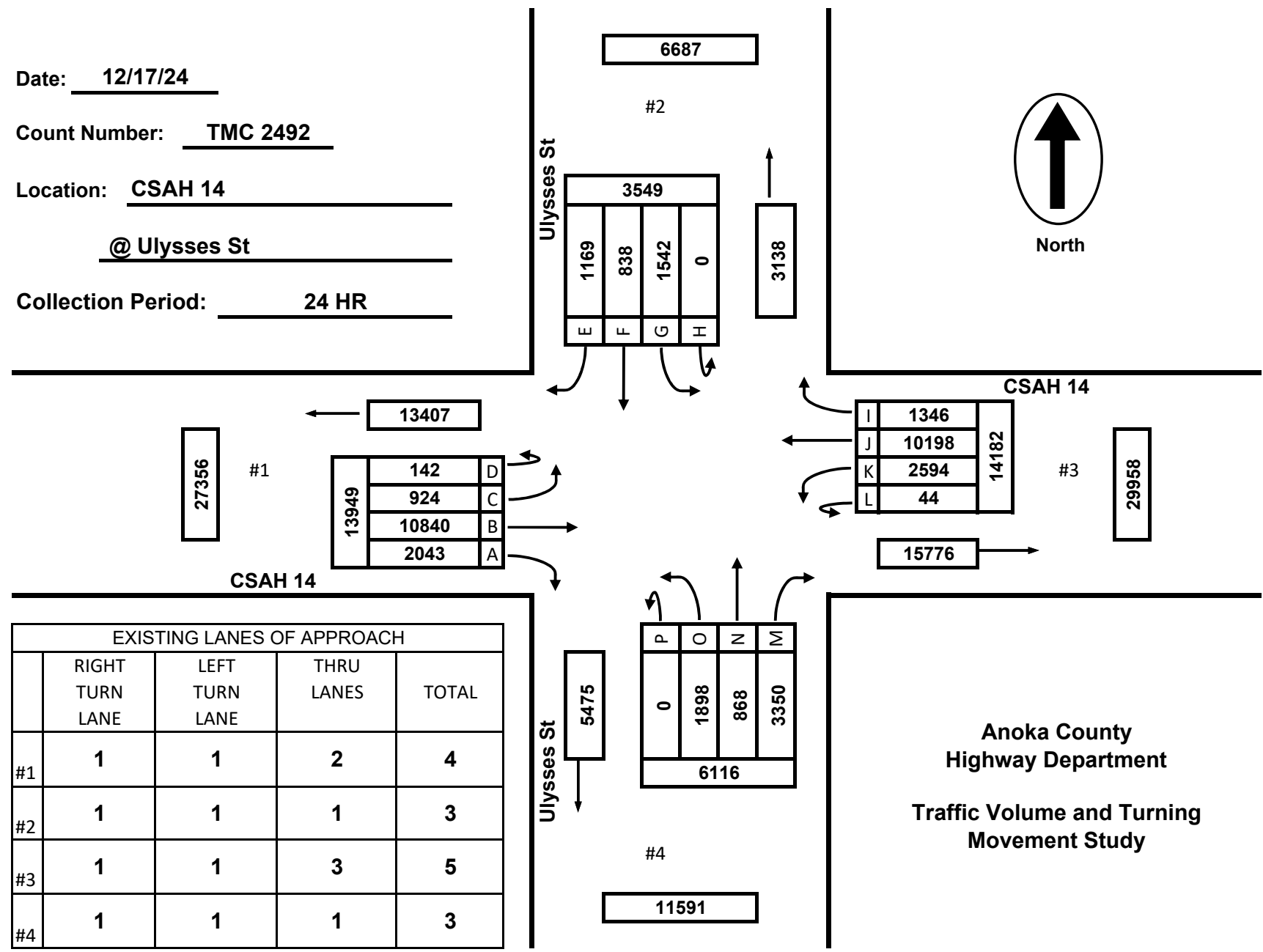
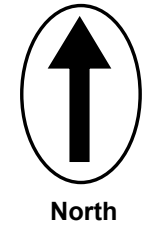


Date: 12/17/24

Count Number: TMC 2492

Location: CSAH 14  
@ Ulysses St

Collection Period: 24 HR



CSAH 14

CSAH 14

EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	1	1	2	4
#2	1	1	1	3
#3	1	1	3	5
#4	1	1	1	3

