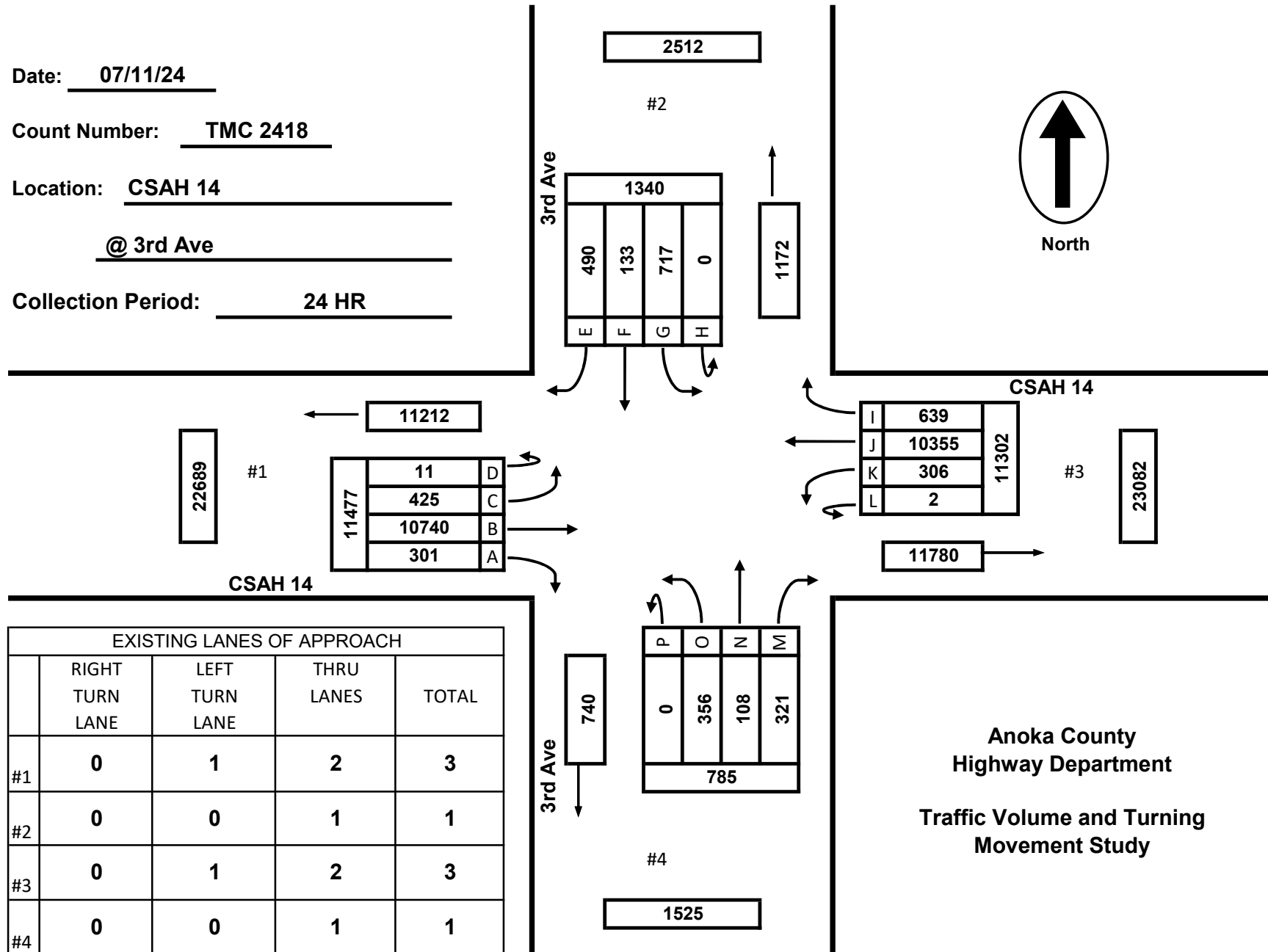
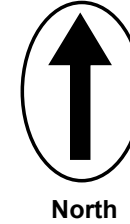


