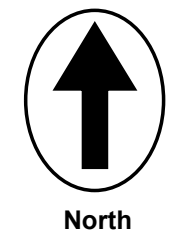
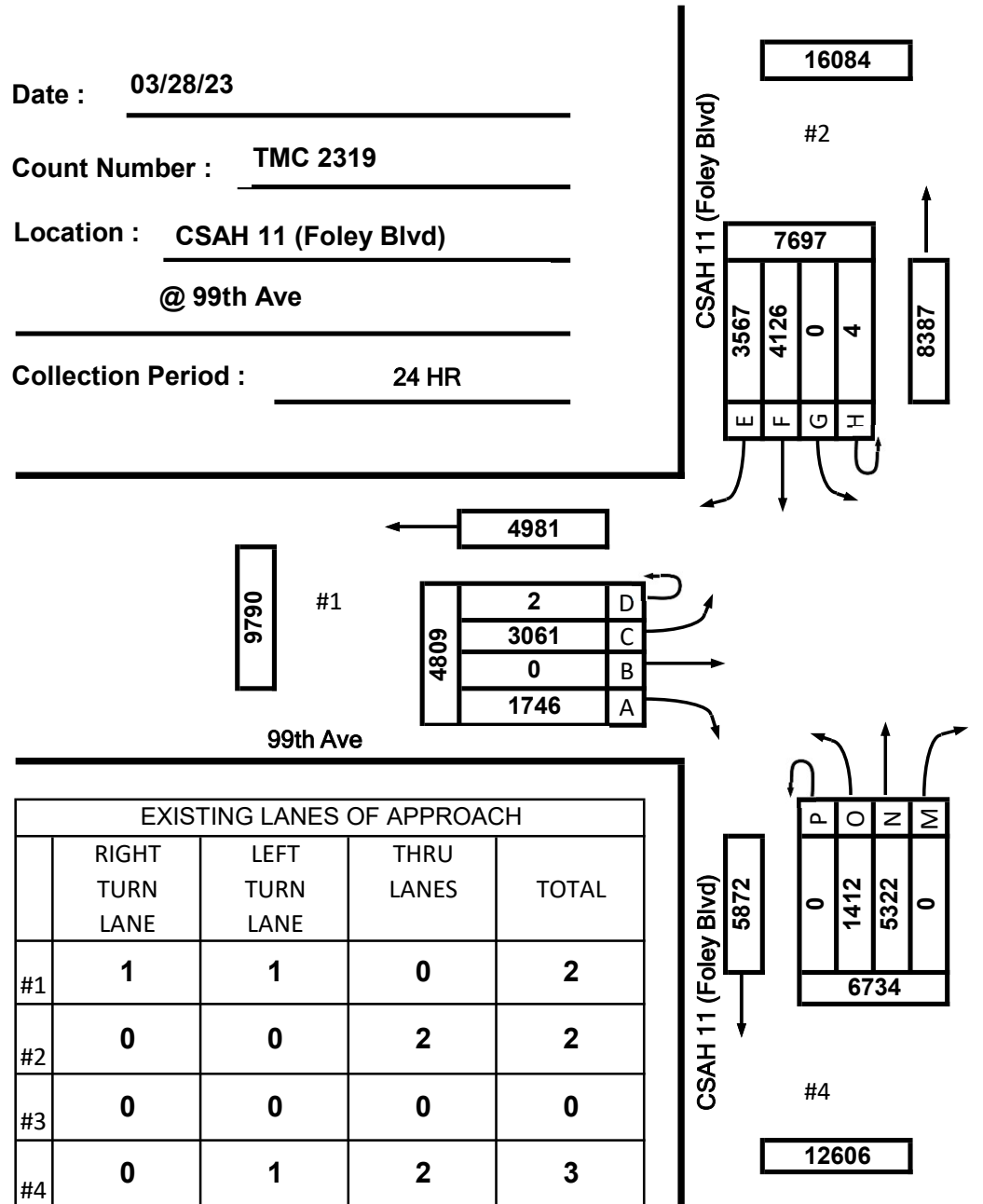


Date : 03/28/23

Count Number : TMC 2319

Location : CSAH 11 (Foley Blvd)
@ 99th Ave

Collection Period : 24 HR



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

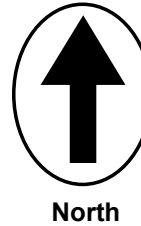
Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 03/28/23