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

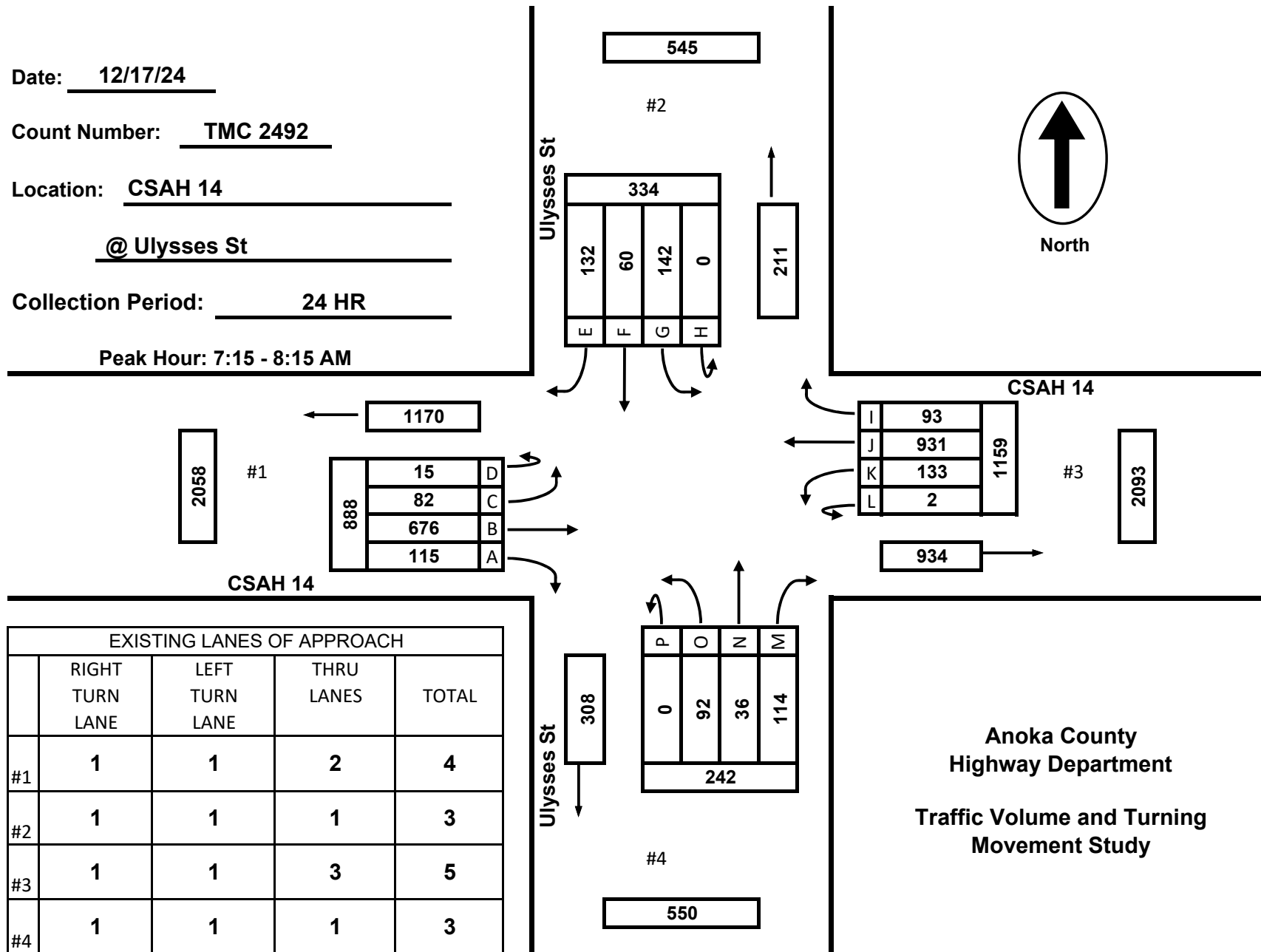
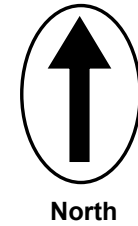
Date: 12/17/24

Count Number: TMC 2492

Location: CSAH 14  
@ Ulysses St

Collection Period: 24 HR

Peak Hour: 7:15 - 8:15 AM



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	1	1	2	4
#2	1	1	1	3
#3	1	1	3	5
#4	1	1	1	3

545

#2

334			
132	60	142	0
E	F	G	H

211

CSAH 14

I	93	1159
J	931	
K	133	
L	2	

#3

2093

934

888	15	D
	82	C
	676	B
	115	A

#1

2058

1170

CSAH 14

P	O	N	M
0	92	36	114
242			

#4

550

308

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

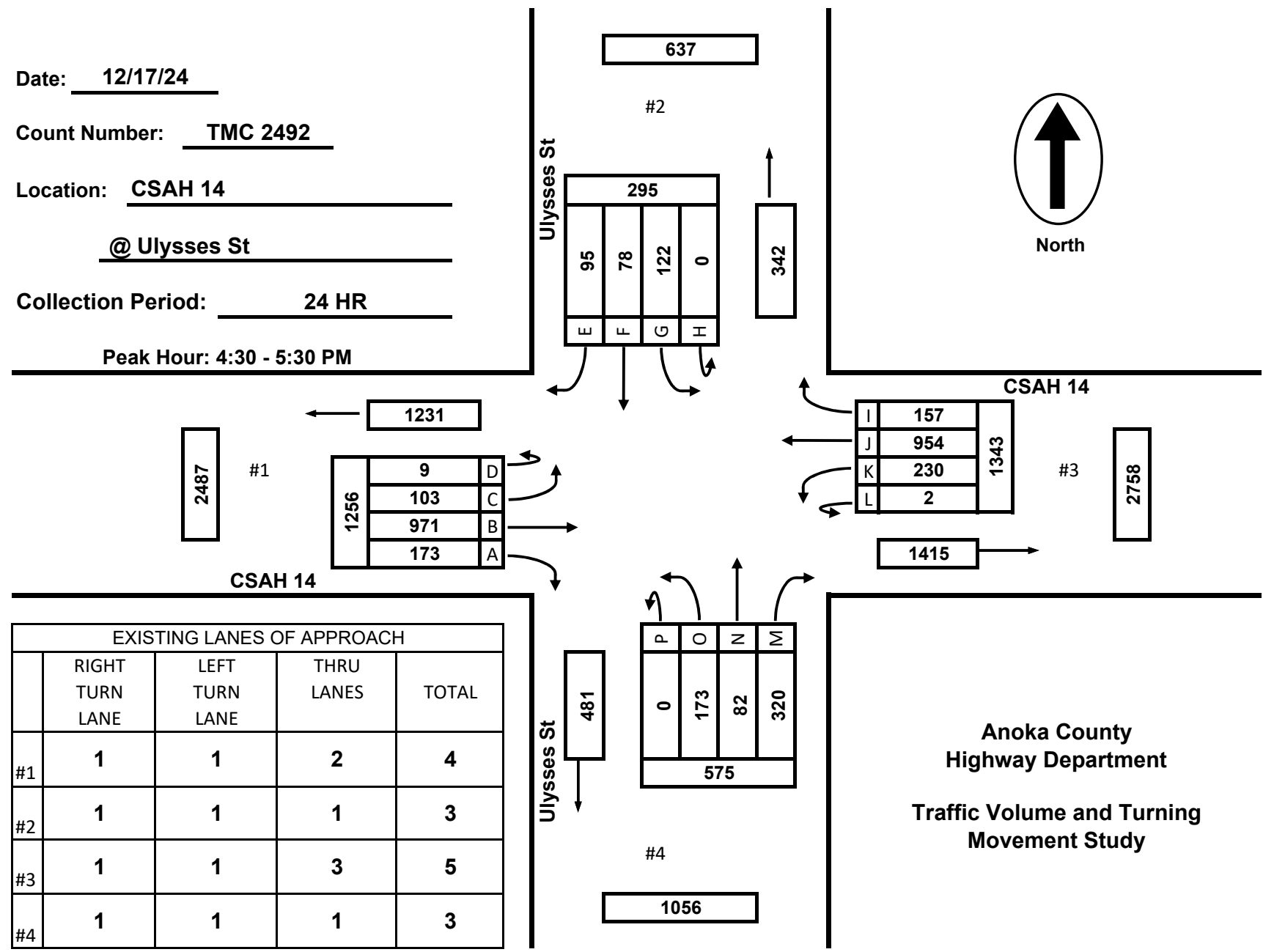
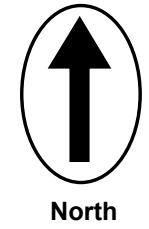
Date: 12/17/24