Date: 07/11/24

Count Number: TMC 2418

Location: CSAH 14
@ 3rd Ave

Collection Period: 24 HR



2512

#2

3rd Ave

1340			
490	133	717	0
E	F	G	H

1172

CSAH 14

22689

#1

11212

11477	11	D
	425	C
	10740	B
	301	A

CSAH 14

I	639	11302
J	10355	
K	306	
L	2	

#3

23082

11780

3rd Ave

740

P	O	N	M
0	356	108	321
785			

#4

1525

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

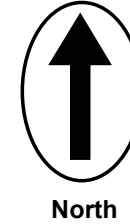
Date: 07/11/24

Count Number: TMC 2418

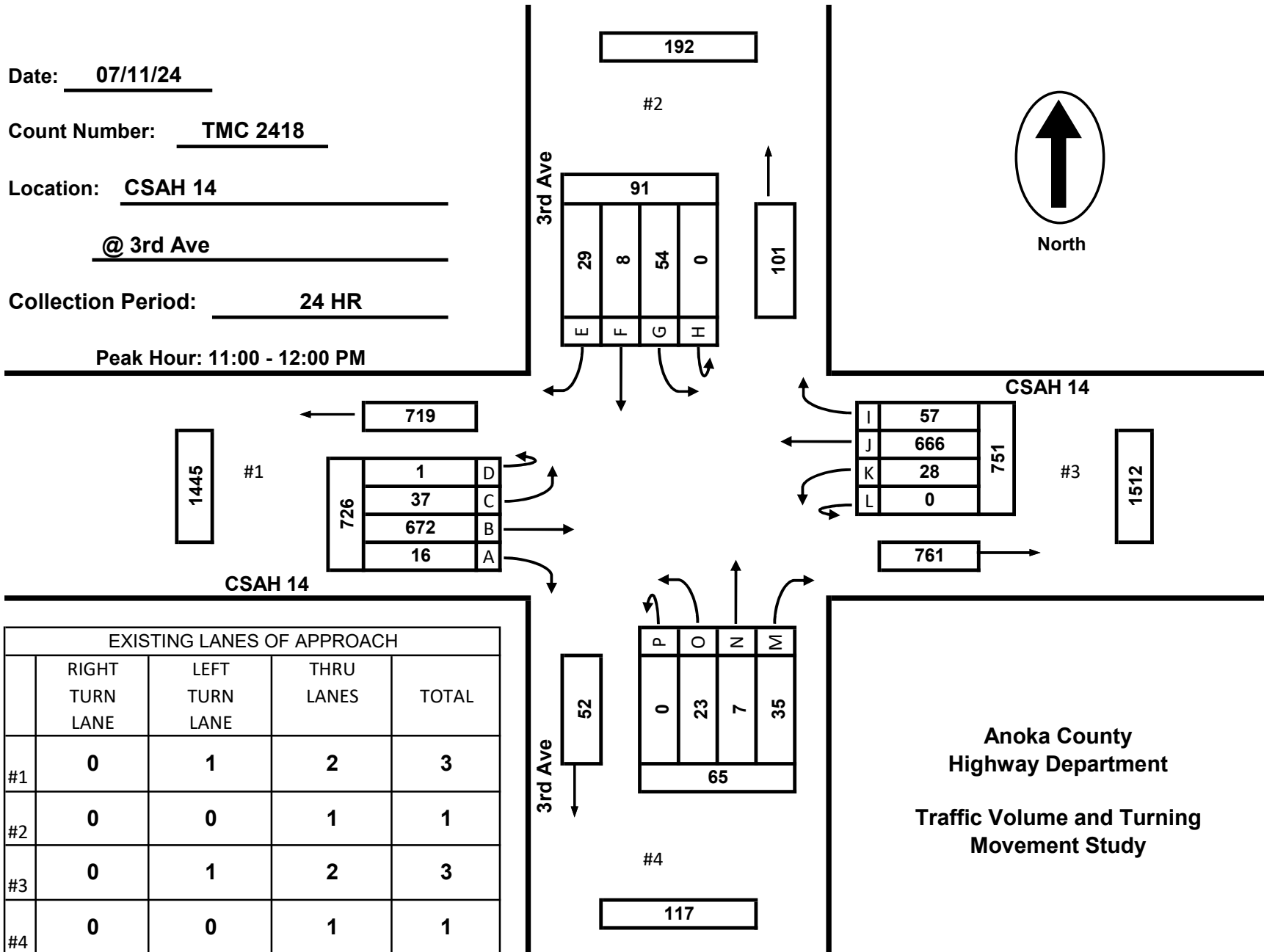
Location: CSAH 14
@ 3rd Ave

Collection Period: 24 HR

Peak Hour: 11:00 - 12:00 PM



North



726	1	D
	37	C
	672	B
	16	A

I	57	751
J	666	
K	28	
L	0	

P	O	N	M
0	23	7	35
65			

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

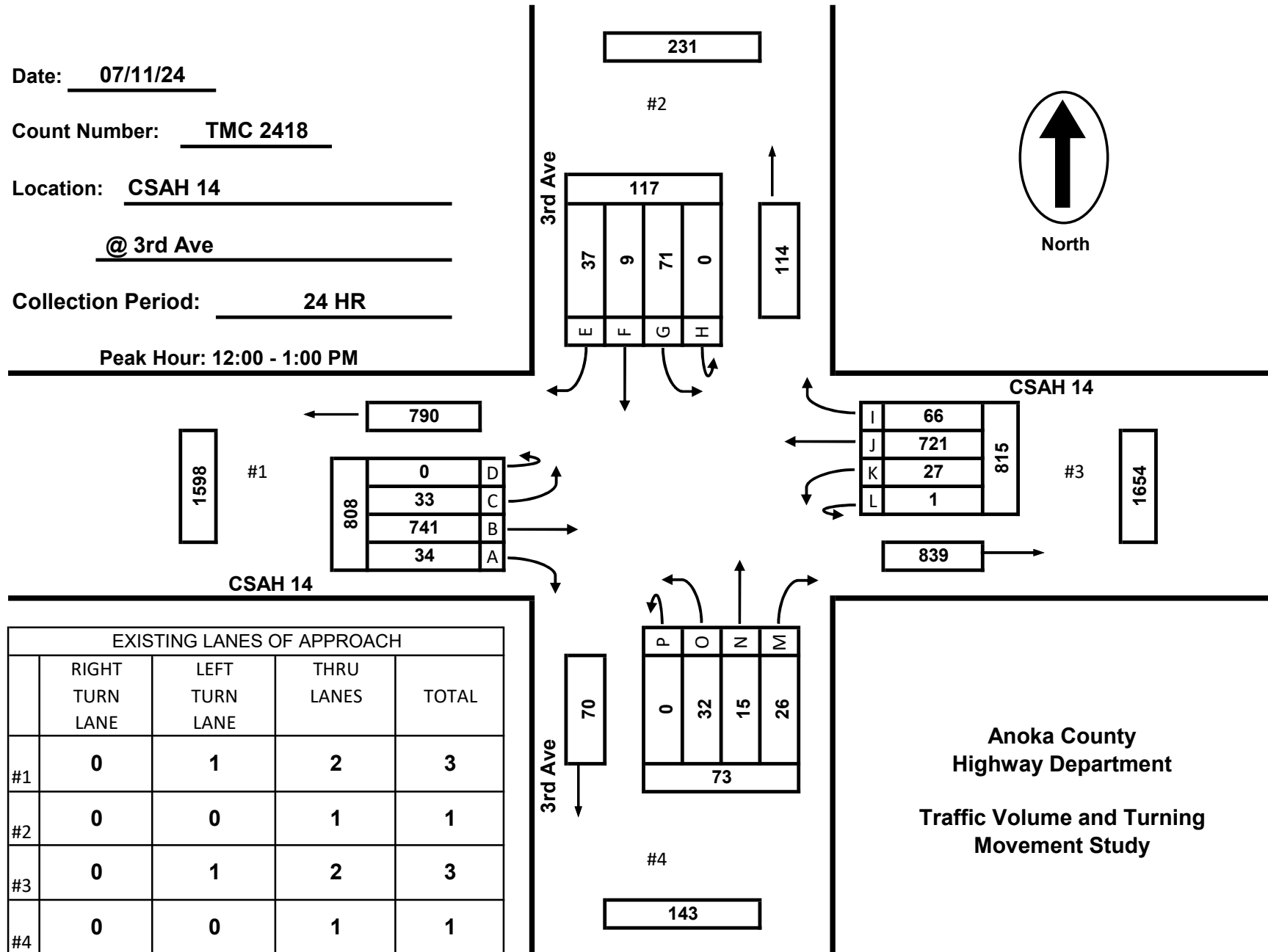
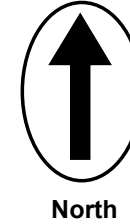
Date: 07/11/24

