0	1	0	0	0	1	111
Hourly Total	0	24	160	7	8	191	0	4	4	47	3	55	0	12	250	3	0	265	0	2	2	3	0	7	518
9:00 PM	0	2	33	1	0	36	0	0	2	4	0	6	0	6	49	1	0	56	0	0	1	1	0	2	100
9:15 PM	0	6	36	1	0	43	0	1	0	6	0	7	0	1	46	1	0	48	0	0	0	3	0	3	101
9:30 PM	0	1	29	0	0	30	0	1	1	8	0	10	0	1	34	0	0	35	0	0	0	2	0	2	77
9:45 PM	0	2	19	1	0	22	0	1	0	8	0	9	0	1	29	0	0	30	0	0	0	1	0	1	62
Hourly Total	0	11	117	3	0	131	0	3	3	26	0	32	0	9	158	2	0	169	0	0	1	7	0	8	340
10:00 PM	0	0	26	1	0	27	0	1	0	5	1	6	1	0	24	3	0	28	0	1	0	2	0	3	64
10:15 PM	0	1	14	1	0	16	0	0	0	5	0	5	0	1	31	2	0	34	0	0	0	1	0	1	56
10:30 PM	0	1	17	0	0	18	0	6	0	3	0	9	0	1	19	2	0	22	0	0	0	0	0	0	49
10:45 PM	0	1	13	1	0	15	0	0	0	3	0	3	1	0	14	0	0	15	0	0	0	2	0	2	35
Hourly Total	0	3	70	3	0	76	0	7	0	16	1	23	2	2	88	7	0	99	0	1	0	5	0	6	204
11:00 PM	0	0	10	0	0	10	0	0	0	0	0	0	0	2	12	0	0	14	0	0	0	1	0	1	25
11:15 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	1	11	0	0	12	0	0	0	0	0	0	24
11:30 PM	0	0	5	0	0	5	0	1	0	0	0	1	0	1	9	1	0	11	0	0	0	0	0	0	17
11:45 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	2	10	0	0	12	0	0	0	1	0	1	17
Hourly Total	0	0	31	0	0	31	0	1	0	0	0	1	0	6	42	1	0	49	0	0	0	2	0	2	83
DAILY TOTAL	18	937	6090	83	51	7128	0	151	38	983	14	1172	13	257	6045	201	1	6516	1	52	32	305	5	390	15206
Cars	17	934	5791	80	10	6822	0	150	38	978	8	1166	12	253	5807	197	1	6269	1	50	32	301	4	384	14641
Heavy Vehicles	1	3	299	3	41	306	0	1	0	5	6	6	1	4	238	4	0	247	0	2	0	4	1	6	565
Heavy Vehicle %	5.56%	0.32%	4.91%	3.61%	80.39%	4.29%	0.00%	0.66%	0.00%	0.51%	42.86%	0.51%	7.69%	1.56%	3.94%	1.99%	0.00%	3.79%	0.00%	3.85%	0.00%	1.31%	20.00%	1.54%	3.72%

