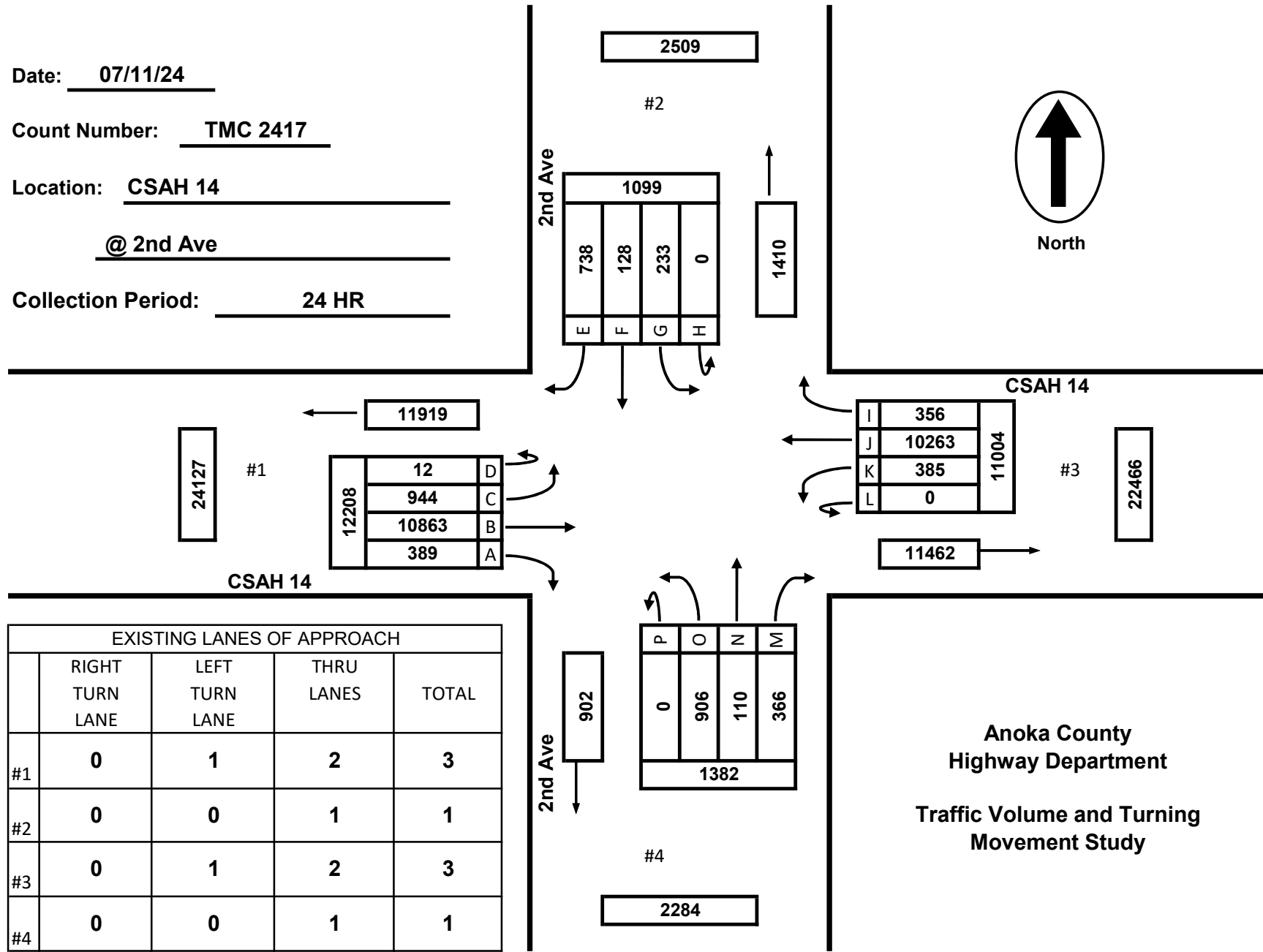
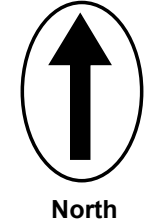


