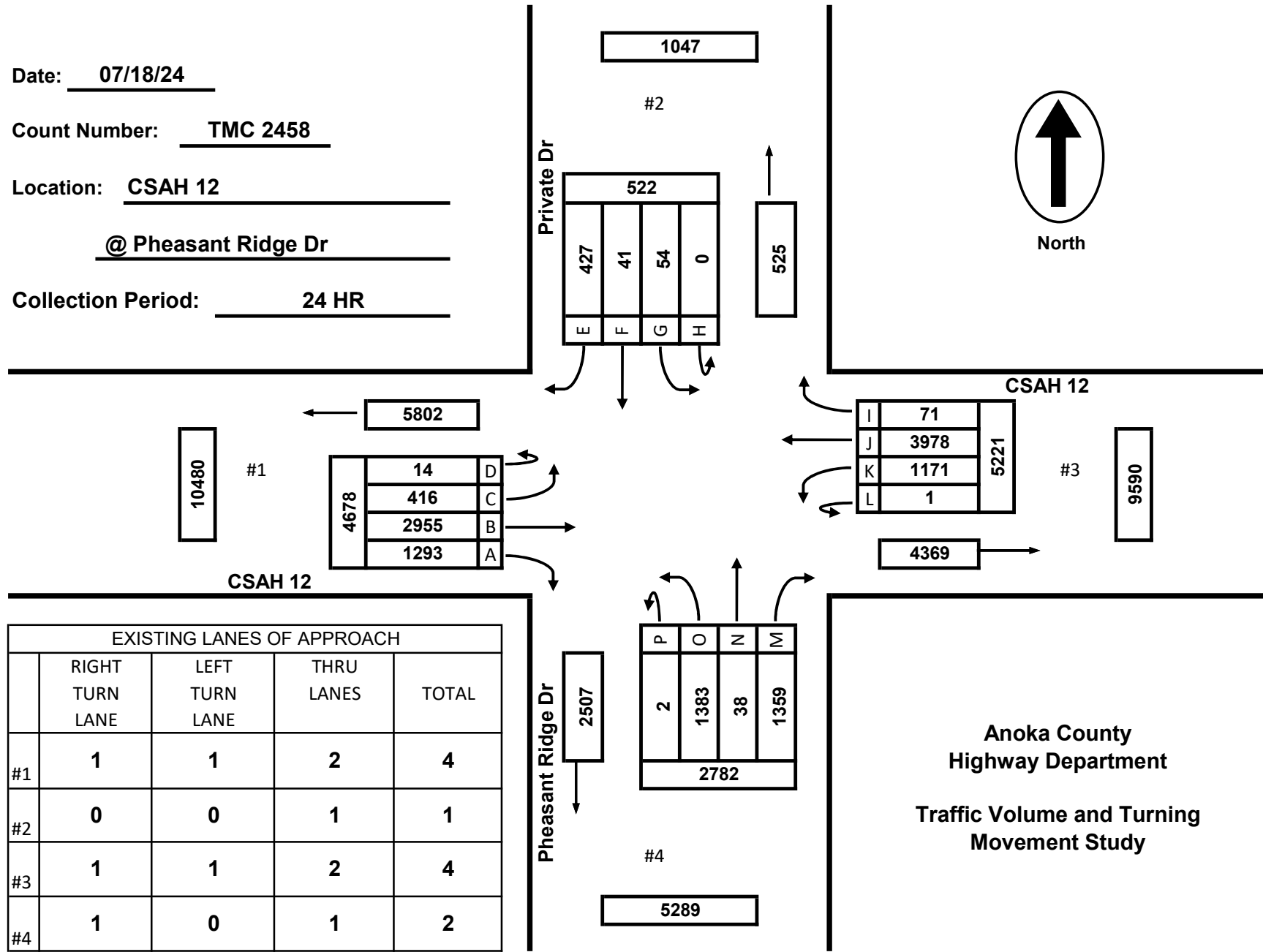
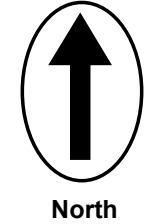