TMC 2657 - CSAH 23 @ Market Place Dr
Lino Lakes MN
Tuesday, July 28, 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	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
7:45 AM	0	15	146	1	0	<i>162</i>	0	1	0	5	0	<i>6</i>	0	2	65	1	0	<i>68</i>	0	0	0	8	0	<i>8</i>	244
8:00 AM	0	10	122	2	1	<i>134</i>	0	1	0	5	0	<i>6</i>	0	2	60	2	0	<i>64</i>	0	1	0	6	0	<i>7</i>	211
8:15 AM	0	5	126	0	1	<i>131</i>	0	0	1	3	0	<i>4</i>	0	4	74	2	0	<i>80</i>	0	1	0	6	0	<i>7</i>	222
8:30 AM	0	19	124	0	0	<i>143</i>	0	4	0	6	0	<i>10</i>	0	3	61	3	0	<i>67</i>	1	2	1	9	0	<i>13</i>	233
Peak Hour Total	0	49	518	3	2	<i>570</i>	0	6	1	19	0	<i>26</i>	0	11	260	8	0	<i>279</i>	1	4	1	29	0	<i>35</i>	910
Peak Hour Heavy Vehicle	0	0	34	0	0	<i>34</i>	0	0	0	0	0	<i>0</i>	0	1	21	0	0	<i>22</i>	0	1	0	1	0	<i>2</i>	58
Peak Hour Heavy Vehicle PHF	0.00%	0.00%	6.56%	0.00%	0.00%	<i>5.96%</i>	0.00%	0.00%	0.00%	0.00%	0.00%	<i>0.00%</i>	0.00%	9.09%	8.08%	0.00%	0.00%	<i>7.89%</i>	0.00%	25.00%	0.00%	3.45%	0.00%	<i>5.71%</i>	6.37%
	0.000	0.645	0.887	0.375	0.500	<i>0.880</i>	0.000	0.375	0.250	0.792	0.000	<i>0.650</i>	0.000	0.688	0.878	0.667	0.000	<i>0.872</i>	0.250	0.500	0.250	0.806	0.000	<i>0.673</i>	0.932

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

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
11:45 AM	0	19	90	3	1	<i>112</i>	0	1	1	20	1	<i>22</i>	0	3	96	4	0	<i>103</i>	0	0	2	4	0	<i>6</i>	243
12:00 PM	0	19	89	2	2	<i>110</i>	0	5	0	26	0	<i>31</i>	0	7	94	8	0	<i>109</i>	0	2	2	4	0	<i>8</i>	258
12:15 PM	1	14	77	1	3	<i>93</i>	0	5	0	17	1	<i>22</i>	1	2	108	2	0	<i>113</i>	0	2	0	7	0	<i>9</i>	237
12:30 PM	0	20	96	2	1	<i>118</i>	0	3	2	13	0	<i>18</i>	0	3	92	9	0	<i>104</i>	0	1	0	4	0	<i>5</i>	245
Peak Hour Total	1	72	352	8	7	<i>433</i>	0	14	3	76	2	<i>93</i>	1	15	390	23	0	<i>429</i>	0	5	4	19	0	<i>28</i>	983
Peak Hour Heavy Vehicle	0	0	16	1	5	<i>17</i>	0	0	0	1	0	<i>1</i>	0	0	20	0	5	<i>20</i>	0	0	0	1	0	<i>1</i>	39
Peak Hour Heavy Vehicle PHF	0.00%	0.00%	4.55%	12.50%	71.43%	<i>3.93%</i>	0.00%	0.00%	0.00%	1.32%	0.00%	<i>1.08%</i>	0.00%	0.00%	5.13%	0.00%	0.00%	<i>4.66%</i>	0.00%	0.00%	0.00%	5.26%	0.00%	<i>3.57%</i>	3.97%
	0.250	0.900	0.917	0.667	0.583	<i>0.917</i>	0.000	0.700	0.375	0.731	0.500	<i>0.750</i>	0.250	0.536	0.903	0.639	0.000	<i>0.949</i>	0.000	0.625	0.500	0.679	0.000	<i>0.778</i>	0.953