Count Number: TMC 2418

Location: CSAH 14
@ 3rd Ave

Collection Period: 24 HR

Peak Hour: 12:00 - 1:00 PM



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

**Anoka County
Highway Department
Traffic Volume and Turning
Movement Study**

**TMC 2418 - CSAH 14 @ 3rd Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound 3rd Ave						Westbound CSAH 14						Northbound 3rd Ave						Eastbound CSAH 14						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	2	0	1	0	3	0	0	15	0	0	15	0	0	0	0	0	0	0	0	7	0	0	7	25
12:15 AM	0	3	0	1	0	4	0	0	15	1	0	16	0	0	0	1	0	1	0	0	13	0	0	13	34
12:30 AM	0	1	0	0	0	1	0	0	12	0	0	12	0	0	0	0	0	0	0	0	21	1	0	22	35
12:45 AM	0	2	0	0	0	2	0	0	10	0	0	10	0	0	0	0	1	0	0	0	9	0	0	10	22
Hourly Total	0	8	0	2	0	10	0	0	52	1	0	53	0	0	0	1	1	1	0	1	50	1	0	52	116
1:00 AM	0	6	0	0	0	6	0	0	19	1	0	20	0	0	0	0	0	0	0	0	12	0	0	12	38
1:15 AM	0	4	0	0	0	4	0	0	5	1	0	6	0	0	0	0	0	0	0	0	12	0	0	12	22
1:30 AM	0	2	0	0	0	2	0	0	8	0	0	8	0	0	0	0	0	0	0	2	7	0	0	9	19
1:45 AM	0	1	0	0	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	0	12	0	0	12	19
Hourly Total	0	13	0	0	0	13	0	0	38	2	0	40	0	0	0	0	0	0	0	2	43	0	0	45	98
2:00 AM	0	1	0	1	0	2	0	0	11	0	0	11	0	0	0	0	0	0	0	3	5	0	0	8	21
2:15 AM	0	2	0	0	0	2	0	0	10	1	0	11	0	0	0	0	0	0	0	0	13	0	0	13	26
2:30 AM	0	0	0	0	0	0	0	1	4	1	0	6	0	0	0	0	0	0	0	0	10	0	0	10	16
2:45 AM	0	1	0	1	0	2	0	0	4	1	0	5	0	0	0	0	0	0	0	0	8	0	0	8	15
Hourly Total	0	4	0	2	0	6	0	1	29	3	0	33	0	0	0	0	0	0	0	3	36	0	0	39	78
3:00 AM	0	0	0	0	0	0	0	0	7	1	0	8	0	0	0	0	0	0	0	1	6	0	0	7	15
3:15 AM	0	1	0	0	0	1	0	0	7	0	0	7	0	0	0	0	0	0	0	0	6	0	0	6	14
3:30 AM	0	0	0	0	0	0	0	0	15	1	0	16	0	0	0	0	0	0	0	0	7	0	0	7	23
3:45 AM	0	0	0	0	0	0	0	0	12	1	0	13	0	0	0	0	0	0	0	0	9	0	0	9	22
Hourly Total	0	1	0	0	0	1	0	0	41	3	0	44	0	0	0	0	0	0	0	1	28	0	0	29	74
4:00 AM	0	0	0	0	0	0	0	0	20	0	0	20	0	1	0	0	0	1	0	0	14	0	0	14	35
4:15 AM	0	2	0	0	1	2	0	0	22	0	0	22	0	0	0	0	0	0	0	1	8	0	0	9	33
4:30 AM	0	0	0	0	0	0	0	0	35	0	0	35	0	0	0	0	0	0	0	0	11	0	0	11	46
4:45 AM	0	1	0	0	0	1	0	0	31	1	0	32	0	0	0	1	0	1	0	1	21	0	0	22	56
Hourly Total	0	3	0	0	1	3	0	0	108	1	0	109	0	1	0	1	0	2	0	2	54	0	0	56	170
5:00 AM	0	0	0	1	0	1	0	0	43	0	0	43	0	0	0	0	0	0	0	0	23	0	0	23	67
5:15 AM	0	2	0	0	0	2	0	0	77	1	0	78	0	0	0	0	1	0	0	2	22	1	0	25	105
5:30 AM	0	1	0	1	0	2	0	1	77	2	0	80	0	0	0	0	2	0	0	0	38	2	0	40	122
5:45 AM	0	1	0	0	0	1	0	2	58	0	1	60	0	0	0	2	0	2	0	0	58	3	0	61	124
Hourly Total	0	4	0	2	0	6	0	3	255	3	1	261	0	0	0	2	3	2	0	2	141	6	0	149	418
6:00 AM	0	1	0	0	0	1	0	1	89	2	0	92	0	1	1	1	0	3	0	4	51	0	0	55	151
6:15 AM	0	2	0	1	0	3	0	2	119	1	0	122	0	0	0	0	0	0	0	5	103	0	0	108	233
6:30 AM	0	1	0	0	0	1	0	1	156	1	0	158	0	3	0	0	0	3	0	1	114	2	0	117	279
6:45 AM	0	0	2	2	0	4	0	0	139	2	0	141	0	1	0	0	0	1	0	4	145	1	0	150	296
Hourly Total	0	4	2	3	0	9	0	4	503	6	0	513	0	5	1	1	0	7	0	14	413	3	0	430	959
7:00 AM	0	2	0	1	0	3	0	3	140	1	3	144	0	2	2	1	0	5	0	4	104	1	0	109	261
7:15 AM	0	2	1	2	0	5	0	3	139	3	1	145	0	4	0	3	3	7	0	4	137	1	0	142	299
7:30 AM	0	0	0	3	0	3	0	4	152	5	0	161	0	4	3	3	0	10	0	11	149	3	1	163	337
7:45 AM	0	1	1	3	0	5	0	11	152	11	0	174	0	7	4	8	1	19	0	18	173	4	1	195	393
Hourly Total	0	5	2	9	0	16	0	21	583	20	4	624	0	17	9	15	4	41	0	37	563	9	2	609	1290

