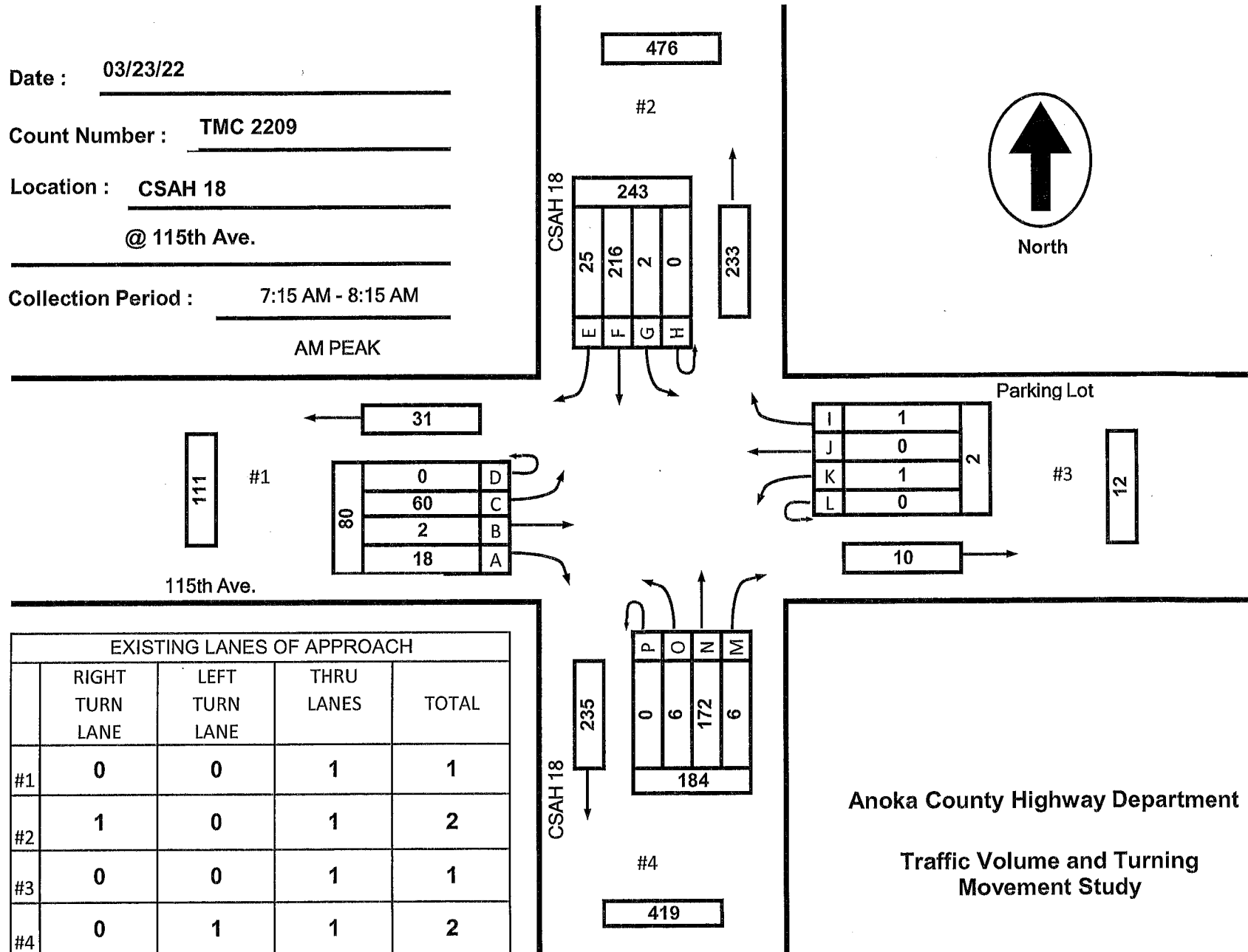
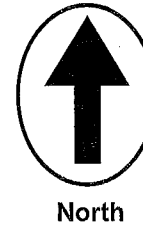


Date : 03/23/22

Count Number : TMC 2209

Location : CSAH 18
@ 115th Ave.