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

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach Total</i>	
3:45 PM	0	22	110	1	0	<i>133</i>	0	4	3	35	2	<i>42</i>	1	8	184	3	0	<i>196</i>	0	0	0	7	0	<i>7</i>	378
4:00 PM	0	17	92	0	0	<i>109</i>	0	0	1	15	0	<i>16</i>	0	5	181	4	0	<i>190</i>	0	1	1	2	0	<i>4</i>	319
4:15 PM	0	25	95	1	1	<i>121</i>	0	5	0	18	0	<i>23</i>	0	14	168	3	0	<i>185</i>	0	1	1	4	0	<i>6</i>	335
4:30 PM	0	23	126	3	2	<i>152</i>	0	4	1	27	0	<i>32</i>	0	6	177	6	0	<i>189</i>	0	0	0	7	2	<i>7</i>	380
Peak Hour Total	0	87	423	5	3	<i>515</i>	0	13	5	95	2	<i>113</i>	1	33	710	16	0	<i>760</i>	0	2	2	20	2	<i>24</i>	1412
Peak Hour Heavy Vehicle	0	0	18	0	3	<i>18</i>	0	0	0	0	0	<i>0</i>	1	0	22	0	3	<i>23</i>	0	0	0	0	0	<i>0</i>	41
Peak Hour Heavy Vehicle PHF	0.00%	0.00%	4.26%	0.00%	100.00%	<i>3.50%</i>	0.00%	0.00%	0.00%	0.00%	0.00%	<i>0.00%</i>	100.00%	0.00%	3.10%	0.00%	0.00%	<i>3.03%</i>	0.00%	0.00%	0.00%	0.00%	0.00%	<i>0.00%</i>	2.90%
	0.000	0.870	0.839	0.417	0.375	<i>0.847</i>	0.000	0.650	0.417	0.679	0.250	<i>0.673</i>	0.250	0.589	0.965	0.667	0.000	<i>0.969</i>	0.000	0.500	0.500	0.714	0.250	<i>0.857</i>	0.929

Total Vehicles On Leg			14226		
Vehicles Entering Intersection			Vehicles Exiting Intersection		
7128			7098		
Southbound					
Cars	80	5791	934	17	10
Heavy	3	299	3	1	41
Total	83	6090	937	18	51

Total Vehicles on Leg 769	Vehicles Entering Intersectio 390	Eastbound	Cars	Heavy	Total	
			4	1	5	
			1	0	1	
	Vehicles Exiting Intersectio 379		50	2	52	
			32	0	32	
			301	4	305	

Daily Volumes

Northbound		Southbound	
Cars	1	12	253
Heavy	0	1	4
Total	1	13	257
Vehicles Entering Intersection		Vehicles Exiting Intersection	
6516		6559	
Total Vehicles On Leg		13075	

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 1172	Total Vehicles on Leg 2342
978	5	983		Vehicles Exiting Intersection 1170	
38	0	38			
150	1	151			
0	0	0			
8	6	14			

**TMC 2657 - CSAH 23 @ Market Place Dr
Lino Lakes MN
Tuesday, July 28, 2026**

Time	Southbound Heavy CSAH 23						Westbound Heavy Market Place Dr						Northbound Heavy CSAH 23						Eastbound Heavy Market Place Dr						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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	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
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
12:45 AM	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	1	0	0	0	0	0	0	0	0	0	1
1:00 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	1
1:15 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	1
1:30 AM	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
1:45 AM	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	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:00 AM	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
2:15 AM	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
2:30 AM	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
2:45 AM	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
3:00 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	1
3:15 AM	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
3:30 AM	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
3:45 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	1
Hourly 'Heavy Vehicles'	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
4:00 AM	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
4:15 AM	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
4:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
4:45 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	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4
5:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3
5:15 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6
5:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	4
5:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	11	0	0	11	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	16
6:00 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6
6:15 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11
6:30 AM	0	0	9	2	0	11	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	14
6:45 AM	0	0	15	0	0	15	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	16
Hourly 'Heavy Vehicles'	0	0	38	2	0	40	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	1	0	0	47
7:00 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	14
7:15 AM	0	0	10	0	0	10	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1	0	0	16
7:30 AM	0	0	5	0	1	5	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7
7:45 AM	0	0	14	0	0	14	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	16
Hourly 'Heavy Vehicles'	0	0	41	0	1	41	0	0	0	0	0	0	0	1	10	0	0	0	0	0	0	1	0	0	53

