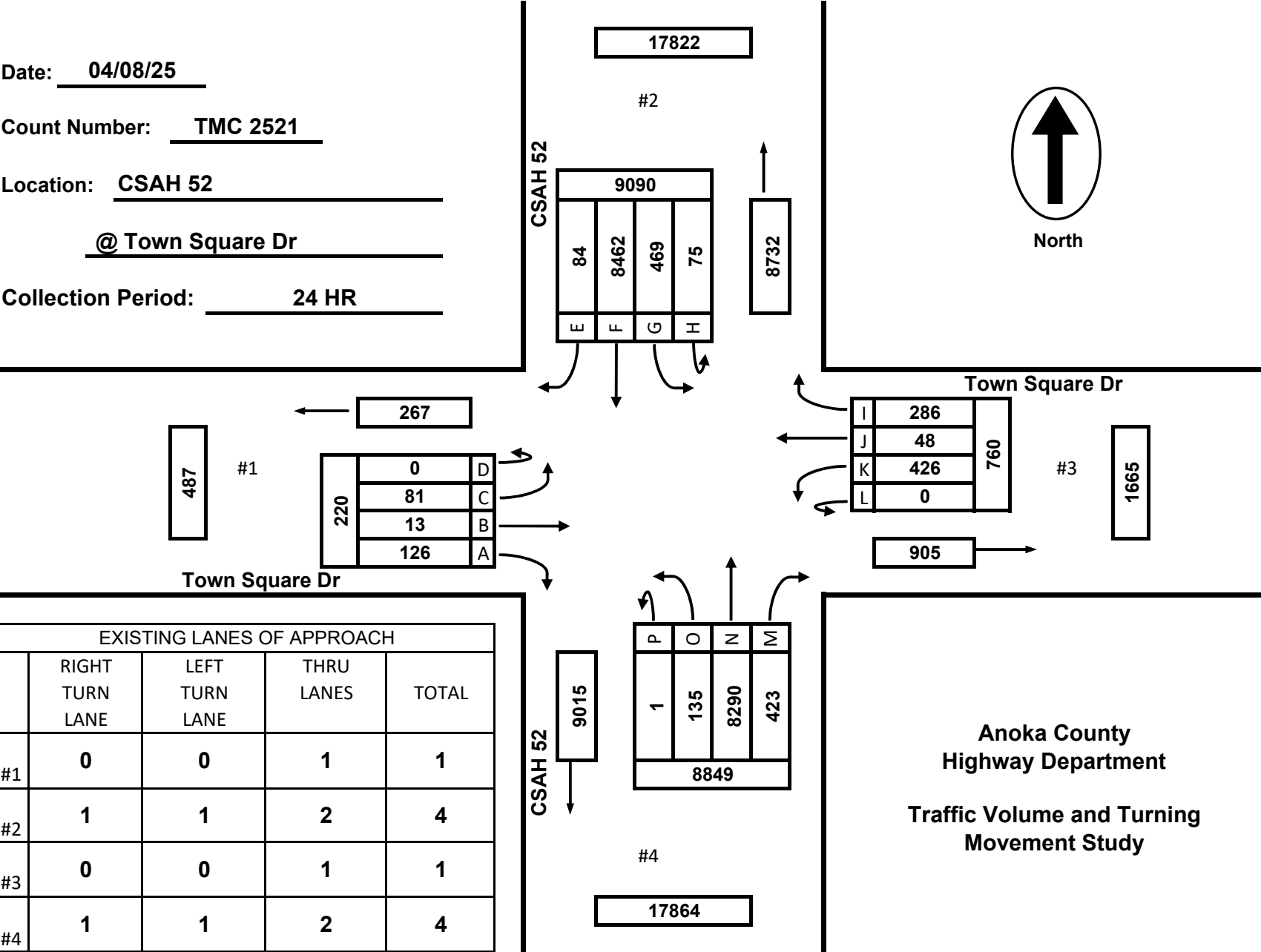


Date: 04/08/25
Count Number: TMC 2521
Location: CSAH 52
@ Town Square Dr
Collection Period: 24 HR



