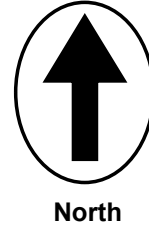


Date : 09/21/22

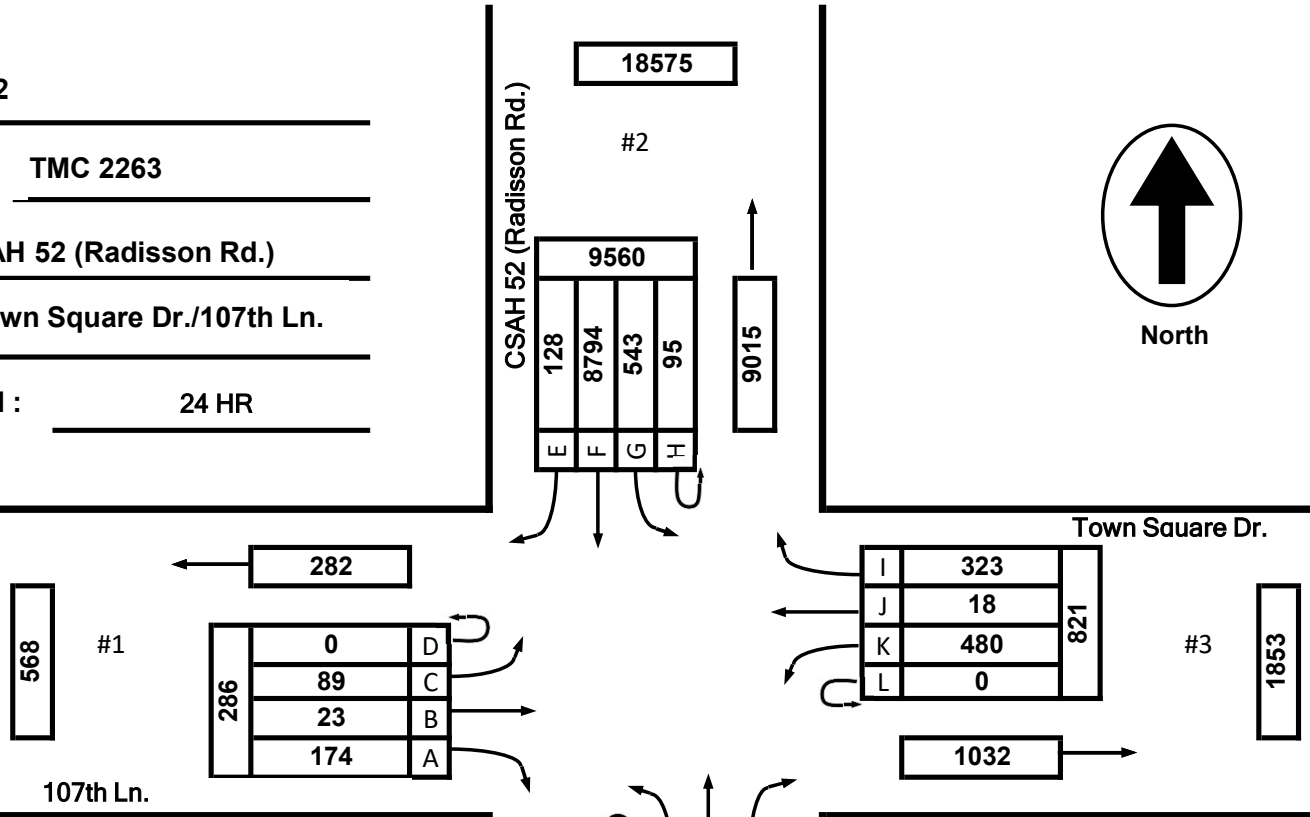
Count Number : TMC 2263

Location : CSAH 52 (Radisson Rd.)
@ Town Square Dr./107th Ln.

