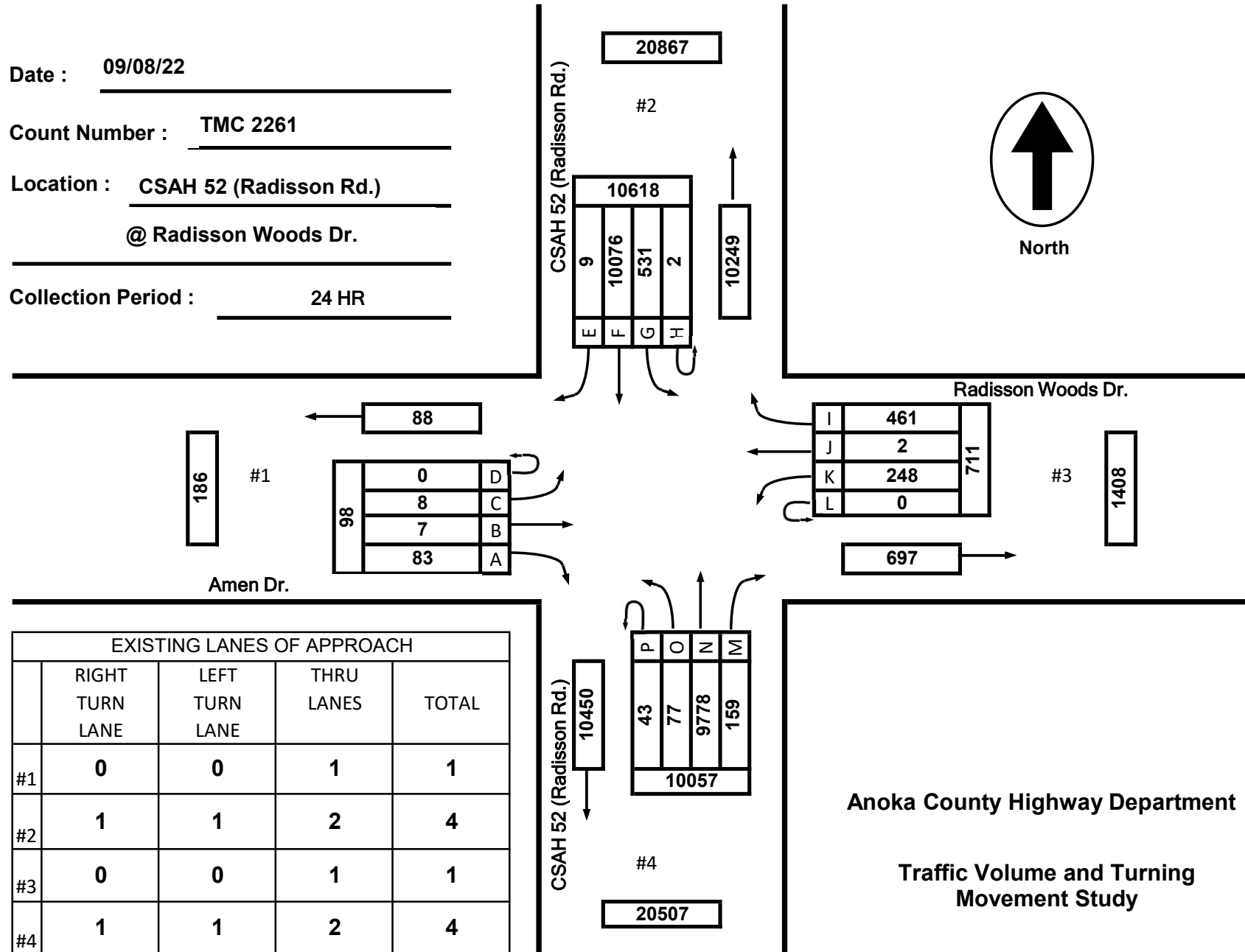


Date : 09/08/22

Count Number : TMC 2261

Location : CSAH 52 (Radisson Rd.)  
@ Radisson Woods Dr.