Collection Period : 7:15 AM - 8:15 AM
 AM PEAK



EXISTING LANES OF APPROACH

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

Anoka County Highway Department

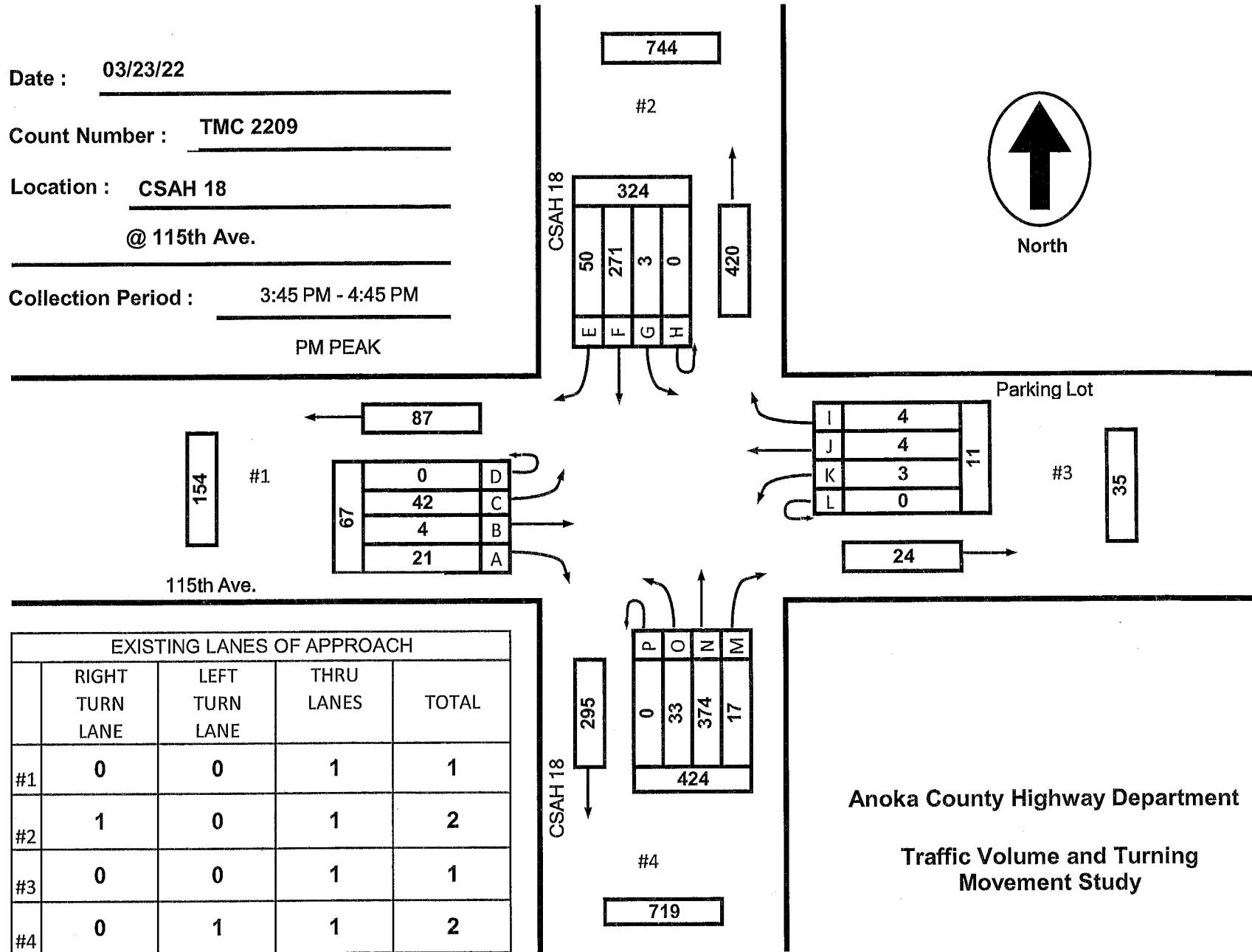
Traffic Volume and Turning
 Movement Study

Date : 03/23/22

Count Number : TMC 2209

Location : CSAH 18
@ 115th Ave.