TMC 2657 - CSAH 23 @ Market Place Dr
Lino Lakes MN
Tuesday, July 28, 2026

Time	Southbound Heavy CSAH 23						Westbound Heavy Market Place Dr						Northbound Heavy CSAH 23						Eastbound Heavy Market Place Dr						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	7	0	0	7	0	0	0	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	14
8:15 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	1	8	0	0	0	9	0	1	0	0	0	17
8:30 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	11
8:45 AM	0	0	7	0	0	7	0	0	0	1	0	1	0	0	6	1	0	7	0	0	0	0	0	0	15
Hourly 'Heavy Vehicles'	0	0	27	0	0	27	0	0	0	1	0	1	0	1	25	1	0	27	0	1	0	1	0	2	57
9:00 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	12
9:15 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	13
9:30 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	9
9:45 AM	0	2	3	0	0	5	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	8
Hourly 'Heavy Vehicles'	0	2	23	0	0	25	0	0	0	0	0	0	0	0	16	1	0	17	0	0	0	0	0	0	42
10:00 AM	0	0	5	0	0	5	0	1	0	0	0	1	0	0	5	0	0	5	0	0	0	0	0	0	11
10:15 AM	0	1	8	0	0	9	0	0	0	1	0	1	0	0	4	1	0	5	0	0	0	0	1	0	15
10:30 AM	0	0	4	0	2	4	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	12
10:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	9
Hourly 'Heavy Vehicles'	0	1	22	0	2	23	0	1	0	1	0	2	0	0	21	1	0	22	0	0	0	0	1	0	47
11:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	10
11:15 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	10
11:30 AM	1	0	5	0	0	6	0	0	0	1	0	1	0	0	2	1	0	3	0	0	0	0	0	0	10
11:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	11
Hourly 'Heavy Vehicles'	1	0	18	0	0	19	0	0	0	1	0	1	0	0	20	1	0	21	0	0	0	0	0	0	41
12:00 PM	0	0	6	1	2	7	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	1	0	1	12
12:15 PM	0	0	3	0	2	3	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	8
12:30 PM	0	0	3	0	1	3	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	8
12:45 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	8
Hourly 'Heavy Vehicles'	0	0	15	1	5	16	0	0	0	1	0	1	0	0	18	0	0	18	0	0	0	1	0	1	36
1:00 PM	0	0	8	0	1	8	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	11
1:15 PM	0	0	5	0	2	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
1:30 PM	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	11
1:45 PM	0	0	7	0	1	7	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	11
Hourly 'Heavy Vehicles'	0	0	20	0	6	20	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	40
2:00 PM	0	0	6	0	0	6	0	0	0	1	0	1	0	0	6	0	0	6	0	0	0	0	0	0	13
2:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	10
2:30 PM	0	0	7	0	1	7	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	14
2:45 PM	0	0	7	0	1	7	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	11
Hourly 'Heavy Vehicles'	0	0	22	0	2	22	0	0	0	1	0	1	0	0	25	0	0	25	0	0	0	0	0	0	48
3:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6
3:15 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	17
3:30 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	15
3:45 PM	0	0	4	0	0	4	0	0	0	0	0	0	1	0	5	0	0	6	0	0	0	0	0	0	10
Hourly 'Heavy Vehicles'	0	0	21	0	0	21	0	0	0	0	0	0	1	0	26	0	0	27	0	0	0	0	0	0	48