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

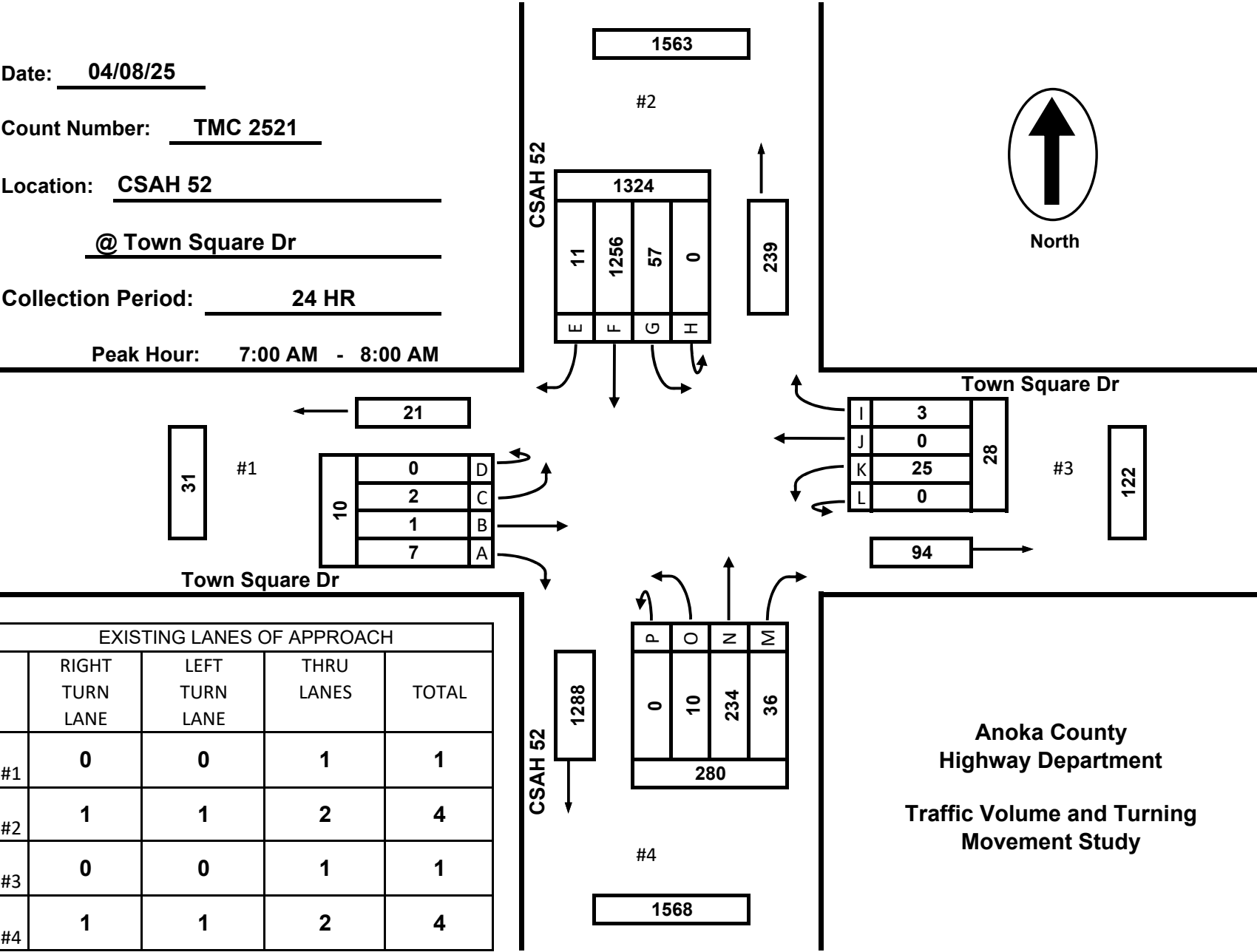
Date: 04/08/25

Count Number: TMC 2521

Location: CSAH 52
@ Town Square Dr

Collection Period: 24 HR

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



Date: 04/08/25

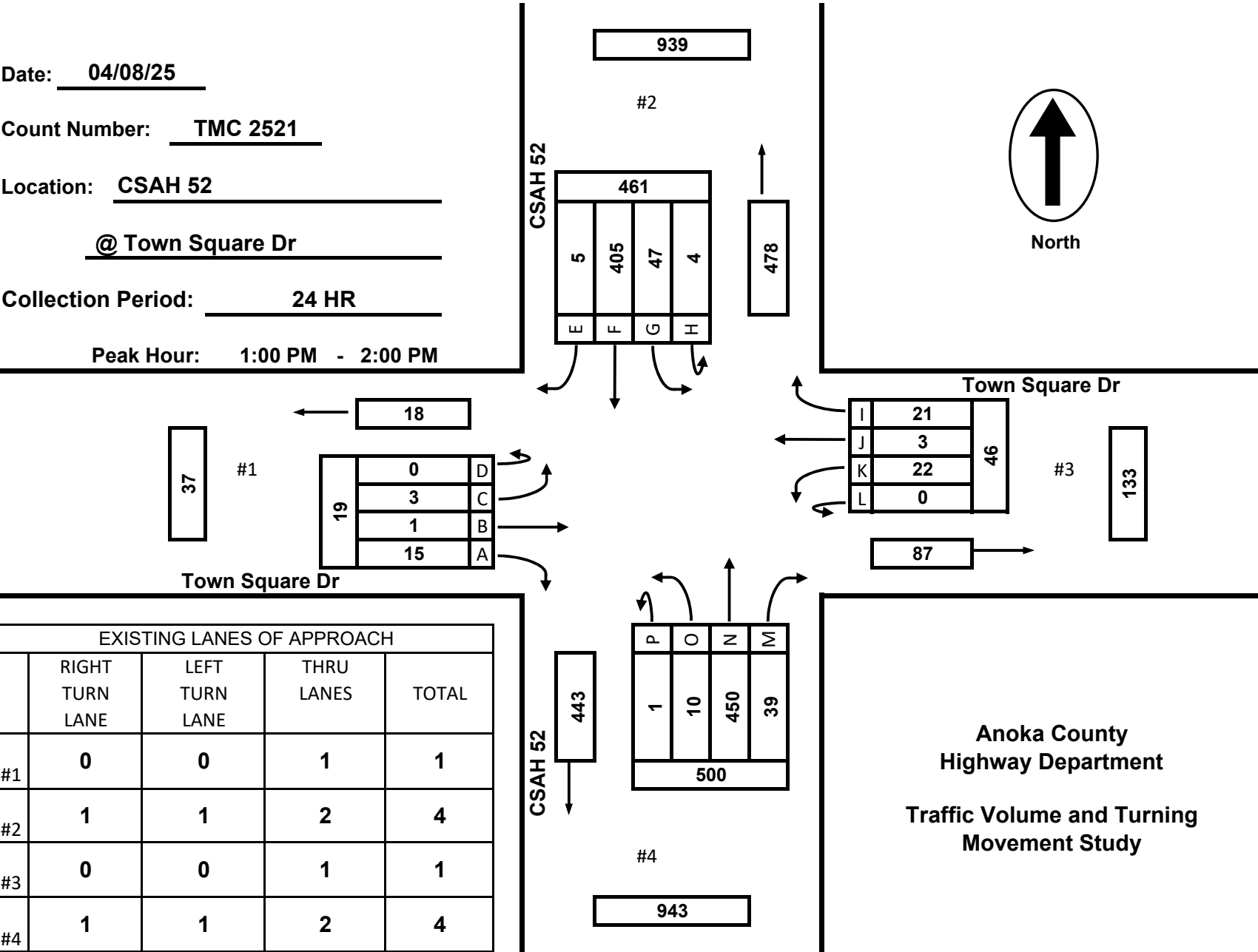
Count Number: TMC 2521

Location: CSAH 52

@ Town Square Dr

Collection Period: 24 HR

Peak Hour: 1:00 PM - 2:00 PM



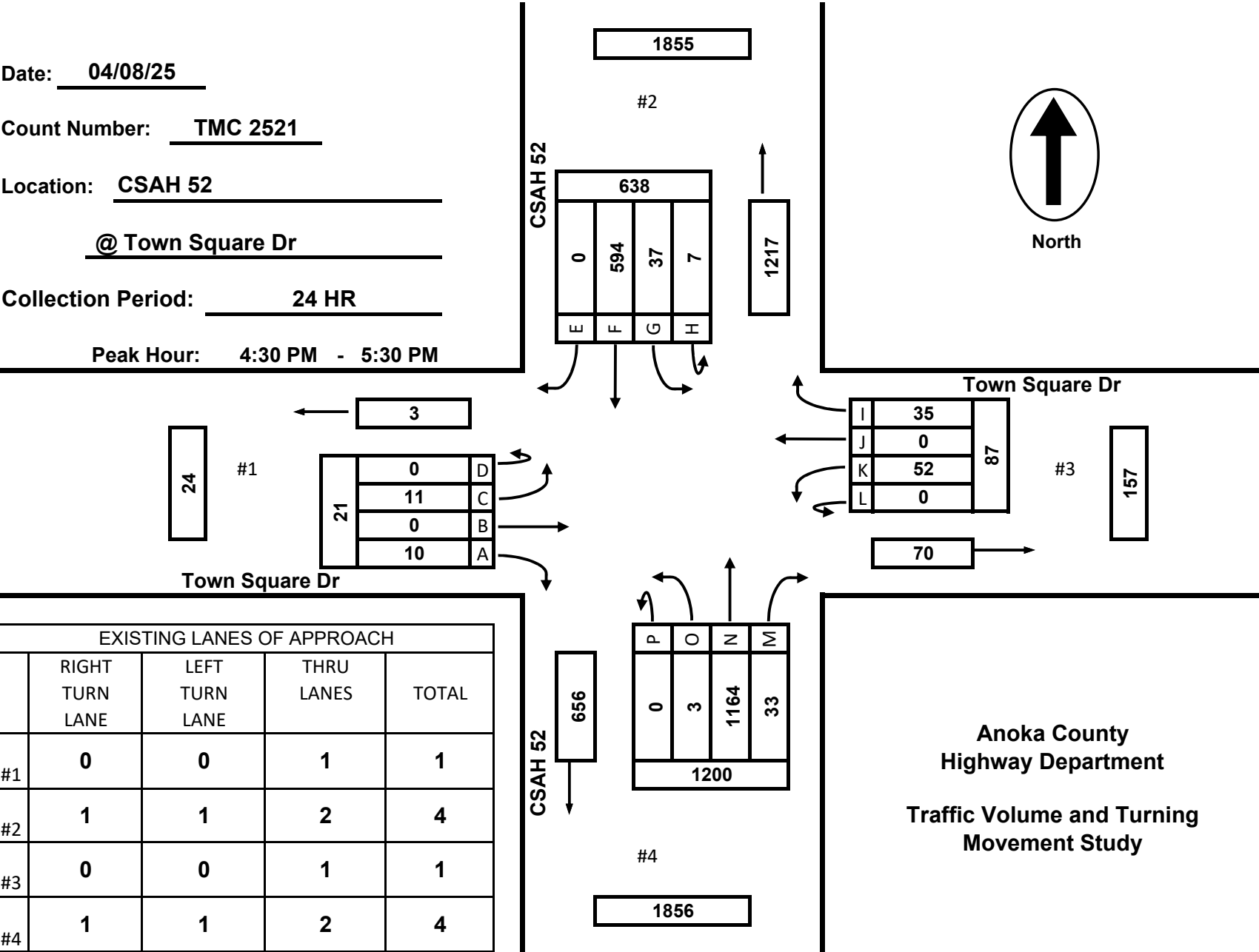
Date: 04/08/25

Count Number: TMC 2521

Location: CSAH 52
@ Town Square Dr

Collection Period: 24 HR

Peak Hour: 4:30 PM - 5:30 PM



**TMC 2521 - CSAH 52 @ Town Square Dr
Blaine MN
Tuesday, April 8, 2025**

	Southbound CSAH 52						Westbound Town Square Dr						Northbound CSAH 52						Eastbound Town Square Dr							
Time	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	VEHICLE TOTAL	
12:00 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	23
12:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	7	0	0	0	7	0	0	0	0	0	0	9
12:30 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	11	0	0	0	11	0	0	0	0	0	0	15
12:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	9
Hourly Total	0	0	14	0	0	14	0	0	0	0	0	0	0	0	42	0	0	0	42	0	0	0	0	0	0	56
1:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	12
1:15 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	9
1:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	5
1:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	4
Hourly Total	0	0	11	0	0	11	0	0	0	0	0	0	0	0	19	0	0	0	19	0	0	0	0	0	0	30
2:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	0	0	9
2:15 AM	0	0	3	0	0	3	0	1	0	1	0	2	0	0	5	0	0	5	0	0	0	0	0	0	0	10
2:30 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	1	0	1	12	
2:45 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	0	2