Collection Period : 24 HR



Anoka County Highway Department

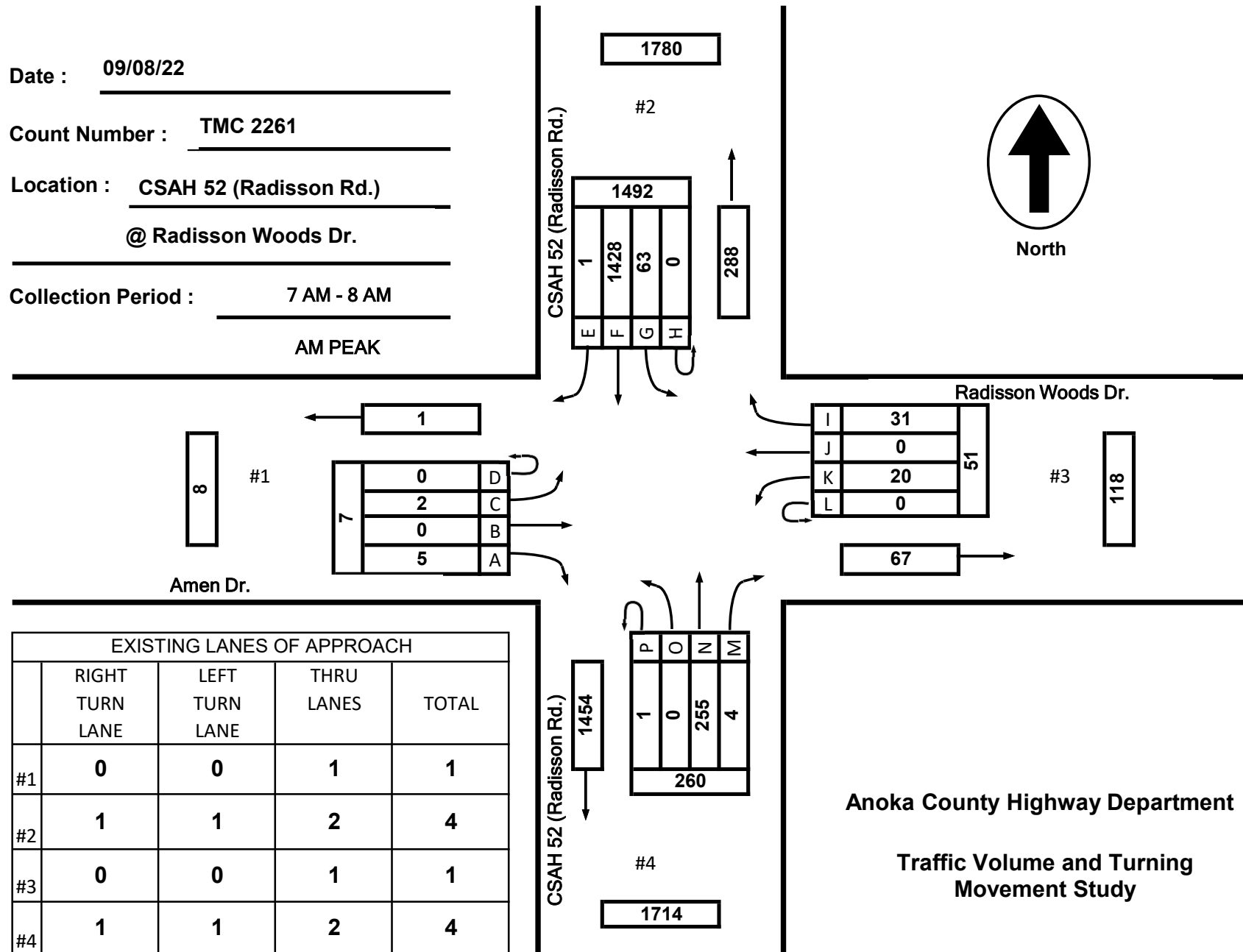
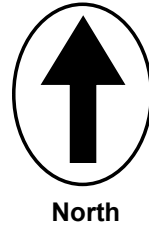
Traffic Volume and Turning Movement Study

Date : 09/08/22

Count Number : TMC 2261

Location : CSAH 52 (Radisson Rd.)  
@ Radisson Woods Dr.

Collection Period : 7 AM - 8 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

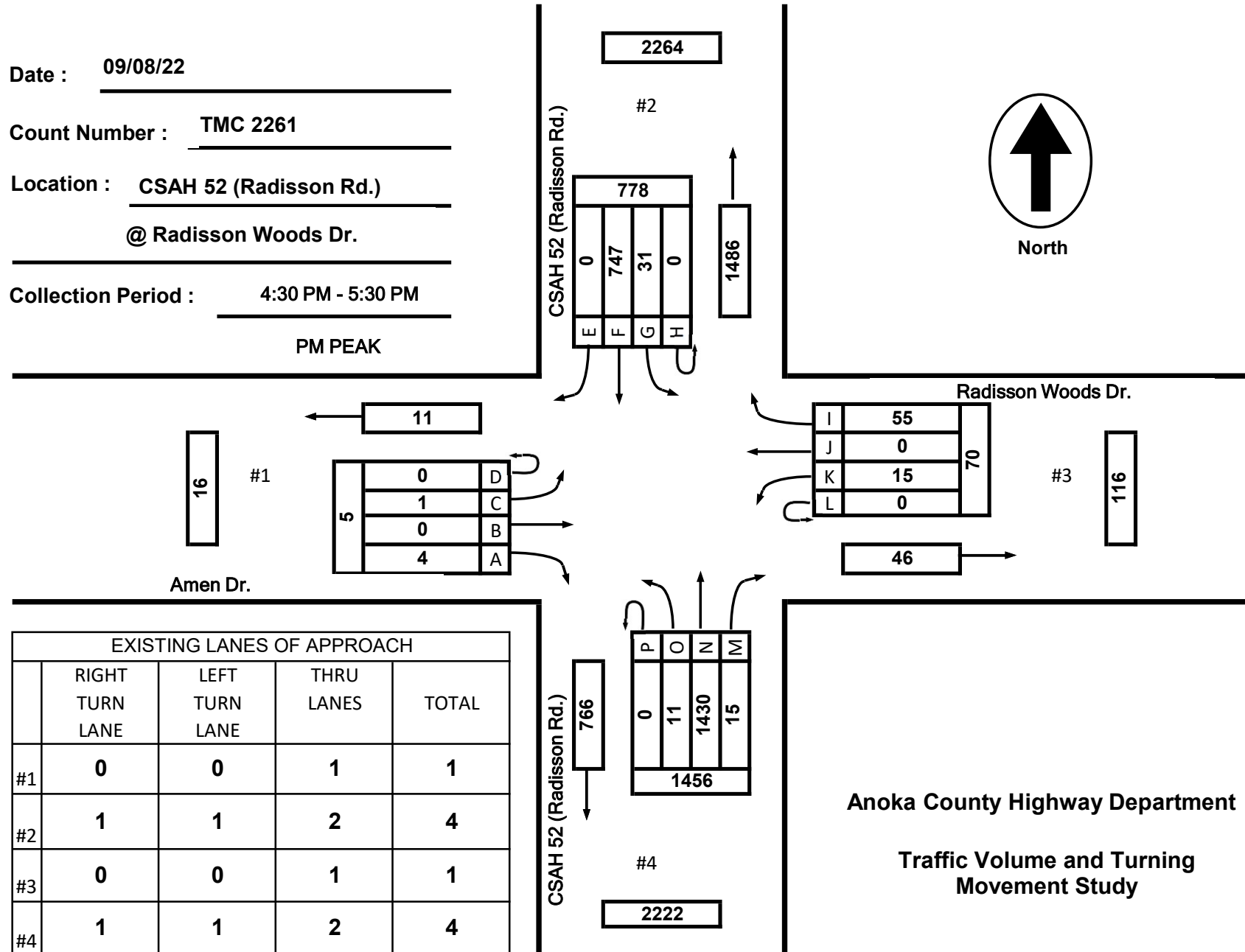
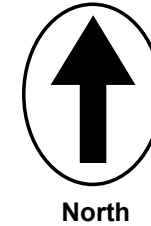
Date : 09/08/22