Collection Period : 24 HR



North



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

Anoka County Highway Department
 Traffic Volume and Turning Movement Study

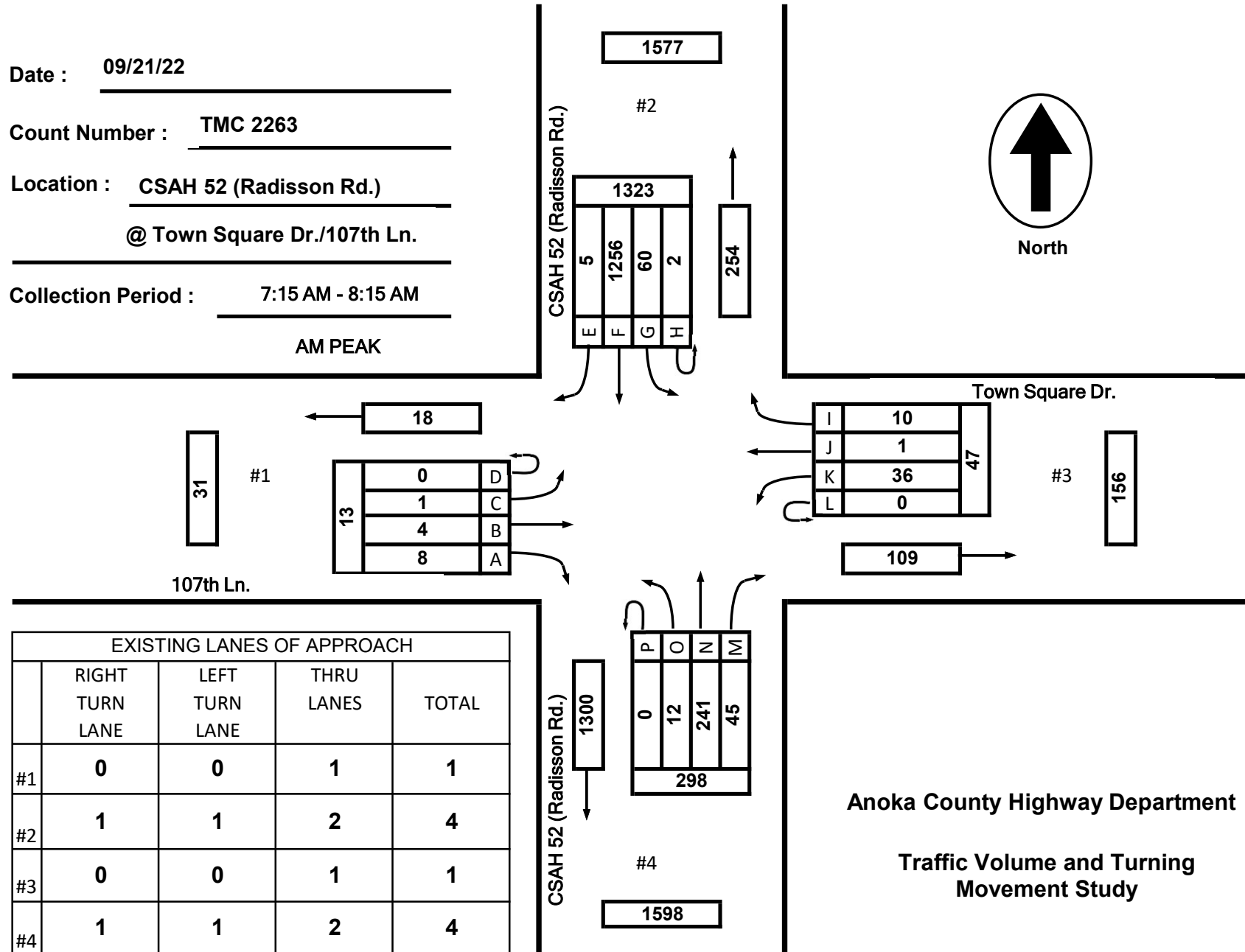
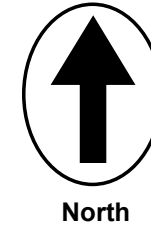
Date : 09/21/22

Count Number : TMC 2263

Location : CSAH 52 (Radisson Rd.)
@ Town Square Dr./107th Ln.

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	1	2	4
#3	0	0	1	1
#4	1	1	2	4

Anoka County Highway Department

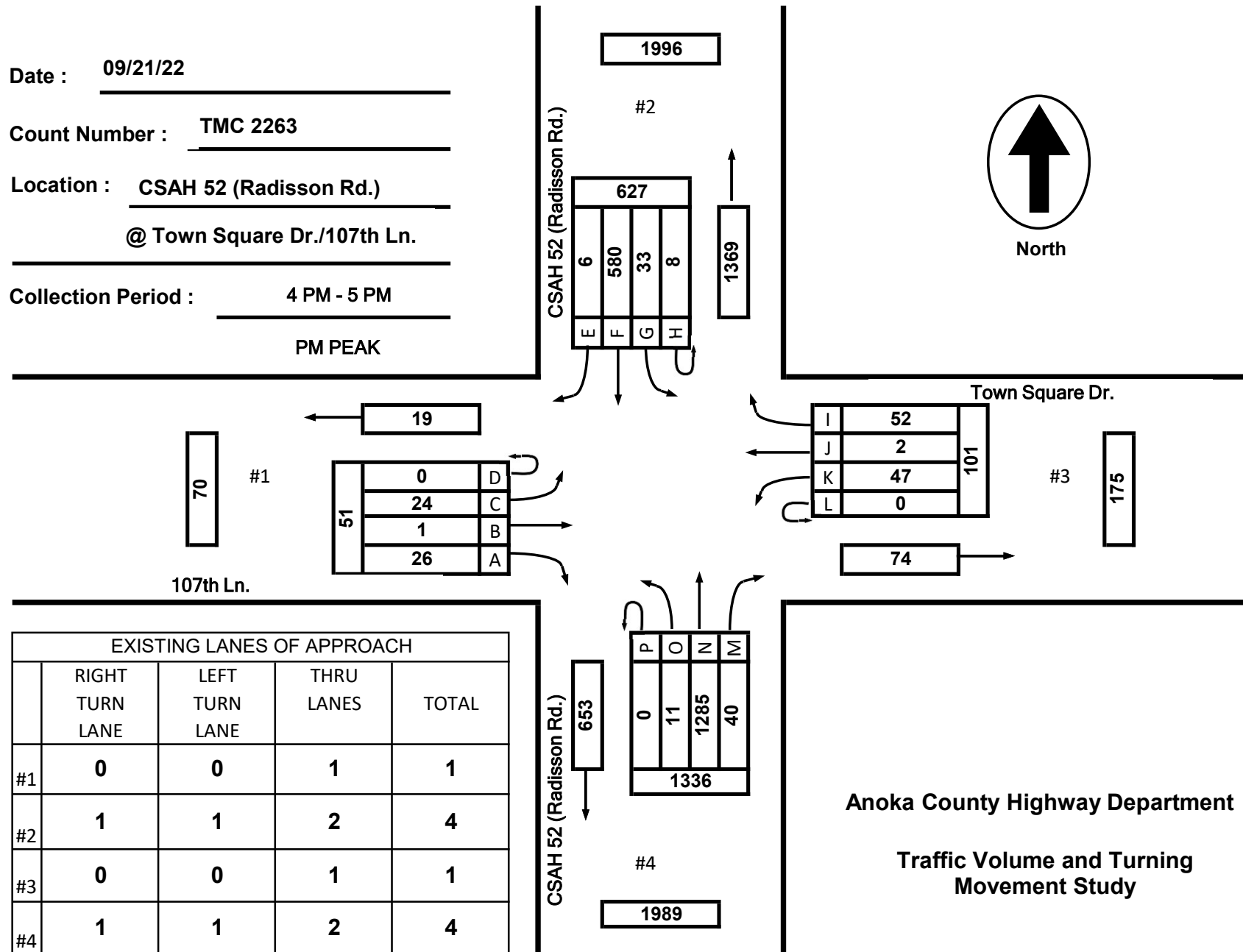
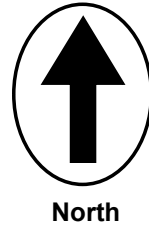
Traffic Volume and Turning Movement Study