Hourly Total	0	0	12	0	0	12	0	1	0	1	0	2	0	0	17	1	0	18	0	0	0	1	0	1	1	33
3:00 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	6
3:15 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	11
3:30 AM	0	0	11	0	0	11	0	1	0	0	0	1	0	0	6	0	0	6	0	0	0	1	0	1	19	
3:45 AM	0	0	14	1	0	15	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	0	18
Hourly Total	0	0	39	1	0	40	0	1	0	0	0	1	0	1	10	1	0	12	0	0	0	1	0	1	1	54
4:00 AM	0	0	20	0	0	20	0	1	1	0	0	2	0	0	3	0	0	3	0	0	0	0	0	0	0	25
4:15 AM	0	0	29	0	0	29	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	32
4:30 AM	0	0	28	1	0	29	0	1	0	0	0	1	0	0	4	0	0	4	0	0	1	0	0	1	35	
4:45 AM	0	0	31	4	0	35	0	2	0	0	0	2	0	1	8	0	0	9	0	0	0	1	0	1	47	
Hourly Total	0	0	108	5	0	113	0	5	1	0	0	6	0	1	17	0	0	18	0	0	1	1	0	2	2	139
5:00 AM	0	0	61	0	0	61	0	0	0	1	0	1	0	1	4	1	0	6	0	0	0	0	0	0	0	68
5:15 AM	0	1	74	2	0	77	0	0	0	0	0	0	0	2	12	0	0	14	0	0	0	0	0	0	0	91
5:30 AM	0	0	110	1	0	111	0	0	0	0	0	0	0	1	22	1	0	24	0	0	0	0	0	0	0	135
5:45 AM	0	1	107	3	0	111	0	2	0	0	0	2	0	5	19	2	0	26	0	0	0	0	0	0	0	139
Hourly Total	0	2	352	6	0	360	0	2	0	1	0	3	0	9	57	4	0	70	0	0	0	0	0	0	0	433
6:00 AM	0	1	147	3	0	151	0	4	0	0	0	4	0	1	20	4	0	25	0	0	0	1	0	1	1	181
6:15 AM	0	6	171	3	0	180	0	1	1	0	0	2	0	3	25	3	0	31	0	0	0	0	0	0	0	213
6:30 AM	0	7	224	1	0	232	0	2	0	0	0	2	0	2	29	9	0	40	0	0	0	2	0	2	2	276
6:45 AM	0	8	245	3	0	256	0	6	1	1	0	8	0	3	35	6	0	44	0	1	0	0	0	1	1	309
Hourly Total	0	22	787	10	0	819	0	13	2	1	0	16	0	9	109	22	0	140	0	1	0	3	0	4	4	979
7:00 AM	0	10	261	1	0	272	0	4	0	0	0	4	0	1	50	5	0	56	0	1	0	0	0	1	1	333
7:15 AM	0	7	331	4	0	342	0	8	0	1	0	9	0	6	45	12	0	63	0	0	0	2	0	2	2	416
7:30 AM	0	12	364	4	0	380	0	7	0	1	0	8	0	2	69	8	0	79	0	1	0	3	0	4	4	471
7:45 AM	0	28	300	2	0	330	0	6	0	1	0	7	0	1	70	11	0	82	0	0	1	2	0	3	3	422
Hourly Total	0	57	1256	11	0	1324	0	25	0	3	0	28	0	10	234	36	0	280	0	2	1	7	0	10	10	1642