Count Number: TMC 2492

Location: CSAH 14  
@ Ulysses St

Collection Period: 24 HR

Peak Hour: 4:30 - 5:30 PM



EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	1	1	2	4
#2	1	1	1	3
#3	1	1	3	5
#4	1	1	1	3

637

#2

295			
95	78	122	0
E	F	G	H

342

CSAH 14

I	157	1343
J	954	
K	230	
L	2	

#3

2758

1415

CSAH 14

1256	9	D
	103	C
	971	B
	173	A

#1

2487

1231

481

Ulysses St

P	O	N	M
0	173	82	320
575			

#4

1056

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

**TMC 2492 - CSAH 14 @ Ulysses St  
Blaine MN  
Tuesday, December 17, 2024**

Time	Southbound Ulysses St						Westbound CSAH 14						Northbound Ulysses St						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
12:00 AM	0	0	1	0	0	1	0	0	12	1	0	13	0	0	0	5	0	5	0	1	11	0	0	12	31
12:15 AM	0	0	0	1	0	1	1	1	14	3	0	19	0	0	1	0	0	1	0	1	13	0	0	14	35
12:30 AM	0	3	1	1	0	5	0	1	12	1	0	14	0	0	2	2	0	4	0	0	3	1	0	4	27
12:45 AM	0	3	0	1	0	4	0	1	4	3	0	8	0	3	0	1	0	4	0	0	5	0	0	5	21
Hourly Total	0	6	2	3	0	11	1	3	42	8	0	54	0	3	3	8	0	14	0	2	32	1	0	35	114
1:00 AM	0	1	0	2	0	3	0	0	10	3	0	13	0	0	1	0	0	1	0	1	16	0	0	17	34
1:15 AM	0	3	0	1	0	4	0	1	6	1	0	8	0	0	2	1	0	3	0	0	3	0	0	3	18
1:30 AM	0	1	1	0	0	2	0	1	5	1	0	7	0	0	0	0	0	0	0	1	4	1	0	6	15
1:45 AM	0	3	0	0	0	3	0	0	2	0	0	2	0	0	0	0	0	0	0	0	8	0	0	8	13
Hourly Total	0	8	1	3	0	12	0	2	23	5	0	30	0	0	3	1	0	4	0	2	31	1	0	34	80
2:00 AM	0	1	0	0	0	1	0	0	5	1	0	6	0	0	1	0	0	1	0	0	5	0	0	5	13
2:15 AM	0	4	2	0	0	6	0	1	9	1	0	11	0	0	0	0	0	0	0	0	3	0	0	3	20
2:30 AM	0	1	0	0	0	1	0	0	3	1	0	4	0	0	0	0	0	0	0	0	3	0	0	3	8
2:45 AM	0	1	0	0	0	1	0	0	1	2	0	3	0	0	0	0	0	0	0	1	6	0	0	7	11
Hourly Total	0	7	2	0	0	9	0	1	18	5	0	24	0	0	1	0	0	1	0	1	17	0	0	18	52
3:00 AM	0	2	0	1	0	3	0	0	2	1	0	3	0	0	0	0	0	0	0	0	6	0	0	6	12
3:15 AM	0	4	0	1	0	5	0	0	5	1	0	6	0	0	1	0	0	1	0	1	9	0	0	10	22
3:30 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	1	0	1	0	1	5	2	0	8	14
3:45 AM	0	2	0	2	0	4	0	2	5	0	0	7	0	0	0	0	0	0	0	1	14	0	0	15	26
Hourly Total	0	8	0	4	0	12	0	2	17	2	0	21	0	0	1	1	0	2	0	3	34	2	0	39	74
4:00 AM	0	3	0	0	0	3	0	0	4	0	0	4	0	1	0	1	0	2	0	0	10	0	0	10	19
4:15 AM	0	7	0	1	0	8	0	1	8	2	0	11	0	0	0	1	0	1	0	0	10	0	0	10	30
4:30 AM	0	3	0	2	0	5	0	0	15	3	0	18	0	0	0	3	0	3	0	0	29	0	0	29	55
4:45 AM	0	9	0	2	0	11	0	3	18	2	0	23	0	2	0	2	0	4	0	0	37	4	0	41	79
Hourly Total	0	22	0	5	0	27	0	4	45	7	0	56	0	3	0	7	0	10	0	0	86	4	0	90	183
5:00 AM	0	9	0	3	0	12	0	4	17	1	0	22	0	0	1	0	0	1	0	0	29	1	0	30	65
5:15 AM	0	9	1	4	0	14	0	4	30	3	0	37	0	1	1	9	0	11	0	3	52	2	0	57	119
5:30 AM	0	13	0	8	0	21	0	16	48	2	0	66	0	1	0	9	0	10	0	0	47	6	0	53	150
5:45 AM	0	15	2	4	0	21	0	17	51	2	0	70	0	5	1	10	0	16	0	3	66	7	1	76	183
Hourly Total	0	46	3	19	0	68	0	41	146	8	0	195	0	7	3	28	0	38	0	6	194	16	1	216	517
6:00 AM	0	15	3	6	0	24	0	8	48	7	0	63	0	0	2	19	0	21	0	3	75	10	0	88	196
6:15 AM	0	23	7	2	0	32	0	12	71	11	0	94	0	3	3	18	0	24	1	1	102	10	0	114	264
6:30 AM	0	22	4	9	0	35	0	14	105	14	0	133	0	9	3	19	0	31	0	6	112	15	0	133	332
6:45 AM	0	20	3	26	0	49	0	31	120	21	0	172	0	14	4	28	0	46	4	7	119	23	0	153	420
Hourly Total	0	80	17	43	0	140	0	65	344	53	0	462	0	26	12	84	0	122	5	17	408	58	0	488	1212
7:00 AM	0	31	10	26	0	67	0	28	229	11	0	268	0	20	5	38	0	63	2	10	131	15	0	158	556
7:15 AM	0	37	15	47	0	99	0	26	322	17	0	365	0	37	9	35	0	81	3	16	138	23	0	180	725
7:30 AM	0	38	9	19	0	66	0	32	241	24	0	297	0	25	12	31	0	68	3	17	198	23	0	241	672
7:45 AM	0	30	22	28	0	80	0	42	171	27	0	240	0	15	6	22	0	43	2	32	177	35	0	246	609
Hourly Total	0	136	56	120	0	312	0	128	963	79	0	1170	0	97	32	126	0	255	10	75	644	96	0	825	2562