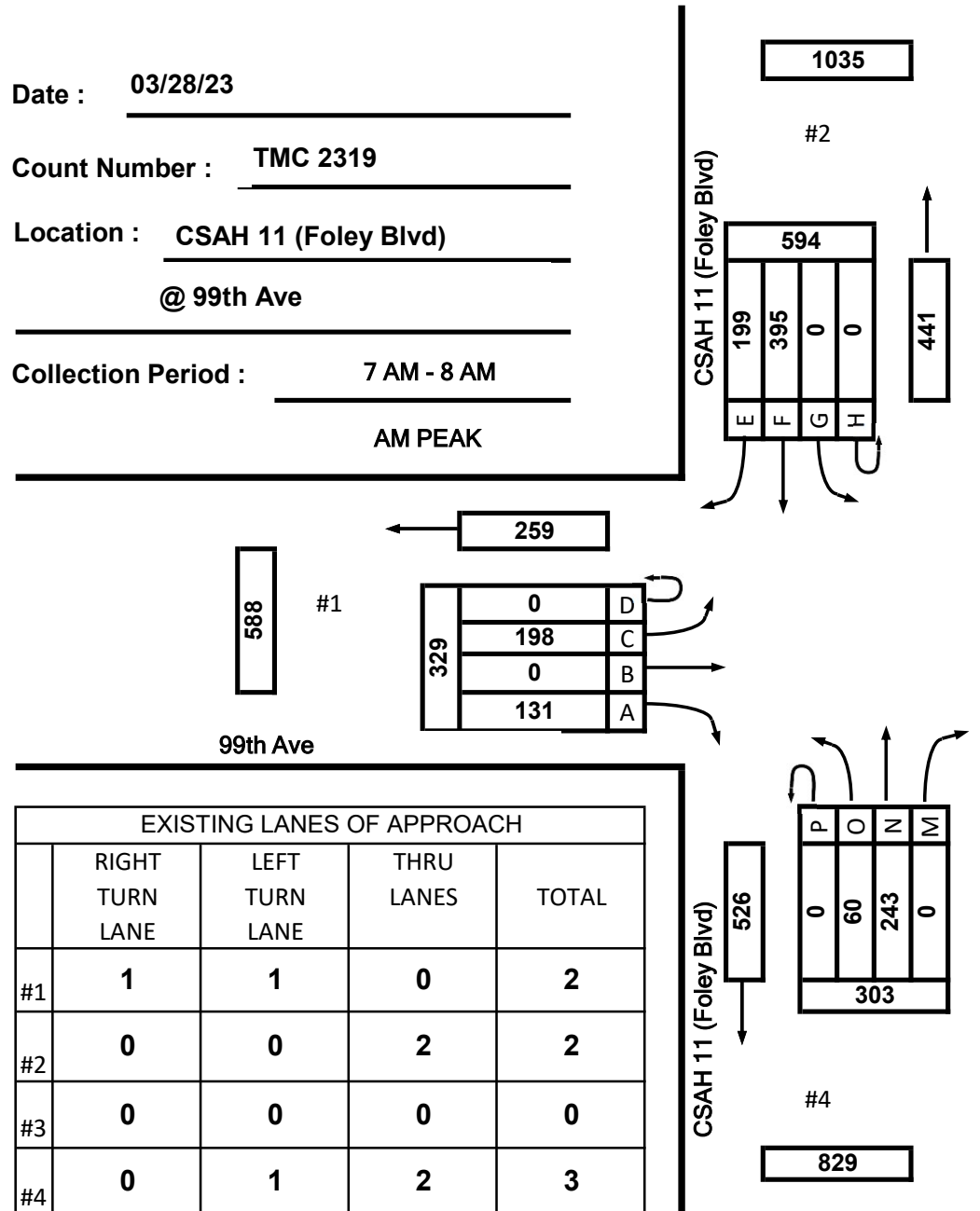
Count Number : TMC 2319

Location : CSAH 11 (Foley Blvd)
@ 99th Ave

Collection Period : 7 AM - 8 AM
AM PEAK



North



Anoka County Highway Department

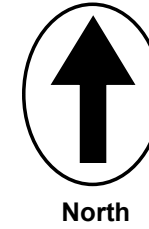
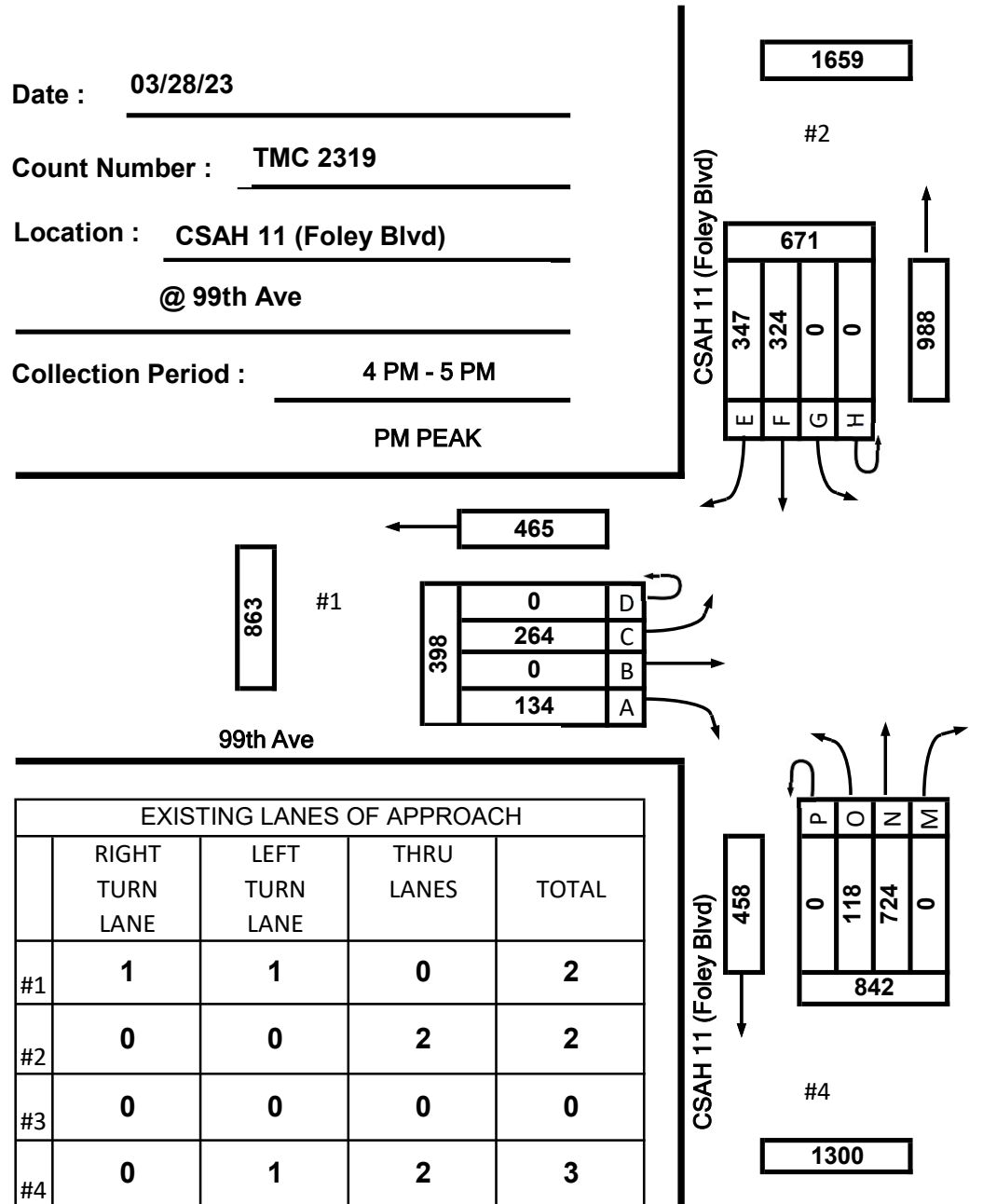
Traffic Volume and Turning
 Movement Study