**TMC 2521 - CSAH 52 @ Town Square Dr
Blaine MN
Tuesday, April 8, 2025**

Time	Southbound CSAH 52						Westbound Town Square Dr						Northbound CSAH 52						Eastbound Town Square 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	13	218	1	0	232	0	6	3	7	0	16	0	3	66	6	0	75	0	1	0	3	0	4	327
8:15 AM	2	9	194	0	0	205	0	5	0	3	0	8	0	3	53	10	0	66	0	1	0	2	0	3	282
8:30 AM	0	14	174	3	0	191	0	7	0	5	0	12	0	3	58	10	0	71	0	1	1	0	0	2	276
8:45 AM	1	10	157	0	0	168	0	10	1	5	0	16	0	0	66	5	0	71	0	0	0	1	0	1	256
Hourly Total	3	46	743	4	0	796	0	28	4	20	0	52	0	9	243	31	0	283	0	3	1	6	0	10	1141
9:00 AM	2	10	131	3	0	146	0	4	0	10	0	14	0	3	68	6	0	77	0	1	1	0	0	2	239
9:15 AM	0	15	122	1	0	138	0	10	0	4	0	14	0	3	54	6	0	63	0	1	0	0	0	1	216
9:30 AM	2	7	119	1	0	129	0	7	0	4	0	11	0	2	56	6	0	64	0	1	0	2	0	3	207
9:45 AM	3	13	94	3	0	113	0	11	0	7	0	18	0	3	58	14	0	75	0	0	0	4	0	4	210
Hourly Total	7	45	466	8	0	526	0	32	0	25	0	57	0	11	236	32	0	279	0	3	1	6	0	10	872
10:00 AM	0	8	87	1	0	96	0	13	0	8	0	21	0	1	47	3	1	51	0	1	0	0	2	1	169
10:15 AM	1	8	79	1	0	89	0	9	0	6	0	15	0	2	50	6	0	58	0	0	1	3	0	4	166
10:30 AM	1	5	98	4	0	108	0	6	2	5	0	13	0	3	61	4	0	68	0	3	0	1	0	4	193
10:45 AM	1	10	70	2	0	83	0	4	0	8	0	12	0	4	71	9	0	84	0	1	0	2	0	3	182
Hourly Total	3	31	334	8	0	376	0	32	2	27	0	61	0	10	229	22	1	261	0	5	1	6	2	12	710
11:00 AM	0	7	96	2	0	105	0	10	0	6	0	16	0	3	72	5	0	80	0	2	0	4	0	6	207
11:15 AM	1	5	101	1	0	108	0	11	1	4	0	16	0	0	84	7	0	91	0	1	0	5	0	6	221
11:30 AM	2	9	101	2	0	114	0	7	0	7	0	14	0	3	84	7	0	94	0	1	0	2	0	3	225
11:45 AM	4	11	77	4	0	96	0	9	1	5	0	15	0	1	80	5	0	86	0	1	1	1	0	3	200
Hourly Total	7	32	375	9	0	423	0	37	2	22	0	61	0	7	320	24	0	351	0	5	1	12	0	18	853
12:00 PM	1	6	75	2	0	84	0	10	2	7	0	19	0	2	96	8	0	106	0	2	0	11	1	13	222
12:15 PM	1	6	100	2	0	109	0	4	1	6	0	11	0	2	94	9	0	105	0	2	0	2	1	4	229
12:30 PM	3	5	84	3	0	95	0	1	14	5	0	20	0	4	87	12	0	103	0	2	2	2	0	6	224
12:45 PM	2	11	96	1	0	110	0	3	12	2	0	17	0	3	82	19	0	104	0	2	0	3	0	5	236
Hourly Total	7	28	355	8	0	398	0	18	29	20	0	67	0	11	359	48	0	418	0	8	2	18	2	28	911
1:00 PM	0	11	95	1	0	107	0	11	0	6	0	17	0	2	93	8	0	103	0	1	1	3	0	5	232
1:15 PM	1	13	104	2	0	120	0	4	2	7	0	13	0	3	100	13	0	116	0	0	0	4	0	4	253
1:30 PM	1	9	108	2	0	120	0	3	1	6	0	10	0	1	128	6	0	135	0	2	0	5	0	7	272
1:45 PM	2	14	98	0	1	114	0	4	0	2	0	6	1	4	129	12	0	146	0	0	0	3	0	3	269
Hourly Total	4	47	405	5	1	461	0	22	3	21	0	46	1	10	450	39	0	500	0	3	1	15	0	19	1026
2:00 PM	2	13	87	1	0	103	0	5	2	14	0	21	0	0	123	11	0	134	0	1	0	1	1	2	260
2:15 PM	2	7	102	0	0	111	0	9	0	6	0	15	0	4	149	2	0	155	0	1	0	1	0	2	283
2:30 PM	0	3	105	0	0	108	0	9	0	9	0	18	0	6	164	9	0	179	0	1	0	3	0	4	309
2:45 PM	0	9	91	0	0	100	0	8	0	7	0	15	0	6	176	10	0	192	0	1	2	3	1	6	313
Hourly Total	4	32	385	1	0	422	0	31	2	36	0	69	0	16	612	32	0	660	0	4	2	8	2	14	1165
3:00 PM	2	15	112	2	0	131	0	7	0	10	0	17	0	6	209	7	0	222	0	3	1	4	0	8	378
3:15 PM	2	4	121	1	0	128	0	7	0	6	0	13	0	3	204	10	0	217	0	1	0	0	1	1	359
3:30 PM	1	7	127	1	0	136	0	10	0	10	0	20	0	4	261	11	0	276	0	7	0	3	2	10	442
3:45 PM	1	8	112	0	0	121	0	10	2	5	0	17	0	3	249	11	0	263	0	1	0	4	0	5	406
Hourly Total	6	34	472	4	0	516	0	34	2	31	0	67	0	16	923	39	0	978	0	12	1	11	3	24	1585