Count Number : TMC 2261

Location : CSAH 52 (Radisson Rd.)  
@ Radisson Woods Dr.

Collection Period : 4:30 PM - 5:30 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 2261**  
**Blaine Minnesota**  
**Thursday, September 8, 2022**

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Radisson Woods Dr.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Radisson Woods Dr.						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	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
12:15 AM	0	0	14	0	0	14	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	25
12:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	7
12:45 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	11
Hourly Total	0	0	20	0	0	20	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	52
1:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	7
1:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4
1:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	6
1:45 AM	0	1	1	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	5
Hourly Total	0	1	7	0	0	8	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	22
2:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	6	1	0	0	7	0	0	0	0	0	10
2:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	4
2:30 AM	0	0	4	0	0	4	0	0	1	0	0	1	0	0	4	0	0	0	4	0	0	0	0	0	9
2:45 AM	0	1	4	0	0	5	0	0	0	0	0	0	1	0	3	0	0	0	4	0	0	0	0	0	9
Hourly Total	0	1	12	0	0	13	0	0	1	0	0	1	1	0	16	1	0	0	18	0	0	0	0	0	32
3:00 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	7
3:15 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	12
3:30 AM	0	0	7	0	0	7	0	1	0	0	0	1	0	0	4	0	0	0	4	0	0	0	0	0	12
3:45 AM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	12
Hourly Total	0	0	30	0	0	30	0	1	0	0	0	1	0	0	12	0	0	0	12	0	0	0	0	0	43
4:00 AM	0	0	16	0	0	16	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	18
4:15 AM	0	0	26	0	0	26	0	1	0	0	0	1	0	0	2	1	0	0	3	0	0	0	0	0	30
4:30 AM	0	0	51	0	0	51	0	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	1	0	56
4:45 AM	0	1	43	0	0	44	0	3	0	0	0	3	0	0	6	0	0	0	6	0	0	0	0	0	53
Hourly Total	0	1	136	0	0	137	0	4	0	0	0	4	0	0	14	1	0	0	15	0	0	0	1	0	157
5:00 AM	0	7	62	0	0	69	0	0	0	2	0	2	0	1	8	0	0	0	9	0	0	0	0	0	80
5:15 AM	0	4	89	0	0	93	0	7	0	0	0	7	0	0	11	0	0	0	11	0	0	0	1	0	111
5:30 AM	0	10	116	0	0	126	0	7	0	1	0	8	0	0	22	0	0	0	22	0	0	0	0	0	156
5:45 AM	0	13	118	0	0	131	0	4	0	1	0	5	1	0	26	1	0	0	28	0	0	0	0	0	164
Hourly Total	0	34	385	0	0	419	0	18	0	4	0	22	1	1	67	1	0	0	70	0	0	0	0	1	511
6:00 AM	0	18	149	0	1	167	0	4	0	2	0	6	0	0	10	1	0	0	11	0	0	0	0	0	184
6:15 AM	0	12	189	0	0	201	0	5	0	3	0	8	0	0	23	1	0	0	24	0	0	0	0	0	233
6:30 AM	0	12	233	0	0	245	0	5	0	3	0	8	0	0	25	0	0	0	25	0	0	0	1	1	279
6:45 AM	0	14	272	0	0	286	0	7	0	6	0	13	0	0	44	1	0	0	45	0	0	0	2	0	346
Hourly Total	0	56	843	0	1	899	0	21	0	14	0	35	0	0	102	3	0	0	105	0	0	0	3	1	1042
7:00 AM	0	10	283	0	0	293	0	2	0	6	0	8	0	0	61	0	0	0	61	0	0	0	0	2	362
7:15 AM	0	18	367	0	0	385	0	7	0	9	0	16	1	0	48	2	0	0	51	0	0	0	2	1	454
7:30 AM	0	16	397	1	0	414	0	6	0	11	0	17	0	0	57	2	0	0	59	0	2	0	2	4	494
7:45 AM	0	19	381	0	0	400	0	5	0	5	0	10	0	0	89	0	0	0	89	0	0	0	1	1	500
Hourly Total	0	63	1428	1	0	1492	0	20	0	31	0	51	1	0	255	4	0	0	260	0	2	0	5	5	1810