TMC 2492 - CSAH 14 @ Ulysses St  
Blaine MN

Tuesday, December 17, 2024

Time	Southbound Ulysses St						Westbound CSAH 14						Northbound Ulysses St						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	37	14	38	0	89	2	33	197	25	0	257	0	15	9	26	0	50	7	17	163	34	0	221	617
8:15 AM	0	33	16	17	0	66	0	38	131	26	0	195	0	18	15	38	0	71	7	21	172	15	0	215	547
8:30 AM	0	25	8	18	0	51	1	27	116	12	0	156	0	17	6	31	0	54	4	14	131	29	0	178	439
8:45 AM	0	29	13	20	0	62	2	34	126	24	0	186	0	12	12	33	0	57	1	12	126	27	0	166	471
Hourly Total	0	124	51	93	0	268	5	132	570	87	0	794	0	62	42	128	0	232	19	64	592	105	0	780	2074
9:00 AM	0	23	11	33	0	67	0	31	112	17	0	160	0	23	13	46	0	82	6	12	103	16	0	137	446
9:15 AM	0	33	9	41	0	83	1	44	169	21	0	235	0	19	7	29	0	55	7	16	141	36	0	200	573
9:30 AM	0	20	9	27	0	56	0	43	118	17	0	178	0	18	8	55	0	81	3	9	121	20	0	153	468
9:45 AM	0	22	11	12	0	45	0	32	128	19	0	179	0	30	13	30	1	73	3	16	116	19	2	154	451
Hourly Total	0	98	40	113	0	251	1	150	527	74	0	752	0	90	41	160	1	291	19	53	481	91	2	644	1938
10:00 AM	0	21	18	14	0	53	0	33	104	14	0	151	0	27	12	30	0	69	1	4	106	42	0	153	426
10:15 AM	0	26	16	11	0	53	0	24	120	14	0	158	0	28	19	27	0	74	0	17	128	22	0	167	452
10:30 AM	0	23	14	16	0	53	0	38	126	21	0	185	0	31	10	54	0	95	0	13	104	20	0	137	470
10:45 AM	0	29	10	15	0	54	0	40	111	20	0	171	0	16	5	35	0	56	1	16	112	34	0	163	444
Hourly Total	0	99	58	56	0	213	0	135	461	69	0	665	0	102	46	146	0	294	2	50	450	118	0	620	1792
11:00 AM	0	23	18	17	0	58	1	37	120	22	0	180	0	35	13	50	0	98	0	11	117	36	0	164	500
11:15 AM	0	26	12	15	0	53	0	65	123	22	0	210	0	25	13	53	0	91	1	13	126	36	0	176	530
11:30 AM	0	24	24	17	0	65	1	56	153	26	0	236	0	24	14	69	0	107	1	18	138	48	0	205	613
11:45 AM	0	24	21	22	0	67	2	60	130	25	0	217	0	38	17	78	0	133	2	15	139	27	0	183	600
Hourly Total	0	97	75	71	0	243	4	218	526	95	0	843	0	122	57	250	0	429	4	57	520	147	0	728	2243
12:00 PM	0	23	20	17	0	60	1	67	153	16	0	237	0	32	19	86	0	137	0	15	122	39	0	176	610
12:15 PM	0	29	13	15	0	57	1	65	121	17	0	204	0	38	18	83	0	139	2	17	137	43	0	199	599
12:30 PM	0	24	16	14	0	54	0	50	137	16	0	203	0	39	14	74	0	127	1	17	150	32	0	200	584
12:45 PM	0	21	16	19	0	56	2	59	130	23	0	214	0	38	21	74	0	133	2	9	139	27	0	177	580
Hourly Total	0	97	65	65	0	227	4	241	541	72	0	858	0	147	72	317	0	536	5	58	548	141	0	752	2373
1:00 PM	0	20	15	16	0	51	1	44	136	16	0	197	0	30	18	55	0	103	1	13	123	30	0	167	518
1:15 PM	0	28	9	14	0	51	0	45	128	18	0	191	0	35	18	73	0	126	2	19	140	42	0	203	571
1:30 PM	0	18	16	14	0	48	3	47	129	21	0	200	0	25	15	51	0	91	2	13	159	32	0	206	545
1:45 PM	0	16	19	17	0	52	2	46	132	11	0	191	0	33	23	57	0	113	1	9	143	33	0	186	542
Hourly Total	0	82	59	61	0	202	6	182	525	66	0	779	0	123	74	236	0	433	6	54	565	137	0	762	2176
2:00 PM	0	20	16	14	0	50	0	38	181	20	0	239	0	30	11	52	0	93	1	15	144	32	0	192	574
2:15 PM	0	25	20	15	0	60	4	30	133	15	0	182	0	42	12	54	0	108	2	14	222	47	0	285	635
2:30 PM	0	19	11	19	0	49	1	55	196	20	0	272	0	41	10	70	0	121	1	24	274	60	0	359	801
2:45 PM	0	24	13	15	0	52	0	40	182	21	0	243	0	44	21	52	1	117	1	16	184	34	1	235	647
Hourly Total	0	88	60	63	0	211	5	163	692	76	0	936	0	157	54	228	1	439	5	69	824	173	1	1071	2657
3:00 PM	0	22	20	21	0	63	0	37	189	24	0	250	0	42	14	68	0	124	4	17	245	54	0	320	757
3:15 PM	0	21	16	20	0	57	1	41	114	24	0	176	0	45	16	60	0	121	4	22	293	41	0	360	714
3:30 PM	0	22	15	12	0	49	1	43	234	21	0	299	0	37	25	71	1	133	4	18	237	36	0	295	776
3:45 PM	0	28	19	23	0	70	3	42	215	26	0	286	0	38	17	71	0	126	6	17	225	37	0	285	767
Hourly Total	0	93	70	76	0	239	5	163	752	91	0	1011	0	162	72	270	1	504	18	74	1000	168	0	1260	3014