Date: 07/11/24

Count Number: TMC 2417

Location: CSAH 14
@ 2nd Ave

Collection Period: 24 HR



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**

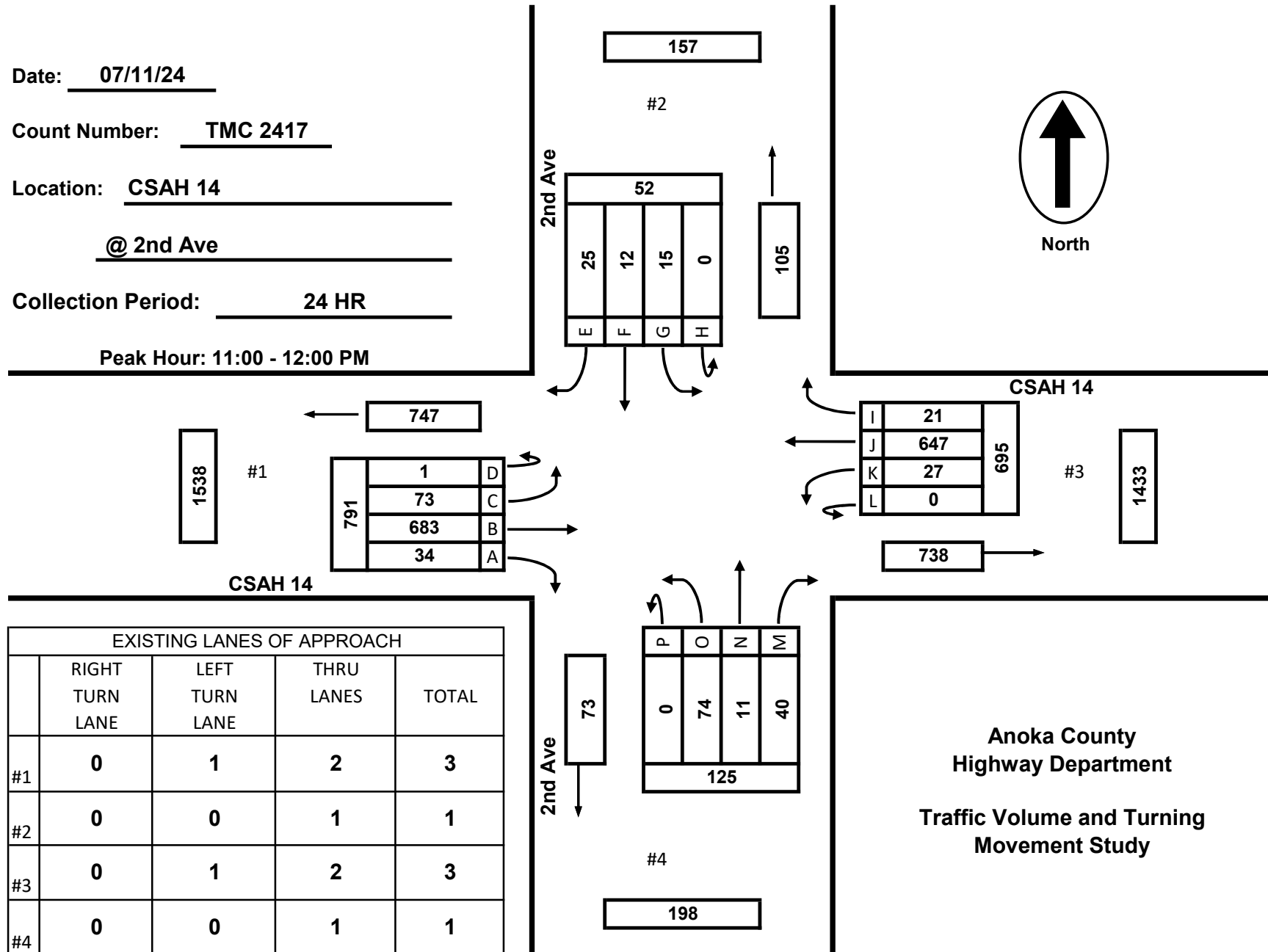
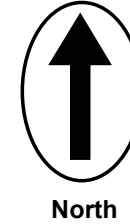
Date: 07/11/24

Count Number: TMC 2417

Location: CSAH 14
@ 2nd Ave

Collection Period: 24 HR

Peak Hour: 11:00 - 12:00 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

Date: 07/11/24

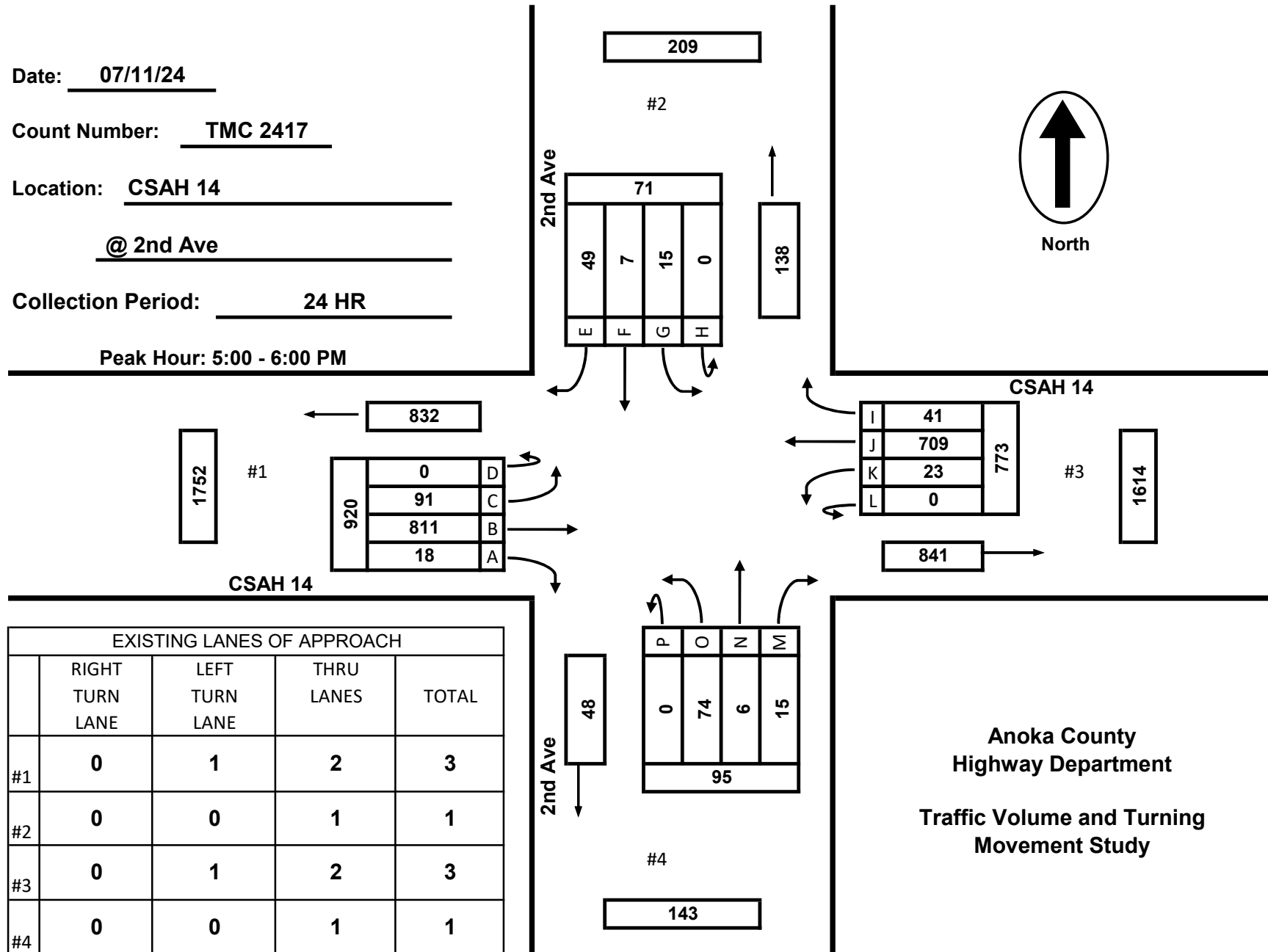
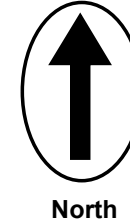
Count Number: TMC 2417