**TMC 2261  
Blaine Minnesota  
Thursday, September 8, 2022**

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Radisson Woods Dr.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Radisson Woods Dr.						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	19	221	0	0	240	0	6	0	6	0	12	0	0	75	3	0	78	0	0	0	0	0	0	330
8:15 AM	0	9	214	0	0	223	0	2	0	5	0	7	2	0	70	1	0	73	0	0	0	4	0	4	307
8:30 AM	0	10	214	0	0	224	0	7	0	6	0	13	0	1	87	0	0	88	0	0	0	4	1	4	329
8:45 AM	0	18	199	0	0	217	0	8	0	4	0	12	1	1	88	0	0	90	0	0	0	3	1	3	322
Hourly Total	0	56	848	0	0	904	0	23	0	21	0	44	3	2	320	4	0	329	0	0	0	11	2	11	1288
9:00 AM	1	9	189	0	0	199	0	3	0	2	0	5	0	0	62	1	0	63	0	1	0	2	3	3	270
9:15 AM	0	11	147	0	0	158	0	4	0	3	0	7	0	0	86	1	1	87	0	0	0	1	1	1	253
9:30 AM	0	4	133	0	0	137	0	2	0	9	0	11	0	1	67	1	0	69	0	0	0	1	0	1	218
9:45 AM	0	11	137	0	0	148	0	3	0	4	0	7	1	1	84	2	0	88	0	0	0	1	0	1	244
Hourly Total	1	35	606	0	0	642	0	12	0	18	0	30	1	2	299	5	1	307	0	1	0	5	4	6	985
10:00 AM	0	8	117	0	0	125	0	5	0	5	0	10	1	1	87	1	0	90	0	1	0	2	0	3	228
10:15 AM	0	5	115	0	0	120	0	1	0	1	0	2	1	1	79	1	0	82	0	0	0	1	1	1	205
10:30 AM	0	9	131	1	0	141	0	3	0	6	0	9	0	1	74	1	0	76	0	0	2	1	0	3	229
10:45 AM	0	5	123	0	0	128	0	7	0	5	0	12	0	1	76	3	0	80	0	0	0	1	0	1	221
Hourly Total	0	27	486	1	0	514	0	16	0	17	0	33	2	4	316	6	0	328	0	1	2	5	1	8	883
11:00 AM	0	7	108	0	0	115	0	3	0	4	0	7	0	3	74	2	0	79	0	0	1	0	0	1	202
11:15 AM	0	7	112	0	0	119	0	3	0	5	0	8	1	0	85	0	0	86	0	0	0	3	1	3	216
11:30 AM	0	10	111	0	0	121	0	5	0	9	0	14	1	1	113	3	0	118	0	0	0	3	1	3	256
11:45 AM	0	7	112	0	0	119	0	2	0	7	0	9	0	2	90	3	0	95	0	0	0	1	0	1	224
Hourly Total	0	31	443	0	0	474	0	13	0	25	0	38	2	6	362	8	0	378	0	0	1	7	2	8	898
12:00 PM	0	8	120	0	0	128	0	5	0	6	0	11	1	2	104	2	0	109	0	1	0	1	0	2	250
12:15 PM	0	9	120	0	0	129	0	4	0	9	0	13	2	2	112	2	0	118	0	0	0	1	2	1	261
12:30 PM	0	8	122	0	0	130	0	4	0	9	0	13	1	1	107	3	0	112	0	1	2	2	0	5	260
12:45 PM	0	5	119	0	0	124	0	5	0	8	0	13	3	0	120	1	0	124	0	0	0	1	0	1	262
Hourly Total	0	30	481	0	0	511	0	18	0	32	0	50	7	5	443	8	0	463	0	2	2	5	2	9	1033
1:00 PM	0	4	125	0	0	129	0	1	0	8	0	9	0	3	94	0	0	97	0	0	0	1	1	1	236
1:15 PM	0	8	110	1	0	119	0	1	0	5	0	6	1	3	116	0	0	120	0	0	0	2	0	2	247
1:30 PM	0	7	106	0	0	113	0	1	0	5	0	6	1	0	110	2	0	113	0	0	0	2	0	2	234
1:45 PM	0	5	100	0	0	105	0	6	0	6	0	12	1	1	144	1	0	147	0	0	0	4	0	4	268
Hourly Total	0	24	441	1	0	466	0	9	0	24	0	33	3	7	464	3	0	477	0	0	0	9	1	9	985
2:00 PM	0	3	103	0	0	106	0	2	0	8	0	10	0	2	125	2	0	129	0	0	0	1	3	1	246
2:15 PM	0	4	130	0	0	134	0	3	0	12	0	15	1	2	142	2	1	147	0	0	0	2	1	2	298
2:30 PM	0	5	135	0	0	140	0	2	0	10	0	12	2	5	182	3	0	192	0	0	0	3	1	3	347
2:45 PM	0	8	132	0	0	140	0	2	0	9	0	11	0	0	207	7	0	214	0	0	0	2	0	2	367
Hourly Total	0	20	500	0	0	520	0	9	0	39	0	48	3	9	656	14	1	682	0	0	0	8	5	8	1258
3:00 PM	0	6	109	1	0	116	0	0	0	9	0	9	1	3	259	1	0	264	0	0	0	1	0	1	390
3:15 PM	0	2	166	0	0	168	0	1	1	18	0	20	1	0	246	4	1	251	0	0	1	0	0	1	440
3:30 PM	0	4	155	2	0	161	0	4	0	10	0	14	1	3	294	4	0	302	0	0	0	3	0	3	480
3:45 PM	0	3	143	0	0	146	0	3	0	8	0	11	0	1	310	2	0	313	0	0	0	2	0	2	472
Hourly Total	0	15	573	3	0	591	0	8	1	45	0	54	3	7	1109	11	1	1130	0	0	1	6	0	7	1782