Date: 07/18/24

Count Number: TMC 2458

Location: CSAH 12  
@ Pheasant Ridge Dr

Collection Period: 24 HR



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

1047

#2

Private Dr

522			
427	41	54	0
E	F	G	H

525

CSAH 12

10480

#1

5802

4678	14	D
	416	C
	2955	B
	1293	A

CSAH 12

I	71	5221
J	3978	
K	1171	
L	1	

#3

9590

4369

Pheasant Ridge Dr

2507

P	O	N	M
2	1383	38	1359
2782			

#4

5289

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

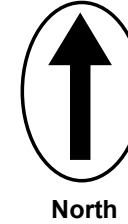
Date: 07/18/24

Count Number: TMC 2458

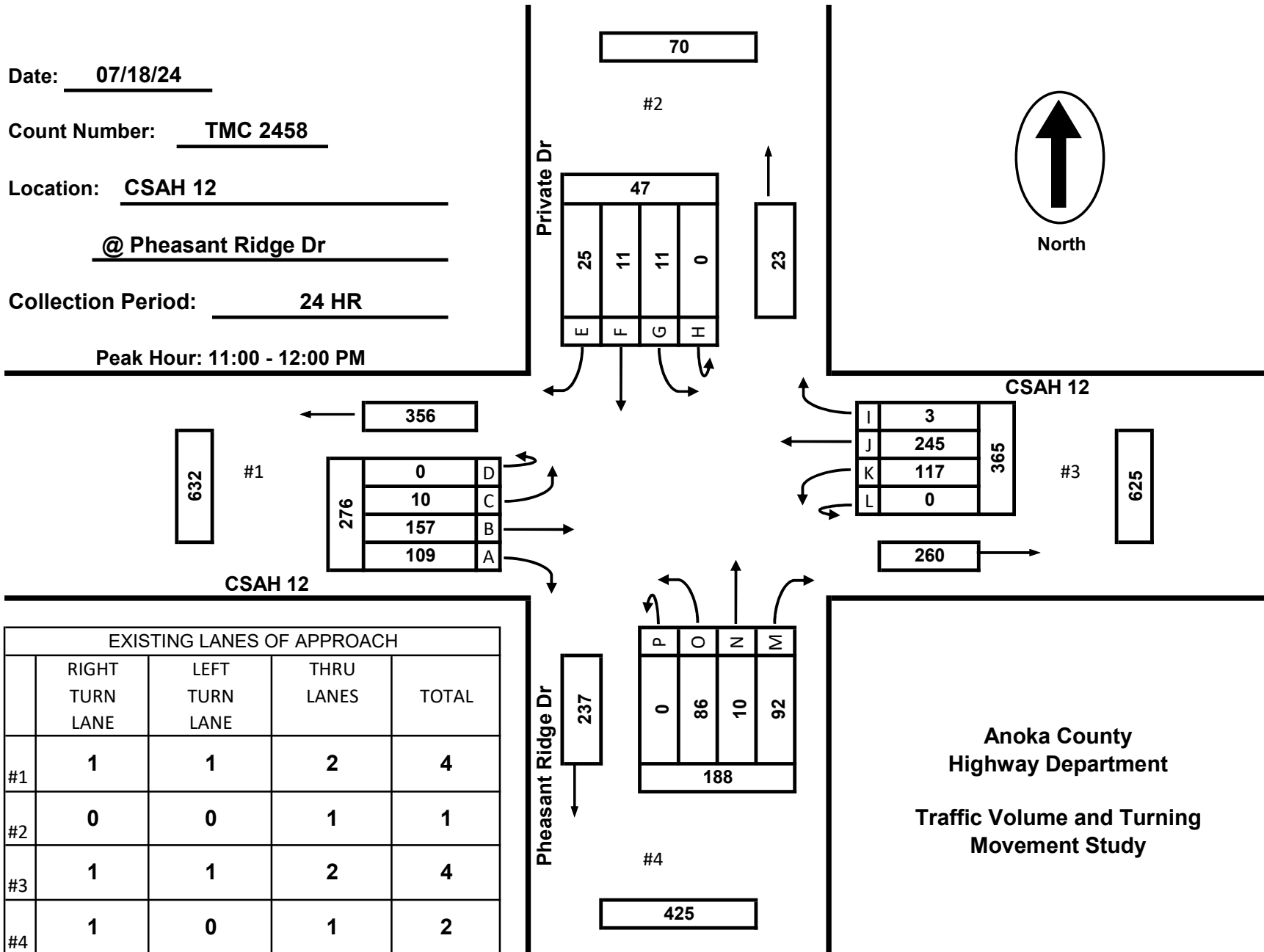
Location: CSAH 12  
@ Pheasant Ridge Dr

Collection Period: 24 HR

Peak Hour: 11:00 - 12:00 PM



North



Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

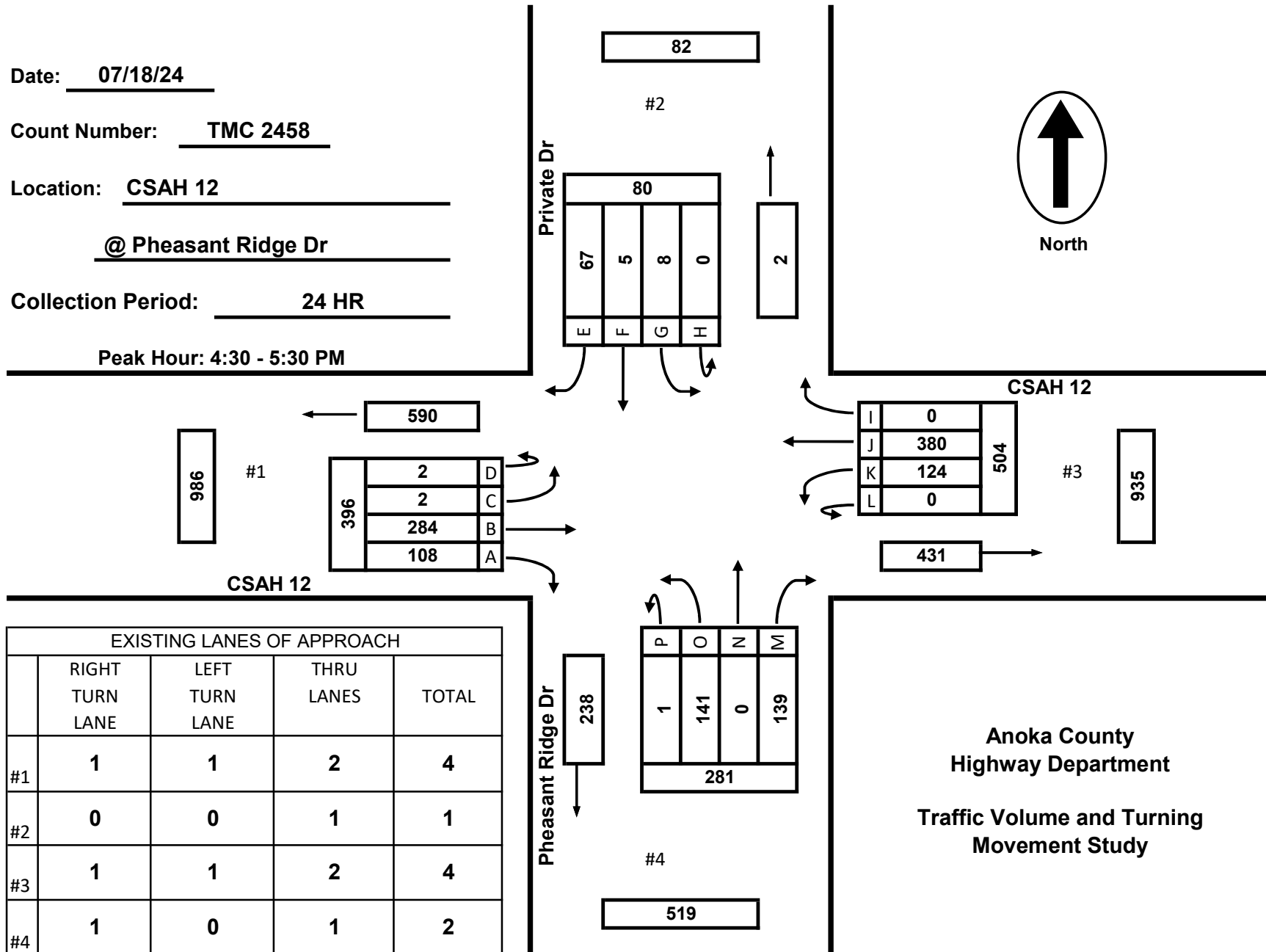
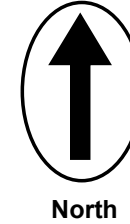
Date: 07/18/24

Count Number: TMC 2458

Location: CSAH 12  
@ Pheasant Ridge Dr

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

Anoka County  
 Highway Department  
 Traffic Volume and Turning  
 Movement Study