Collection Period : 3:45 PM - 4:45 PM
 PM PEAK



EXISTING LANES OF APPROACH

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

**CSAH 18 @ 115th Ave
Coon Rapids MN
Wednesday, March 23, 2022**

Time	Southbound CSAH 18						Westbound Parking Lot						Northbound CSAH 18						Eastbound 115th Ave.						VEHICLE TOTAL						
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total							
12:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	7
12:15 AM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	0	0	1	0	0	0	0	0	1	9
12:30 AM	0	0	3	2	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	0	8	3	0	11	0	0	0	0	0	0	0	1	10	0	0	11	0	1	0	0	0	1	0	0	0	0	0	1	23
1:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
1:15 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	0	0	0	0	0	2
1:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	3
1:45 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	0	0	0	0	0	0	5
Hourly Total	0	0	6	0	0	6	0	0	0	0	0	0	0	1	5	0	0	6	0	1	0	0	0	1	0	0	0	0	0	1	13
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	0	0	0	0	0	0
2:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
2:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
2:45 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	0	0	0	0	0	0	5
Hourly Total	0	0	3	1	0	4	0	0	0	0	0	0	0	1	6	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	11
3:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	3
3:15 AM	0	0	4	1	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
3:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	3
3:45 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	3
Hourly Total	0	0	7	2	0	9	0	0	0	0	0	0	0	0	3	0	0	3	0	2	0	1	0	3	0	0	0	0	0	3	15
4:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	3	0	5	0	0	0	0	0	5	9
4:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	4	0	6	0	10	0	0	0	0	0	10	17
4:30 AM	0	0	3	0	0	3	0	0	1	0	0	1	0	0	4	0	0	4	0	1	0	3	0	4	0	0	0	0	0	4	12
4:45 AM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	7	0	0	7	0	2	0	0	0	2	0	0	0	0	0	2	11
Hourly Total	0	0	9	1	0	10	0	0	1	0	0	1	0	0	17	0	0	17	0	9	0	12	0	21	0	0	0	0	0	21	49
5:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	6	0	0	6	0	1	0	0	0	1	0	0	0	0	0	1	11
5:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	11	0	0	11	0	1	0	5	0	6	0	0	0	0	0	6	21
5:30 AM	0	0	13	0	0	13	0	0	0	0	1	0	0	1	13	0	0	14	0	9	0	6	0	15	0	0	0	0	0	15	42
5:45 AM	0	0	10	1	0	11	0	0	0	0	0	0	0	0	14	0	0	14	0	3	0	4	0	7	0	0	0	0	0	7	32
Hourly Total	0	0	31	1	0	32	0	0	0	0	1	0	0	1	44	0	0	45	0	14	0	15	0	29	0	0	0	0	0	29	106
6:00 AM	0	0	16	0	0	16	0	0	0	0	0	0	0	2	13	0	0	15	0	8	0	8	0	16	0	0	0	0	0	16	47
6:15 AM	0	0	20	4	0	24	0	0	0	0	0	0	0	2	16	0	0	18	0	3	0	1	0	4	0	0	0	0	0	4	46
6:30 AM	0	1	21	1	0	23	0	0	0	0	0	0	0	0	20	2	0	22	0	12	0	4	0	16	0	0	0	0	0	16	61
6:45 AM	0	0	30	1	0	31	0	0	0	0	1	0	0	0	25	1	0	26	0	11	0	5	0	16	0	0	0	0	0	16	73
Hourly Total	0	1	87	6	0	94	0	0	0	0	1	0	0	4	74	3	0	81	0	34	0	18	0	52	0	0	0	0	0	52	227
7:00 AM	0	0	43	1	0	44	0	0	0	1	0	1	0	2	36	2	0	40	0	11	2	11	0	24	0	0	0	0	0	24	109
7:15 AM	0	1	51	4	0	56	0	0	0	0	0	0	0	3	45	0	0	48	0	21	2	3	0	26	0	0	0	0	0	26	130
7:30 AM	0	0	70	4	0	74	0	0	0	0	1	0	0	0	45	4	0	49	0	16	0	7	1	23	0	0	0	0	0	23	146
7:45 AM	0	0	51	8	0	59	0	0	0	1	1	1	0	1	41	1	0	43	0	15	0	1	0	16	0	0	0	0	0	16	119
Hourly Total	0	1	216	17	0	233	0	0	0	2	2	2	0	6	167	7	0	180	0	63	4	22	1	89	0	0	0	0	0	89	504