**TMC 2492 - CSAH 14 @ Ulysses St  
Blaine MN**

**Tuesday, December 17, 2024**

Time	Southbound Ulysses St						Westbound CSAH 14						Northbound Ulysses St						Eastbound CSAH 14						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	22	22	24	0	68	1	49	257	32	0	339	0	40	21	69	0	130	4	15	232	31	2	282	819
4:15 PM	0	25	9	16	0	50	0	48	205	34	0	287	0	44	31	59	0	134	2	29	276	59	0	366	837
4:30 PM	0	33	14	23	0	70	1	58	239	39	0	337	0	39	17	75	0	131	0	25	245	37	0	307	845
4:45 PM	0	31	20	25	0	76	0	55	230	40	0	325	0	51	14	78	0	143	6	30	265	48	0	349	893
Hourly Total	0	111	65	88	0	264	2	210	931	145	0	1288	0	174	83	281	0	538	12	99	1018	175	2	1304	3394
5:00 PM	0	28	20	26	0	74	0	59	254	31	0	344	0	35	30	81	0	146	0	26	242	41	0	309	873
5:15 PM	0	30	24	21	0	75	1	58	231	47	0	337	0	48	21	86	0	155	3	22	219	47	0	291	858
5:30 PM	0	26	18	27	0	71	0	66	226	35	0	327	0	39	25	73	0	137	2	22	232	44	0	300	835
5:45 PM	0	23	17	30	0	70	0	60	221	24	0	305	0	44	22	66	0	132	2	19	190	44	0	255	762
Hourly Total	0	107	79	104	0	290	1	243	932	137	0	1313	0	166	98	306	0	570	7	89	883	176	0	1155	3328
6:00 PM	0	16	25	34	0	75	1	61	248	27	0	337	0	47	24	73	0	144	4	21	211	39	0	275	831
6:15 PM	0	32	13	12	0	57	1	54	198	25	0	278	0	45	12	73	0	130	6	13	168	28	0	215	680
6:30 PM	0	15	16	26	0	57	0	47	223	12	0	282	0	41	17	64	0	122	3	5	147	33	0	188	649
6:45 PM	0	16	6	10	0	32	0	49	188	13	0	250	0	38	9	65	0	112	3	9	131	26	0	169	563
Hourly Total	0	79	60	82	0	221	2	211	857	77	0	1147	0	171	62	275	0	508	16	48	657	126	0	847	2723
7:00 PM	0	6	13	10	0	29	1	47	124	20	0	192	0	24	19	54	0	97	0	16	184	38	0	238	556
7:15 PM	0	16	7	16	0	39	0	34	119	11	0	164	0	17	14	58	0	89	0	6	122	24	0	152	444
7:30 PM	0	13	10	4	0	27	0	25	92	15	0	132	0	17	9	41	0	67	1	7	193	37	0	238	464
7:45 PM	0	10	5	11	0	26	1	31	94	22	0	148	0	25	11	48	0	84	3	8	119	31	0	161	419
Hourly Total	0	45	35	41	0	121	2	137	429	68	0	636	0	83	53	201	0	337	4	37	618	130	0	789	1883
8:00 PM	0	13	10	13	0	36	0	21	96	9	0	126	0	27	12	38	0	77	1	3	121	22	0	147	386
8:15 PM	0	13	7	8	0	28	0	27	88	13	0	128	0	20	7	37	0	64	0	9	148	23	0	180	400
8:30 PM	0	11	1	3	0	15	0	26	111	17	0	154	0	22	5	38	0	65	0	10	174	33	0	217	451
8:45 PM	0	13	2	2	0	17	1	16	87	15	0	119	0	19	6	31	0	56	3	11	177	26	0	217	409
Hourly Total	0	50	20	26	0	96	1	90	382	54	0	527	0	88	30	144	0	262	4	33	620	104	0	761	1646
9:00 PM	0	8	8	8	0	24	0	17	74	8	0	99	0	15	7	27	0	49	1	7	141	30	0	179	351
9:15 PM	0	4	4	5	0	13	0	13	60	2	0	75	0	22	4	38	0	64	5	3	84	10	0	102	254
9:30 PM	0	9	3	3	0	15	0	15	51	14	0	80	0	15	4	28	0	47	0	5	74	8	0	87	229
9:45 PM	0	9	1	6	0	16	0	7	51	11	0	69	0	14	3	19	0	36	0	1	53	6	0	60	181
Hourly Total	0	30	16	22	0	68	0	52	236	35	0	323	0	66	18	112	0	196	6	16	352	54	0	428	1015
10:00 PM	0	4	0	2	0	6	1	5	41	6	0	53	0	17	3	14	0	34	0	3	72	3	0	78	171
10:15 PM	0	5	1	3	0	9	2	3	37	2	0	44	0	5	1	7	0	13	0	3	54	5	0	62	128
10:30 PM	0	6	1	3	0	10	0	2	53	4	0	59	0	7	2	5	0	14	0	0	39	1	0	40	123
10:45 PM	0	3	1	0	0	4	0	2	35	6	0	43	0	6	1	4	0	11	0	2	27	4	0	33	91
Hourly Total	0	18	3	8	0	29	3	12	166	18	0	199	0	35	7	30	0	72	0	8	192	13	0	213	513
11:00 PM	0	4	0	1	0	5	1	2	24	5	0	32	0	6	2	1	0	9	0	0	22	1	0	23	69
11:15 PM	0	2	1	0	0	3	1	2	16	5	0	24	0	2	2	6	0	10	0	4	24	1	0	29	66
11:30 PM	0	4	0	2	0	6	0	3	18	1	0	22	0	5	0	1	0	6	0	3	15	4	0	22	56
11:45 PM	0	1	0	0	0	1	0	2	15	4	0	21	0	1	0	3	0	4	0	2	13	1	0	16	42
Hourly Total	0	11	1	3	0	15	2	9	73	15	0	99	0	14	4	11	0	29	0	9	74	7	0	90	233
<b>DAILY TOTAL</b>	<b>0</b>	<b>1542</b>	<b>838</b>	<b>1169</b>	<b>0</b>	<b>3549</b>	<b>44</b>	<b>2594</b>	<b>10198</b>	<b>1346</b>	<b>0</b>	<b>14182</b>	<b>0</b>	<b>1898</b>	<b>868</b>	<b>3350</b>	<b>3</b>	<b>6116</b>	<b>142</b>	<b>924</b>	<b>10840</b>	<b>2043</b>	<b>6</b>	<b>13949</b>	<b>37796</b>
<b>Cars</b>	0	1523	831	1153	0	3507	43	2578	9975	1332	0	13928	0	1885	865	3315	3	6065	141	915	10591	2020	5	13667	37167
<b>Heavy Vehicles</b>	0	19	7	16	0	42	1	16	223	14	0	254	0	13	3	35	0	51	1	9	249	23	1	282	629
<b>Heavy Vehicle %</b>	0.00%	1.23%	0.84%	1.37%	0.00%	1.18%	2.27%	0.62%	2.19%	1.04%	0.00%	1.79%	0.00%	0.68%	0.35%	1.04%	0.00%	0.83%	0.70%	0.97%	2.30%	1.13%	16.67%	2.02%	1.66%