Location: CSAH 14

@ 2nd Ave

Collection Period: 24 HR

Peak Hour: 5:00 - 6:00 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 2417 - CSAH 14 @ 2nd Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound 2nd Ave						Westbound CSAH 14						Northbound 2nd 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	1	0	6	0	7	0	0	16	0	0	16	0	0	0	0	0	0	0	2	6	1	0	9	32
12:15 AM	0	2	0	2	0	4	0	1	15	0	0	16	0	0	0	0	0	0	0	1	11	0	0	12	32
12:30 AM	0	0	0	2	0	2	0	0	10	1	0	11	0	0	0	0	0	0	0	0	22	0	1	22	35
12:45 AM	0	0	0	1	0	1	0	1	9	1	0	11	0	0	0	0	0	0	0	0	9	0	0	9	21
Hourly Total	0	3	0	11	0	14	0	2	50	2	0	54	0	0	0	0	0	0	0	3	48	1	1	52	120
1:00 AM	0	2	0	3	0	5	0	0	17	0	0	17	0	0	0	1	0	1	0	0	9	1	0	10	33
1:15 AM	0	0	0	3	0	3	0	0	7	0	0	7	0	0	0	2	0	2	0	0	10	0	1	10	22
1:30 AM	0	0	0	3	0	3	0	0	7	0	0	7	0	0	0	0	0	0	0	0	9	0	1	9	19
1:45 AM	0	0	0	1	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	0	11	2	0	13	20
Hourly Total	0	2	0	10	0	12	0	0	37	0	0	37	0	0	0	3	0	3	0	0	39	3	2	42	94
2:00 AM	0	0	0	0	0	0	0	0	11	1	0	12	0	2	0	0	0	2	0	0	8	0	0	8	22
2:15 AM	0	0	0	0	0	0	0	0	9	1	0	10	0	0	0	0	0	0	0	0	13	2	0	15	25
2:30 AM	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	0	0	10	0	0	10	14
2:45 AM	0	0	0	1	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	0	9	0	0	9	16
Hourly Total	0	0	0	1	0	1	0	0	29	3	0	32	0	2	0	0	0	2	0	0	40	2	0	42	77
3:00 AM	0	0	0	1	0	1	0	0	6	0	0	6	0	0	0	0	0	0	0	0	6	0	0	6	13
3:15 AM	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	7	0	0	7	15
3:30 AM	0	0	0	0	0	0	0	0	14	0	0	14	0	1	0	0	0	1	0	0	6	0	0	6	21
3:45 AM	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	0	0	0	0	9	0	0	9	21
Hourly Total	0	0	0	1	0	1	0	0	40	0	0	40	0	1	0	0	0	1	0	0	28	0	0	28	70
4:00 AM	0	0	0	0	0	0	0	0	19	0	0	19	0	1	0	0	0	1	0	0	14	0	0	14	34
4:15 AM	0	0	0	0	0	0	0	0	21	0	0	21	0	1	0	1	0	2	0	0	9	0	0	9	32
4:30 AM	0	0	1	0	0	1	0	0	33	0	0	33	0	3	0	0	0	3	0	1	11	0	0	12	49
4:45 AM	0	0	0	0	0	0	0	0	34	0	0	34	0	2	0	0	0	2	0	1	22	0	0	23	59
Hourly Total	0	0	1	0	0	1	0	0	107	0	0	107	0	7	0	1	0	8	0	2	56	0	0	58	174
5:00 AM	0	1	0	0	0	1	0	1	44	0	0	45	0	0	0	2	0	2	0	1	20	2	0	23	71
5:15 AM	0	1	1	0	0	2	0	2	76	1	0	79	0	0	0	0	3	0	0	0	27	0	0	27	108
5:30 AM	0	0	0	1	0	1	0	1	76	0	0	77	0	6	0	0	1	6	0	2	38	2	0	42	126
5:45 AM	0	0	0	1	0	1	0	1	57	0	0	58	0	3	0	0	0	3	0	1	61	0	0	62	124
Hourly Total	0	2	1	2	0	5	0	5	253	1	0	259	0	9	0	2	4	11	0	4	146	4	0	154	429
6:00 AM	0	0	0	1	0	1	0	1	84	1	0	86	0	7	0	1	0	8	1	2	61	0	0	64	159
6:15 AM	0	0	1	6	0	7	0	3	120	1	0	124	0	7	2	0	1	9	0	2	104	2	0	108	248
6:30 AM	0	0	0	3	0	3	0	0	159	1	0	160	0	11	0	0	0	11	0	3	120	0	0	123	297
6:45 AM	0	1	2	3	0	6	0	1	138	2	0	141	0	13	0	1	0	14	0	4	145	2	0	151	312
Hourly Total	0	1	3	13	0	17	0	5	501	5	0	511	0	38	2	2	1	42	1	11	430	4	0	446	1016
7:00 AM	0	0	0	6	0	6	0	0	143	1	1	144	0	13	1	2	0	16	0	6	116	3	0	125	291
7:15 AM	0	0	0	3	0	3	0	2	142	3	0	147	0	18	0	5	0	23	0	10	143	4	0	157	330
7:30 AM	0	0	2	3	0	5	0	2	154	2	0	158	0	13	2	4	0	19	0	6	158	5	0	169	351
7:45 AM	0	0	3	6	0	9	0	7	143	3	0	153	0	21	1	20	0	42	0	27	182	6	0	215	419
Hourly Total	0	0	5	18	0	23	0	11	582	9	1	602	0	65	4	31	0	100	0	49	599	18	0	666	1391