**TMC 2418 - CSAH 14 @ 3rd Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound 3rd Ave						Westbound CSAH 14						Northbound 3rd Ave						Eastbound CSAH 14						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	3	1	5	0	9	0	2	127	7	0	136	0	5	1	4	1	10	0	10	139	4	3	153	308
8:15 AM	0	0	0	6	0	6	0	6	129	10	0	145	0	6	1	2	0	9	0	7	118	3	0	128	288
8:30 AM	0	2	2	1	0	5	0	3	115	7	0	125	0	4	1	3	0	8	1	9	121	4	1	135	273
8:45 AM	0	3	3	2	0	8	1	9	133	7	0	150	0	2	1	6	1	9	0	4	152	11	1	167	334
Hourly Total	0	8	6	14	0	28	1	20	504	31	0	556	0	17	4	15	2	36	1	30	530	22	5	583	1203
9:00 AM	0	8	1	9	1	18	0	4	142	12	4	158	0	10	2	4	2	16	0	7	127	3	0	137	329
9:15 AM	0	5	1	8	0	14	0	4	130	7	0	141	0	9	1	4	1	14	0	5	139	6	2	150	319
9:30 AM	0	8	2	6	0	16	0	8	170	13	0	191	0	6	0	10	0	16	0	9	149	6	1	164	387
9:45 AM	0	5	4	8	0	17	0	4	129	8	1	141	0	7	1	6	2	14	0	6	166	11	2	183	355
Hourly Total	0	26	8	31	1	65	0	20	571	40	5	631	0	32	4	24	5	60	0	27	581	26	5	634	1390
10:00 AM	0	6	3	7	0	16	0	4	136	12	0	152	0	8	1	2	0	11	0	8	127	3	1	138	317
10:15 AM	0	7	0	9	0	16	0	4	138	7	0	149	0	11	2	6	4	19	0	15	168	6	3	189	373
10:30 AM	0	13	1	9	2	23	0	6	186	6	0	198	0	4	0	5	2	9	1	7	170	5	2	183	413
10:45 AM	0	9	1	6	1	16	0	8	159	9	0	176	0	5	3	4	2	12	0	8	162	6	0	176	380
Hourly Total	0	35	5	31	3	71	0	22	619	34	0	675	0	28	6	17	8	51	1	38	627	20	6	686	1483
11:00 AM	0	10	1	9	0	20	0	7	172	13	0	192	0	7	1	12	0	20	1	14	167	6	1	188	420
11:15 AM	0	20	1	4	2	25	0	8	160	11	2	179	0	9	3	11	3	23	0	8	151	6	0	165	392
11:30 AM	0	10	4	9	1	23	0	4	168	15	3	187	0	2	1	7	5	10	0	5	161	4	0	170	390
11:45 AM	0	14	2	7	1	23	0	9	166	18	2	193	0	5	2	5	0	12	0	10	193	0	0	203	431
Hourly Total	0	54	8	29	4	91	0	28	666	57	7	751	0	23	7	35	8	65	1	37	672	16	1	726	1633
12:00 PM	0	19	6	9	1	34	0	6	179	22	3	207	0	7	8	5	4	20	0	7	185	3	5	195	456
12:15 PM	0	19	1	11	5	31	0	4	185	19	1	208	0	6	2	4	4	12	0	4	184	11	9	199	450
12:30 PM	0	17	0	10	5	27	1	8	175	13	2	197	0	7	2	6	4	15	0	13	202	6	14	221	460
12:45 PM	0	16	2	7	2	25	0	9	182	12	3	203	0	12	3	11	2	26	0	9	170	14	2	193	447
Hourly Total	0	71	9	37	13	117	1	27	721	66	9	815	0	32	15	26	14	73	0	33	741	34	30	808	1813
1:00 PM	0	15	3	8	6	26	0	6	158	7	2	171	0	4	2	12	4	18	0	4	180	7	5	191	406
1:15 PM	0	19	5	11	2	35	0	3	165	14	1	182	0	8	0	4	3	12	0	11	145	10	5	166	395
1:30 PM	0	22	2	13	2	37	0	5	188	12	1	205	0	9	3	8	2	20	0	10	192	7	0	209	471
1:45 PM	0	7	2	17	6	26	0	3	167	13	1	183	0	9	2	6	1	17	1	5	191	5	6	202	428
Hourly Total	0	63	12	49	16	124	0	17	678	46	5	741	0	30	7	30	10	67	1	30	708	29	16	768	1700
2:00 PM	0	18	3	12	1	33	0	2	167	11	1	180	0	6	1	5	5	12	0	7	187	10	1	204	429
2:15 PM	0	13	1	7	5	21	0	5	176	9	1	190	0	5	3	3	0	11	1	8	192	0	5	201	423
2:30 PM	0	16	6	12	3	34	0	4	177	11	0	192	0	8	3	3	3	14	0	6	204	5	0	215	455
2:45 PM	0	8	1	11	2	20	0	2	162	8	1	172	0	7	1	6	1	14	0	10	195	3	2	208	414
Hourly Total	0	55	11	42	11	108	0	13	682	39	3	734	0	26	8	17	9	51	1	31	778	18	8	828	1721
3:00 PM	0	11	4	16	2	31	0	2	193	11	1	206	0	5	4	5	5	14	0	6	204	5	2	215	466
3:15 PM	0	16	1	8	3	25	0	7	170	13	0	190	0	8	2	13	3	23	0	7	173	1	0	181	419
3:30 PM	0	12	0	7	3	19	0	7	194	6	0	207	0	9	0	6	2	15	0	13	204	4	0	221	462
3:45 PM	0	10	1	14	3	25	0	9	189	12	0	210	0	5	0	10	0	15	1	5	194	2	1	202	452
Hourly Total	0	49	6	45	11	100	0	25	746	42	1	813	0	27	6	34	10	67	1	31	775	12	3	819	1799