**TMC 2521 - CSAH 52 @ Town Square Dr
Blaine MN
Tuesday, April 8, 2025**

Time	Southbound CSAH 52						Westbound Town Square Dr						Northbound CSAH 52						Eastbound Town Square 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	3	5	109	0	0	117	0	14	0	12	0	26	0	2	328	10	1	340	0	5	0	7	0	12	495
4:15 PM	4	11	99	0	0	114	0	15	0	4	0	19	0	3	296	12	0	311	0	2	0	4	0	6	450
4:30 PM	2	12	127	0	0	141	0	17	0	15	0	32	0	1	273	10	0	284	0	3	0	4	0	7	464
4:45 PM	0	9	153	0	0	162	0	14	0	4	0	18	0	1	301	10	0	312	0	2	0	2	0	4	496
Hourly Total	9	37	488	0	0	534	0	60	0	35	0	95	0	7	1198	42	1	1247	0	12	0	17	0	29	1905
5:00 PM	1	10	143	0	0	154	0	13	0	12	0	25	0	0	271	7	0	278	0	6	0	3	1	9	466
5:15 PM	4	6	171	0	0	181	0	8	0	4	0	12	0	1	319	6	0	326	0	0	0	1	0	1	520
5:30 PM	1	4	145	0	0	150	0	6	0	4	0	10	0	2	282	7	0	291	0	2	0	2	0	4	455
5:45 PM	2	3	133	0	0	138	0	9	0	2	0	11	0	1	271	4	0	276	0	1	0	2	0	3	428
Hourly Total	8	23	592	0	0	623	0	36	0	22	0	58	0	4	1143	24	0	1171	0	9	0	8	1	17	1869
6:00 PM	2	9	126	0	0	137	0	6	0	1	0	7	0	1	186	3	0	190	0	2	0	0	0	2	336
6:15 PM	2	2	124	0	0	128	0	5	0	5	0	10	0	0	167	4	0	171	0	3	0	0	4	3	312
6:30 PM	1	2	119	0	0	122	0	5	0	0	0	5	0	1	202	2	0	205	0	3	0	1	2	4	336
6:45 PM	1	4	105	0	0	110	0	3	0	0	0	3	0	0	126	1	0	127	0	1	0	0	0	1	241
Hourly Total	6	17	474	0	0	497	0	19	0	6	0	25	0	2	681	10	0	693	0	9	0	1	6	10	1225
7:00 PM	0	1	99	0	0	100	0	5	0	2	0	7	0	0	128	3	0	131	0	1	0	0	0	1	239
7:15 PM	2	3	95	0	0	100	0	4	0	2	0	6	0	0	134	1	0	135	0	0	0	0	0	0	241
7:30 PM	2	0	57	0	0	59	0	4	0	1	0	5	0	0	128	2	0	130	0	1	0	1	0	2	196
7:45 PM	1	0	78	0	0	79	0	1	1	0	0	2	0	0	136	3	0	139	0	1	0	0	0	1	221
Hourly Total	5	4	329	0	0	338	0	14	1	5	0	20	0	0	526	9	0	535	0	3	0	1	0	4	897
8:00 PM	2	2	68	0	0	72	0	3	0	3	0	6	0	0	126	1	0	127	0	0	0	1	0	1	206
8:15 PM	0	0	66	0	0	66	0	4	0	0	0	4	0	1	90	1	0	92	0	2	0	0	0	2	164
8:30 PM	0	1	57	3	0	61	0	4	0	2	0	6	0	1	97	1	0	99	0	0	0	1	0	1	167
8:45 PM	0	3	48	0	0	51	0	0	0	3	0	3	0	0	84	0	0	84	0	0	0	0	0	0	138
Hourly Total	2	6	239	3	0	250	0	11	0	8	0	19	0	2	397	3	0	402	0	2	0	2	0	4	675
9:00 PM	2	0	44	0	0	46	0	0	0	1	0	1	0	0	73	2	0	75	0	0	0	1	2	1	123
9:15 PM	0	1	41	1	0	43	0	0	0	0	0	0	0	0	68	0	0	68	0	0	1	0	1	1	112
9:30 PM	0	1	26	0	0	27	0	1	0	0	0	1	0	0	89	0	0	89	0	0	0	0	1	0	117
9:45 PM	0	1	25	0	0	26	0	0	0	1	0	1	0	0	43	0	0	43	0	0	0	0	0	0	70
Hourly Total	2	3	136	1	0	142	0	1	0	2	0	3	0	0	273	2	0	275	0	0	1	1	4	2	422
10:00 PM	0	1	21	0	0	22	0	0	0	0	0	0	0	0	44	1	0	45	0	0	0	0	0	0	67
10:15 PM	1	0	14	0	0	15	0	0	0	0	0	0	0	0	25	1	0	26	0	0	0	0	0	0	41
10:30 PM	0	1	8	0	0	9	0	1	0	0	0	1	0	0	34	0	0	34	0	0	0	1	0	1	45
10:45 PM	1	0	8	0	0	9	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	29
Hourly Total	2	2	51	0	0	55	0	1	0	0	0	1	0	0	123	2	0	125	0	0	0	1	0	1	182
11:00 PM	0	0	8	0	0	8	0	1	0	0	0	1	0	0	25	0	0	25	0	0	0	0	0	0	34
11:15 PM	0	0	9	0	0	9	0	2	0	0	0	2	0	0	17	0	0	17	0	0	0	0	0	0	28
11:30 PM	0	1	10	0	0	11	0	0	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	0	28
11:45 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	25
Hourly Total	0	1	39	0	0	40	0	3	0	0	0	3	0	0	72	0	0	72	0	0	0	0	0	0	115
DAILY TOTAL	75	469	8462	84	1	9090	0	426	48	286	0	760	1	135	8290	423	2	8849	0	81	13	126	20	220	18919
Cars	75	469	8261	76	1	8881	0	420	45	285	0	750	0	123	8123	417	1	8663	0	78	12	111	12	201	18495
Heavy Vehicles	0	0	201	8	0	209	0	6	3	1	0	10	1	12	167	6	1	186	0	3	1	15	8	19	424
Heavy Vehicle %	0.00%	0.00%	2.38%	9.52%	0.00%	2.30%	0.00%	1.41%	6.25%	0.35%	0.00%	1.32%	100.00%	8.89%	2.01%	1.42%	50.00%	2.10%	0.00%	3.70%	7.69%	11.90%	40.00%	8.64%	2.24%

TMC 2521 - CSAH 52 @ Town Square Dr
Blaine MN
Tuesday, April 8, 2025
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	10	261	1	0	272	0	4	0	0	0	4	0	1	50	5	0	56	0	1	0	0	0	1	333
7:15 AM	0	7	331	4	0	342	0	8	0	1	0	9	0	6	45	12	0	63	0	0	0	2	0	2	416
7:30 AM	0	12	364	4	0	380	0	7	0	1	0	8	0	2	69	8	0	79	0	1	0	3	0	4	471
7:45 AM	0	28	300	2	0	330	0	6	0	1	0	7	0	1	70	11	0	82	0	0	1	2	0	3	422
Peak Hour Total	0	57	1256	11	0	1324	0	25	0	3	0	28	0	10	234	36	0	280	0	2	1	7	0	10	1642
Peak Hour Heavy Vehicles	0	0	24	0	0	24	0	1	0	0	0	1	0	0	12	1	0	13	0	0	0	1	0	1	39
Peak Hour Heavy Vehicles %	0.00%	0.00%	1.91%	0.00%	0.00%	1.81%	0.00%	4.00%	0.00%	0.00%	0.00%	3.57%	0.00%	0.00%	5.13%	2.78%	0.00%	4.64%	0.00%	0.00%	0.00%	14.29%	0.00%	10.00%	2.38%
PHF	0.000	0.509	0.863	0.688	0.000	0.871	0.000	0.781	0.000	0.750	0.000	0.778	0.000	0.417	0.836	0.750	0.000	0.854	0.000	0.500	0.250	0.583	0.000	0.625	0.872