**TMC 2417 - CSAH 14 @ 2nd Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound 2nd Ave						Westbound CSAH 14						Northbound 2nd 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	2	2	4	0	8	0	7	127	2	0	136	0	12	0	3	0	15	0	11	143	2	0	156	315
8:15 AM	0	0	1	2	0	3	0	3	135	1	1	139	0	9	1	4	1	14	0	14	127	4	0	145	301
8:30 AM	0	1	2	2	1	5	0	6	112	2	0	120	0	9	3	4	0	16	1	13	144	6	0	164	305
8:45 AM	0	1	1	6	0	8	0	7	126	0	2	133	0	13	0	4	0	17	1	11	156	7	0	175	333
Hourly Total	0	4	6	14	1	24	0	23	500	5	3	528	0	43	4	15	1	62	2	49	570	19	0	640	1254
9:00 AM	0	1	2	9	5	12	0	10	141	2	1	153	0	14	1	6	0	21	0	14	137	3	0	154	340
9:15 AM	0	2	0	2	2	4	0	9	133	1	1	143	0	15	0	7	0	22	0	12	137	10	0	159	328
9:30 AM	0	1	0	3	2	4	0	11	167	3	1	181	0	12	3	6	0	21	0	12	167	7	1	186	392
9:45 AM	0	1	1	4	4	6	0	9	112	4	3	125	0	14	4	9	0	27	1	20	173	12	0	206	364
Hourly Total	0	5	3	18	13	26	0	39	553	10	6	602	0	55	8	28	0	91	1	58	614	32	1	705	1424
10:00 AM	0	5	2	4	3	11	0	9	137	6	5	152	0	8	1	4	0	13	0	8	152	3	0	163	339
10:15 AM	0	3	0	7	3	10	0	12	131	7	3	150	0	16	2	8	0	26	1	9	161	6	5	177	363
10:30 AM	0	3	3	6	3	12	0	8	172	7	6	187	0	21	2	6	0	29	0	6	178	9	4	193	421
10:45 AM	0	2	2	5	5	9	0	11	146	8	10	165	0	11	2	4	0	17	1	14	173	6	3	194	385
Hourly Total	0	13	7	22	14	42	0	40	586	28	24	654	0	56	7	22	0	85	2	37	664	24	12	727	1508
11:00 AM	0	3	4	5	2	12	0	8	171	5	5	184	0	22	3	8	7	33	1	18	182	5	0	206	435
11:15 AM	0	7	2	7	4	16	0	5	155	5	13	165	0	16	1	10	6	27	0	12	143	6	12	161	369
11:30 AM	0	3	2	7	3	12	0	8	163	5	14	176	0	17	4	11	11	32	0	21	161	10	8	192	412
11:45 AM	0	2	4	6	2	12	0	6	158	6	12	170	0	19	3	11	11	33	0	22	197	13	5	232	447
Hourly Total	0	15	12	25	11	52	0	27	647	21	44	695	0	74	11	40	35	125	1	73	683	34	25	791	1663
12:00 PM	0	4	4	17	0	25	0	7	178	9	9	194	0	16	1	8	15	25	0	26	171	8	11	205	449
12:15 PM	0	3	3	12	3	18	0	9	166	8	10	183	0	22	3	12	13	37	1	17	193	7	7	218	456
12:30 PM	0	4	1	12	5	17	0	6	172	11	8	189	0	16	3	7	12	26	0	14	202	11	13	227	459
12:45 PM	0	9	4	5	3	18	0	17	160	10	9	187	0	13	2	10	20	25	0	26	175	11	5	212	442
Hourly Total	0	20	12	46	11	78	0	39	676	38	36	753	0	67	9	37	60	113	1	83	741	37	36	862	1806
1:00 PM	0	3	5	7	4	15	0	11	153	7	12	171	0	36	1	12	12	49	0	15	186	6	11	207	442
1:15 PM	0	4	6	17	1	27	0	7	150	8	8	165	0	15	0	7	13	22	0	16	164	7	16	187	401
1:30 PM	0	4	2	17	1	23	0	4	201	11	9	216	0	23	5	10	13	38	0	21	189	5	0	215	492
1:45 PM	0	2	6	17	3	25	0	7	172	5	7	184	0	12	3	6	18	21	0	13	192	15	4	220	450
Hourly Total	0	13	19	58	9	90	0	29	676	31	36	736	0	86	9	35	56	130	0	65	731	33	31	829	1785
2:00 PM	0	6	3	11	1	20	0	4	176	5	11	185	0	14	0	6	16	20	0	17	187	4	6	208	433
2:15 PM	0	4	7	13	7	24	0	2	182	7	9	191	0	18	1	2	12	21	0	13	206	9	4	228	464
2:30 PM	0	5	2	18	5	25	0	8	173	7	16	188	0	8	0	5	16	13	0	10	200	12	9	222	448
2:45 PM	0	2	2	13	7	17	0	8	159	11	15	178	0	14	1	10	12	25	0	7	189	6	10	202	422
Hourly Total	0	17	14	55	20	86	0	22	690	30	51	742	0	54	2	23	56	79	0	47	782	31	29	860	1767
3:00 PM	0	9	2	13	4	24	0	8	202	3	6	213	0	20	5	3	7	28	0	13	199	7	5	219	484
3:15 PM	0	8	1	6	1	15	0	9	163	2	6	174	0	18	2	8	18	28	0	13	180	7	4	200	417
3:30 PM	0	4	1	19	5	24	0	5	198	4	4	207	0	9	4	6	21	19	0	14	194	6	5	214	464
3:45 PM	0	2	1	10	8	13	0	10	183	9	3	202	0	14	4	4	3	22	0	27	195	3	5	225	462
Hourly Total	0	23	5	48	18	76	0	32	746	18	19	796	0	61	15	21	49	97	0	67	768	23	19	858	1827