Date : 09/21/22

Count Number : TMC 2263

Location : CSAH 52 (Radisson Rd.)
@ Town Square Dr./107th Ln.

Collection Period : 4 PM - 5 PM
PM PEAK



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

Anoka County Highway Department
 Traffic Volume and Turning Movement Study

TMC 2263
Blaine Minnesota
Wednesday, September 21, 2022

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Town Square Dr./107th Ln.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Town Square Dr./107th Ln.						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	19	0	0	19	0	1	0	0	0	1	1	0	16	0	0	17	0	1	0	1	0	2	39
12:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	13
12:30 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	10
12:45 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	9
Hourly Total	0	0	29	0	0	29	0	1	0	0	0	1	1	0	38	0	0	39	0	1	0	1	0	2	71
1:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4
1:15 AM	0	0	1	0	0	1	0	0	1	0	0	1	0	0	4	0	0	4	0	0	0	0	0	0	6
1:30 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	9
1:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	8
Hourly Total	0	0	12	0	0	12	0	0	0	1	0	1	0	0	14	0	0	14	0	0	0	0	0	0	27
2:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	6
2:15 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6
2:30 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	8
2:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5
Hourly Total	0	0	14	0	0	14	0	0	0	0	0	0	0	1	10	0	0	11	0	0	0	0	0	0	25
3:00 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
3:15 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7
3:30 AM	0	0	15	0	0	15	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	20
3:45 AM	0	0	14	0	0	14	0	0	0	0	0	0	0	1	6	0	0	7	0	0	0	0	0	0	21
Hourly Total	0	0	39	0	0	39	0	0	0	0	0	0	0	1	15	0	0	16	0	0	0	0	0	0	55
4:00 AM	0	0	17	1	0	18	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	22
4:15 AM	0	0	35	0	0	35	0	2	0	0	0	2	0	0	7	2	0	9	0	0	0	0	0	0	46
4:30 AM	1	0	50	2	0	53	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	59
4:45 AM	0	0	39	0	0	39	0	1	0	0	0	1	0	3	7	0	0	10	0	1	0	0	0	1	51
Hourly Total	1	0	141	3	0	145	0	3	0	0	0	3	0	3	23	2	0	28	0	1	0	1	0	2	178
5:00 AM	0	0	49	1	0	50	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	59
5:15 AM	0	2	93	1	0	96	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	1	0	1	108
5:30 AM	0	0	102	3	0	105	0	0	0	0	0	0	0	1	22	0	0	23	0	0	0	1	0	1	129
5:45 AM	0	0	131	7	0	138	0	4	0	0	0	4	0	0	22	2	0	24	0	0	1	0	0	1	167
Hourly Total	0	2	375	12	0	389	0	4	0	0	0	4	0	1	64	2	0	67	0	0	1	2	0	3	463
6:00 AM	0	2	159	5	0	166	0	0	0	0	0	0	0	2	17	0	0	19	0	0	0	0	0	0	185
6:15 AM	0	5	165	3	0	173	0	1	0	0	0	1	0	3	20	5	0	28	0	1	1	0	0	2	204
6:30 AM	0	9	204	3	0	216	0	3	1	0	0	4	0	1	30	1	0	32	0	0	0	2	0	2	254
6:45 AM	0	16	268	3	0	287	0	4	1	0	0	5	0	4	32	11	0	47	0	0	0	3	0	3	342
Hourly Total	0	32	796	14	0	842	0	8	2	0	0	10	0	10	99	17	0	126	0	1	1	5	0	7	985
7:00 AM	1	13	236	5	0	255	0	3	0	0	0	3	0	2	53	7	0	62	0	0	0	1	1	1	321
7:15 AM	0	11	339	2	0	352	0	4	1	1	0	6	0	2	52	8	1	62	0	0	1	0	0	1	421
7:30 AM	1	14	319	1	0	335	0	15	0	0	0	15	0	2	59	12	0	73	0	0	1	6	0	7	430
7:45 AM	1	20	364	2	0	387	0	6	0	3	0	9	0	3	66	13	0	82	0	0	1	2	0	3	481
Hourly Total	3	58	1258	10	0	1329	0	28	1	4	0	33	0	9	230	40	1	279	0	0	3	9	1	12	1653