**CSAH 18 @ 115th Ave
Coon Rapids MN
Wednesday, March 23, 2022**

Time	Southbound CSAH 18						Westbound Parking Lot						Northbound CSAH 18						Eastbound 115th Ave.						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	1	44	9	0	54	0	1	0	0	0	1	0	2	41	1	0	44	0	8	0	7	0	15	114
8:15 AM	0	2	37	4	0	43	0	0	0	1	0	1	0	2	37	3	0	42	0	7	1	8	0	16	102
8:30 AM	0	0	26	5	0	31	0	0	0	0	0	0	0	0	30	1	0	31	0	9	0	1	0	10	72
8:45 AM	0	2	48	7	0	57	0	0	0	0	0	0	0	1	27	0	0	28	0	9	0	4	0	13	98
Hourly Total	0	5	155	25	0	185	0	1	0	1	0	2	0	5	135	5	0	145	0	33	1	20	0	54	386
9:00 AM	0	0	42	4	0	46	0	1	0	1	0	2	0	2	48	2	0	52	0	5	1	10	0	16	116
9:15 AM	0	1	52	7	0	60	0	1	0	0	0	1	0	4	54	1	0	59	0	8	1	3	1	12	132
9:30 AM	0	2	53	4	0	59	0	2	0	1	0	3	0	4	35	2	0	41	0	6	2	3	0	11	114
9:45 AM	0	0	42	9	0	51	0	2	0	0	0	2	2	4	45	2	0	53	0	3	0	5	0	8	114
Hourly Total	0	3	189	24	0	216	0	6	0	2	0	8	2	14	182	7	0	205	0	22	4	21	1	47	476
10:00 AM	0	1	56	4	0	61	0	0	0	1	0	1	0	2	34	0	0	36	0	6	0	0	0	6	104
10:15 AM	0	0	37	4	1	41	0	0	0	0	0	0	0	0	47	0	0	47	0	6	0	0	0	6	94
10:30 AM	0	0	40	3	1	43	0	0	0	1	0	1	0	4	40	1	0	45	0	2	0	4	0	6	95
10:45 AM	0	1	57	3	0	61	0	0	0	0	0	0	0	0	45	2	0	47	0	8	0	2	1	10	118
Hourly Total	0	2	190	14	2	206	0	0	0	2	0	2	0	6	166	3	0	175	0	22	0	6	1	28	411
11:00 AM	0	1	39	9	0	49	0	0	0	2	0	2	0	3	58	2	0	63	0	7	1	2	0	10	124
11:15 AM	0	2	38	12	0	52	0	1	0	0	0	1	0	1	47	0	0	48	0	10	0	6	1	16	117
11:30 AM	0	2	37	3	0	42	0	1	0	0	1	1	0	4	46	1	0	51	0	7	2	3	0	12	106
11:45 AM	0	1	56	7	0	64	0	1	0	1	0	2	0	3	74	6	0	83	0	9	0	2	0	11	160
Hourly Total	0	6	170	31	0	207	0	3	0	3	1	6	0	11	225	9	0	245	0	33	3	13	1	49	507
12:00 PM	0	1	66	4	0	71	0	0	1	0	0	1	0	4	60	0	0	64	0	10	0	0	0	10	146
12:15 PM	0	1	42	7	0	50	0	0	0	1	3	1	0	1	40	1	0	42	0	8	0	4	1	12	105
12:30 PM	0	3	56	4	0	63	0	1	0	2	0	3	0	1	41	2	0	44	0	4	1	4	0	9	119
12:45 PM	0	1	41	6	1	48	0	1	0	1	1	2	0	4	57	0	0	61	0	11	0	3	0	14	125
Hourly Total	0	6	205	21	1	232	0	2	1	4	4	7	0	10	198	3	0	211	0	33	1	11	1	45	495
1:00 PM	0	2	49	6	0	57	0	2	1	1	0	4	0	3	57	4	0	64	0	3	1	5	0	9	134
1:15 PM	0	1	44	8	0	53	0	0	0	1	0	1	0	2	55	4	0	61	0	10	0	2	0	12	127
1:30 PM	0	0	66	4	0	70	0	2	0	0	0	2	0	2	54	0	0	56	0	13	1	4	0	18	146
1:45 PM	0	0	52	5	0	57	0	0	0	0	0	0	0	2	75	2	0	79	0	11	1	2	0	14	150
Hourly Total	0	3	211	23	0	237	0	4	1	2	0	7	0	9	241	10	0	260	0	37	3	13	0	53	557
2:00 PM	0	3	45	8	0	56	0	1	1	3	0	5	0	1	55	0	0	56	0	5	1	0	1	6	123
2:15 PM	0	0	52	5	0	57	0	0	0	2	1	2	0	5	55	3	0	63	0	9	0	5	0	14	136
2:30 PM	0	0	57	18	0	75	0	0	1	3	3	4	1	3	82	2	0	88	0	8	0	2	1	10	177
2:45 PM	0	1	76	10	0	87	0	0	1	0	0	1	0	6	73	1	0	80	0	7	0	3	1	10	178
Hourly Total	0	4	230	41	0	275	0	1	3	8	4	12	1	15	265	6	0	287	0	29	1	10	3	40	614
3:00 PM	0	0	67	10	0	77	0	0	1	0	0	1	0	4	70	0	0	74	0	9	0	2	0	11	163
3:15 PM	0	1	75	15	0	91	0	3	0	1	0	4	0	7	75	4	0	86	0	9	1	6	0	16	197
3:30 PM	0	1	53	14	0	68	0	3	0	0	0	3	0	11	74	2	0	87	0	6	0	6	0	12	170
3:45 PM	0	0	81	14	0	95	0	0	1	1	0	2	0	9	100	5	0	114	0	9	0	5	0	14	225
Hourly Total	0	2	276	53	0	331	0	6	2	2	0	10	0	31	319	11	0	361	0	33	1	19	0	53	755