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	
1:00 PM	0	11	95	1	0	107	0	11	0	6	0	17	0	2	93	8	0	103	0	1	1	3	0	5	232
1:15 PM	1	13	104	2	0	120	0	4	2	7	0	13	0	3	100	13	0	116	0	0	0	4	0	4	253
1:30 PM	1	9	108	2	0	120	0	3	1	6	0	10	0	1	128	6	0	135	0	2	0	5	0	7	272
1:45 PM	2	14	98	0	1	114	0	4	0	2	0	6	1	4	129	12	0	146	0	0	0	3	0	3	269
Peak Hour Total	4	47	405	5	1	461	0	22	3	21	0	46	1	10	450	39	0	500	0	3	1	15	0	19	1026
Peak Hour Heavy Vehicles	0	0	12	1	0	13	0	0	1	0	0	1	0	1	13	0	0	15	0	0	0	1	0	1	30
Peak Hour Heavy Vehicles %	0.00%	0.00%	2.96%	20.00%	0.00%	2.82%	0.00%	0.00%	33.33%	0.00%	0.00%	2.17%	100.00%	10.00%	2.89%	0.00%	0.00%	3.00%	0.00%	0.00%	0.00%	6.67%	0.00%	5.26%	2.92%
PHF	0.500	0.839	0.938	0.625	0.250	0.960	0.000	0.500	0.375	0.750	0.000	0.676	0.250	0.625	0.872	0.750	0.000	0.856	0.000	0.375	0.250	0.750	0.000	0.679	0.943

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	
4:30 PM	2	12	127	0	0	141	0	17	0	15	0	32	0	1	273	10	0	284	0	3	0	4	0	7	464
4:45 PM	0	9	153	0	0	162	0	14	0	4	0	18	0	1	301	10	0	312	0	2	0	2	0	4	496
5:00 PM	1	10	143	0	0	154	0	13	0	12	0	25	0	0	271	7	0	278	0	6	0	3	1	9	466
5:15 PM	4	6	171	0	0	181	0	8	0	4	0	12	0	1	319	6	0	326	0	0	0	1	0	1	520
Peak Hour Total	7	37	594	0	0	638	0	52	0	35	0	87	0	3	1164	33	0	1200	0	11	0	10	1	21	1946
Peak Hour Heavy Vehicles	0	0	12	0	0	12	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	1	1	1	26
Peak Hour Heavy Vehicles %	0.00%	0.00%	2.02%	0.00%	0.00%	1.88%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.12%	0.00%	0.00%	1.08%	0.00%	0.00%	0.00%	10.00%	100.00%	4.76%	1.34%
PHF	0.438	0.771	0.868	0.000	0.000	0.881	0.000	0.765	0.000	0.583	0.000	0.680	0.000	0.750	0.912	0.825	0.000	0.920	0.000	0.458	0.000	0.625	0.250	0.583	0.936

Total Vehicles On Leg			17822		
Vehicles Entering 9090			Vehicles Exiting 8732		
Intersection			Intersection		
Southbound			Northbound		
Cars	76	8261	469	75	1
Heavy	8	201	0	0	0
Total	84	8462	469	75	1



Daily Volumes

Total Vehicles on Leg 487	Entering Intersection 220	Eastbound	Cars	Heavy	Total
			12	8	20
			0	0	0
	Exiting Intersection 267		78	3	81
			12	1	13
			111	15	126

Cars	Heavy	Total	Westbound	Entering Intersection 760	Total Vehicles on Leg 1665
285	1	286			
45	3	48			
420	6	426		Exiting Intersection 905	
0	0	0			
0	0	0			

Cars	1	0	123	8123	417
Heavy	1	1	12	167	6
Total	2	1	135	8290	423
Northbound			Southbound		
Vehicles Entering 8849			Vehicles Exiting 9015		
Intersection			Intersection		
Total Vehicles On Leg			17864		

**TMC 2521 - CSAH 52 @ Town Square Dr
Blaine MN
Tuesday, April 8, 2025**

Time	Southbound Heavy CSAH 52						Westbound Heavy Town Square Dr						Northbound Heavy CSAH 52						Eastbound Heavy Town Square 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	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0
1:00 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
1:15 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
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3:00 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
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	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
4:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	2
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 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	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	2
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
5:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	3
5:30 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
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	3	2	0	0	5	0	0	0	0	0	0	6
6:00 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	7	1	0	8	0	0	0	0	0	0	10
6:15 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
6:30 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	13
6:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	1	3	1	0	5	0	0	0	0	0	0	9
Hourly 'Heavy Vehicles'	0	0	15	1	0	16	0	0	0	0	0	0	0	1	18	2	0	21	0	0	0	0	0	0	37
7:00 AM	0	0	7	0	0	7	0	1	0	0	0	1	0	0	6	0	0	6	0	0	0	0	0	0	14
7:15 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
7:30 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	4	1	0	5	0	0	0	1	0	1	13
7:45 AM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Hourly 'Heavy Vehicles'	0	0	24	0	0	24	0	1	0	0	0	1	0	0	12	1	0	13	0	0	0	1	0	1	39