TMC 2263
Blaine Minnesota
Wednesday, September 21, 2022

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Town Square Dr./107th Ln.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Town Square Dr./107th Ln.						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	15	234	0	0	249	0	11	0	6	0	17	0	5	64	12	0	81	0	1	1	0	0	2	349
8:15 AM	3	12	198	5	0	218	0	6	0	5	0	11	0	3	51	15	0	69	0	1	0	5	0	6	304
8:30 AM	0	8	199	2	0	209	0	7	0	10	0	17	0	4	72	7	0	83	0	0	0	1	0	1	310
8:45 AM	1	16	138	5	0	160	0	7	1	4	0	12	0	3	79	12	0	94	0	0	0	6	0	6	272
Hourly Total	4	51	769	12	0	836	0	31	1	25	0	57	0	15	266	46	0	327	0	2	1	12	0	15	1235
9:00 AM	0	13	148	2	0	163	0	7	1	5	0	13	0	1	60	14	0	75	0	1	0	2	0	3	254
9:15 AM	3	12	153	3	0	171	0	9	0	3	0	12	0	4	67	8	0	79	0	3	1	1	1	5	267
9:30 AM	1	13	137	4	0	155	0	11	0	12	0	23	0	2	59	10	0	71	0	0	2	4	0	6	255
9:45 AM	1	11	108	1	0	121	0	8	1	7	0	16	0	7	59	4	0	70	0	1	0	3	0	4	211
Hourly Total	5	49	546	10	0	610	0	35	2	27	0	64	0	14	245	36	0	295	0	5	3	10	1	18	987
10:00 AM	4	8	102	2	0	116	0	11	0	10	0	21	0	2	71	5	0	78	0	0	0	4	0	4	219
10:15 AM	2	9	103	2	0	116	0	6	0	11	0	17	0	0	51	6	0	57	0	3	1	5	0	9	199
10:30 AM	4	4	94	3	0	105	0	9	1	6	0	16	0	5	67	6	0	78	0	2	2	2	1	6	205
10:45 AM	2	13	118	1	0	134	0	7	0	9	0	16	1	2	58	14	0	75	0	0	0	2	0	2	227
Hourly Total	12	34	417	8	0	471	0	33	1	36	0	70	1	9	247	31	0	288	0	5	3	13	1	21	850
11:00 AM	2	15	100	1	0	118	0	12	1	5	0	18	0	2	65	7	0	74	0	0	0	3	0	3	213
11:15 AM	1	10	105	0	0	116	0	9	0	11	0	20	0	3	79	9	0	91	0	0	2	4	0	6	233
11:30 AM	0	10	106	1	0	117	0	14	0	9	0	23	0	1	95	10	0	106	0	1	0	6	1	7	253
11:45 AM	0	10	94	1	0	105	0	19	1	11	0	31	0	3	78	10	0	91	0	1	1	5	0	7	234
Hourly Total	3	45	405	3	0	456	0	54	2	36	0	92	0	9	317	36	0	362	0	2	3	18	1	23	933
12:00 PM	3	6	119	4	0	132	0	12	0	5	0	17	0	2	111	5	0	118	0	3	0	5	0	8	275
12:15 PM	3	7	102	3	0	115	0	13	0	7	0	20	0	2	85	9	0	96	0	0	1	2	1	3	234
12:30 PM	2	8	109	0	0	119	0	11	0	1	0	12	0	3	109	8	0	120	0	1	0	6	0	7	258
12:45 PM	2	12	105	1	0	120	0	10	0	3	0	13	0	5	112	15	1	132	0	1	0	0	0	1	266
Hourly Total	10	33	435	8	0	486	0	46	0	16	0	62	0	12	417	37	1	466	0	5	1	13	1	19	1033
1:00 PM	1	11	112	2	0	126	0	12	0	7	0	19	0	2	80	4	0	86	0	2	2	7	0	11	242
1:15 PM	1	18	88	2	0	109	0	12	2	1	0	15	0	2	101	17	0	120	0	1	1	0	1	2	246
1:30 PM	1	10	68	0	0	79	0	8	1	6	0	15	0	1	119	10	0	130	0	0	0	1	0	1	225
1:45 PM	1	15	99	6	0	121	0	9	0	9	0	18	0	4	106	11	0	121	0	4	0	4	0	8	268
Hourly Total	4	54	367	10	0	435	0	41	3	23	0	67	0	9	406	42	0	457	0	7	3	12	1	22	981
2:00 PM	4	9	94	7	0	114	0	4	0	8	0	12	0	4	130	10	1	144	0	1	0	4	0	5	275
2:15 PM	1	16	94	2	0	113	0	7	0	7	0	14	0	5	150	6	0	161	0	0	0	1	0	1	289
2:30 PM	1	12	117	2	0	132	0	12	1	5	0	18	1	5	150	11	1	167	0	1	0	5	0	6	323
2:45 PM	2	10	85	2	0	99	0	10	0	12	0	22	0	2	151	17	0	170	0	1	0	5	0	6	297
Hourly Total	8	47	390	13	0	458	0	33	1	32	0	66	1	16	581	44	2	642	0	3	0	15	0	18	1184
3:00 PM	3	11	97	5	0	116	0	12	1	9	0	22	0	0	211	8	0	219	0	7	0	2	0	9	366
3:15 PM	2	8	127	2	0	139	0	9	2	3	1	14	0	3	221	10	0	234	0	1	0	3	0	4	391
3:30 PM	3	10	120	1	0	134	0	13	0	10	0	23	0	4	270	12	0	286	0	3	0	9	0	12	455
3:45 PM	2	15	131	3	0	151	0	11	0	9	0	20	0	3	298	9	0	310	0	3	1	4	0	8	489
Hourly Total	10	44	475	11	0	540	0	45	3	31	1	79	0	10	1000	39	0	1049	0	14	1	18	0	33	1701