**TMC 2492 - CSAH 14 @ Ulysses St  
Blaine MN**

**Tuesday, December 17, 2024**

**AM Peak Hour**

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
7:15 AM	0	37	15	47	0	99	0	26	322	17	0	365	0	37	9	35	0	81	3	16	138	23	0	180	725
7:30 AM	0	38	9	19	0	66	0	32	241	24	0	297	0	25	12	31	0	68	3	17	198	23	0	241	672
7:45 AM	0	30	22	28	0	80	0	42	171	27	0	240	0	15	6	22	0	43	2	32	177	35	0	246	609
8:00 AM	0	37	14	38	0	89	2	33	197	25	0	257	0	15	9	26	0	50	7	17	163	34	0	221	617
Peak Hour Total	0	142	60	132	0	334	2	133	931	93	0	1159	0	92	36	114	0	242	15	82	676	115	0	888	2623
PHF	0.000	0.934	0.682	0.702	0.000	0.843	0.250	0.792	0.723	0.861	0.000	0.794	0.000	0.622	0.750	0.814	0.000	0.747	0.536	0.641	0.854	0.821	0.000	0.902	0.904

**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	33	14	23	0	70	1	58	239	39	0	337	0	39	17	75	0	131	0	25	245	37	0	307	845
4:45 PM	0	31	20	25	0	76	0	55	230	40	0	325	0	51	14	78	0	143	6	30	265	48	0	349	893
5:00 PM	0	28	20	26	0	74	0	59	254	31	0	344	0	35	30	81	0	146	0	26	242	41	0	309	873
5:15 PM	0	30	24	21	0	75	1	58	231	47	0	337	0	48	21	86	0	155	3	22	219	47	0	291	858
Peak Hour Total	0	122	78	95	0	295	2	230	954	157	0	1343	0	173	82	320	0	575	9	103	971	173	0	1256	3469
PHF	0.000	0.924	0.813	0.913	0.000	0.970	0.500	0.975	0.939	0.835	0.000	0.976	0.000	0.848	0.683	0.930	0.000	0.927	0.375	0.858	0.916	0.901	0.000	0.900	0.971

Total Vehicles On Leg		6687					
Vehicles Entering Intersection		3549		Vehicles Exiting Intersection		3138	
<b>Southbound</b>							
Cars	1153	831	1523	0	0		
Heavy	16	7	19	0	0		
<b>Total</b>	<b>1169</b>	<b>838</b>	<b>1542</b>	<b>0</b>	<b>0</b>		



Total Vehicles on Leg 27356	Vehicles Entering Intersection 13949	Eastbound	Cars	Heavy	Total	    
			5	1	6	
			141	1	142	
			915	9	924	
			10591	249	10840	
2020	23	2043				

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 14182	Total Vehicles on Leg 29958
1332	14	1346			
9975	223	10198			
2578	16	2594			
43	1	44			
0	0	0	Vehicles Exiting Intersection 15776		



Cars	3	0	1885	865	3315
Heavy	0	0	13	3	35
<b>Total</b>	<b>3</b>	<b>0</b>	<b>1898</b>	<b>868</b>	<b>3350</b>
<b>Northbound</b>					
Vehicles Entering Intersection			6116		
Vehicles Exiting Intersection			5475		
Total Vehicles On Leg			11591		





# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2492

Study Date : 12/31/2024

## Signal Warrants - Summary

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### Major Street Approaches

#### Eastbound: CSAH 14

Number of Lanes : 2+

Total Approach Volume: 13,949

#### Westbound: CSAH 14

Number of Lanes :2+

Total Approach Volume: 14,182

### Minor Street Approaches

#### Northbound: Ulysses St

Number of Lanes :2+

Total Approach Volume: 2,766

#### Southbound: Ulysses St

Number of Lanes :2+

Total Approach Volume: 2,380

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### Warrant Summary (Rural 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.....Satisfied**

Required volumes reached for 16 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 17 hours, 8 are needed

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

Number of hours (15) volumes exceed minimum >= minimum required (4).