**TMC 2521 - CSAH 52 @ Town Square Dr
Blaine MN
Tuesday, April 8, 2025**

	Southbound Heavy CSAH 52						Westbound Heavy Town Square Dr						Northbound Heavy CSAH 52						Eastbound Heavy Town Square 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'		
8:00 AM	0	0	3	0	0	3	0	0	1	0	0	1	0	0	5	0	0	0	5	0	0	0	0	0	0	9
8:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	9
8:30 AM	0	0	4	0	0	4	0	1	0	0	0	1	0	1	3	0	0	0	4	0	0	0	0	0	0	9
8:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	1	0	1	5
Hourly 'Heavy Vehicles'	0	0	12	0	0	12	0	1	1	0	0	2	0	1	16	0	0	0	17	0	0	0	1	0	1	32
9:00 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	8
9:15 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	16
9:30 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	7
9:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	2	0	2	9
Hourly 'Heavy Vehicles'	0	0	24	0	0	24	0	0	0	0	0	0	0	0	14	0	0	0	14	0	0	0	2	0	2	40
10:00 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	1	4	1	0	0	6	0	0	0	0	0	0	11
10:15 AM	0	0	2	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	2	5
10:30 AM	0	0	5	0	0	5	0	0	1	1	0	2	0	0	2	0	0	0	2	0	1	0	0	0	1	10
10:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	9
Hourly 'Heavy Vehicles'	0	0	16	0	0	16	0	1	1	1	0	3	0	1	11	1	0	0	13	0	1	1	1	0	3	35
11:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	1	4	0	0	0	5	0	0	0	0	0	0	9
11:15 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	8
11:30 AM	0	0	7	2	0	9	0	1	0	0	0	1	0	0	5	0	0	0	5	0	0	0	0	0	0	15
11:45 AM	0	0	5	1	0	6	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	1	0	1	10
Hourly 'Heavy Vehicles'	0	0	21	3	0	24	0	1	0	0	0	1	0	1	15	0	0	0	16	0	0	0	1	0	1	42
12:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	6
12:15 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	0	4	0	1	0	1	0	2	10
12:30 PM	0	0	6	1	0	7	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	12
12:45 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	15	1	0	16	0	0	0	0	0	0	0	0	14	0	0	0	14	0	1	0	1	0	2	32
1:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	6
1:15 PM	0	0	1	1	0	2	0	0	1	0	0	1	0	1	1	0	0	0	2	0	0	0	1	0	1	6
1:30 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	11
1:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	1	0	4	0	0	0	5	0	0	0	0	0	0	7
Hourly 'Heavy Vehicles'	0	0	12	1	0	13	0	0	1	0	0	1	1	1	13	0	0	0	15	0	0	0	1	0	1	30
2:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	1	0	0	5	0	0	0	0	1	0	9
2:15 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	5
2:30 PM	0	0	7	0	0	7	0	1	0	0	0	1	0	2	1	0	0	0	3	0	0	0	1	0	1	12
2:45 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	2	1	2	11
Hourly 'Heavy Vehicles'	0	0	21	0	0	21	0	1	0	0	0	1	0	3	8	1	0	0	12	0	0	0	3	2	3	37
3:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	3
3:15 PM	0	0	7	1	0	8	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	0	9
3:30 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	1	2	1	10
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	12	1	0	13	0	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	2	3	2	24

TMC 2521 - CSAH 52 @ Town Square Dr
Blaine MN
Tuesday, April 8, 2025

Time	Southbound Heavy CSAH 52						Westbound Heavy Town Square Dr						Northbound Heavy CSAH 52						Eastbound Heavy Town Square 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'	
4:00 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	6	0	1	7	0	0	0	0	0	0	10
4:15 PM	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
4:30 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	12
4:45 PM	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
Hourly 'Heavy Vehicles'	0	0	19	0	0	19	0	0	0	0	0	0	0	1	17	0	1	18	0	0	0	1	0	1	38
5:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	1	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	4
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	2
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	10	0	0	10	0	1	0	1	1	2	13
6:00 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	1
6:15 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	2
6:30 PM	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
6:45 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	1
Hourly 'Heavy Vehicles'	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
7:00 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	1
7:15 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
7:30 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
7:45 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	2
Hourly 'Heavy Vehicles'	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
8:00 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
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
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
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	1
Hourly 'Heavy Vehicles'	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
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
9:15 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9:30 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
9:45 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
Hourly 'Heavy Vehicles'	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2	0	3
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
10:15 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
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
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
Hourly 'Heavy Vehicles'	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
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
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
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
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
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
DAILY 'Heavy Vehicles'	0	0	201	8	0	209	0	6	3	1	0	10	1	12	167	6	1	186	0	3	1	15	8	19	424

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2521

Study Date : 04/23/2025

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 52

Number of Lanes : 2+

Total Approach Volume: 8,849

Southbound: CSAH 52

Number of Lanes :2+

Total Approach Volume: 9,090

Minor Street Approaches

Eastbound: Town Square Dr

Number of Lanes :1

Total Approach Volume: 94

Westbound: Town Square Dr

Number of Lanes :1

Total Approach Volume: 474

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 1 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 3 hours, 8 are needed

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

Number of hours (1) 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: TMC 2521

Study Date : 04/23/2025

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 = **420**

Veh/Hr Minor = **105**

Major Road						Minor Road			
CSAH 52						Town Square Dr			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:45 - 17:45	1207	+	647	=	1854	10	41	No	
16:30 - 17:30	1200	+	638	=	1838	11	52	No	
17:00 - 18:00	1171	+	623	=	1794	9	36	No	
16:00 - 17:00	1247	+	534	=	1781	12	60	No	
16:15 - 17:15	1185	+	571	=	1756	13	59	No	
15:45 - 16:45	1198	+	493	=	1691	11	58	No	
17:15 - 18:15	1083	+	606	=	1689	5	29	No	
15:30 - 16:30	1190	+	488	=	1678	15	51	No	
07:00 - 08:00	280	+	1324	=	1604	3	25	No	
15:15 - 16:15	1096	+	502	=	1598	14	43	No	
07:15 - 08:15	299	+	1284	=	1583	3	30	No	
15:00 - 16:00	978	+	516	=	1494	13	36	No	
06:45 - 07:45	242	+	1250	=	1492	3	26	No	
17:30 - 18:30	928	+	553	=	1481	8	26	No	
07:30 - 08:30	302	+	1147	=	1449	4	27	No	
14:45 - 15:45	907	+	495	=	1402	15	32	No	
17:45 - 18:45	842	+	525	=	1367	9	25	No	
06:30 - 07:30	203	+	1102	=	1305	2	21	No	
14:30 - 15:30	810	+	467	=	1277	9	31	No	
07:45 - 08:45	294	+	958	=	1252	5	27	No	
14:15 - 15:15	748	+	450	=	1198	9	33	No	
18:00 - 19:00	693	+	497	=	1190	9	19	No	
06:15 - 07:15	171	+	940	=	1111	2	15	No	
18:15 - 19:15	634	+	460	=	1094	8	18	No	
14:00 - 15:00	660		422		1082	6	33	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2521

Study Date : 04/23/2025

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 1 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 = **630**

Veh/Hr Minor = **53**

Major Road						Minor Road		
CSAH 52						Town Square Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
15:45 - 16:45	1198	+	493	=	1691	11	58	Yes
16:45 - 17:45	1207	+	647	=	1854	10	41	No
17:00 - 18:00	1171	+	623	=	1794	9	36	No
17:15 - 18:15	1083	+	606	=	1689	5	29	No
15:30 - 16:30	1190	+	488	=	1678	15	51	No
07:00 - 08:00	280	+	1324	=	1604	3	25	No
15:15 - 16:15	1096	+	502	=	1598	14	43	No
07:15 - 08:15	299	+	1284	=	1583	3	30	No
15:00 - 16:00	978	+	516	=	1494	13	36	No
06:45 - 07:45	242	+	1250	=	1492	3	26	No
17:30 - 18:30	928	+	553	=	1481	8	26	No
07:30 - 08:30	302	+	1147	=	1449	4	27	No
14:45 - 15:45	907	+	495	=	1402	15	32	No
17:45 - 18:45	842	+	525	=	1367	9	25	No
06:30 - 07:30	203	+	1102	=	1305	2	21	No
14:30 - 15:30	810	+	467	=	1277	9	31	No
07:45 - 08:45	294	+	958	=	1252	5	27	No
14:15 - 15:15	748	+	450	=	1198	9	33	No
18:00 - 19:00	693	+	497	=	1190	9	19	No
06:15 - 07:15	171	+	940	=	1111	2	15	No
18:15 - 19:15	634	+	460	=	1094	8	18	No
14:00 - 15:00	660	+	422	=	1082	6	33	No
08:00 - 09:00	283	+	796	=	1079	4	32	No
13:45 - 14:45	614	+	436	=	1050	3	29	No
18:30 - 19:30	598		432		1030	5	17	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2521