TMC 2263
Blaine Minnesota
Wednesday, September 21, 2022

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Town Square Dr./107th Ln.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Town Square Dr./107th Ln.						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	8	142	2	0	152	0	11	0	12	0	23	0	2	328	6	0	336	0	13	0	9	0	22	533
4:15 PM	4	6	117	1	0	128	0	12	0	15	0	27	0	4	317	13	0	334	0	3	1	4	0	8	497
4:30 PM	2	6	166	1	0	175	0	13	0	15	0	28	0	2	325	10	0	337	0	5	0	9	0	14	554
4:45 PM	2	13	155	2	0	172	0	11	2	10	0	23	0	3	315	11	0	329	0	3	0	4	0	7	531
Hourly Total	8	33	580	6	0	627	0	47	2	52	0	101	0	11	1285	40	0	1336	0	24	1	26	0	51	2115
5:00 PM	1	4	149	0	0	154	0	11	0	10	1	21	0	2	310	8	0	320	0	4	0	3	1	7	502
5:15 PM	6	5	154	1	0	166	0	4	0	7	0	11	0	0	300	8	0	308	0	3	0	1	0	4	489
5:30 PM	1	6	100	1	0	108	0	6	0	7	0	13	0	0	268	5	0	273	0	2	0	2	0	4	398
5:45 PM	0	7	146	1	0	154	0	5	0	1	1	6	0	0	245	4	0	249	0	1	0	3	0	4	413
Hourly Total	8	22	549	3	0	582	0	26	0	25	2	51	0	2	1123	25	0	1150	0	10	0	9	1	19	1802
6:00 PM	5	3	150	1	0	159	0	6	0	4	1	10	0	2	223	1	0	226	0	3	1	1	0	5	400
6:15 PM	2	10	119	0	0	131	0	1	0	1	0	2	0	0	222	8	0	230	0	1	0	0	0	1	364
6:30 PM	2	4	120	0	0	126	0	9	0	1	0	10	0	0	180	3	0	183	0	0	0	1	0	1	320
6:45 PM	0	0	80	1	0	81	0	4	0	0	0	4	0	0	123	2	0	125	0	0	0	1	1	1	211
Hourly Total	9	17	469	2	0	497	0	20	0	6	1	26	0	2	748	14	0	764	0	4	1	3	1	8	1295
7:00 PM	0	3	72	0	0	75	0	1	0	2	0	3	0	0	144	2	0	146	0	0	0	0	0	0	224
7:15 PM	2	2	114	0	0	118	0	3	0	0	0	3	0	0	152	3	0	155	0	0	0	2	0	2	278
7:30 PM	1	3	69	1	0	74	0	3	0	0	0	3	0	0	149	5	0	154	0	1	0	0	0	1	232
7:45 PM	2	1	77	0	0	80	0	1	0	0	0	1	0	0	113	1	0	114	0	0	0	2	0	2	197
Hourly Total	5	9	332	1	0	347	0	8	0	2	0	10	0	0	558	11	0	569	0	1	0	4	0	5	931
8:00 PM	1	3	60	1	0	65	0	2	0	0	0	2	0	0	95	0	0	95	0	0	0	0	0	0	162
8:15 PM	0	1	42	0	0	43	0	2	0	4	0	6	0	0	101	0	0	101	0	0	0	1	0	1	151
8:30 PM	2	4	36	0	0	42	0	1	0	0	0	1	0	1	106	1	0	108	0	1	0	1	0	2	153
8:45 PM	1	0	40	0	0	41	0	0	0	0	0	0	0	0	68	0	0	68	0	0	0	1	0	1	110
Hourly Total	4	8	178	1	0	191	0	5	0	4	0	9	0	1	370	1	0	372	0	1	0	3	0	4	576
9:00 PM	0	0	39	0	0	39	0	0	0	1	0	1	0	0	74	0	0	74	0	2	0	0	0	2	116
9:15 PM	0	0	36	1	0	37	0	6	0	1	0	7	0	0	92	1	0	93	0	1	0	0	0	1	138
9:30 PM	0	0	39	0	0	39	0	2	0	0	0	2	0	1	65	1	0	67	0	0	0	0	0	0	108
9:45 PM	0	1	21	0	0	22	0	1	0	0	0	1	0	0	40	0	0	40	0	0	0	0	0	0	63
Hourly Total	0	1	135	1	0	137	0	9	0	2	0	11	0	1	271	2	0	274	0	3	0	0	0	3	425
10:00 PM	0	1	26	0	0	27	0	0	0	0	0	0	0	0	28	0	0	28	0	0	0	0	0	0	55
10:15 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	29	0	0	29	0	0	0	0	0	0	41
10:30 PM	0	1	9	0	0	10	0	0	0	0	0	0	0	0	31	0	0	31	0	0	1	0	0	1	42
10:45 PM	1	1	9	0	0	11	0	0	0	0	0	0	0	0	26	0	0	26	0	0	0	0	0	0	37
Hourly Total	1	3	56	0	0	60	0	0	0	0	0	0	0	0	114	0	0	114	0	0	1	0	0	1	175
11:00 PM	0	0	10	0	0	10	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	0	34
11:15 PM	0	0	6	0	0	6	0	2	0	0	0	2	0	0	13	0	0	13	0	0	0	0	0	0	21
11:30 PM	0	1	6	0	0	7	0	0	0	0	0	0	0	0	19	1	0	20	0	0	0	0	0	0	27
11:45 PM	0	0	5	0	0	5	0	1	0	1	0	2	0	0	11	0	0	11	0	0	0	0	0	0	18
Hourly Total	0	1	27	0	0	28	0	3	0	1	0	4	0	0	67	1	0	68	0	0	0	0	0	0	100
DAILY TOTAL	95	543	8794	128	0	9560	0	480	18	323	4	821	3	136	8508	466	4	9113	0	89	23	174	8	286	19780
Cars	95	540	8514	114	0	9263	0	476	16	318	0	810	3	122	8292	462	3	8879	0	88	23	140	6	251	19203
Heavy Vehicles	0	3	280	14	0	297	0	4	2	5	4	11	0	14	216	4	1	234	0	1	0	34	2	35	577
Heavy Vehicle %	0.00%	0.55%	3.18%	10.94%	0.00%	3.11%	0.00%	0.83%	11.11%	1.55%	100.00%	1.34%	0.00%	10.29%	2.54%	0.86%	25.00%	2.57%	0.00%	1.12%	0.00%	19.54%	25.00%	12.24%	2.92%