**CSAH 18 @ 115th Ave
Coon Rapids MN
Wednesday, March 23, 2022**

Time	Southbound CSAH 18						Westbound Parking Lot						Northbound CSAH 18						Eastbound 115th Ave.						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	1	57	13	0	71	0	2	0	1	0	3	0	12	93	7	0	112	0	12	1	8	0	21	207
4:15 PM	0	1	71	7	0	79	0	0	1	1	0	2	0	4	100	4	0	108	0	9	2	6	0	17	206
4:30 PM	0	1	62	16	0	79	0	1	2	1	0	4	0	8	81	1	0	90	0	12	1	2	0	15	188
4:45 PM	0	0	71	17	0	88	0	1	1	0	0	2	0	6	94	0	0	100	0	12	1	6	0	19	209
Hourly Total	0	3	261	53	0	317	0	4	4	3	0	11	0	30	368	12	0	410	0	45	5	22	0	72	810
5:00 PM	0	1	73	31	0	105	0	0	0	4	0	4	0	10	81	5	0	96	0	9	2	3	0	14	219
5:15 PM	0	2	85	16	0	103	0	0	0	1	0	1	0	5	65	2	0	72	0	12	0	4	0	16	192
5:30 PM	0	1	71	15	0	87	0	0	0	0	0	0	0	7	78	4	0	89	0	13	0	0	1	13	189
5:45 PM	0	1	66	7	0	74	0	0	0	0	0	0	0	5	65	1	0	71	0	6	0	6	0	12	157
Hourly Total	0	5	295	69	0	369	0	0	0	5	0	5	0	27	289	12	0	328	0	40	2	13	1	55	757
6:00 PM	0	1	62	9	0	72	0	0	0	2	0	2	0	2	62	4	0	68	0	9	0	4	0	13	155
6:15 PM	0	0	65	8	0	73	0	0	0	0	0	0	0	6	59	1	0	66	0	3	0	6	0	9	148
6:30 PM	0	0	62	8	0	70	0	1	0	0	0	1	0	1	62	3	0	66	0	7	1	2	0	10	147
6:45 PM	0	1	56	6	0	63	0	1	0	1	0	2	0	6	48	2	0	56	0	6	0	2	0	8	129
Hourly Total	0	2	245	31	0	278	0	2	0	3	0	5	0	15	231	10	0	256	0	25	1	14	0	40	579
7:00 PM	0	1	53	7	0	61	0	0	0	2	0	2	0	1	51	3	0	55	0	7	1	0	0	8	126
7:15 PM	0	1	47	6	0	54	0	0	0	0	0	0	0	6	44	1	0	51	0	10	1	5	0	16	121
7:30 PM	0	0	32	13	0	45	0	0	0	1	0	1	0	2	35	3	0	40	0	4	0	2	1	6	92
7:45 PM	0	0	38	12	0	50	0	2	0	0	0	2	0	0	38	1	0	39	0	11	0	4	0	15	106
Hourly Total	0	2	170	38	0	210	0	2	0	3	0	5	0	9	168	8	0	185	0	32	2	11	1	45	445
8:00 PM	0	1	47	10	0	58	0	1	0	1	1	2	0	1	31	2	0	34	0	1	1	1	0	3	97
8:15 PM	0	2	29	6	0	37	0	0	0	0	0	0	0	3	36	4	0	43	0	2	0	1	0	3	83
8:30 PM	0	2	40	9	0	51	0	0	0	2	0	2	0	3	34	2	0	39	0	5	0	3	0	8	100
8:45 PM	0	1	32	6	0	39	0	0	0	1	0	1	0	0	32	1	0	33	0	2	0	1	0	3	76
Hourly Total	0	6	148	31	0	185	0	1	0	4	1	5	0	7	133	9	0	149	0	10	1	6	0	17	356
9:00 PM	0	0	23	3	0	26	0	0	0	0	0	0	0	4	20	0	0	24	0	1	0	1	0	2	52
9:15 PM	0	1	20	5	0	26	0	0	0	0	0	0	0	1	16	0	0	17	0	0	1	1	0	2	45
9:30 PM	0	1	12	7	0	20	0	0	0	1	0	1	0	4	16	1	0	21	0	0	0	3	0	3	45
9:45 PM	0	0	15	1	0	16	0	0	1	0	0	1	0	1	21	0	0	22	0	0	2	0	0	2	41
Hourly Total	0	2	70	16	0	88	0	0	1	1	0	2	0	10	73	1	0	84	0	1	3	5	0	9	183
10:00 PM	0	0	21	6	0	27	0	0	0	0	0	0	0	4	15	0	0	19	0	3	0	3	0	6	52
10:15 PM	0	0	12	5	0	17	0	0	0	0	0	0	0	0	5	0	0	6	0	3	0	1	0	4	27
10:30 PM	0	0	10	2	0	12	0	0	0	0	0	0	0	4	11	0	0	15	0	1	0	2	0	3	30
10:45 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	16
Hourly Total	0	0	54	13	0	67	0	0	0	0	0	0	0	1	8	35	0	44	0	8	0	6	0	14	125
11:00 PM	0	0	7	4	0	11	0	0	0	0	0	0	0	1	5	0	0	6	0	2	0	1	0	3	20
11:15 PM	0	0	5	2	0	7	0	0	0	0	0	0	0	1	12	0	0	13	0	0	0	0	0	0	20
11:30 PM	0	0	7	4	0	11	0	0	0	0	0	0	0	0	6	0	0	6	1	1	0	0	0	2	19
11:45 PM	0	0	8	0	0	8	0	0	0	0	0	0	0	2	6	0	0	8	0	0	0	0	0	0	16
Hourly Total	0	0	27	10	0	37	0	0	0	0	0	0	0	4	29	0	0	33	1	3	0	1	0	5	75
DAILY TOTAL	0	53	3262	524	3	3839	0	32	13	45	14	90	4	225	3383	116	0	3728	1	530	32	259	10	822	8479
Cars	0	52	3206	516	2	3774	0	30	13	45	14	88	4	220	3327	116	0	3667	1	519	32	253	8	805	8334
Heavy Vehicles	0	1	56	8	1	65	0	2	0	0	0	2	0	5	56	0	61	0	11	0	6	2	17	145	
Heavy Vehicle %	0.00%	1.89%	1.72%	1.53%	33.33%	1.69%	0.00%	6.25%	0.00%	0.00%	0.00%	2.22%	0.00%	2.22%	1.68%	0.00%	0.00%	1.64%	0.00%	2.08%	0.00%	2.32%	20.00%	2.07%	1.71%