**Warrant 3 - Peak Hour.....Satisfied**

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

Number of one hour periods (45) 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 2492

Study Date : 12/31/2024

## Warrant 1A - Minimum Volumes

#### Description

Intended for sites where the volume of intersecting traffic is the principal reason for consideration of a signal installation.

#### Summary

13 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 = **2 or more**

#### Volume Requirements

Rural Factor of 70 % applied  
 Veh/Hr Major = **420**  
 Veh/Hr Minor = **140**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	<b>CSAH 14</b>					<b>Ulysses St</b>		
16:30 - 17:30	1256	+	1343	=	2599	255	200	Yes
15:30 - 16:30	1228	+	1211	=	2439	253	162	Yes
17:30 - 18:30	1045	+	1247	=	2292	258	170	Yes
14:30 - 15:30	1274	+	941	=	2215	233	146	Yes
07:30 - 08:30	923	+	989	=	1912	115	199	Yes
13:30 - 14:30	869	+	812	=	1681	191	150	Yes
11:30 - 12:30	763	+	894	=	1657	200	178	Yes
18:30 - 19:30	747	+	888	=	1635	179	95	Yes
06:30 - 07:30	624	+	938	=	1562	101	142	Yes
12:30 - 13:30	747	+	805	=	1552	213	149	Yes
08:30 - 09:30	681	+	737	=	1418	109	151	Yes
10:30 - 11:30	640	+	746	=	1386	148	155	Yes
09:30 - 10:30	627	+	666	=	1293	155	143	Yes
20:15 - 21:15	793	+	500	=	1293	101	63	No
20:00 - 21:00	761	+	527	=	1288	118	70	No
19:45 - 20:45	705	+	556	=	1261	129	70	No
19:30 - 20:30	726	+	534	=	1260	128	81	No
06:15 - 07:15	558	+	667	=	1225	61	120	No
20:30 - 21:30	715	+	447	=	1162	100	51	No
20:45 - 21:45	585	+	373	=	958	92	51	No
06:00 - 07:00	488	+	462	=	950	38	97	No
05:45 - 06:45	411	+	360	=	771	26	91	No
21:00 - 22:00	428	+	323	=	751	84	46	No
05:30 - 06:30	331	+	293	=	624	15	78	No
21:15 - 22:15	327		277		604	82	34	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2492

Study Date : 12/31/2024

## Warrant 1B - Interruption of Continuous Traffic

#### Description

Intended for sites where the volume of the major street is so heavy that traffic on the minor street suffers excessive delay or hazard.

#### Summary

16 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 = **2 or more**

#### Volume Requirements

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

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:45 - 17:45	1249	+	1333	=	2582	263	197	Yes
15:45 - 16:45	1240	+	1249	=	2489	247	172	Yes
14:45 - 15:45	1210	+	968	=	2178	244	153	Yes
17:45 - 18:45	933	+	1202	=	2135	252	157	Yes
13:45 - 14:45	1022	+	884	=	1906	202	146	Yes
06:45 - 07:45	732	+	1102	=	1834	126	163	Yes
07:45 - 08:45	860	+	848	=	1708	101	185	Yes
11:45 - 12:45	758	+	861	=	1619	215	170	Yes
12:45 - 13:45	753	+	802	=	1555	200	143	Yes
18:45 - 19:45	797	+	738	=	1535	147	87	Yes
10:45 - 11:45	708	+	797	=	1505	145	166	Yes
08:45 - 09:45	656	+	759	=	1415	112	147	Yes
09:45 - 10:45	611	+	673	=	1284	170	151	Yes
19:45 - 20:45	705	+	556	=	1261	129	70	Yes
20:45 - 21:45	585	+	373	=	958	92	51	Yes
05:45 - 06:45	411	+	360	=	771	26	91	Yes
05:30 - 06:30	331	+	293	=	624	15	78	No
05:15 - 06:15	274	+	236	=	510	11	58	No
21:45 - 22:45	240	+	225	=	465	52	27	No
22:00 - 23:00	213	+	199	=	412	42	21	No
05:00 - 06:00	216	+	195	=	411	10	49	No
22:15 - 23:15	158	+	178	=	336	30	21	No
04:45 - 05:45	181	+	148	=	329	6	41	No
22:30 - 23:30	125	+	158	=	283	28	18	No
04:30 - 05:30	157		100		257	5	31	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2492

Study Date : 12/31/2024

## Warrant 1C Combination of Warrants

#### Description

Intended for sites where the traffic volumes don't meet individual warrants but where Warrants 1A and 1B are both met to 80% of their stated values.

#### Summary

14 hours meet 1A minimums.  
17 hours meet 1B minimums.  
Warrant IS met.