**TMC 2261**  
**Blaine Minnesota**  
**Thursday, September 8, 2022**

Time	Southbound CSAH 52 (Radisson Rd.)						Westbound Radisson Woods Dr.						Northbound CSAH 52 (Radisson Rd.)						Eastbound Radisson Woods Dr.						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	9	154	0	0	163	0	1	0	7	0	8	1	2	339	8	0	350	0	0	0	4	0	4	525
4:15 PM	1	10	157	0	0	168	0	4	0	6	0	10	2	0	351	2	0	355	0	0	0	0	0	0	533
4:30 PM	0	5	166	0	0	171	0	4	0	18	0	22	0	4	366	4	0	374	0	0	0	1	1	1	568
4:45 PM	0	7	152	0	0	159	0	3	0	15	0	18	0	3	379	4	0	386	0	1	0	1	0	2	565
Hourly Total	1	31	629	0	0	661	0	12	0	46	0	58	3	9	1435	18	0	1465	0	1	0	6	1	7	2191
5:00 PM	0	11	211	0	0	222	0	2	0	9	0	11	0	2	349	7	1	358	0	0	0	2	1	2	593
5:15 PM	0	8	218	0	0	226	0	6	0	13	0	19	0	2	336	0	0	338	0	0	0	0	1	0	583
5:30 PM	0	8	210	0	0	218	0	2	0	12	0	14	0	3	261	5	0	269	0	0	1	1	0	2	503
5:45 PM	0	8	163	0	0	171	0	0	0	12	0	12	1	1	254	5	0	261	0	0	0	2	1	2	446
Hourly Total	0	35	802	0	0	837	0	10	0	46	0	56	1	8	1200	17	1	1226	0	0	1	5	3	6	2125
6:00 PM	0	5	150	0	0	155	0	5	0	9	0	14	0	0	245	3	0	248	0	0	0	0	2	0	417
6:15 PM	0	7	159	0	0	166	0	3	0	5	0	8	0	2	215	9	3	226	0	0	0	2	0	2	402
6:30 PM	0	8	121	0	0	129	0	3	0	7	0	10	1	1	182	7	0	191	0	0	0	0	1	0	330
6:45 PM	0	8	137	0	0	145	0	4	0	11	0	15	1	0	192	3	0	196	0	0	0	0	5	0	356
Hourly Total	0	28	567	0	0	595	0	15	0	32	0	47	2	3	834	22	3	861	0	0	0	2	8	2	1505
7:00 PM	0	10	112	0	0	122	0	3	0	9	0	12	2	1	198	3	2	204	0	1	0	2	0	3	341
7:15 PM	0	2	108	0	0	110	0	3	0	6	0	9	1	0	191	2	2	194	0	0	0	0	2	0	313
7:30 PM	0	5	110	0	0	115	0	2	0	3	0	5	0	1	143	1	0	145	0	0	0	0	0	0	265
7:45 PM	0	1	53	1	0	55	0	0	0	9	0	9	0	2	156	4	2	162	0	0	0	1	2	1	227
Hourly Total	0	18	383	1	0	402	0	8	0	27	0	35	3	4	688	10	6	705	0	1	0	3	4	4	1146
8:00 PM	0	8	68	1	0	77	0	5	0	3	0	8	2	0	145	0	0	147	0	0	0	0	0	0	232
8:15 PM	0	5	55	0	0	60	0	3	0	10	0	13	0	0	136	4	0	140	0	0	0	0	0	0	213
8:30 PM	0	4	54	0	0	58	0	3	0	3	0	6	0	4	104	2	0	110	0	0	0	0	0	0	174
8:45 PM	0	2	45	1	0	48	0	2	0	2	0	4	0	0	96	1	0	97	0	0	0	0	0	0	149
Hourly Total	0	19	222	2	0	243	0	13	0	18	0	31	2	4	481	7	0	494	0	0	0	0	0	0	768
9:00 PM	0	1	50	0	0	51	0	3	0	2	0	5	0	0	81	0	0	81	0	0	0	1	0	1	138
9:15 PM	0	0	32	0	0	32	0	2	0	1	0	3	0	3	81	3	0	87	0	0	0	0	0	0	122
9:30 PM	0	2	28	0	0	30	0	3	0	8	0	11	1	0	103	6	0	110	0	0	0	0	0	0	151
9:45 PM	0	2	18	0	0	20	0	2	0	5	0	7	0	1	93	2	0	96	0	0	0	0	0	0	123
Hourly Total	0	5	128	0	0	133	0	10	0	16	0	26	1	4	358	11	0	374	0	0	0	1	0	1	534
10:00 PM	0	0	25	0	0	25	0	2	0	3	0	5	2	0	56	2	0	60	0	0	0	0	0	0	90
10:15 PM	0	1	19	0	0	20	0	0	0	2	0	2	0	0	67	0	0	67	0	0	0	0	0	0	89
10:30 PM	0	0	18	0	0	18	0	1	0	1	0	2	0	0	44	1	0	45	0	0	0	0	0	0	65
10:45 PM	0	0	13	0	0	13	0	1	0	0	0	1	0	1	28	1	0	30	0	0	0	0	0	0	44
Hourly Total	0	1	75	0	0	76	0	4	0	6	0	10	2	1	195	4	0	202	0	0	0	0	0	0	288
11:00 PM	0	0	2	0	0	2	0	1	0	0	0	1	1	1	33	0	0	35	0	0	0	0	0	0	38
11:15 PM	0	0	10	0	0	10	0	1	0	0	0	1	0	0	25	1	0	26	0	0	0	1	0	1	38
11:30 PM	0	0	9	0	0	9	0	1	0	0	0	1	0	0	27	0	0	27	0	0	0	0	0	0	37
11:45 PM	0	0	10	0	0	10	0	1	0	0	0	1	1	0	21	0	0	22	0	0	0	0	0	0	33
Hourly Total	0	0	31	0	0	31	0	4	0	0	0	4	2	1	106	1	0	110	0	0	0	1	0	1	146
<b>DAILY TOTAL</b>	<b>2</b>	<b>531</b>	<b>10076</b>	<b>9</b>	<b>1</b>	<b>10618</b>	<b>0</b>	<b>248</b>	<b>2</b>	<b>461</b>	<b>0</b>	<b>711</b>	<b>43</b>	<b>77</b>	<b>9778</b>	<b>159</b>	<b>13</b>	<b>10057</b>	<b>0</b>	<b>8</b>	<b>7</b>	<b>83</b>	<b>40</b>	<b>98</b>	<b>21484</b>
<b>Cars</b>	2	528	9809	9	0	10348	0	244	2	451	0	697	43	77	9595	157	3	9872	0	8	7	83	15	98	21015
<b>Heavy Vehicles</b>	0	3	267	0	1	270	0	4	0	10	0	14	0	0	183	2	10	185	0	0	0	0	25	0	469
<b>Heavy Vehicle %</b>	0.00%	0.56%	2.65%	0.00%	100.00%	2.54%	0.00%	1.61%	0.00%	2.17%	0.00%	1.97%	0.00%	0.00%	1.87%	1.26%	76.92%	1.84%	0.00%	0.00%	0.00%	0.00%	62.50%	0.00%	2.18%