**CSAH 18 @ 115th Ave
Coon Rapids MN
Wednesday, March 23, 2022**

AM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
7:15 AM	0	1	51	4	0	56	0	0	0	0	0	0	0	3	45	0	0	48	0	21	2	3	0	26	
7:30 AM	0	0	70	4	0	74	0	0	0	0	1	0	0	0	45	4	0	49	0	16	0	7	1	23	
7:45 AM	0	0	51	8	0	59	0	0	0	1	1	1	0	1	41	1	0	43	0	15	0	1	0	16	
8:00 AM	0	1	44	9	0	54	0	1	0	0	0	1	0	2	41	1	0	44	0	8	0	7	0	15	
Peak Hour Total	0	2	216	25	0	243	0	1	0	1	2	2	0	6	172	6	0	184	0	60	2	18	1	80	
PHF	0.000	0.500	0.771	0.694	0.000	0.821	0.000	0.250	0.000	0.250	0.500	0.500	0.000	0.500	0.956	0.375	0.000	0.939	0.000	0.714	0.250	0.643	0.250	0.769	

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	
3:45 PM	0	0	81	14	0	95	0	0	1	1	0	2	0	9	100	5	0	114	0	9	0	5	0	14	
4:00 PM	0	1	57	13	0	71	0	2	0	1	0	3	0	12	93	7	0	112	0	12	1	8	0	21	
4:15 PM	0	1	71	7	0	79	0	0	1	1	0	2	0	4	100	4	0	108	0	9	2	6	0	17	
4:30 PM	0	1	62	16	0	79	0	1	2	1	0	4	0	8	81	1	0	90	0	12	1	2	0	15	
Peak Hour Total	0	3	271	50	0	324	0	3	4	4	0	11	0	33	374	17	0	424	0	42	4	21	0	67	
PHF	0.000	0.750	0.836	0.781	0.000	0.853	0.000	0.375	0.500	1.000	0.000	0.688	0.000	0.888	0.935	0.607	0.000	0.930	0.000	0.875	0.500	0.656	0.000	0.798	

Total Vehicles On Leg				7797	
Vehicles Entering Intersection		3839	Vehicles Exiting Intersection		3958
Southbound					
Cars	516	3206	52	0	2
Heavy	8	56	1	0	1
Total	524	3262	53	0	3



Total Vehicles on Leg 1685	Vehicles Entering Intersection 822	Eastbound	Cars	Heavy	Total
			8	2	10
			1	0	1
	Vehicles Exiting Intersection 763		Cars	Heavy	Total
	519		11	530	
32	0	32			
253	6	259			



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 90	Total Vehicles on Leg 291
45	0	45			
13	0	13			
30	2	32			
0	0	0			
14	0	14	Vehicles Exiting Intersection 201		



Cars	0	4	220	3327	116	
Heavy	0	0	5	56	0	
Total	0	4	225	3383	116	
Northbound						
Vehicles Entering Intersection			3728	Vehicles Exiting Intersection		3557
Total Vehicles On Leg			7285			



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2209

Study Date : 03/23/2022

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 18 (Crooked Lake Blvd.)