Date : 03/28/23

Count Number : TMC 2319

Location : CSAH 11 (Foley Blvd)
@ 99th Ave

Collection Period : 4 PM - 5 PM
PM PEAK



Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

TMC 2319 - CSAH 11 @ 99th Ave

0 0

Tuesday, March 28, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	1	5	0	6	0	0	0	0	0	0	0	2	12	0	0	14	0	2	0	0	0	2	0	2	0	0	0	2	22
12:15 AM	0	0	4	1	0	5	0	0	0	0	0	0	0	1	6	0	0	7	0	1	0	1	0	2	0	1	0	0	0	2	14
12:30 AM	0	0	8	5	0	13	0	0	0	0	0	0	0	1	11	0	0	12	0	3	0	0	0	3	0	3	0	0	0	3	28
12:45 AM	0	0	5	4	0	9	0	0	0	0	0	0	0	2	4	0	0	6	0	2	0	0	0	2	0	2	0	0	0	2	17
Hourly Total	0	0	18	15	0	33	0	0	0	0	0	0	0	6	33	0	0	39	0	8	0	1	0	9	0	8	0	0	0	9	81
1:00 AM	1	0	2	6	0	9	0	0	0	0	0	0	0	0	7	0	0	7	0	1	0	1	0	2	0	1	0	0	0	2	18
1:15 AM	0	0	4	3	0	7	0	0	0	0	0	0	0	1	9	0	0	10	0	1	0	1	0	2	0	1	0	0	0	2	19
1:30 AM	0	0	3	6	0	9	0	0	0	0	0	0	0	0	5	0	0	5	0	2	0	0	0	2	0	2	0	0	0	2	16
1:45 AM	0	0	2	3	0	5	0	0	0	0	0	0	0	3	4	0	0	7	0	2	0	0	0	2	0	2	0	0	0	2	14
Hourly Total	1	0	11	18	0	30	0	0	0	0	0	0	0	4	25	0	0	29	0	6	0	2	0	8	0	6	0	2	0	8	67
2:00 AM	0	0	2	2	0	4	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	3	0	3	0	0	0	3	0	3	11
2:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	3	0	0	4	0	1	0	1	0	2	0	1	0	1	0	2	8
2:30 AM	0	0	2	1	0	3	0	0	0	0	0	0	0	1	6	0	0	7	0	1	0	0	0	1	0	1	0	0	0	1	11
2:45 AM	0	0	2	2	0	4	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	2	0	2	0	0	0	2	0	2	9
Hourly Total	0	0	8	5	0	13	0	0	0	0	0	0	0	3	15	0	0	18	0	2	0	6	0	8	0	2	0	6	0	8	39
3:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	0	1	0	0	0	1	7
3:15 AM	0	0	5	1	0	6	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	0	1	0	0	0	1	0	1	9
3:30 AM	0	0	1	2	0	3	0	0	0	0	0	0	0	0	6	0	0	6	0	2	0	1	0	3	0	2	0	1	0	3	12
3:45 AM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	5	0	0	5	0	4	0	2	0	6	0	4	0	2	0	6	19
Hourly Total	0	0	16	3	0	19	0	0	0	0	0	0	0	0	17	0	0	17	0	7	0	4	0	11	0	7	0	4	0	11	47
4:00 AM	0	0	17	0	0	17	0	0	0	0	0	0	0	0	4	0	0	4	0	4	0	3	0	7	0	4	0	3	0	7	28
4:15 AM	0	0	10	4	0	14	0	0	0	0	0	0	0	0	6	0	0	6	0	3	0	2	0	5	0	3	0	2	0	5	25
4:30 AM	0	0	28	3	0	31	0	0	0	0	0	0	0	1	6	0	0	7	0	6	0	2	0	8	0	6	0	2	0	8	46
4:45 AM	0	0	27	4	0	31	0	0	0	0	0	0	0	1	8	0	0	9	0	11	0	2	0	13	0	11	0	2	0	13	53
Hourly Total	0	0	82	11	0	93	0	0	0	0	0	0	0	2	24	0	0	26	0	24	0	9	0	33	0	24	0	9	0	33	152
5:00 AM	0	0	26	7	0	33	0	0	0	0	0	0	0	1	19	0	0	20	0	9	0	14	0	23	0	9	0	14	0	23	76
5:15 AM	0	0	31	11	0	42	0	0	0	0	0	0	0	0	13	0	0	13	0	13	0	17	0	30	0	13	0	17	0	30	85
5:30 AM	0	0	56	13	0	69	0	0	0	0	0	0	0	5	29	0	0	34	0	14	0	21	0	35	0	14	0	21	0	35	138
5:45 AM	0	0	57	18	0	75	0	0	0	0	0	0	0	5	33	0	0	38	0	24	0	17	0	41	0	24	0	17	0	41	154
Hourly Total	0	0	170	49	0	219	0	0	0	0	0	0	0	11	94	0	0	105	0	60	0	69	0	129	0	60	0	69	0	129	453
6:00 AM	0	0	34	11	0	45	0	0	0	0	0	0	0	7	28	0	0	35	0	27	0	12	0	39	0	27	0	12	0	39	119
6:15 AM	0	0	59	17	0	76	0	0	0	0	0	0	0	9	29	0	0	38	0	36	0	14	0	50	0	36	0	14	0	50	164
6:30 AM	0	0	77	34	0	111	0	0	0	0	0	0	0	9	41	0	0	50	0	53	0	20	0	73	0	53	0	20	0	73	234
6:45 AM	0	0	111	47	0	158	0	0	0	0	0	0	0	10	43	0	0	53	0	39	0	30	0	69	0	39	0	30	0	69	280
Hourly Total	0	0	281	109	0	390	0	0	0	0	0	0	0	35	141	0	0	176	0	155	0	76	0	231	0	155	0	76	0	231	797
7:00 AM	0	0	92	51	0	143	0	0	0	0	0	0	0	15	52	0	0	67	0	49	0	28	0	77	0	49	0	28	0	77	287
7:15 AM	0	0	80	41	0	121	0	0	0	0	0	0	0	11	73	0	0	84	0	39	0	44	0	83	0	39	0	44	0	83	288
7:30 AM	0	0	104	44	0	148	0	0	0	0	0	0	0	18	66	0	0	84	0	57	0	30	0	87	0	57	0	30	0	87	319
7:45 AM	0	0	119	63	0	182	0	0	0	0	0	0	0	16	52	0	0	68	0	53	0	29	0	82	0	53	0	29	0	82	332
Hourly Total	0	0	395	199	0	594	0	0	0	0	0	0	0	60	243	0	0	303	0	198	0	131	0	329	0	198	0	131	0	329	1226