**TMC 2261**  
**Blaine Minnesota**  
**Thursday, September 8, 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							
7:00 AM	0	10	283	0	0	293	0	2	0	6	0	8	0	0	61	0	0	61	0	0	0	0	2	0	0	0	0	0	2	0	362
7:15 AM	0	18	367	0	0	385	0	7	0	9	0	16	1	0	48	2	0	51	0	0	0	2	1	2	0	0	0	0	1	2	454
7:30 AM	0	16	397	1	0	414	0	6	0	11	0	17	0	0	57	2	0	59	0	2	0	0	2	1	0	0	0	0	1	4	494
7:45 AM	0	19	381	0	0	400	0	5	0	5	0	10	0	0	89	0	0	89	0	0	0	0	1	1	0	0	0	0	1	1	500
Peak Hour Total	0	63	1428	1	0	1492	0	20	0	31	0	51	1	0	255	4	0	260	0	2	0	5	5	7	0	0	0	0	5	7	1810
PHF	0.000	0.829	0.899	0.250	0.000	0.901	0.000	0.714	0.000	0.705	0.000	0.750	0.250	0.000	0.716	0.500	0.000	0.730	0.000	0.250	0.000	0.625	0.625	0.438	0.000	0.250	0.000	0.625	0.625	0.438	0.905

**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							
4:30 PM	0	5	166	0	0	171	0	4	0	18	0	22	0	4	366	4	0	374	0	0	0	1	1	1	0	0	0	0	1	1	568
4:45 PM	0	7	152	0	0	159	0	3	0	15	0	18	0	3	379	4	0	386	0	1	0	1	0	2	0	0	0	1	0	2	565
5:00 PM	0	11	211	0	0	222	0	2	0	9	0	11	0	2	349	7	1	358	0	0	0	2	1	2	0	0	0	0	2	2	593
5:15 PM	0	8	218	0	0	226	0	6	0	13	0	19	0	2	336	0	0	338	0	0	0	0	1	0	0	0	0	0	1	0	583
Peak Hour Total	0	31	747	0	0	778	0	15	0	55	0	70	0	11	1430	15	1	1456	0	1	0	4	3	5	0	0	0	0	4	3	2309
PHF	0.000	0.705	0.857	0.000	0.000	0.861	0.000	0.625	0.000	0.764	0.000	0.795	0.000	0.688	0.943	0.536	0.250	0.943	0.000	0.250	0.000	0.500	0.750	0.625	0.000	0.250	0.000	0.500	0.750	0.625	0.973