TMC 2263
Blaine Minnesota
Wednesday, September 21, 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	11	339	2	0	352	0	4	1	1	0	6	0	2	52	8	1	62	0	0	1	0	0	1	0	0	1	0	0	1	421
7:30 AM	1	14	319	1	0	335	0	15	0	0	0	15	0	2	59	12	0	73	0	0	1	6	0	7	0	0	1	6	0	7	430
7:45 AM	1	20	364	2	0	387	0	6	0	3	0	9	0	3	66	13	0	82	0	0	1	2	0	3	0	0	1	2	0	3	481
8:00 AM	0	15	234	0	0	249	0	11	0	6	0	17	0	5	64	12	0	81	0	1	1	0	0	2	0	1	1	0	0	2	349
Peak Hour Total	2	60	1256	5	0	1323	0	36	1	10	0	47	0	12	241	45	1	298	0	1	4	8	0	13	0	1	4	8	0	13	1681
PHF	0.500	0.750	0.863	0.625	0.000	0.855	0.000	0.600	0.250	0.417	0.000	0.691	0.000	0.600	0.913	0.865	0.250	0.909	0.000	0.250	1.000	0.333	0.000	0.464	0.000	0.250	1.000	0.333	0.000	0.464	0.874

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	8	142	2	0	152	0	11	0	12	0	23	0	2	328	6	0	336	0	13	0	9	0	22	0	13	0	9	0	22	533
4:15 PM	4	6	117	1	0	128	0	12	0	15	0	27	0	4	317	13	0	334	0	3	1	4	0	8	0	3	1	4	0	8	497
4:30 PM	2	6	166	1	0	175	0	13	0	15	0	28	0	2	325	10	0	337	0	5	0	9	0	14	0	5	0	9	0	14	554
4:45 PM	2	13	155	2	0	172	0	11	2	10	0	23	0	3	315	11	0	329	0	3	0	4	0	7	0	3	0	4	0	7	531
Peak Hour Total	8	33	580	6	0	627	0	47	2	52	0	101	0	11	1285	40	0	1336	0	24	1	26	0	51	0	24	1	26	0	51	2115
PHF	0.500	0.635	0.873	0.750	0.000	0.896	0.000	0.904	0.250	0.867	0.000	0.902	0.000	0.688	0.979	0.769	0.000	0.991	0.000	0.462	0.250	0.722	0.000	0.580	0.000	0.462	0.250	0.722	0.000	0.580	0.954

Total Vehicles On Leg		18575	
Vehicles Entering Intersection		9560	
Vehicles Exiting Intersection		9015	
Southbound			
Cars	114	8514	540
Heavy	14	280	3
Total	128	8794	543

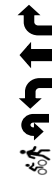


Total Vehicles on Leg 568	Vehicles Entering Intersection 286	Eastbound	Cars	6	2	8
			Heavy	0	0	0
			Total	88	1	89
	Vehicles Exiting Intersection 282		Cars	23	0	23
			Heavy	140	34	174



Daily Volumes

Cars	318	5	323	Westbound	Vehicles Entering Intersection 821	Total Vehicles on Leg 1853
Heavy	16	2	18			
Total	476	4	480			
Cars	0	0	0		Vehicles Exiting Intersection 1032	
Heavy	0	4	4			



Cars	3	3	122	8292	462
Heavy	1	0	14	216	4
Total	4	3	136	8508	466
Northbound					
Vehicles Entering Intersection			9113		
Vehicles Exiting Intersection			9451		
Total Vehicles On Leg			18564		