Study Date : 04/23/2025

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.
Only 3 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 = **336 504**

Veh/Hr Minor = **84 42**

Major Road						Minor Road				
CSAH 52						Town Square Dr				
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1A?
16:45 - 17:45	1207	+	647	=	1854	10		41		No
16:30 - 17:30	1200	+	638	=	1838	11		52		No
17:00 - 18:00	1171	+	623	=	1794	9		36		No
16:00 - 17:00	1247	+	534	=	1781	12		60		No
16:15 - 17:15	1185	+	571	=	1756	13		59		No
15:45 - 16:45	1198	+	493	=	1691	11		58		No
17:15 - 18:15	1083	+	606	=	1689	5		29		No
15:30 - 16:30	1190	+	488	=	1678	15		51		No
07:00 - 08:00	280	+	1324	=	1604	3		25		No
15:15 - 16:15	1096	+	502	=	1598	14		43		No
07:15 - 08:15	299	+	1284	=	1583	3		30		No
15:00 - 16:00	978	+	516	=	1494	13		36		No

Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1B?
16:15 - 17:15	1185	+	571	=	1756	13		59		Yes
15:15 - 16:15	1096	+	502	=	1598	14		43		Yes
11:45 - 12:45	400	+	384	=	784	10		42		Yes
17:15 - 18:15	1083	+	606	=	1689	5		29		No
07:00 - 08:00	280	+	1324	=	1604	3		25		No
07:15 - 08:15	299	+	1284	=	1583	3		30		No
15:00 - 16:00	978	+	516	=	1494	13		36		No
06:45 - 07:45	242	+	1250	=	1492	3		26		No
17:30 - 18:30	928	+	553	=	1481	8		26		No
07:30 - 08:30	302	+	1147	=	1449	4		27		No
14:45 - 15:45	907	+	495	=	1402	15		32		No
17:45 - 18:45	842	+	525	=	1367	9		25		No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2521

Study Date : 04/23/2025

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.

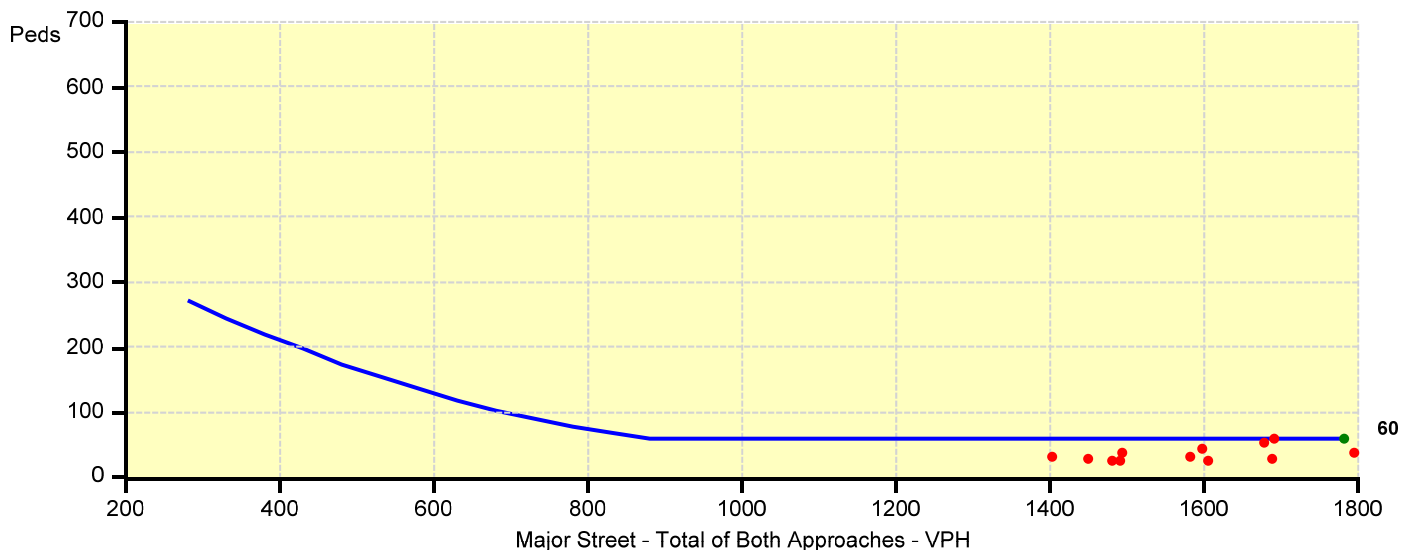
Summary

Only 1 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**

Major Road						Minor Road		
CSAH 52						Town Square Dr		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
16:00 - 17:00	1247	+	534	=	1781	12	60	Yes
17:00 - 18:00	1171	+	623	=	1794	9	36	No
15:45 - 16:45	1198	+	493	=	1691	11	58	No
17:15 - 18:15	1083	+	606	=	1689	5	29	No
15:30 - 16:30	1190	+	488	=	1678	15	51	No
07:00 - 08:00	280	+	1324	=	1604	3	25	No
15:15 - 16:15	1096	+	502	=	1598	14	43	No
07:15 - 08:15	299	+	1284	=	1583	3	30	No
15:00 - 16:00	978	+	516	=	1494	13	36	No
06:45 - 07:45	242	+	1250	=	1492	3	26	No
17:30 - 18:30	928	+	553	=	1481	8	26	No
07:30 - 08:30	302	+	1147	=	1449	4	27	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2521

Study Date : 04/23/2025

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**

Major Road						Minor Road			
CSAH 52						Town Square Dr			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:45 - 17:45	1207	+	647	=	1854	10	41	No	
16:30 - 17:30	1200	+	638	=	1838	11	52	No	
17:00 - 18:00	1171	+	623	=	1794	9	36	No	
16:00 - 17:00	1247	+	534	=	1781	12	60	No	
16:15 - 17:15	1185	+	571	=	1756	13	59	No	
15:45 - 16:45	1198	+	493	=	1691	11	58	No	
17:15 - 18:15	1083	+	606	=	1689	5	29	No	
15:30 - 16:30	1190	+	488	=	1678	15	51	No	
07:00 - 08:00	280	+	1324	=	1604	3	25	No	
15:15 - 16:15	1096	+	502	=	1598	14	43	No	
07:15 - 08:15	299	+	1284	=	1583	3	30	No	
15:00 - 16:00	978	+	516	=	1494	13	36	No	