TMC 2319 - CSAH 11 @ 99th Ave

0 0

Tuesday, March 28, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	0	80	53	0	133	0	0	0	0	0	0	0	20	60	0	0	80	0	43	0	24	1	67	280
8:15 AM	0	0	72	56	0	128	0	0	0	0	0	0	0	16	64	0	0	80	0	45	0	36	0	81	289
8:30 AM	0	0	80	42	0	122	0	0	0	0	0	0	0	15	62	0	1	77	0	31	0	14	2	45	244
8:45 AM	0	0	61	46	0	107	0	0	0	0	0	0	0	20	58	0	0	78	0	37	0	29	0	66	251
Hourly Total	0	0	293	197	0	490	0	0	0	0	0	0	0	71	244	0	1	315	0	156	0	103	3	259	1064
9:00 AM	0	0	70	44	0	114	0	0	0	0	0	0	0	20	76	0	0	96	0	34	0	25	0	59	269
9:15 AM	0	0	64	54	0	118	0	0	0	0	0	0	0	18	76	0	0	94	0	40	0	20	0	60	272
9:30 AM	0	0	68	58	0	126	0	0	0	0	0	0	0	23	66	0	0	89	0	38	0	26	0	64	279
9:45 AM	0	0	64	69	0	133	0	0	0	0	0	0	0	32	51	0	0	83	0	51	0	14	0	65	281
Hourly Total	0	0	266	225	0	491	0	0	0	0	0	0	0	93	269	0	0	362	0	163	0	85	0	248	1101
10:00 AM	0	0	52	58	0	110	0	0	0	0	0	0	0	32	56	0	0	88	0	32	0	28	0	60	258
10:15 AM	0	0	44	38	0	82	0	0	0	0	0	0	0	14	62	0	0	76	0	43	0	23	0	66	224
10:30 AM	0	0	42	49	0	91	0	0	0	0	0	0	0	18	44	0	0	62	0	40	0	26	0	66	219
10:45 AM	0	0	56	48	0	104	0	0	0	0	0	0	0	21	64	0	0	85	0	38	0	22	0	60	249
Hourly Total	0	0	194	193	0	387	0	0	0	0	0	0	0	85	226	0	0	311	0	153	0	99	0	252	950
11:00 AM	0	0	42	42	0	84	0	0	0	0	0	0	0	17	59	0	0	76	0	38	0	22	0	60	220
11:15 AM	0	0	53	51	0	104	0	0	0	0	0	0	0	25	68	0	0	93	0	34	0	23	0	57	254
11:30 AM	0	0	65	63	0	128	0	0	0	0	0	0	0	16	52	0	0	68	0	48	0	36	0	84	280
11:45 AM	0	0	52	52	0	104	0	0	0	0	0	0	0	24	73	0	0	97	0	46	0	24	0	70	271
Hourly Total	0	0	212	208	0	420	0	0	0	0	0	0	0	82	252	0	0	334	0	166	0	105	0	271	1025
12:00 PM	0	0	48	45	0	93	0	0	0	0	0	0	0	23	56	0	0	79	1	37	0	29	0	67	239
12:15 PM	0	0	64	60	0	124	0	0	0	0	0	0	0	25	76	0	0	101	0	54	0	29	1	83	308
12:30 PM	0	0	49	49	0	98	0	0	0	0	0	0	0	34	72	0	0	106	0	56	0	39	0	95	299
12:45 PM	0	0	65	64	0	129	0	0	0	0	0	0	0	31	67	0	0	98	0	43	0	32	0	75	302
Hourly Total	0	0	226	218	0	444	0	0	0	0	0	0	0	113	271	0	0	384	1	190	0	129	1	320	1148
1:00 PM	0	0	47	56	0	103	0	0	0	0	0	0	0	36	59	0	0	95	0	63	0	28	0	91	289
1:15 PM	0	0	62	57	0	119	0	0	0	0	0	0	0	35	61	0	0	96	0	40	0	25	0	65	280
1:30 PM	0	0	62	40	0	102	0	0	0	0	0	0	0	27	76	0	1	103	0	31	0	28	0	59	264
1:45 PM	0	0	55	75	2	130	0	0	0	0	0	0	0	20	92	0	0	112	0	58	0	24	0	82	324
Hourly Total	0	0	226	228	2	454	0	0	0	0	0	0	0	118	288	0	1	406	0	192	0	105	0	297	1157
2:00 PM	0	0	61	51	0	112	0	0	0	0	0	0	0	33	85	0	0	118	0	57	0	35	0	92	322
2:15 PM	0	0	60	86	0	146	0	0	0	0	0	0	0	25	90	0	0	115	0	47	0	19	1	66	327
2:30 PM	1	0	55	60	0	116	0	0	0	0	0	0	0	23	111	0	0	134	0	67	0	28	1	95	345
2:45 PM	0	0	82	72	0	154	0	0	0	0	0	0	0	32	121	0	0	153	0	52	0	27	0	79	386
Hourly Total	1	0	258	269	0	528	0	0	0	0	0	0	0	113	407	0	0	520	0	223	0	109	2	332	1380
3:00 PM	0	0	59	74	0	133	0	0	0	0	0	0	0	33	146	0	0	179	0	77	0	37	0	114	426
3:15 PM	0	0	78	93	0	171	0	0	0	0	0	0	0	29	147	0	0	176	0	55	0	31	0	86	433
3:30 PM	0	0	94	73	0	167	0	0	0	0	0	0	0	33	171	0	0	204	0	71	0	36	0	107	478
3:45 PM	0	0	74	96	0	170	0	0	0	0	0	0	0	24	142	0	0	166	0	54	0	32	0	86	422
Hourly Total	0	0	305	336	0	641	0	0	0	0	0	0	0	119	606	0	0	725	0	257	0	136	0	393	1759