**TMC 2418 - CSAH 14 @ 3rd Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound 3rd Ave						Westbound CSAH 14						Northbound 3rd Ave						Eastbound CSAH 14						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	15	5	9	2	29	0	0	188	16	0	204	0	10	2	4	3	16	1	6	160	6	2	173	422
4:15 PM	0	10	0	11	3	21	0	4	182	8	4	194	0	6	4	5	1	15	0	12	187	7	3	206	436
4:30 PM	0	13	5	28	0	46	0	4	194	15	0	213	0	3	1	5	3	9	0	5	187	6	2	198	466
4:45 PM	0	8	4	11	3	23	0	5	178	18	0	201	0	5	2	3	0	10	0	6	179	2	1	187	421
Hourly Total	0	46	14	59	8	119	0	13	742	57	4	812	0	24	9	17	7	50	1	29	713	21	8	764	1745
5:00 PM	0	8	3	12	2	23	0	9	190	15	0	214	0	4	2	5	8	11	0	6	192	1	0	199	447
5:15 PM	0	18	8	10	3	36	0	5	183	14	3	202	0	14	3	8	8	25	0	4	186	4	1	194	457
5:30 PM	0	4	4	11	0	19	0	9	177	11	2	197	0	4	1	1	1	6	0	6	226	4	1	236	458
5:45 PM	0	11	4	3	3	18	0	10	155	20	3	185	0	4	7	2	2	13	0	3	210	4	1	217	433
Hourly Total	0	41	19	36	8	96	0	33	705	60	8	798	0	26	13	16	19	55	0	19	814	13	3	846	1795
6:00 PM	0	15	1	7	1	23	0	4	175	13	0	192	0	3	1	7	5	11	0	1	187	7	3	195	421
6:15 PM	0	15	0	3	4	18	0	8	136	6	0	150	0	6	2	2	3	10	0	5	189	14	4	208	386
6:30 PM	0	13	1	11	6	25	0	6	126	12	0	144	0	5	1	4	4	10	0	5	182	12	5	199	378
6:45 PM	0	12	3	8	2	23	0	4	151	10	0	165	0	1	1	4	0	6	0	0	151	3	3	154	348
Hourly Total	0	55	5	29	13	89	0	22	588	41	0	651	0	15	5	17	12	37	0	11	709	36	15	756	1533
7:00 PM	0	15	3	6	7	24	0	4	129	7	2	140	0	1	2	5	0	8	0	4	148	3	1	155	327
7:15 PM	0	12	1	5	2	18	0	3	125	9	0	137	0	6	2	8	3	16	0	5	160	1	0	166	337
7:30 PM	0	11	1	6	7	18	0	4	116	8	2	128	0	1	2	5	0	8	1	7	137	4	1	149	303
7:45 PM	0	11	1	4	2	16	0	6	101	6	2	113	0	4	1	5	0	10	0	3	122	3	0	128	267
Hourly Total	0	49	6	21	18	76	0	17	471	30	6	518	0	12	7	23	3	42	1	19	567	11	2	598	1234
8:00 PM	0	8	3	2	1	13	0	1	125	6	0	132	0	5	2	3	2	10	0	2	134	4	1	140	295
8:15 PM	0	6	1	4	1	11	0	2	108	6	0	116	0	4	3	7	3	14	0	3	102	6	3	111	252
8:30 PM	0	12	3	7	0	22	0	2	94	4	2	100	0	6	0	1	6	7	0	4	124	1	0	129	258
8:45 PM	0	12	6	5	6	23	0	3	92	4	2	99	0	3	1	4	0	8	0	4	112	2	0	118	248
Hourly Total	0	38	13	18	8	69	0	8	419	20	4	447	0	18	6	15	11	39	0	13	472	13	4	498	1053
9:00 PM	0	14	2	6	0	22	0	0	97	6	0	103	0	0	1	5	5	6	0	3	110	0	0	113	244
9:15 PM	0	14	1	3	1	18	0	0	66	11	0	77	0	4	0	1	2	5	0	1	86	0	3	87	187
9:30 PM	0	8	1	5	0	14	0	4	73	3	0	80	0	2	0	1	5	3	0	3	89	4	1	96	193
9:45 PM	0	2	2	3	0	7	0	1	61	1	0	63	0	3	0	1	1	4	0	3	66	2	0	71	145
Hourly Total	0	38	6	17	1	61	0	5	297	21	0	323	0	9	1	8	13	18	0	10	351	6	4	367	769
10:00 PM	0	7	0	4	0	11	0	1	49	8	0	58	0	2	0	0	0	2	1	3	57	0	0	61	132
10:15 PM	0	10	1	1	0	12	0	1	57	2	0	60	0	7	0	0	3	7	0	2	62	1	4	65	144
10:30 PM	0	8	0	2	0	10	0	2	51	0	1	53	0	3	0	2	0	5	1	0	78	0	0	79	147
10:45 PM	0	0	0	1	0	1	0	0	31	2	0	33	0	1	0	1	2	2	0	0	58	1	0	59	95
Hourly Total	0	25	1	8	0	34	0	4	188	12	1	204	0	13	0	3	5	16	2	5	255	2	4	264	518
11:00 PM	0	8	0	3	0	11	0	0	53	1	0	54	0	1	0	2	0	3	0	0	41	2	2	43	111
11:15 PM	0	5	0	3	2	8	0	1	33	1	0	35	0	0	0	0	0	0	0	0	34	0	0	34	77
11:30 PM	0	4	0	0	0	4	0	0	49	1	0	50	0	0	0	1	0	1	1	0	22	1	0	24	79
11:45 PM	0	5	0	0	0	5	0	2	14	1	2	17	0	0	0	1	0	1	0	0	22	0	0	22	45
Hourly Total	0	22	0	6	2	28	0	3	149	4	2	156	0	1	0	4	0	5	1	0	119	3	2	123	312
DAILY TOTAL	0	717	133	490	118	1340	2	306	10355	639	60	11302	0	356	108	321	144	785	11	425	10740	301	118	11477	24904
Cars	0	714	119	481	99	1314	2	299	10186	635	56	11122	0	349	93	318	128	760	11	416	10564	291	107	11282	24478
Heavy Vehicles	0	3	14	9	19	26	0	7	169	4	4	180	0	7	15	3	16	25	0	9	176	10	11	195	426
Heavy Vehicle %	0.00%	0.42%	10.53%	1.84%	16.10%	1.94%	0.00%	2.29%	1.63%	0.63%	6.67%	1.59%	0.00%	1.97%	13.89%	0.93%	11.11%	3.18%	0.00%	2.12%	1.64%	3.32%	9.32%	1.70%	1.71%