Tuesday, July 28, 2026

	Southbound Heavy CSAH 23						Westbound Heavy Market Place Dr						Northbound Heavy CSAH 23						Eastbound Heavy Market Place Dr						VEHICLE 'Heavy Vehicles'	
Time	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	1	0	0	1	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	9
4:15 PM	0	0	6	0	1	6	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	9
4:30 PM	0	0	7	0	2	7	0	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	13
4:45 PM	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	14	0	6	14	0	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0	0	0	34
5:00 PM	0	0	4	0	1	4	0	0	0	0	0	0	0	1	2	0	0	0	3	0	0	0	0	0	0	7
5:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3
5:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	6
5:45 PM	0	0	1	0	1	1	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	0	8	0	2	8	0	0	0	0	0	0	0	1	11	0	0	0	12	0	1	0	0	0	1	21
6:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	6
6:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
6:30 PM	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
6:45 PM	0	0	3	0	3	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	0	5	0	4	5	0	0	0	0	2	0	0	0	7	0	0	0	7	0	0	0	0	0	0	12
7:00 PM	0	0	3	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	3
7:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	3
7:45 PM	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	0
Hourly 'Heavy Vehicles'	0	0	5	0	5	5	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	9
8:00 PM	0	0	0	0	6	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
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
8:30 PM	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 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	1
Hourly 'Heavy Vehicles'	0	0	1	0	8	1	0	0	0	0	3	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
9:00 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
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
9:30 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
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
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
10:00 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
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
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
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
Hourly 'Heavy Vehicles'	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
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
11:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	3
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
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
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	3
DAILY 'Heavy Vehicles'	1	3	299	3	41	306	0	1	0	5	6	6	1	4	238	4	0	247	0	2	0	4	1	6	565	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2657

Study Date : 08/13/2026

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 23

Number of Lanes : 2+

Total Approach Volume: 6,516

Southbound: CSAH 23

Number of Lanes :2+

Total Approach Volume: 7,128

Minor Street Approaches

Eastbound: Market Place Dr

Number of Lanes :2+

Total Approach Volume: 390

Westbound: Market Place Dr

Number of Lanes :2+

Total Approach Volume: 1,172

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 8 hours, 8 are needed

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

Required volumes reached for 12 hours, 8 are needed

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

Required 1A volumes reached for 10 hours, 8 are needed

Required 1B volumes reached for 16 hours, 8 are needed

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

Number of hours (5) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....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.....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 2657

Study Date : 08/13/2026

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

8 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 = **2 or more**

Volume Requirements

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

Veh/Hr Minor = **84**

Major Road						Minor Road		
CSAH 23						Market Place Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:00 - 17:00	721	+	494	=	1215	25	95	Yes
17:00 - 18:00	659	+	508	=	1167	24	113	Yes
15:00 - 16:00	686	+	463	=	1149	24	135	Yes
14:00 - 15:00	492	+	426	=	918	19	89	Yes
12:00 - 13:00	425	+	414	=	839	23	88	Yes
13:00 - 14:00	408	+	423	=	831	14	88	Yes
11:00 - 12:00	370	+	428	=	798	31	88	Yes
18:15 - 19:15	393	+	368	=	761	17	92	Yes
07:45 - 08:45	279	+	570	=	849	35	26	No
07:30 - 08:30	273	+	570	=	843	30	18	No
07:15 - 08:15	229	+	595	=	824	33	20	No
08:15 - 09:15	315	+	505	=	820	39	35	No
07:00 - 08:00	208	+	608	=	816	36	18	No
18:00 - 19:00	436	+	373	=	809	17	81	No
08:30 - 09:30	304	+	502	=	806	34	43	No
08:00 - 09:00	288	+	518	=	806	39	29	No
06:45 - 07:45	186	+	598	=	784	35	15	No
10:45 - 11:45	352	+	422	=	774	30	83	No
08:45 - 09:45	310	+	460	=	770	30	45	No
09:00 - 10:00	304	+	450	=	754	28	60	No
06:30 - 07:30	172	+	582	=	754	39	24	No
10:30 - 11:30	335	+	413	=	748	26	79	No
10:15 - 11:15	323	+	423	=	746	25	70	No
10:00 - 11:00	327	+	412	=	739	19	65	No
06:15 - 07:15	176		552		728	39	18	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2657