TMC 2319 - CSAH 11 @ 99th Ave
0 0
Tuesday, March 28, 2023

Time	Southbound 0						Westbound 0						Northbound 0						Eastbound 0						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	0	76	75	0	151	0	0	0	0	0	0	0	25	164	0	0	189	0	78	0	35	0	113	453
4:15 PM	0	0	77	100	0	177	0	0	0	0	0	0	0	38	173	0	0	211	0	57	0	37	0	94	482
4:30 PM	0	0	76	83	0	159	0	0	0	0	0	0	0	26	215	0	0	241	0	75	0	38	1	113	513
4:45 PM	0	0	95	89	0	184	0	0	0	0	0	0	0	29	172	0	0	201	0	54	0	24	0	78	463
Hourly Total	0	0	324	347	0	671	0	0	0	0	0	0	0	118	724	0	0	842	0	264	0	134	1	398	1911
5:00 PM	0	0	70	78	0	148	0	0	0	0	0	0	0	20	174	0	0	194	0	62	0	34	0	96	438
5:15 PM	0	0	70	83	0	153	0	0	0	0	0	0	0	35	139	0	1	174	0	61	0	25	0	86	413
5:30 PM	0	0	68	84	0	152	0	0	0	0	0	0	0	41	120	0	0	161	0	53	0	31	0	84	397
5:45 PM	0	0	43	68	0	111	0	0	0	0	0	0	0	39	107	0	0	146	0	41	0	31	0	72	329
Hourly Total	0	0	251	313	0	564	0	0	0	0	0	0	0	135	540	0	1	675	0	217	0	121	0	338	1577
6:00 PM	0	0	52	65	0	117	0	0	0	0	0	0	0	20	81	0	0	101	0	61	0	22	0	83	301
6:15 PM	0	0	49	59	0	108	0	0	0	0	0	0	0	25	79	0	0	104	0	53	0	17	1	70	282
6:30 PM	0	0	40	43	0	83	0	0	0	0	0	0	0	28	62	0	0	90	0	57	0	24	0	81	254
6:45 PM	0	0	60	47	0	107	0	0	0	0	0	0	0	19	53	0	0	72	0	30	0	20	0	50	229
Hourly Total	0	0	201	214	0	415	0	0	0	0	0	0	0	92	275	0	0	367	0	201	0	83	1	284	1066
7:00 PM	0	0	32	53	0	85	0	0	0	0	0	0	0	15	51	0	0	66	0	34	0	22	0	56	207
7:15 PM	0	0	32	45	0	77	0	0	0	0	0	0	0	19	37	0	0	56	0	31	0	19	0	50	183
7:30 PM	0	0	22	34	0	56	0	0	0	0	0	0	0	13	66	0	0	79	0	28	0	16	0	44	179
7:45 PM	0	0	27	30	0	57	0	0	0	0	0	0	0	8	51	0	0	59	0	24	0	12	0	36	152
Hourly Total	0	0	113	162	0	275	0	0	0	0	0	0	0	55	205	0	0	260	0	117	0	69	0	186	721
8:00 PM	0	0	35	40	0	75	0	0	0	0	0	0	0	15	54	0	0	69	0	36	0	22	0	58	202
8:15 PM	0	0	26	35	0	61	0	0	0	0	0	0	0	11	31	0	0	42	0	20	0	18	0	38	141
8:30 PM	0	0	30	23	0	53	0	0	0	0	0	0	0	6	43	0	0	49	0	15	0	16	0	31	133
8:45 PM	0	0	27	20	0	47	0	0	0	0	0	0	0	9	48	0	0	57	0	25	0	15	0	40	144
Hourly Total	0	0	118	118	0	236	0	0	0	0	0	0	0	41	176	0	0	217	0	96	0	71	0	167	620
9:00 PM	0	0	13	23	0	36	0	0	0	0	0	0	0	5	46	0	0	51	0	28	0	17	0	45	132
9:15 PM	0	0	21	22	0	43	0	0	0	0	0	0	0	4	32	0	0	36	0	26	0	18	0	44	123
9:30 PM	0	0	17	14	0	31	0	0	0	0	0	0	0	4	25	0	0	29	0	26	0	10	0	36	96
9:45 PM	0	0	21	17	0	38	0	0	0	0	0	0	0	8	24	0	0	32	0	25	0	14	0	39	109
Hourly Total	0	0	72	76	0	148	0	0	0	0	0	0	0	21	127	0	0	148	0	105	0	59	0	164	460
10:00 PM	0	0	15	13	0	28	0	0	0	0	0	0	0	8	25	0	0	33	0	28	0	7	0	35	96
10:15 PM	1	0	12	10	0	23	0	0	0	0	0	0	0	7	25	0	0	32	0	17	0	10	0	27	82
10:30 PM	0	0	17	11	0	28	0	0	0	0	0	0	0	5	15	0	0	20	0	19	0	12	0	31	79
10:45 PM	0	0	15	3	0	18	0	0	0	0	0	0	0	5	13	0	0	18	0	13	0	8	0	21	57
Hourly Total	1	0	59	37	0	97	0	0	0	0	0	0	0	25	78	0	0	103	0	77	0	37	0	114	314
11:00 PM	1	0	15	2	0	18	0	0	0	0	0	0	0	2	13	0	0	15	1	11	0	1	0	13	46
11:15 PM	0	0	6	3	0	9	0	0	0	0	0	0	0	4	13	0	0	17	0	5	0	2	0	7	33
11:30 PM	0	0	3	5	0	8	0	0	0	0	0	0	0	2	10	0	0	12	0	5	0	0	0	5	25
11:45 PM	0	0	3	7	0	10	0	0	0	0	0	0	0	2	6	0	0	8	0	3	0	0	0	3	21
Hourly Total	1	0	27	17	0	45	0	0	0	0	0	0	0	10	42	0	0	52	1	24	0	3	0	28	125
DAILY TOTAL	4	0	4126	3567	2	7697	0	0	0	0	0	0	0	1412	5322	0	3	6734	2	3061	0	1746	8	4809	19240
Cars	4	0	4046	3480	2	7530	0	0	0	0	0	0	0	1382	5188	0	3	6570	1	2981	0	1702	8	4684	18784
Heavy Vehicles	0	0	80	87	0	167	0	0	0	0	0	0	0	30	134	0	0	164	1	80	0	44	0	125	456
Heavy Vehicle %	0.00%	0.00%	1.94%	2.44%	0.00%	2.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.12%	2.52%	0.00%	0.00%	2.44%	50.00%	2.61%	0.00%	2.52%	0.00%	2.60%	2.37%