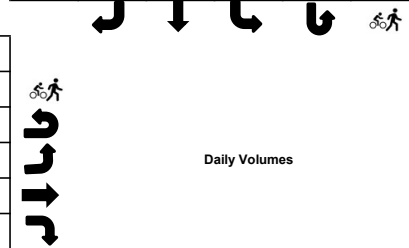
**TMC 2418 - CSAH 14 @ 3rd Ave
Anoka MN
Thursday, July 11, 2024
AM Peak Hour**

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	
11:00 AM	0	10	1	9	0	20	0	7	172	13	0	192	0	7	1	12	0	20	1	14	167	6	1	188	420
11:15 AM	0	20	1	4	2	25	0	8	160	11	2	179	0	9	3	11	3	23	0	8	151	6	0	165	392
11:30 AM	0	10	4	9	1	23	0	4	168	15	3	187	0	2	1	7	5	10	0	5	161	4	0	170	390
11:45 AM	0	14	2	7	1	23	0	9	166	18	2	193	0	5	2	5	0	12	0	10	193	0	0	203	431
Peak Hour Total PHF	0	54	8	29	4	91	0	28	666	57	7	751	0	23	7	35	8	65	1	37	672	16	1	726	1633
	0.000	0.675	0.500	0.806	0.500	0.910	0.000	0.778	0.968	0.792	0.583	0.973	0.000	0.639	0.583	0.729	0.400	0.707	0.250	0.661	0.870	0.667	0.250	0.894	0.947

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	
12:00 PM	0	19	6	9	1	34	0	6	179	22	3	207	0	7	8	5	4	20	0	7	185	3	5	195	456
12:15 PM	0	19	1	11	5	31	0	4	185	19	1	208	0	6	2	4	4	12	0	4	184	11	9	199	450
12:30 PM	0	17	0	10	5	27	1	8	175	13	2	197	0	7	2	6	4	15	0	13	202	6	14	221	460
12:45 PM	0	16	2	7	2	25	0	9	182	12	3	203	0	12	3	11	2	26	0	9	170	14	2	193	447
Peak Hour Total PHF	0	71	9	37	13	117	1	27	721	66	9	815	0	32	15	26	14	73	0	33	741	34	30	808	1813
	0.000	0.934	0.375	0.841	0.650	0.860	0.250	0.750	0.974	0.750	0.750	0.980	0.000	0.667	0.469	0.591	0.875	0.702	0.000	0.635	0.917	0.607	0.536	0.914	0.985

Total Vehicles On Leg		2512	
Vehicles Entering Intersection	1340	Vehicles Exiting Intersection	1172
Southbound			
Cars	481	119	714
Heavy	9	14	3
Total	490	133	717