**TMC 2417 - CSAH 14 @ 2nd Ave
Anoka MN
Thursday, July 11, 2024**

Time	Southbound 2nd Ave						Westbound CSAH 14						Northbound 2nd 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	2	0	13	5	15	0	9	202	10	8	221	0	27	5	7	10	39	0	18	162	4	3	184	459
4:15 PM	0	4	3	10	4	17	0	7	177	10	4	194	0	16	3	5	10	24	0	15	198	4	7	217	452
4:30 PM	0	3	3	14	2	20	0	3	213	5	5	221	0	15	1	6	4	22	0	14	171	8	6	193	456
4:45 PM	0	3	3	11	6	17	0	6	174	4	7	184	0	15	4	5	10	24	0	11	176	9	8	196	421
Hourly Total	0	12	9	48	17	69	0	25	766	29	24	820	0	73	13	23	34	109	0	58	707	25	24	790	1788
5:00 PM	0	4	3	14	1	21	0	7	198	13	1	218	0	18	1	5	11	24	0	22	192	2	4	216	479
5:15 PM	0	2	2	11	4	15	0	2	185	9	6	196	0	21	2	4	4	27	0	25	193	10	5	228	466
5:30 PM	0	3	1	13	3	17	0	4	194	6	8	204	0	18	0	4	10	22	0	21	219	0	8	240	483
5:45 PM	0	6	1	11	0	18	0	10	132	13	2	155	0	17	3	2	11	22	0	23	207	6	4	236	431
Hourly Total	0	15	7	49	8	71	0	23	709	41	17	773	0	74	6	15	36	95	0	91	811	18	21	920	1859
6:00 PM	0	7	0	6	8	13	0	4	171	8	3	183	0	12	1	3	8	16	0	24	179	10	5	213	425
6:15 PM	0	6	1	10	1	17	0	4	126	3	1	133	0	4	2	12	2	18	0	24	196	5	6	225	393
6:30 PM	0	4	2	12	3	18	0	11	123	9	5	143	0	9	1	0	4	10	0	20	195	3	1	218	389
6:45 PM	0	3	0	15	1	18	0	6	144	4	8	154	0	7	1	2	6	10	0	20	139	6	2	165	347
Hourly Total	0	20	3	43	13	66	0	25	564	24	17	613	0	32	5	17	20	54	0	88	709	24	14	821	1554
7:00 PM	0	6	1	17	1	24	0	0	139	6	0	145	0	12	0	1	2	13	0	22	148	5	3	175	357
7:15 PM	0	3	1	14	2	18	0	1	132	4	2	137	0	8	1	7	5	16	0	9	155	7	6	171	342
7:30 PM	0	1	2	21	2	24	0	3	110	5	4	118	0	10	1	3	2	14	0	12	140	5	5	157	313
7:45 PM	0	2	1	12	6	15	0	8	95	7	8	110	0	6	3	5	1	14	1	7	123	1	10	132	271
Hourly Total	0	12	5	64	11	81	0	12	476	22	14	510	0	36	5	16	10	57	1	50	566	18	24	635	1283
8:00 PM	0	4	3	20	1	27	0	6	119	4	6	129	0	10	1	3	3	14	0	9	130	4	10	143	313
8:15 PM	0	2	0	14	0	16	0	2	105	7	8	114	0	10	3	6	0	19	0	14	103	5	12	122	271
8:30 PM	0	9	0	32	2	41	0	1	100	3	6	104	0	8	0	3	0	11	0	12	112	4	3	128	284
8:45 PM	0	7	1	17	0	25	0	2	93	4	2	99	0	7	0	3	1	10	0	10	104	3	10	117	251
Hourly Total	0	22	4	83	3	109	0	11	417	18	22	446	0	35	4	15	4	54	0	45	449	16	35	510	1119
9:00 PM	0	7	3	14	0	24	0	2	101	4	3	107	0	3	1	3	1	7	1	12	108	5	7	126	264
9:15 PM	0	4	4	17	0	25	0	3	65	5	1	73	0	3	2	2	0	7	0	4	80	2	1	86	191
9:30 PM	0	1	2	11	0	14	0	2	82	2	0	86	0	4	0	5	1	9	0	6	86	9	2	101	210
9:45 PM	0	3	1	8	0	12	0	0	62	4	0	66	0	5	2	1	0	8	0	7	69	3	1	79	165
Hourly Total	0	15	10	50	0	75	0	7	310	15	4	332	0	15	5	11	2	31	1	29	343	19	11	392	830
10:00 PM	0	5	1	11	0	17	0	1	52	0	0	53	0	5	0	1	0	6	0	4	56	1	1	61	137
10:15 PM	0	1	0	15	0	16	0	2	61	2	0	65	0	2	0	0	0	2	0	7	60	0	2	67	150
10:30 PM	0	6	1	14	0	21	0	0	54	2	0	56	0	7	0	0	0	7	1	4	72	1	0	78	162
10:45 PM	0	2	0	4	0	6	0	3	27	0	0	30	0	3	1	4	0	8	0	4	53	0	2	57	101
Hourly Total	0	14	2	44	0	60	0	6	194	4	0	204	0	17	1	5	0	23	1	19	241	2	5	263	550
11:00 PM	0	3	0	6	0	9	0	0	56	2	0	58	0	5	0	4	0	9	1	3	35	1	1	40	116
11:15 PM	0	0	0	5	0	5	0	0	36	0	0	36	0	0	0	0	0	0	0	7	21	0	2	28	69
11:30 PM	0	1	0	3	0	4	0	2	48	0	0	50	0	1	0	0	0	1	0	2	21	1	1	24	79
11:45 PM	0	1	0	1	0	2	0	0	14	0	0	14	0	0	0	0	1	0	0	4	21	0	2	25	41
Hourly Total	0	5	0	15	0	20	0	2	154	2	0	158	0	6	0	4	1	10	1	16	98	2	6	117	305
DAILY TOTAL	0	233	128	738	149	1099	0	385	10263	356	318	11004	0	906	110	366	369	1382	12	944	10863	389	296	12208	25693
Cars	0	231	126	726	138	1083	0	383	10052	345	315	10780	0	887	108	349	366	1344	12	936	10638	385	287	11971	25178
Heavy Vehicles	0	2	2	12	11	16	0	2	211	11	3	224	0	19	2	17	3	38	0	8	225	4	9	237	515
Heavy Vehicle %	0.00%	0.86%	1.56%	1.63%	7.38%	1.46%	0.00%	0.52%	2.06%	3.09%	0.94%	2.04%	0.00%	2.10%	1.82%	4.64%	0.81%	2.75%	0.00%	0.85%	2.07%	1.03%	3.04%	1.94%	2.00%