Total Vehicles On Leg		20867					
Vehicles Entering Intersection		10618		Vehicles Exiting Intersection		10249	
<b>Southbound</b>							
Cars	9	9809	528	2	0		
Heavy	0	267	3	0	1		
<b>Total</b>	<b>9</b>	<b>10076</b>	<b>531</b>	<b>2</b>	<b>1</b>		



Total Vehicles on Leg 186	Vehicles Entering Intersection 98	Eastbound	Cars	Heavy	Total		
			15	25	40		
			0	0	0		
	Vehicles Exiting Intersection 88		Cars	Heavy	Total		
	8		0	8			
7	0	7					
			83	0	83		

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 711	Total Vehicles on Leg 1408		
451	10	461					
2	0	2					
Vehicles Exiting Intersection 697		Cars				Heavy	Total
244	4	248					
0	0	0					
0	0	0					

Cars	3	43	77	9595	157
Heavy	10	0	0	183	2
<b>Total</b>	<b>13</b>	<b>43</b>	<b>77</b>	<b>9778</b>	<b>159</b>
<b>Northbound</b>					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
10057			10450		
Total Vehicles On Leg		20507			









# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2261

Study Date : 11/18/2022

## Signal Warrants - Summary

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### Major Street Approaches

Northbound: CSAH 52

Number of Lanes : 2+

Total Approach Volume: 10,057

Southbound: CSAH 52

Number of Lanes :2+

Total Approach Volume: 10,618

### Minor Street Approaches

Eastbound: Radisson Woods Dr.

Number of Lanes :1

Total Approach Volume: 98

Westbound: Radisson Woods Dr.

Number of Lanes :1

Total Approach Volume: 711

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### Warrant Summary (Rural 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 4 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 10 hours, 8 are needed

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

Number of hours (1) 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 2261

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	
16:30 - 17:30	1456	+	778	=	2234	5	70	No
16:15 - 17:15	1473	+	720	=	2193	5	61	No
16:45 - 17:45	1351	+	825	=	2176	6	62	No
16:00 - 17:00	1465	+	661	=	2126	7	58	No
17:00 - 18:00	1226	+	837	=	2063	6	56	No
15:45 - 16:45	1392	+	648	=	2040	7	51	No
15:30 - 16:30	1320	+	638	=	1958	9	43	No
17:15 - 18:15	1116	+	770	=	1886	4	59	No
15:15 - 16:15	1216	+	638	=	1854	10	53	No
07:00 - 08:00	260	+	1492	=	1752	7	51	No
15:00 - 16:00	1130	+	591	=	1721	7	54	No
07:15 - 08:15	277	+	1439	=	1716	7	55	No
17:30 - 18:30	1004	+	710	=	1714	6	48	No
14:45 - 15:45	1031	+	585	=	1616	7	54	No
06:45 - 07:45	216	+	1378	=	1594	8	54	No
07:30 - 08:30	299	+	1277	=	1576	9	46	No
17:45 - 18:45	926	+	621	=	1547	4	44	No
14:30 - 15:30	921	+	564	=	1485	7	52	No
18:00 - 19:00	861	+	595	=	1456	2	47	No
07:45 - 08:45	328	+	1087	=	1415	9	42	No
06:30 - 07:30	182	+	1209	=	1391	5	45	No
18:15 - 19:15	817	+	562	=	1379	5	45	No
14:15 - 15:15	817	+	530	=	1347	8	47	No
18:30 - 19:30	785	+	506	=	1291	3	46	No
08:00 - 09:00	329		904		1233	11	44	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2261

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

Only 4 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 = **630**  
 Veh/Hr Minor = **53**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	<b>CSAH 52</b>					<b>Radisson Woods Dr.</b>		
16:00 - 17:00	1465	+	661	=	2126	7	58	Yes
17:00 - 18:00	1226	+	837	=	2063	6	56	Yes
14:45 - 15:45	1031	+	585	=	1616	7	54	Yes
06:45 - 07:45	216	+	1378	=	1594	8	54	Yes
15:45 - 16:45	1392	+	648	=	2040	7	51	No
14:30 - 15:30	921	+	564	=	1485	7	52	No
18:00 - 19:00	861	+	595	=	1456	2	47	No
07:45 - 08:45	328	+	1087	=	1415	9	42	No
06:30 - 07:30	182	+	1209	=	1391	5	45	No
18:15 - 19:15	817	+	562	=	1379	5	45	No
14:15 - 15:15	817	+	530	=	1347	8	47	No
18:30 - 19:30	785	+	506	=	1291	3	46	No
08:00 - 09:00	329	+	904	=	1233	11	44	No
18:45 - 19:45	739	+	492	=	1231	3	41	No
14:00 - 15:00	682	+	520	=	1202	8	48	No
06:15 - 07:15	155	+	1025	=	1180	3	37	No
08:15 - 09:15	314	+	863	=	1177	14	37	No
08:30 - 09:30	328	+	798	=	1126	11	37	No
19:00 - 20:00	705	+	402	=	1107	4	35	No
13:45 - 14:45	615	+	485	=	1100	10	49	No
08:45 - 09:45	309	+	711	=	1020	8	35	No
19:15 - 20:15	648	+	357	=	1005	1	31	No
06:00 - 07:00	105	+	899	=	1004	3	35	No
13:30 - 14:30	536	+	458	=	994	9	43	No
12:00 - 13:00	463		511		974	9	50	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2261

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 0 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

Radisson Woods Dr.