Total Vehicles on Leg 22689	Eastbound	Vehicles Entering Intersection	11477		
		Cars	107		
		Heavy	11		
		Total	118		
		Vehicles Exiting Intersection	11212		
		Cars	11	0	11
		Heavy	9	9	425
		Total	10564	176	10740
		Cars	291	10	301

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg 23082
635	4	639			
10186	169	10355			
299	7	306			
2	0	2			
56	4	60	Vehicles Exiting Intersection	11780	

Cars	128	0	349	93	318
Heavy	16	0	7	15	3
Total	144	0	356	108	321
Northbound					
Vehicles Entering Intersection	785		Vehicles Exiting Intersection	740	
Total Vehicles On Leg			1525		

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2418

Study Date : 07/15/2024

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 11,477

Westbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 11,302

Minor Street Approaches

Northbound: 3rd Ave

Number of Lanes : 1

Total Approach Volume: 785

Southbound: 3rd Ave

Number of Lanes : 1

Total Approach Volume: 1,340

Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 0 hours, 8 are needed

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

Required volumes reached for 9 hours, 8 are needed

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

Required 1A volumes reached for 2 hours, 8 are needed

Required 1B volumes reached for 12 hours, 8 are needed

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

Number of hours (8) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (20) 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 2418

Study Date : 07/15/2024

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

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

Site Data Required

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

Volume Requirements

Veh/Hr Major = **600**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
17:00 - 18:00	846	+	798	=	1644	55	96	No
15:00 - 16:00	819	+	813	=	1632	67	100	No
16:45 - 17:45	816	+	814	=	1630	52	101	No
11:45 - 12:45	818	+	805	=	1623	59	115	No
12:00 - 13:00	808	+	815	=	1623	73	117	No
17:15 - 18:15	842	+	776	=	1618	55	96	No
15:30 - 16:30	802	+	815	=	1617	61	94	No
16:15 - 17:15	790	+	822	=	1612	45	113	No
16:30 - 17:30	778	+	830	=	1608	55	128	No
14:45 - 15:45	825	+	775	=	1600	66	95	No
15:45 - 16:45	779	+	821	=	1600	55	121	No
14:15 - 15:15	839	+	760	=	1599	53	106	No
15:15 - 16:15	777	+	811	=	1588	69	98	No
12:15 - 13:15	804	+	779	=	1583	71	109	No
17:30 - 18:30	856	+	724	=	1580	40	78	No
14:30 - 15:30	819	+	760	=	1579	65	110	No
16:00 - 17:00	764	+	812	=	1576	50	119	No
13:30 - 14:30	816	+	758	=	1574	60	117	No
13:45 - 14:45	822	+	745	=	1567	54	114	No
14:00 - 15:00	828	+	734	=	1562	51	108	No
11:30 - 12:30	767	+	795	=	1562	54	111	No
13:15 - 14:15	781	+	750	=	1531	61	131	No
12:30 - 13:30	771	+	753	=	1524	71	113	No
12:45 - 13:45	759	+	761	=	1520	76	123	No
13:00 - 14:00	768		741		1509	67	124	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2418

Study Date : 07/15/2024

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

9 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Veh/Hr Major = **900**

Veh/Hr Minor = **75**

Time	Major Road					Minor Road		Met?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	
17:15 - 18:15	842	+	776	=	1618	55	96	Yes
16:15 - 17:15	790	+	822	=	1612	45	113	Yes
14:15 - 15:15	839	+	760	=	1599	53	106	Yes
15:15 - 16:15	777	+	811	=	1588	69	98	Yes
12:15 - 13:15	804	+	779	=	1583	71	109	Yes
13:15 - 14:15	781	+	750	=	1531	61	131	Yes
11:15 - 12:15	733	+	766	=	1499	65	105	Yes
10:15 - 11:15	736	+	715	=	1451	60	75	Yes
18:15 - 19:15	716	+	599	=	1315	34	90	Yes
10:00 - 11:00	686	+	675	=	1361	51	71	No
09:45 - 10:45	693	+	640	=	1333	53	72	No
09:30 - 10:30	674	+	633	=	1307	60	65	No
07:15 - 08:15	653	+	616	=	1269	46	22	No
09:00 - 10:00	634	+	631	=	1265	60	65	No
09:15 - 10:15	635	+	625	=	1260	55	63	No
08:45 - 09:45	618	+	640	=	1258	55	56	No
07:30 - 08:30	639	+	616	=	1255	48	23	No
07:00 - 08:00	609	+	624	=	1233	41	16	No
07:45 - 08:45	611	+	580	=	1191	46	25	No
08:30 - 09:30	589	+	574	=	1163	47	45	No
06:45 - 07:45	564	+	591	=	1155	23	15	No
08:15 - 09:15	567	+	578	=	1145	42	37	No
08:00 - 09:00	583	+	556	=	1139	36	28	No
06:30 - 07:30	518	+	588	=	1106	16	13	No
19:15 - 20:15	583		510		1093	44	65	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2418

Study Date : 07/15/2024

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

Only 2 hours meet 1A minimums.
12 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

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

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **480 720**

Veh/Hr Minor = **120 60**

Time	Major Road					Minor Road			Met1A?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB		
15:45 - 16:45	779	+	821	=	1600	55	121	Yes	
12:45 - 13:45	759	+	761	=	1520	76	123	Yes	
17:00 - 18:00	846	+	798	=	1644	55	96	No	
15:00 - 16:00	819	+	813	=	1632	67	100	No	
16:45 - 17:45	816	+	814	=	1630	52	101	No	
12:00 - 13:00	808	+	815	=	1623	73	117	No	
11:45 - 12:45	818	+	805	=	1623	59	115	No	
17:15 - 18:15	842	+	776	=	1618	55	96	No	
15:30 - 16:30	802	+	815	=	1617	61	94	No	
14:45 - 15:45	825	+	775	=	1600	66	95	No	
14:15 - 15:15	839	+	760	=	1599	53	106	No	
15:15 - 16:15	777		811		1588	69	98	No	