Number of Lanes : 1

Total Approach Volume: 3,728

Southbound: CSAH 18 (Crooked Lake Blvd.)

Number of Lanes : 1

Total Approach Volume: 3,839

Minor Street Approaches

Eastbound: 115th Ave.

Number of Lanes : 1

Total Approach Volume: 822

Westbound: Parking Lot

Number of Lanes : 1

Total Approach Volume: 90

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 0 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 2 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 2209

Study Date : 03/23/2022

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 = **1**

Volume Requirements

Veh/Hr Major = **500**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	424	+	324	=	748	67	11	No
16:15 - 17:15	394	+	351	=	745	65	12	No
16:45 - 17:45	357	+	383	=	740	62	7	No
15:30 - 16:30	421	+	313	=	734	64	10	No
16:30 - 17:30	358	+	375	=	733	64	11	No
16:00 - 17:00	410	+	317	=	727	72	11	No
15:15 - 16:15	399	+	325	=	724	63	12	No
17:00 - 18:00	328	+	369	=	697	55	5	No
15:00 - 16:00	361	+	331	=	692	53	10	No
14:30 - 15:30	328	+	330	=	658	47	10	No
14:45 - 15:45	327	+	323	=	650	49	9	No
17:15 - 18:15	300	+	336	=	636	54	3	No
14:15 - 15:15	305	+	296	=	601	45	8	No
17:30 - 18:30	294	+	306	=	600	47	2	No
14:00 - 15:00	287	+	275	=	562	40	12	No
17:45 - 18:45	271	+	289	=	560	44	3	No
18:00 - 19:00	256	+	278	=	534	40	5	No
13:45 - 14:45	286	+	245	=	531	44	11	No
18:15 - 19:15	243	+	267	=	510	35	5	No
13:00 - 14:00	260	+	237	=	497	53	7	No
13:30 - 14:30	254	+	240	=	494	52	9	No
13:15 - 14:15	252	+	236	=	488	50	8	No
11:45 - 12:45	233	+	248	=	481	42	7	No
18:30 - 19:30	228	+	248	=	476	42	5	No
11:15 - 12:15	246	+	229	=	475	49	5	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2209

Study Date : 03/23/2022

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 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 = **1**

Volume Requirements

Veh/Hr Major = **750**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	424	+	324	=	748	67	11	No
16:15 - 17:15	394	+	351	=	745	65	12	No
16:45 - 17:45	357	+	383	=	740	62	7	No
15:30 - 16:30	421	+	313	=	734	64	10	No
16:30 - 17:30	358	+	375	=	733	64	11	No
16:00 - 17:00	410	+	317	=	727	72	11	No
15:15 - 16:15	399	+	325	=	724	63	12	No
17:00 - 18:00	328	+	369	=	697	55	5	No
15:00 - 16:00	361	+	331	=	692	53	10	No
14:30 - 15:30	328	+	330	=	658	47	10	No
14:45 - 15:45	327	+	323	=	650	49	9	No
17:15 - 18:15	300	+	336	=	636	54	3	No
14:15 - 15:15	305	+	296	=	601	45	8	No
17:30 - 18:30	294	+	306	=	600	47	2	No
14:00 - 15:00	287	+	275	=	562	40	12	No
17:45 - 18:45	271	+	289	=	560	44	3	No
18:00 - 19:00	256	+	278	=	534	40	5	No
13:45 - 14:45	286	+	245	=	531	44	11	No
18:15 - 19:15	243	+	267	=	510	35	5	No
13:00 - 14:00	260	+	237	=	497	53	7	No
13:30 - 14:30	254	+	240	=	494	52	9	No
13:15 - 14:15	252	+	236	=	488	50	8	No
11:45 - 12:45	233	+	248	=	481	42	7	No
18:30 - 19:30	228	+	248	=	476	42	5	No
11:15 - 12:15	246		229		475	49	5	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2209
 Study Date : 03/23/2022

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 2 hours meet 1B minimums.
 Warrant is NOT met.