Study Date : 08/13/2026

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

12 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 = **2 or more**

Volume Requirements

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

Veh/Hr Minor = **42**

Major Road						Minor Road			
CSAH 23						Market Place Dr			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:30 - 17:30	707	+	541	=	1248	30	114	Yes	
15:30 - 16:30	747	+	490	=	1237	20	117	Yes	
14:30 - 15:30	592	+	428	=	1020	22	102	Yes	
17:30 - 18:30	549	+	406	=	955	16	98	Yes	
11:30 - 12:30	417	+	421	=	838	35	101	Yes	
12:30 - 13:30	408	+	424	=	832	13	80	Yes	
13:30 - 14:30	417	+	411	=	828	18	87	Yes	
08:30 - 09:30	304	+	502	=	806	34	43	Yes	
10:30 - 11:30	335	+	413	=	748	26	79	Yes	
09:30 - 10:30	311	+	410	=	721	25	62	Yes	
18:30 - 19:30	338	+	346	=	684	16	91	Yes	
19:30 - 20:30	281	+	214	=	495	8	68	Yes	
07:45 - 08:45	279	+	570	=	849	35	26	No	
07:30 - 08:30	273	+	570	=	843	30	18	No	
07:15 - 08:15	229	+	595	=	824	33	20	No	
08:15 - 09:15	315	+	505	=	820	39	35	No	
07:00 - 08:00	208	+	608	=	816	36	18	No	
08:00 - 09:00	288	+	518	=	806	39	29	No	
06:45 - 07:45	186	+	598	=	784	35	15	No	
06:30 - 07:30	172	+	582	=	754	39	24	No	
06:15 - 07:15	176	+	552	=	728	39	18	No	
06:00 - 07:00	159	+	506	=	665	35	15	No	
05:45 - 06:45	138	+	418	=	556	34	13	No	
05:30 - 06:30	117	+	359	=	476	26	2	No	
20:30 - 21:30	228		173		401	6	39	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2657

Study Date : 08/13/2026

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

10 hours meet 1A minimums.
16 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 = **2 or more**

Volume Requirements

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

Veh/Hr Minor = **67 34**

Major Road						Minor Road					
CSAH 23						Market Place Dr					
Time	Major NB	+	Major SB	=	Total		Minor EB		Minor WB		Met1A?
15:45 - 16:45	760	+	515	=	1275		24		113		Yes
16:45 - 17:45	682	+	512	=	1194		27		103		Yes
14:45 - 15:45	628	+	451	=	1079		23		118		Yes
13:45 - 14:45	446	+	418	=	864		18		82		Yes
11:45 - 12:45	429	+	433	=	862		28		93		Yes
17:45 - 18:45	473	+	380	=	853		17		98		Yes
12:45 - 13:45	415	+	403	=	818		10		87		Yes
10:45 - 11:45	352	+	422	=	774		30		83		Yes
09:45 - 10:45	313	+	406	=	719		24		72		Yes
18:45 - 19:45	324	+	312	=	636		12		93		Yes
07:45 - 08:45	279	+	570	=	849		35		26		No
07:30 - 08:30	273		570		843		30		18		No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	760	+	515	=	1275	24	113	Yes
16:45 - 17:45	682	+	512	=	1194	27	103	Yes
14:45 - 15:45	628	+	451	=	1079	23	118	Yes
13:45 - 14:45	446	+	418	=	864	18	82	Yes
11:45 - 12:45	429	+	433	=	862	28	93	Yes
17:45 - 18:45	473	+	380	=	853	17	98	Yes
07:45 - 08:45	279	+	570	=	849	35	26	Yes
12:45 - 13:45	415	+	403	=	818	10	87	Yes
06:45 - 07:45	186	+	598	=	784	35	15	Yes
10:45 - 11:45	352	+	422	=	774	30	83	Yes
08:45 - 09:45	310	+	460	=	770	30	45	Yes
09:45 - 10:45	313		406		719	24	72	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2657

Study Date : 08/13/2026

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.