TMC 2319 - CSAH 11 @ 99th Ave

0 0

Tuesday, March 28, 2023

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	
7:00 AM	0	0	92	51	0	143	0	0	0	0	0	0	0	15	52	0	0	67	0	49	0	28	0	77	287
7:15 AM	0	0	80	41	0	121	0	0	0	0	0	0	0	11	73	0	0	84	0	39	0	44	0	83	288
7:30 AM	0	0	104	44	0	148	0	0	0	0	0	0	0	18	66	0	0	84	0	57	0	30	0	87	319
7:45 AM	0	0	119	63	0	182	0	0	0	0	0	0	0	16	52	0	0	68	0	53	0	29	0	82	332
Peak Hour Total PHF	0	0	395	199	0	594	0	0	0	0	0	0	0	60	243	0	0	303	0	198	0	131	0	329	1226
	0.000	0.000	0.830	0.790	0.000	0.816	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.833	0.832	0.000	0.000	0.902	0.000	0.868	0.000	0.744	0.000	0.945	0.923

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	
4:00 PM	0	0	76	75	0	151	0	0	0	0	0	0	0	25	164	0	0	189	0	78	0	35	0	113	453
4:15 PM	0	0	77	100	0	177	0	0	0	0	0	0	0	38	173	0	0	211	0	57	0	37	0	94	482
4:30 PM	0	0	76	83	0	159	0	0	0	0	0	0	0	26	215	0	0	241	0	75	0	38	1	113	513
4:45 PM	0	0	95	89	0	184	0	0	0	0	0	0	0	29	172	0	0	201	0	54	0	24	0	78	463
Peak Hour Total PHF	0	0	324	347	0	671	0	0	0	0	0	0	0	118	724	0	0	842	0	264	0	134	1	398	1911
	0.000	0.000	0.853	0.868	0.000	0.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.776	0.842	0.000	0.000	0.873	0.000	0.846	0.000	0.882	0.250	0.881	0.931

Total Vehicles On Leg		16084			
Vehicles Entering Intersection		7697	Vehicles Exiting Intersection		8387
Southbound					
Cars	3480	4046	0	4	2
Heavy	87	80	0	0	0
Total	3567	4126	0	4	2



Total Vehicles on Leg 9790	Vehicles Entering Intersection 4809	Eastbound	Cars	Heavy	Total	
			8	0	8	
			1	1	2	
	2981		80	3061		
	Vehicles Exiting Intersection 4981		0	0	0	
		1702	44	1746		

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 0	Total Vehicles on Leg 0
0	0	0			
0	0	0			
0	0	0			
0	0	0			
0	0	0	Vehicles Exiting Intersection 0		



Cars	3	0	1382	5188	0
Heavy	0	0	30	134	0
Total	3	0	1412	5322	0
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
6734			5872		
Total Vehicles On Leg		12606			

Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound					
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk
03/28/2023	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	0:45	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
	1:15	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	1:45	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	3:00	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	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4:15	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	2	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	1	0	0
	5:15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
	5:30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	6:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	6:15	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0
	6:30	0	0	3	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0
	6:45	0	0	3	3	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	2	0	1	0	0
	7:00	0	0	1	1	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	3	0	3	0	0
	7:15	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	1	0	1	0	0
	7:30	0	0	1	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	3	0	0	0	0
	7:45	0	0	0	3	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	2	0	2	0	0
	8:00	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	1	0	0
	8:15	0	0	2	8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	0	2	0	0
	8:30	0	0	1	1	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	1	0	2	0	0
	8:45	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	4	0	3	0	0
	9:00	0	0	3	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	1	0	1	0	0
	9:15	0	0	0	1	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0	3	0	1	0	0
	9:30	0	0	2	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0
	9:45	0	0	2	3	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	2	0	0	0	0
	10:00	0	0	2	2	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	1	0	0
	10:15	0	0	0	2	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	2	0	1	0	0
	10:30	0	0	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0
	10:45	0	0	2	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
	11:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0
	11:15	0	0	4	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0
	11:30	0	0	3	4	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	6	0	2	0	0

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2319

Study Date : 04/20/2023

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 11 (Foley Blvd)

Number of Lanes : 2+

Total Approach Volume: 6,734

Southbound: CSAH 11 (Foley Blvd)

Number of Lanes :2+

Total Approach Volume: 7,697

Minor Street Approaches

Eastbound: 99th Ave

Number of Lanes :1

Total Approach Volume: 4,809

Warrant Summary (Urban Values Apply)

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

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

Required volumes reached for 13 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Not Satisfied

Required volumes reached for 6 hours, 8 are needed

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

Required 1A volumes reached for 14 hours, 8 are needed

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

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

Number of hours (12) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (56) 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 2319

Study Date : 04/20/2023

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

13 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 = **600**

Veh/Hr Minor = **150**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 11 (Foley Blvd)					99th Ave		
16:15 - 17:15	847	+	668	=	1515	381	0	Yes
15:15 - 16:15	735	+	659	=	1394	392	0	Yes
14:15 - 15:15	581	+	549	=	1130	354	0	Yes
17:15 - 18:15	582	+	533	=	1115	325	0	Yes
07:15 - 08:15	316	+	584	=	900	319	0	Yes
13:15 - 14:15	429	+	463	=	892	298	0	Yes
12:15 - 13:15	400	+	454	=	854	344	0	Yes
09:15 - 10:15	354	+	487	=	841	249	0	Yes
08:15 - 09:15	331	+	471	=	802	251	0	Yes
11:15 - 12:15	337	+	429	=	766	278	0	Yes
18:15 - 19:15	332	+	383	=	715	257	0	Yes
06:15 - 07:15	208	+	488	=	696	269	0	Yes
10:15 - 11:15	299	+	361	=	660	252	0	Yes
06:00 - 07:00	176	+	390	=	566	231	0	No
19:15 - 20:15	263	+	265	=	528	188	0	No
19:30 - 20:30	249	+	249	=	498	176	0	No
05:45 - 06:45	161	+	307	=	468	203	0	No
19:45 - 20:45	219	+	246	=	465	163	0	No
20:00 - 21:00	217	+	236	=	453	167	0	No
05:30 - 06:30	145	+	265	=	410	165	0	No
20:15 - 21:15	199	+	197	=	396	154	0	No
20:30 - 21:30	193	+	179	=	372	160	0	No
05:15 - 06:15	120	+	231	=	351	145	0	No
20:45 - 21:45	173	+	157	=	330	165	0	No
05:00 - 06:00	105		219		324	129	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2319

Study Date : 04/20/2023

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 6 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 = **900**

Veh/Hr Minor = **75**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 11 (Foley Blvd)					99th Ave		
16:30 - 17:30	810	+	644	=	1454	373	0	Yes
15:30 - 16:30	770	+	665	=	1435	400	0	Yes
14:30 - 15:30	642	+	574	=	1216	374	0	Yes
17:30 - 18:30	512	+	488	=	1000	309	0	Yes
13:30 - 14:30	448	+	490	=	938	299	0	Yes
07:15 - 08:15	316	+	584	=	900	319	0	Yes
07:00 - 08:00	303	+	594	=	897	329	0	No
13:15 - 14:15	429	+	463	=	892	298	0	No
13:00 - 14:00	406	+	454	=	860	297	0	No
06:45 - 07:45	288	+	570	=	858	316	0	No
12:15 - 13:15	400	+	454	=	854	344	0	No
09:00 - 10:00	362	+	491	=	853	248	0	No
12:45 - 13:45	392	+	453	=	845	290	0	No
12:30 - 13:30	395	+	449	=	844	326	0	No
09:15 - 10:15	354	+	487	=	841	249	0	No
12:00 - 13:00	384	+	444	=	828	320	0	No
08:45 - 09:45	357	+	465	=	822	249	0	No
08:30 - 09:30	345	+	461	=	806	230	0	No
11:45 - 12:45	383	+	419	=	802	315	0	No
08:15 - 09:15	331	+	471	=	802	251	0	No
11:30 - 12:30	345	+	449	=	794	304	0	No
09:30 - 10:30	336	+	451	=	787	255	0	No
06:30 - 07:30	254	+	533	=	787	302	0	No
11:15 - 12:15	337	+	429	=	766	278	0	No
11:00 - 12:00	334		420		754	271	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2319

Study Date : 04/20/2023

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

14 hours meet 1A minimums.
12 hours meet 1B 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

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

Veh/Hr Minor = **120 60**

Major Road CSAH 11 (Foley Blvd)