#### Site Data Required

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

#### Volume Requirements

Rural Factor of 70% applied  
Warrant 1A 1B  
Veh/Hr Major = **336 504**  
  
Veh/Hr Minor = **112 56**

#### Major Road CSAH 14

#### Minor Road Ulysses St

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:15 - 17:15	1331	+	1293	=	2624	261	180	Yes
17:15 - 18:15	1121	+	1306	=	2427	270	179	Yes
15:15 - 16:15	1222	+	1100	=	2322	239	165	Yes
14:15 - 15:15	1199	+	947	=	2146	226	154	Yes
07:15 - 08:15	888	+	1159	=	2047	128	202	Yes
18:15 - 19:15	810	+	1002	=	1812	205	117	Yes
11:15 - 12:15	740	+	900	=	1640	182	174	Yes
13:15 - 14:15	787	+	821	=	1608	190	142	Yes
12:15 - 13:15	743	+	818	=	1561	216	154	Yes
09:15 - 10:15	660	+	743	=	1403	134	143	Yes
08:15 - 09:15	696	+	697	=	1393	116	158	Yes
10:15 - 11:15	631	+	694	=	1325	157	159	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:15 - 17:15	1331	+	1293	=	2624	261	180	Yes
17:15 - 18:15	1121	+	1306	=	2427	270	179	Yes
15:15 - 16:15	1222	+	1100	=	2322	239	165	Yes
14:15 - 15:15	1199	+	947	=	2146	226	154	Yes
07:15 - 08:15	888	+	1159	=	2047	128	202	Yes
18:15 - 19:15	810	+	1002	=	1812	205	117	Yes
11:15 - 12:15	740	+	900	=	1640	182	174	Yes
13:15 - 14:15	787	+	821	=	1608	190	142	Yes
12:15 - 13:15	743	+	818	=	1561	216	154	Yes
09:15 - 10:15	660	+	743	=	1403	134	143	Yes
08:15 - 09:15	696	+	697	=	1393	116	158	Yes
10:15 - 11:15	631	+	694	=	1325	157	159	Yes

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2492

Study Date : 12/31/2024

## Warrant 2 - Four Hour Volumes

#### Description

Intended for sites where the volume of intersecting traffic during any four hours of the day is the principal reason for consideration of a signal installation.

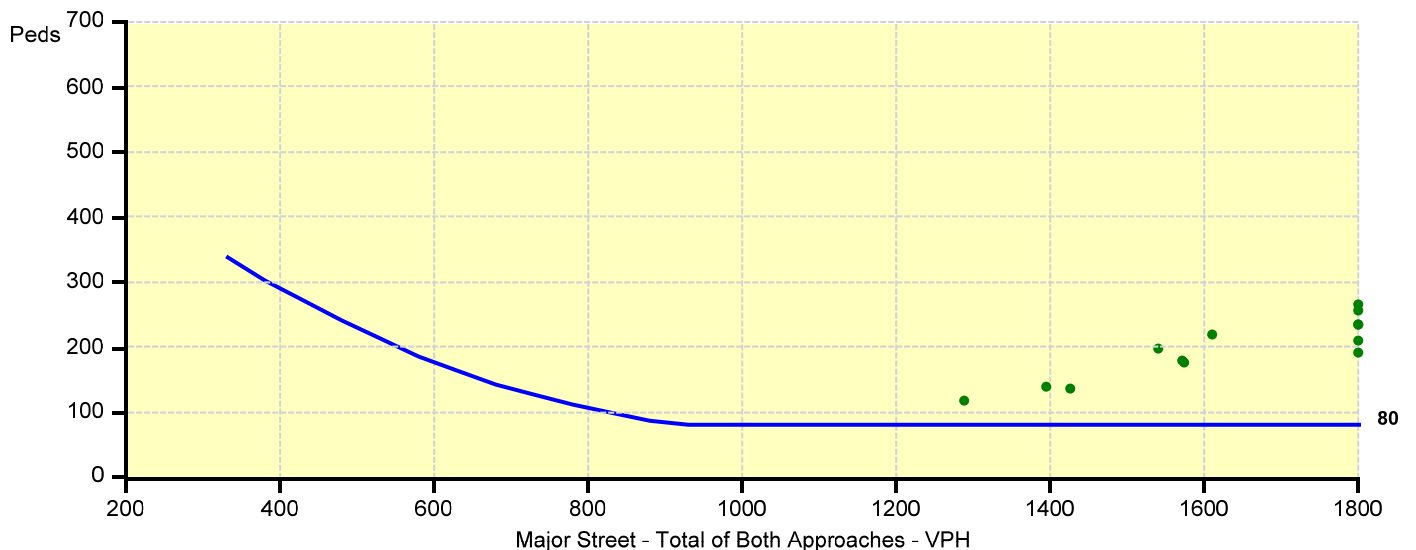
#### Summary

15 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 = **2 or more**

Time	Major Road CSAH 14					Minor Road Ulysses St		Met?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	
16:00 - 17:00	1304	+	1288	=	2592	257	176	Yes
17:00 - 18:00	1155	+	1313	=	2468	264	186	Yes
15:00 - 16:00	1260	+	1011	=	2271	234	163	Yes
14:00 - 15:00	1071	+	936	=	2007	211	148	Yes
07:00 - 08:00	825	+	1170	=	1995	129	192	Yes
18:00 - 19:00	847	+	1147	=	1994	233	139	Yes
12:00 - 13:00	752	+	858	=	1610	219	162	Yes
08:00 - 09:00	780	+	794	=	1574	104	175	Yes
11:00 - 12:00	728	+	843	=	1571	179	172	Yes
13:00 - 14:00	762	+	779	=	1541	197	141	Yes
19:00 - 20:00	789	+	636	=	1425	136	80	Yes
09:00 - 10:00	644		752		1396	131	138	Yes



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2492

Study Date : 12/31/2024

## Warrant 3B - Peak Hour Volumes

#### Description

Intended for sites where the volume of intersecting traffic during one hour of the day is the principal reason for consideration of a signal installation.

#### Summary

58 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 = **2 or more**

Time	Major Road CSAH 14				Total	Minor Road Ulysses St		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	1331	+	1293	=	2624	261	180	Yes
16:30 - 17:30	1256	+	1343	=	2599	255	200	Yes
16:00 - 17:00	1304	+	1288	=	2592	257	176	Yes
16:45 - 17:45	1249	+	1333	=	2582	263	197	Yes
15:45 - 16:45	1240	+	1249	=	2489	247	172	Yes
17:00 - 18:00	1155	+	1313	=	2468	264	186	Yes
15:30 - 16:30	1228	+	1211	=	2439	253	162	Yes
17:15 - 18:15	1121	+	1306	=	2427	270	179	Yes
15:15 - 16:15	1222	+	1100	=	2322	239	165	Yes
17:30 - 18:30	1045	+	1247	=	2292	258	170	Yes
15:00 - 16:00	1260	+	1011	=	2271	234	163	Yes
14:30 - 15:30	1274		941		2215	233	146	Yes