**TMC 2417 - CSAH 14 @ 2nd Ave
Anoka MN
Thursday, July 11, 2024
AM Peak Hour**

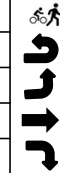
Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
11:00 AM	0	3	4	5	2	12	0	8	171	5	5	184	0	22	3	8	7	33	1	18	182	5	0	206	435
11:15 AM	0	7	2	7	4	16	0	5	155	5	13	165	0	16	1	10	6	27	0	12	143	6	12	161	369
11:30 AM	0	3	2	7	3	12	0	8	163	5	14	176	0	17	4	11	11	32	0	21	161	10	8	192	412
11:45 AM	0	2	4	6	2	12	0	6	158	6	12	170	0	19	3	11	11	33	0	22	197	13	5	232	447
Peak Hour Total	0	15	12	25	11	52	0	27	647	21	44	695	0	74	11	40	35	125	1	73	683	34	25	791	1663
PHF	0.000	0.536	0.750	0.893	0.688	0.813	0.000	0.844	0.946	0.875	0.786	0.944	0.000	0.841	0.688	0.909	0.795	0.947	0.250	0.830	0.867	0.654	0.521	0.852	0.930

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	
5:00 PM	0	4	3	14	1	21	0	7	198	13	1	218	0	18	1	5	11	24	0	22	192	2	4	216	479
5:15 PM	0	2	2	11	4	15	0	2	185	9	6	196	0	21	2	4	4	27	0	25	193	10	5	228	466
5:30 PM	0	3	1	13	3	17	0	4	194	6	8	204	0	18	0	4	10	22	0	21	219	0	8	240	483
5:45 PM	0	6	1	11	0	18	0	10	132	13	2	155	0	17	3	2	11	22	0	23	207	6	4	236	431
Peak Hour Total	0	15	7	49	8	71	0	23	709	41	17	773	0	74	6	15	36	95	0	91	811	18	21	920	1859
PHF	0.000	0.625	0.583	0.875	0.500	0.845	0.000	0.575	0.895	0.788	0.531	0.886	0.000	0.881	0.500	0.750	0.818	0.880	0.000	0.910	0.926	0.450	0.656	0.958	0.962

Total Vehicles On Leg		2509	
Vehicles Entering Intersection	1099	Vehicles Exiting Intersection	1410
Southbound			
Cars	726	126	231
Heavy	12	2	0
Total	738	128	149



Total Vehicles on Leg 24127	Eastbound	Vehicles Entering Intersection	12208
		Cars	287
		Heavy	9
		Total	296
		Vehicles Exiting Intersection	11919
Cars	12		
Heavy	0		
Total	12		
Cars	936		
Heavy	8		
Total	944		
Cars	10638		
Heavy	225		
Total	10863		
Cars	385		
Heavy	4		
Total	389		