Minor Road 99th Ave

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:00 - 17:00	842	+	671	=	1513	398	0	Yes
15:00 - 16:00	725	+	641	=	1366	393	0	Yes
17:00 - 18:00	675	+	564	=	1239	338	0	Yes
14:00 - 15:00	520	+	528	=	1048	332	0	Yes
07:00 - 08:00	303	+	594	=	897	329	0	Yes
13:00 - 14:00	406	+	454	=	860	297	0	Yes
09:00 - 10:00	362	+	491	=	853	248	0	Yes
12:00 - 13:00	384	+	444	=	828	320	0	Yes
08:00 - 09:00	315	+	490	=	805	259	0	Yes
18:00 - 19:00	367	+	415	=	782	284	0	Yes
11:00 - 12:00	334	+	420	=	754	271	0	Yes
10:00 - 11:00	311	+	387	=	698	252	0	Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	807	+	657	=	1464	406	0	Yes
16:45 - 17:45	730	+	637	=	1367	344	0	Yes
14:45 - 15:45	712	+	625	=	1337	386	0	Yes
13:45 - 14:45	479	+	504	=	983	335	0	Yes
07:30 - 08:30	312	+	591	=	903	317	0	Yes
17:45 - 18:45	441	+	419	=	860	306	0	Yes
12:45 - 13:45	392	+	453	=	845	290	0	Yes
08:30 - 09:30	345	+	461	=	806	230	0	Yes
11:45 - 12:45	383	+	419	=	802	315	0	Yes
06:30 - 07:30	254	+	533	=	787	302	0	Yes
09:30 - 10:30	336	+	451	=	787	255	0	Yes
10:45 - 11:45	322	+	420	=	742	261	0	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2319

Study Date : 04/20/2023

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.

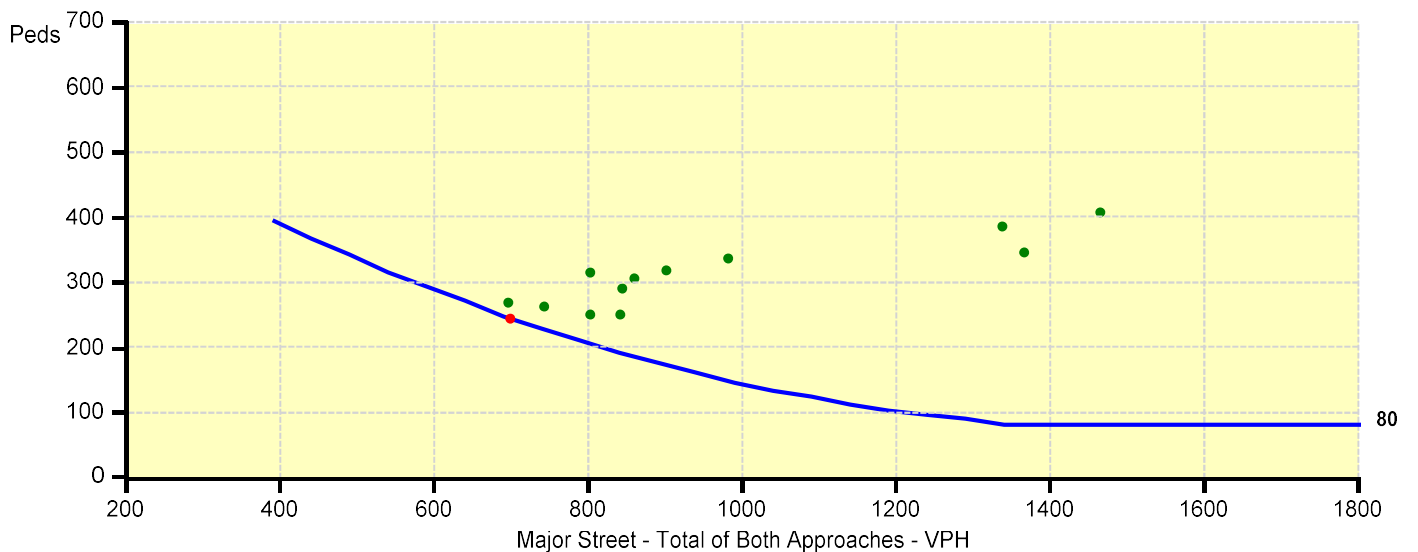
Summary

12 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 11 (Foley Blvd)					Minor Road 99th Ave		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
15:45 - 16:45	807	+	657	=	1464	406	0	Yes
16:45 - 17:45	730	+	637	=	1367	344	0	Yes
14:45 - 15:45	712	+	625	=	1337	386	0	Yes
13:45 - 14:45	479	+	504	=	983	335	0	Yes
07:15 - 08:15	316	+	584	=	900	319	0	Yes
17:45 - 18:45	441	+	419	=	860	306	0	Yes
12:45 - 13:45	392	+	453	=	845	290	0	Yes
09:15 - 10:15	354	+	487	=	841	249	0	Yes
11:45 - 12:45	383	+	419	=	802	315	0	Yes
08:15 - 09:15	331	+	471	=	802	251	0	Yes
10:45 - 11:45	322	+	420	=	742	261	0	Yes
06:15 - 07:15	208		488		696	269	0	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2319

Study Date : 04/20/2023

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

18 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 11 (Foley Blvd)					Minor Road 99th Ave		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:15 - 17:15	847	+	668	=	1515	381	0	Yes
16:00 - 17:00	842	+	671	=	1513	398	0	Yes
15:45 - 16:45	807	+	657	=	1464	406	0	Yes
16:30 - 17:30	810	+	644	=	1454	373	0	Yes
15:30 - 16:30	770	+	665	=	1435	400	0	Yes
15:15 - 16:15	735	+	659	=	1394	392	0	Yes
16:45 - 17:45	730	+	637	=	1367	344	0	Yes
15:00 - 16:00	725	+	641	=	1366	393	0	Yes
14:45 - 15:45	712	+	625	=	1337	386	0	Yes
17:00 - 18:00	675	+	564	=	1239	338	0	Yes
14:30 - 15:30	642	+	574	=	1216	374	0	Yes
14:15 - 15:15	581		549		1130	354	0	Yes