Heavy Vehicles

Date	Time	Southbound					Westbound					Northbound					Eastbound				
		U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles in Crosswalk
09/21/2022	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	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
	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
	1:30	0	0	0	0	0	0	0	0	0	0	0	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
	2:00	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
	2:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	2:45	0	0	0	0	0	0	0	0	0	0	0	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
	3:15	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
	3:45	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	4:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	4:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	4:45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	0	8	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	6:15	0	0	5	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
	6:30	0	0	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
	6:45	0	0	12	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
	7:00	0	0	3	1	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
	7:15	0	0	7	0	0	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0
	7:30	0	0	7	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	2	0
	7:45	0	0	5	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	8:00	0	0	6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
	8:15	0	0	4	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
	8:30	0	0	7	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
	8:45	0	0	3	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	1	0
9:00	0	0	5	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	
9:15	0	0	13	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	
9:30	0	1	10	1	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0	
9:45	0	0	4	0	0	0	0	0	1	0	0	0	6	0	0	0	0	0	0	0	
10:00	0	0	1	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	
10:15	0	0	3	0	0	0	0	1	0	0	0	0	6	0	0	0	0	0	2	0	
10:30	0	0	4	0	0	0	0	0	0	0	0	2	3	0	0	0	0	1	0	0	
10:45	0	0	5	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
11:00	0	0	6	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	
11:15	0	0	8	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	
11:30	0	0	6	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	2	0	
11:45	0	0	6	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2263

Study Date : 11/18/2022

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 52

Number of Lanes : 2+

Total Approach Volume: 9,113

Southbound: CSAH 52

Number of Lanes :2+

Total Approach Volume: 9,560

Minor Street Approaches

Eastbound: Town Square Dr/107th Lane

Number of Lanes :1

Total Approach Volume: 286

Westbound: Town Square Dr/107th Lane

Number of Lanes :1

Total Approach Volume: 821

Warrant Summary (Rural 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 10 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 10 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 (1) 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 2263

Study Date : 11/18/2022

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

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **420**
 Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 52					Town Square Dr/107th Lane		
16:00 - 17:00	1336	+	627	=	1963	51	101	No
16:30 - 17:30	1294	+	667	=	1961	32	83	No
16:15 - 17:15	1320	+	629	=	1949	36	99	No
15:45 - 16:45	1317	+	606	=	1923	52	98	No
15:30 - 16:30	1266	+	565	=	1831	50	93	No
16:45 - 17:45	1230	+	600	=	1830	22	68	No
15:15 - 16:15	1166	+	576	=	1742	46	80	No
17:00 - 18:00	1150	+	582	=	1732	19	51	No
17:15 - 18:15	1056	+	587	=	1643	17	40	No
07:15 - 08:15	298	+	1323	=	1621	13	47	No
07:00 - 08:00	279	+	1329	=	1608	12	33	No
15:00 - 16:00	1049	+	540	=	1589	33	79	No
17:30 - 18:30	978	+	552	=	1530	14	31	No
07:30 - 08:30	305	+	1189	=	1494	18	52	No
06:45 - 07:45	244	+	1229	=	1473	12	29	No
17:45 - 18:45	888	+	570	=	1458	11	28	No
14:45 - 15:45	909	+	488	=	1397	31	81	No
07:45 - 08:45	315	+	1063	=	1378	12	54	No
06:30 - 07:30	203	+	1110	=	1313	7	18	No
14:30 - 15:30	790	+	486	=	1276	25	76	No
18:00 - 19:00	764	+	497	=	1261	8	26	No
14:15 - 15:15	717	+	460	=	1177	22	76	No
08:00 - 09:00	327	+	836	=	1163	15	57	No
14:00 - 15:00	642	+	458	=	1100	18	66	No
06:15 - 07:15	169		931		1100	8	13	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2263

Study Date : 11/18/2022

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

10 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **630**
 Veh/Hr Minor = **53**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 52					Town Square Dr/107th Lane		
15:45 - 16:45	1317	+	606	=	1923	52	98	Yes
16:45 - 17:45	1230	+	600	=	1830	22	68	Yes
14:45 - 15:45	909	+	488	=	1397	31	81	Yes
07:45 - 08:45	315	+	1063	=	1378	12	54	Yes
13:45 - 14:45	593	+	480	=	1073	20	62	Yes
08:45 - 09:45	319	+	649	=	968	20	60	Yes
12:45 - 13:45	468	+	434	=	902	15	62	Yes
11:45 - 12:45	425	+	471	=	896	25	80	Yes
10:45 - 11:45	346	+	485	=	831	18	77	Yes
09:45 - 10:45	283	+	458	=	741	23	70	Yes
07:15 - 08:15	298	+	1323	=	1621	13	47	No
07:00 - 08:00	279	+	1329	=	1608	12	33	No
07:30 - 08:30	305	+	1189	=	1494	18	52	No
06:45 - 07:45	244	+	1229	=	1473	12	29	No
17:45 - 18:45	888	+	570	=	1458	11	28	No
06:30 - 07:30	203	+	1110	=	1313	7	18	No
18:00 - 19:00	764	+	497	=	1261	8	26	No
06:15 - 07:15	169	+	931	=	1100	8	13	No
18:15 - 19:15	684	+	413	=	1097	3	19	No
18:30 - 19:30	609	+	400	=	1009	4	20	No
06:00 - 07:00	126	+	842	=	968	7	10	No
18:45 - 19:45	580	+	348	=	928	4	13	No
19:00 - 20:00	569	+	347	=	916	5	10	No
19:15 - 20:15	518	+	337	=	855	5	9	No
05:45 - 06:45	103		693		796	5	9	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2263