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
17:00 - 18:00	846	+	798	=	1644	55	96	Yes
15:00 - 16:00	819	+	813	=	1632	67	100	Yes
12:00 - 13:00	808	+	815	=	1623	73	117	Yes
16:00 - 17:00	764	+	812	=	1576	50	119	Yes
14:00 - 15:00	828	+	734	=	1562	51	108	Yes
13:00 - 14:00	768	+	741	=	1509	67	124	Yes
11:00 - 12:00	726	+	751	=	1477	65	91	Yes
18:00 - 19:00	756	+	651	=	1407	37	89	Yes
10:00 - 11:00	686	+	675	=	1361	51	71	Yes
09:00 - 10:00	634	+	631	=	1265	60	65	Yes
19:00 - 20:00	598	+	518	=	1116	42	76	Yes
20:00 - 21:00	498		447		945	39	69	Yes

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2418

Study Date : 07/15/2024

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.

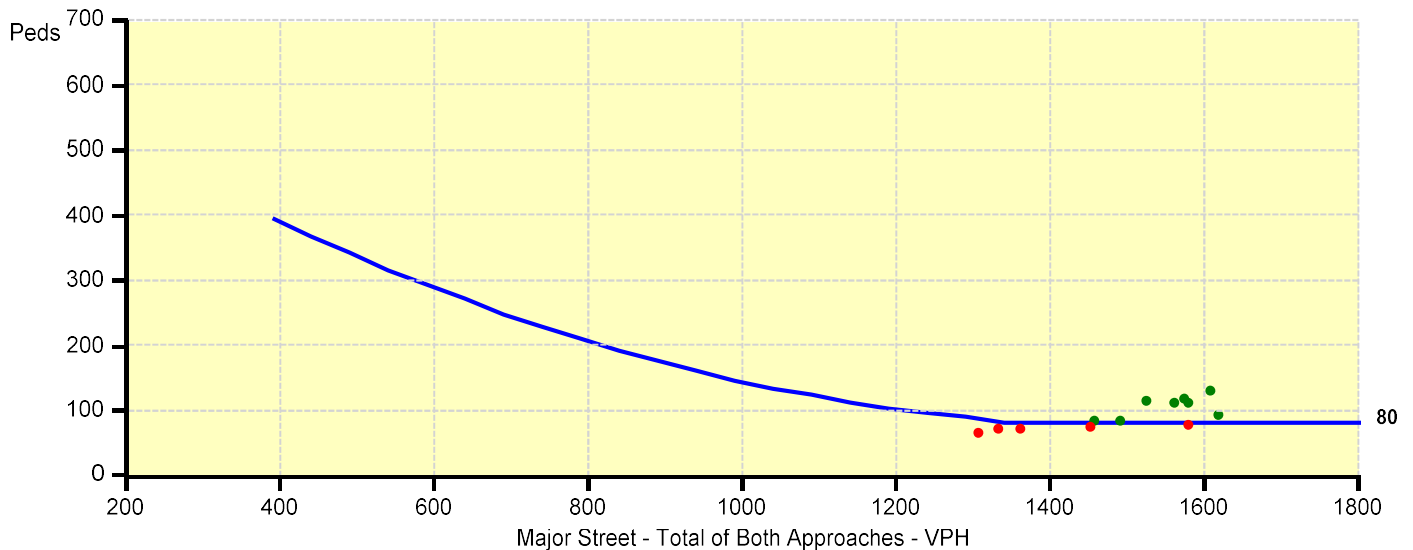
Summary

8 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Time	Major Road CSAH 14				Total	Minor Road 3rd Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:30 - 16:30	802	+	815	=	1617	61	94	Yes
16:30 - 17:30	778	+	830	=	1608	55	128	Yes
14:30 - 15:30	819	+	760	=	1579	65	110	Yes
13:30 - 14:30	816	+	758	=	1574	60	117	Yes
11:30 - 12:30	767	+	795	=	1562	54	111	Yes
12:30 - 13:30	771	+	753	=	1524	71	113	Yes
17:45 - 18:45	819	+	671	=	1490	44	84	Yes
10:30 - 11:30	712	+	745	=	1457	64	84	Yes
17:30 - 18:30	856	+	724	=	1580	40	78	No
10:15 - 11:15	736	+	715	=	1451	60	75	No
10:00 - 11:00	686	+	675	=	1361	51	71	No
09:45 - 10:45	693	+	640	=	1333	53	72	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2418

Study Date : 07/15/2024

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

1 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Time	Major Road CSAH 14				Total	Minor Road 3rd Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:30 - 17:30	778	+	830	=	1608	55	128	Yes
17:00 - 18:00	846	+	798	=	1644	55	96	No
15:00 - 16:00	819	+	813	=	1632	67	100	No
16:45 - 17:45	816	+	814	=	1630	52	101	No
11:45 - 12:45	818	+	805	=	1623	59	115	No
12:00 - 13:00	808	+	815	=	1623	73	117	No
17:15 - 18:15	842	+	776	=	1618	55	96	No
15:30 - 16:30	802	+	815	=	1617	61	94	No
16:15 - 17:15	790	+	822	=	1612	45	113	No
14:45 - 15:45	825	+	775	=	1600	66	95	No
15:45 - 16:45	779	+	821	=	1600	55	121	No
14:15 - 15:15	839	+	760	=	1599	53	106	No