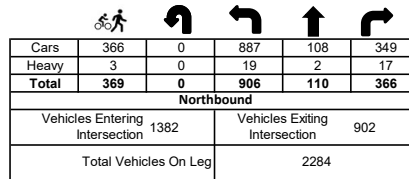


Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg 22466
345	11	356		11004	
10052	211	10263		Vehicles Exiting Intersection	
383	2	385		11462	
0	0	0			
315	3	318			



Cars	366	0	887	108	349
Heavy	3	0	19	2	17
Total	369	0	906	110	366
Northbound					
Vehicles Entering Intersection	1382		Vehicles Exiting Intersection 902		
Total Vehicles On Leg			2284		



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2417

Study Date : 07/16/2024

Signal Warrants - Summary

Major Street Approaches

Northbound: 2nd Ave

Number of Lanes : 1

Total Approach Volume: 4,229

Southbound: 2nd Ave

Number of Lanes : 1

Total Approach Volume: 4,057

Minor Street Approaches

Eastbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 531

Westbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 562

Warrant Summary (Urban 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 1 hours, 8 are needed

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

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

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

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

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

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

Volumes do not exceed minimums for any one hour period.

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

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

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

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

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

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

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2417

Study Date : 07/16/2024

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 = **1**
 Number of Minor Lanes = **2 or more**

Volume Requirements

Veh/Hr Major = **500**

Veh/Hr Minor = **200**

Time	Major Road					Minor Road		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
	2nd Ave					CSAH 14		
15:15 - 16:15	391	+	390	=	781	37	120	No
15:00 - 16:00	394	+	370	=	764	42	17	No
14:45 - 15:45	396	+	358	=	754	34	20	No
15:30 - 16:30	388	+	365	=	753	41	129	No
16:00 - 17:00	373	+	365	=	738	31	138	No
16:15 - 17:15	379	+	352	=	731	32	35	No
16:30 - 17:30	382	+	342	=	724	29	31	No
15:45 - 16:45	365	+	359	=	724	37	132	No
16:45 - 17:45	385	+	337	=	722	26	32	No
14:30 - 15:30	356	+	335	=	691	31	22	No
17:00 - 18:00	365	+	323	=	688	26	26	No
17:15 - 18:15	358	+	313	=	671	25	22	No
17:30 - 18:30	349	+	308	=	657	28	19	No
17:45 - 18:45	360	+	284	=	644	30	11	No
18:00 - 19:00	362	+	279	=	641	30	8	No
14:15 - 15:15	330	+	278	=	608	33	23	No
18:15 - 19:15	346	+	261	=	607	29	10	No
18:30 - 19:30	317	+	249	=	566	22	7	No
07:30 - 08:30	304	+	247	=	551	27	35	No
14:00 - 15:00	283	+	253	=	536	28	36	No
18:45 - 19:45	283	+	248	=	531	21	9	No
07:15 - 08:15	290	+	221	=	511	32	35	No
07:45 - 08:45	276	+	227	=	503	28	35	No
19:00 - 20:00	259	+	230	=	489	19	9	No
13:45 - 14:45	246		239		485	30	34	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2417

Study Date : 07/16/2024

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

Only 1 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

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

Volume Requirements

Veh/Hr Major = **750**

Veh/Hr Minor = **100**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	2nd Ave					CSAH 14		
15:15 - 16:15	391	+	390	=	781	37	120	Yes
15:00 - 16:00	394	+	370	=	764	42	17	No
14:45 - 15:45	396	+	358	=	754	34	20	No
16:15 - 17:15	379	+	352	=	731	32	35	No
16:30 - 17:30	382	+	342	=	724	29	31	No
16:45 - 17:45	385	+	337	=	722	26	32	No
14:30 - 15:30	356	+	335	=	691	31	22	No
17:00 - 18:00	365	+	323	=	688	26	26	No
17:15 - 18:15	358	+	313	=	671	25	22	No
17:30 - 18:30	349	+	308	=	657	28	19	No
17:45 - 18:45	360	+	284	=	644	30	11	No
18:00 - 19:00	362	+	279	=	641	30	8	No
14:15 - 15:15	330	+	278	=	608	33	23	No
18:15 - 19:15	346	+	261	=	607	29	10	No
18:30 - 19:30	317	+	249	=	566	22	7	No
07:30 - 08:30	304	+	247	=	551	27	35	No
14:00 - 15:00	283	+	253	=	536	28	36	No
18:45 - 19:45	283	+	248	=	531	21	9	No
07:15 - 08:15	290	+	221	=	511	32	35	No
07:45 - 08:45	276	+	227	=	503	28	35	No
19:00 - 20:00	259	+	230	=	489	19	9	No
13:45 - 14:45	246	+	239	=	485	30	34	No
19:15 - 20:15	238	+	235	=	473	22	7	No
08:15 - 09:15	231	+	242	=	473	43	72	No
13:15 - 14:15	222		246		468	30	32	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2417