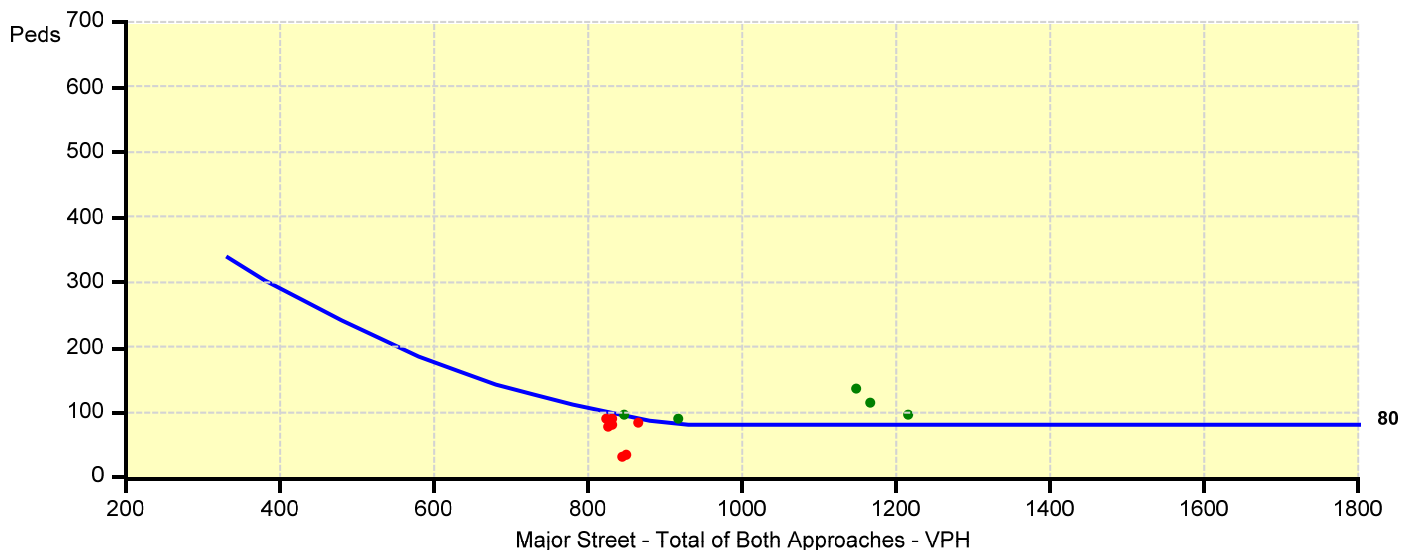
Summary

5 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 = **2 or more**

Major Road CSAH 23						Minor Road Market Place Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:00 - 17:00	721	+	494	=	1215	25	95	Yes
17:00 - 18:00	659	+	508	=	1167	24	113	Yes
15:00 - 16:00	686	+	463	=	1149	24	135	Yes
14:00 - 15:00	492	+	426	=	918	19	89	Yes
11:15 - 12:15	403	+	443	=	846	32	96	Yes
13:45 - 14:45	446	+	418	=	864	18	82	No
07:45 - 08:45	279	+	570	=	849	35	26	No
07:30 - 08:30	273	+	570	=	843	30	18	No
12:30 - 13:30	408	+	424	=	832	13	80	No
13:00 - 14:00	408	+	423	=	831	14	88	No
13:30 - 14:30	417	+	411	=	828	18	87	No
12:15 - 13:15	413	+	414	=	827	19	78	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2657

Study Date : 08/13/2026

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

9 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 = **2 or more**

Major Road						Minor Road		
CSAH 23						Market Place Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
15:45 - 16:45	760	+	515	=	1275	24	113	Yes
16:30 - 17:30	707	+	541	=	1248	30	114	Yes
15:30 - 16:30	747	+	490	=	1237	20	117	Yes
16:15 - 17:15	714	+	506	=	1220	29	112	Yes
15:15 - 16:15	727	+	470	=	1197	22	121	Yes
16:45 - 17:45	682	+	512	=	1194	27	103	Yes
17:00 - 18:00	659	+	508	=	1167	24	113	Yes
15:00 - 16:00	686	+	463	=	1149	24	135	Yes
14:45 - 15:45	628	+	451	=	1079	23	118	Yes
16:00 - 17:00	721	+	494	=	1215	25	95	No
17:15 - 18:15	607	+	471	=	1078	21	104	No
14:30 - 15:30	592	+	428	=	1020	22	102	No