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:30 - 17:30	1456	+	778	=	2234	5	70	No
16:15 - 17:15	1473	+	720	=	2193	5	61	No
16:45 - 17:45	1351	+	825	=	2176	6	62	No
16:00 - 17:00	1465	+	661	=	2126	7	58	No
17:00 - 18:00	1226	+	837	=	2063	6	56	No
15:45 - 16:45	1392	+	648	=	2040	7	51	No
15:30 - 16:30	1320	+	638	=	1958	9	43	No
17:15 - 18:15	1116	+	770	=	1886	4	59	No
15:15 - 16:15	1216	+	638	=	1854	10	53	No
07:00 - 08:00	260	+	1492	=	1752	7	51	No
15:00 - 16:00	1130	+	591	=	1721	7	54	No
07:15 - 08:15	277	+	1439	=	1716	7	55	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:30 - 17:30	1456	+	778	=	2234	5	70	Yes
15:30 - 16:30	1320	+	638	=	1958	9	43	Yes
17:30 - 18:30	1004	+	710	=	1714	6	48	Yes
07:30 - 08:30	299	+	1277	=	1576	9	46	Yes
14:30 - 15:30	921	+	564	=	1485	7	52	Yes
06:30 - 07:30	182	+	1209	=	1391	5	45	Yes
18:30 - 19:30	785	+	506	=	1291	3	46	Yes
13:30 - 14:30	536	+	458	=	994	9	43	Yes
12:15 - 13:15	451	+	512	=	963	8	48	Yes
11:15 - 12:15	408	+	487	=	895	9	42	Yes
06:15 - 07:15	155	+	1025	=	1180	3	37	No
08:30 - 09:30	328	+	798	=	1126	11	37	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2261

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.

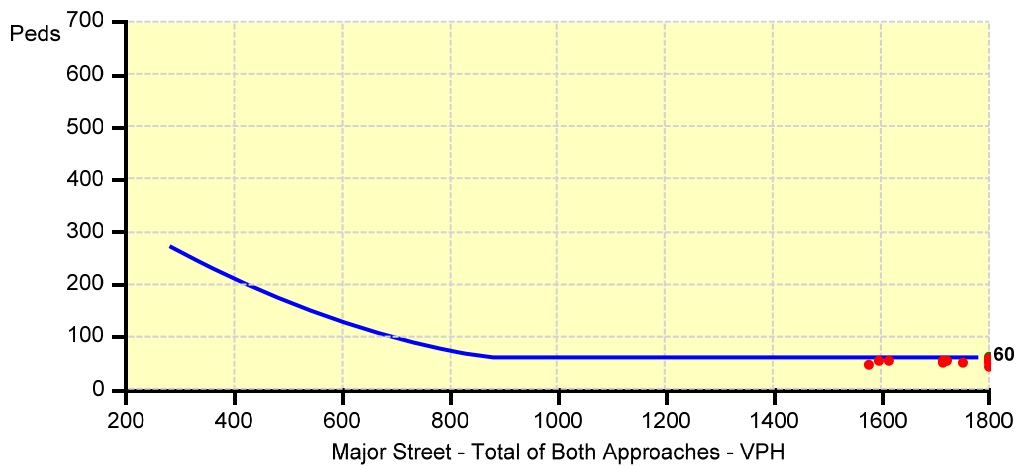
### Summary

Only 1 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**

Time	Major Road CSAH 52				=	Total	Minor Road Radisson Woods Dr.		Met?
	Major NB	+	Major SB				Minor EB	Minor WB	
16:15 - 17:15	1473	+	720	=	2193	5	61	Yes	
16:00 - 17:00	1465	+	661	=	2126	7	58	No	
15:45 - 16:45	1392	+	648	=	2040	7	51	No	
15:30 - 16:30	1320	+	638	=	1958	9	43	No	
17:15 - 18:15	1116	+	770	=	1886	4	59	No	
15:15 - 16:15	1216	+	638	=	1854	10	53	No	
07:00 - 08:00	260	+	1492	=	1752	7	51	No	
15:00 - 16:00	1130	+	591	=	1721	7	54	No	
07:15 - 08:15	277	+	1439	=	1716	7	55	No	
17:30 - 18:30	1004	+	710	=	1714	6	48	No	
14:45 - 15:45	1031	+	585	=	1616	7	54	No	
							54	No	



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2261

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

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**

Time	Major Road CSAH 52				Total	Minor Road Radisson Woods Dr.		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:30 - 17:30	1456	+	778	=	2234	5	70	No
16:15 - 17:15	1473	+	720	=	2193	5	61	No
16:45 - 17:45	1351	+	825	=	2176	6	62	No
16:00 - 17:00	1465	+	661	=	2126	7	58	No
17:00 - 18:00	1226	+	837	=	2063	6	56	No
15:45 - 16:45	1392	+	648	=	2040	7	51	No
15:30 - 16:30	1320	+	638	=	1958	9	43	No
17:15 - 18:15	1116	+	770	=	1886	4	59	No
15:15 - 16:15	1216	+	638	=	1854	10	53	No
07:00 - 08:00	260	+	1492	=	1752	7	51	No
15:00 - 16:00	1130	+	591	=	1721	7	54	No
							55	No