Site Data Required

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

Volume Requirements

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

 Veh/Hr Minor = **120** **60**

Time	Major Road				Total	Minor Road		Met1A?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	424	+	324	=	748	67	11	No
16:15 - 17:15	394	+	351	=	745	65	12	No
16:45 - 17:45	357	+	383	=	740	62	7	No
15:30 - 16:30	421	+	313	=	734	64	10	No
16:30 - 17:30	358	+	375	=	733	64	11	No
16:00 - 17:00	410	+	317	=	727	72	11	No
15:15 - 16:15	399	+	325	=	724	63	12	No
17:00 - 18:00	328	+	369	=	697	55	5	No
15:00 - 16:00	361	+	331	=	692	53	10	No
14:30 - 15:30	328	+	330	=	658	47	10	No
14:45 - 15:45	327	+	323	=	650	49	9	No
17:15 - 18:15	300	+	336	=	636	54	3	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:15 - 17:15	394	+	351	=	745	65	12	Yes
15:15 - 16:15	399	+	325	=	724	63	12	Yes
15:00 - 16:00	361	+	331	=	692	53	10	No
14:30 - 15:30	328	+	330	=	658	47	10	No
14:45 - 15:45	327	+	323	=	650	49	9	No
17:15 - 18:15	300	+	336	=	636	54	3	No
14:15 - 15:15	305	+	296	=	601	45	8	No
17:30 - 18:30	294	+	306	=	600	47	2	No
14:00 - 15:00	287	+	275	=	562	40	12	No
17:45 - 18:45	271	+	289	=	560	44	3	No
18:00 - 19:00	256	+	278	=	534	40	5	No
13:45 - 14:45	286	+	245	=	531	44	11	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2209

Study Date : 03/23/2022

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.

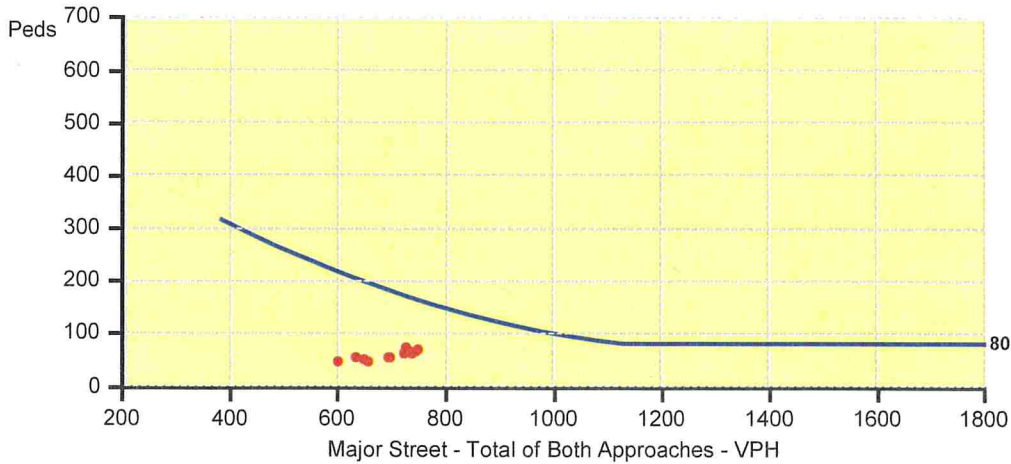
Summary

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 = **1**

Time	Major Road CSAH 18 (Crooked Lake Blvd.)				Total	Minor Road 115th Ave.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	424	+	324	=	748	67	11	No
16:15 - 17:15	394	+	351	=	745	65	12	No
16:45 - 17:45	357	+	383	=	740	62	7	No
15:30 - 16:30	421	+	313	=	734	64	10	No
16:30 - 17:30	358	+	375	=	733	64	11	No
16:00 - 17:00	410	+	317	=	727	72	11	No
15:15 - 16:15	399	+	325	=	724	63	12	No
17:00 - 18:00	328	+	369	=	697	55	5	No
15:00 - 16:00	361	+	331	=	692	53	10	No
14:30 - 15:30	328	+	330	=	658	47	10	No
14:45 - 15:45	327	+	323	=	650	49	9	No
							3	No



ANOKA COUNTY HIGHWAY PC-WARRANTS TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2209
Study Date : 03/23/2022

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 = **1**

Time	Major Road CSAH 18 (Crooked Lake Blvd.)				Total	Minor Road 115th Ave.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	424	+	324	=	748	67	11	No
16:15 - 17:15	394	+	351	=	745	65	12	No
16:45 - 17:45	357	+	383	=	740	62	7	No
15:30 - 16:30	421	+	313	=	734	64	10	No
16:30 - 17:30	358	+	375	=	733	64	11	No
16:00 - 17:00	410	+	317	=	727	72	11	No
15:15 - 16:15	399	+	325	=	724	63	12	No
17:00 - 18:00	328	+	369	=	697	55	5	No
15:00 - 16:00	361	+	331	=	692	53	10	No
14:30 - 15:30	328	+	330	=	658	47	10	No
14:45 - 15:45	327	+	323	=	650	49	9	No
							3	No