Study Date : 11/18/2022

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

Site Data Required

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

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**

Veh/Hr Minor = **84 42**

Major Road

CSAH 52

Minor Road

Town Square Dr/107th Lane

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:30 - 16:30	1266	+	565	=	1831	50	93	Yes
11:00 - 12:00	362	+	456	=	818	23	92	Yes
16:30 - 17:30	1294	+	667	=	1961	32	83	No
16:45 - 17:45	1230	+	600	=	1830	22	68	No
15:15 - 16:15	1166	+	576	=	1742	46	80	No
17:00 - 18:00	1150	+	582	=	1732	19	51	No
17:15 - 18:15	1056	+	587	=	1643	17	40	No
07:15 - 08:15	298	+	1323	=	1621	13	47	No
07:00 - 08:00	279	+	1329	=	1608	12	33	No
15:00 - 16:00	1049	+	540	=	1589	33	79	No
17:30 - 18:30	978	+	552	=	1530	14	31	No
07:30 - 08:30	305	+	1189	=	1494	18	52	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:15 - 17:15	1320	+	629	=	1949	36	99	Yes
15:15 - 16:15	1166	+	576	=	1742	46	80	Yes
07:15 - 08:15	298	+	1323	=	1621	13	47	Yes
14:15 - 15:15	717	+	460	=	1177	22	76	Yes
08:15 - 09:15	321	+	750	=	1071	16	53	Yes
13:15 - 14:15	515	+	423	=	938	16	60	Yes
12:15 - 13:15	434	+	480	=	914	22	64	Yes
11:15 - 12:15	406	+	470	=	876	28	91	Yes
09:15 - 10:15	298	+	563	=	861	19	72	Yes
10:15 - 11:15	284	+	473	=	757	20	67	Yes
17:15 - 18:15	1056	+	587	=	1643	17	40	No
07:00 - 08:00	279	+	1329	=	1608	12	33	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2263

Study Date : 11/18/2022

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.

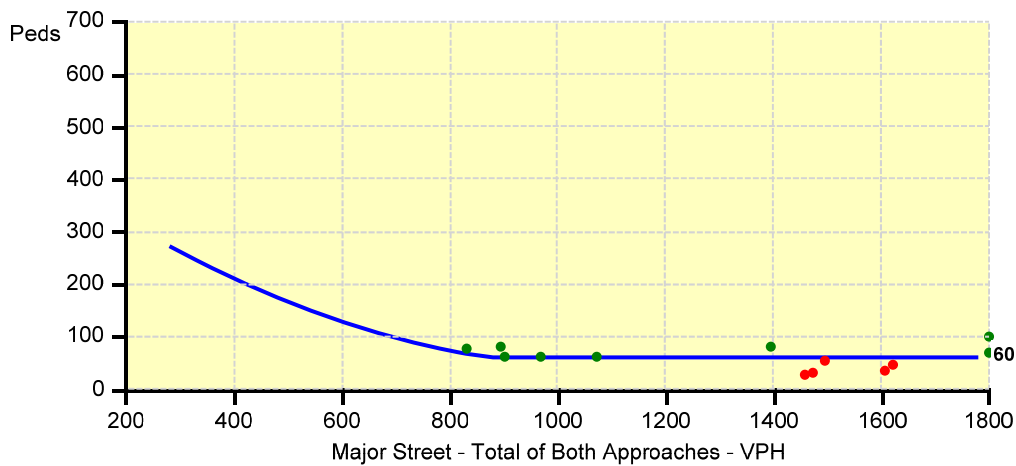
Summary

8 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Time	Major Road CSAH 52				Total	Minor Road Town Square Dr/107th Lane		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	1317	+	606	=	1923	52	98	Yes
16:45 - 17:45	1230	+	600	=	1830	22	68	Yes
14:45 - 15:45	909	+	488	=	1397	31	81	Yes
13:45 - 14:45	593	+	480	=	1073	20	62	Yes
08:45 - 09:45	319	+	649	=	968	20	60	Yes
12:45 - 13:45	468	+	434	=	902	15	62	Yes
11:45 - 12:45	425	+	471	=	896	25	80	Yes
10:45 - 11:45	346	+	485	=	831	18	77	Yes
07:15 - 08:15	298	+	1323	=	1621	13	47	No
07:00 - 08:00	279	+	1329	=	1608	12	33	No
07:30 - 08:30	305	+	1189	=	1494	18	52	No
							29	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2263

Study Date : 11/18/2022

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

10 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Time	Major Road CSAH 52				Total	Minor Road Town Square Dr/107th Lane		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	1336	+	627	=	1963	51	101	Yes
16:30 - 17:30	1294	+	667	=	1961	32	83	Yes
16:15 - 17:15	1320	+	629	=	1949	36	99	Yes
15:45 - 16:45	1317	+	606	=	1923	52	98	Yes
15:30 - 16:30	1266	+	565	=	1831	50	93	Yes
15:15 - 16:15	1166	+	576	=	1742	46	80	Yes
15:00 - 16:00	1049	+	540	=	1589	33	79	Yes
14:45 - 15:45	909	+	488	=	1397	31	81	Yes
14:30 - 15:30	790	+	486	=	1276	25	76	Yes
14:15 - 15:15	717	+	460	=	1177	22	76	Yes
16:45 - 17:45	1230	+	600	=	1830	22	68	No
							51	No