Study Date : 07/16/2024

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

Site Data Required

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

Volume Requirements

Warrant 1A 1B
Veh/Hr Major = **400 600**

Veh/Hr Minor = **160 80**

Major Road

2nd Ave

Minor Road

CSAH 14

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:15 - 16:15	391	+	390	=	781	37	120	No
15:00 - 16:00	394	+	370	=	764	42	17	No
14:45 - 15:45	396	+	358	=	754	34	20	No
15:30 - 16:30	388	+	365	=	753	41	129	No
16:00 - 17:00	373	+	365	=	738	31	138	No
16:15 - 17:15	379	+	352	=	731	32	35	No
15:45 - 16:45	365	+	359	=	724	37	132	No
16:30 - 17:30	382	+	342	=	724	29	31	No
16:45 - 17:45	385	+	337	=	722	26	32	No
14:30 - 15:30	356	+	335	=	691	31	22	No
17:00 - 18:00	365	+	323	=	688	26	26	No
17:15 - 18:15	358	+	313	=	671	25	22	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:15 - 16:15	391	+	390	=	781	37	120	Yes
15:00 - 16:00	394	+	370	=	764	42	17	No
14:45 - 15:45	396	+	358	=	754	34	20	No
16:15 - 17:15	379	+	352	=	731	32	35	No
16:30 - 17:30	382	+	342	=	724	29	31	No
16:45 - 17:45	385	+	337	=	722	26	32	No
14:30 - 15:30	356	+	335	=	691	31	22	No
17:00 - 18:00	365	+	323	=	688	26	26	No
17:15 - 18:15	358	+	313	=	671	25	22	No
17:30 - 18:30	349	+	308	=	657	28	19	No
17:45 - 18:45	360	+	284	=	644	30	11	No
18:00 - 19:00	362	+	279	=	641	30	8	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2417

Study Date : 07/16/2024

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.

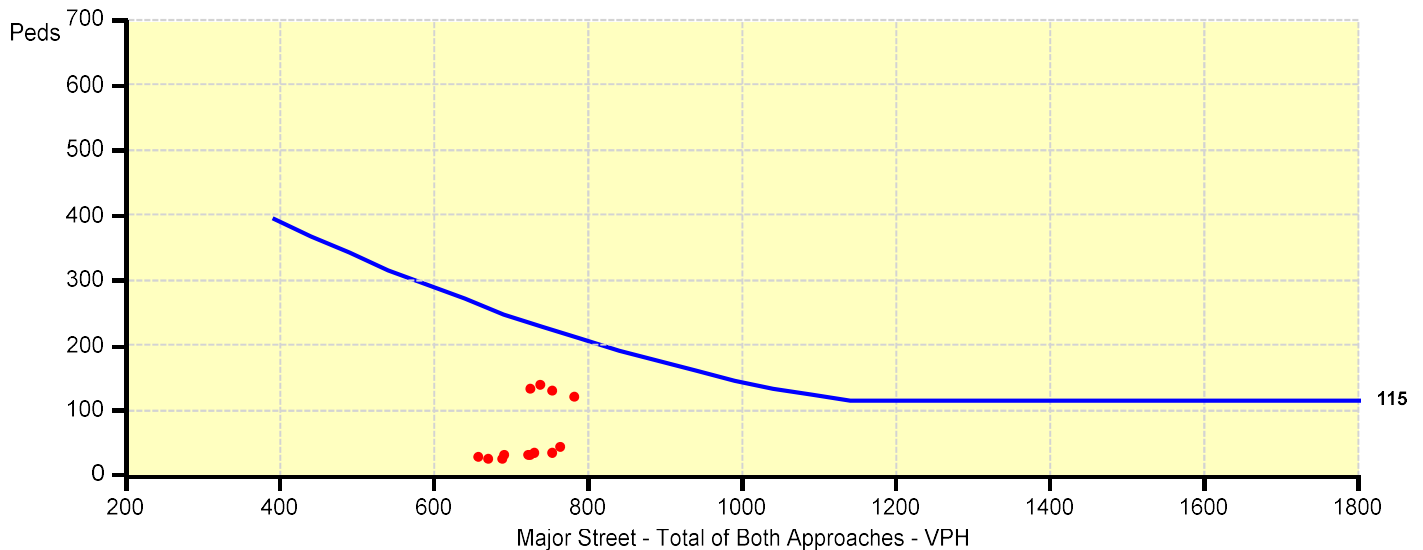
Summary

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

Site Data Required

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

Time	Major Road 2nd Ave					Minor Road CSAH 14		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
15:15 - 16:15	391	+	390	=	781	37	120	No
15:00 - 16:00	394	+	370	=	764	42	17	No
14:45 - 15:45	396	+	358	=	754	34	20	No
15:30 - 16:30	388	+	365	=	753	41	129	No
16:00 - 17:00	373	+	365	=	738	31	138	No
16:15 - 17:15	379	+	352	=	731	32	35	No
16:30 - 17:30	382	+	342	=	724	29	31	No
15:45 - 16:45	365	+	359	=	724	37	132	No
16:45 - 17:45	385	+	337	=	722	26	32	No
14:30 - 15:30	356	+	335	=	691	31	22	No
17:00 - 18:00	365	+	323	=	688	26	26	No
17:15 - 18:15	358	+	313	=	671	25	22	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2417

Study Date : 07/16/2024

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

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

Site Data Required

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

Time	Major Road 2nd Ave				Total	Minor Road CSAH 14		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:15 - 16:15	391	+	390	=	781	37	120	No
15:00 - 16:00	394	+	370	=	764	42	17	No
14:45 - 15:45	396	+	358	=	754	34	20	No
15:30 - 16:30	388	+	365	=	753	41	129	No
16:00 - 17:00	373	+	365	=	738	31	138	No
16:15 - 17:15	379	+	352	=	731	32	35	No
16:30 - 17:30	382	+	342	=	724	29	31	No
15:45 - 16:45	365	+	359	=	724	37	132	No
16:45 - 17:45	385	+	337	=	722	26	32	No
14:30 - 15:30	356	+	335	=	691	31	22	No
17:00 - 18:00	365	+	323	=	688	26	26	No
17:15 - 18:15	358	+	313	=	671	25	22	No