**TMC 2458 - CSAH 12 @ Pheasant Ridge Dr  
Blaine MN  
Thursday, July 18, 2024**

Time	Southbound Private Dr						Westbound CSAH 12						Northbound Pheasant Ridge Dr NE						Eastbound CSAH 12						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	2	0	0	2	0	0	0	5	0	5	0	0	2	0	0	2	9
12:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	2	0	3	0	0	5	0	0	5	11
12:30 AM	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	2	0	2	0	0	5	0	0	5	11
12:45 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	1	0	1	0	0	1	0	0	1	5
Hourly Total	0	0	0	0	0	0	0	1	11	0	0	12	0	1	0	10	0	11	0	0	13	0	0	13	36
1:00 AM	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	4
1:15 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	2
1:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	4
1:45 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	0	0	0	2	0	2	0	0	4	0	0	4	0	0	0	1	0	1	0	0	5	0	0	5	12
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
2:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
2:45 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	3
Hourly Total	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	4	0	0	4	7
3:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2
3:15 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
3:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:45 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	4
Hourly Total	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	2	0	0	2	10
4:00 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3	6
4:15 AM	0	0	0	0	0	0	0	1	6	0	0	7	0	0	0	0	0	0	0	0	3	1	0	4	11
4:30 AM	0	0	0	0	0	0	0	0	11	0	0	11	0	1	0	0	0	1	0	0	5	4	0	9	21
4:45 AM	0	0	0	0	0	0	0	5	19	0	0	24	0	0	0	0	0	0	0	0	8	7	0	15	39
Hourly Total	0	0	0	0	0	0	0	6	39	0	0	45	0	1	0	0	0	1	0	0	19	12	0	31	77
5:00 AM	0	0	0	0	0	0	0	1	14	1	0	16	0	1	0	0	0	1	0	0	5	2	0	7	24
5:15 AM	0	0	0	0	0	0	0	1	12	1	0	14	0	0	0	0	0	0	0	1	8	1	0	10	24
5:30 AM	0	0	0	0	0	0	0	1	31	1	0	33	0	0	0	0	0	0	0	4	11	5	0	20	53
5:45 AM	0	0	0	1	0	1	0	9	22	1	0	32	0	2	1	2	0	5	0	7	20	7	0	34	72
Hourly Total	0	0	0	1	0	1	0	12	79	4	0	95	0	3	1	2	0	6	0	12	44	15	0	71	173
6:00 AM	0	1	0	0	0	1	0	5	26	0	0	31	0	0	0	6	0	6	0	6	10	4	0	20	58
6:15 AM	0	0	0	0	0	0	0	6	42	0	0	48	0	7	0	2	0	9	0	14	14	3	0	31	88
6:30 AM	0	0	0	0	0	0	0	4	67	2	0	73	0	3	0	2	0	5	0	4	24	7	0	35	113
6:45 AM	0	0	0	1	0	1	0	6	55	0	0	61	0	4	1	5	0	10	0	7	28	10	0	45	117
Hourly Total	0	1	0	1	0	2	0	21	190	2	0	213	0	14	1	15	0	30	0	31	76	24	0	131	376
7:00 AM	0	0	0	0	0	0	0	6	38	2	0	46	0	7	1	9	0	17	0	24	22	10	0	56	119
7:15 AM	0	0	0	0	0	0	0	4	67	4	0	75	0	7	2	3	0	12	0	19	31	9	0	59	146
7:30 AM	0	0	0	0	0	0	0	7	87	3	0	97	0	9	1	5	0	15	0	22	23	11	0	56	168
7:45 AM	0	0	0	2	0	2	0	12	74	10	0	96	0	7	0	3	0	10	0	37	35	15	0	87	195
Hourly Total	0	0	0	2	0	2	0	29	266	19	0	314	0	30	4	20	0	54	0	102	111	45	0	258	628

**TMC 2458 - CSAH 12 @ Pheasant Ridge Dr  
Blaine MN  
Thursday, July 18, 2024**

Time	Southbound Private Dr						Westbound CSAH 12						Northbound Pheasant Ridge Dr NE						Eastbound CSAH 12						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	1	2	0	3	0	13	54	6	0	73	0	10	1	9	0	20	0	28	30	13	0	71	167
8:15 AM	0	0	0	0	0	0	0	11	64	5	0	80	0	11	2	6	0	19	0	48	35	21	0	104	203
8:30 AM	0	0	0	2	0	2	0	7	60	6	0	73	0	12	0	18	0	30	0	35	29	13	0	77	182
8:45 AM	0	0	0	1	0	1	0	14	59	4	0	77	0	11	1	9	0	21	0	21	40	15	0	76	175
Hourly Total	0	0	1	5	0	6	0	45	237	21	0	303	0	44	4	42	0	90	0	132	134	62	0	328	727
9:00 AM	0	0	0	1	0	1	0	15	61	1	1	77	0	10	3	11	0	24	1	18	30	15	0	64	166
9:15 AM	0	0	1	5	0	6	0	14	55	3	0	72	0	12	0	10	0	22	0	19	21	10	1	50	150
9:30 AM	0	1	0	1	0	2	0	14	59	2	0	75	0	20	1	8	0	29	0	16	30	14	0	60	166
9:45 AM	0	0	0	0	0	0	0	13	60	3	0	76	0	14	1	11	0	26	0	10	27	30	0	67	169
Hourly Total	0	1	1	7	0	9	0	56	235	9	1	300	0	56	5	40	0	101	1	63	108	69	1	241	651
10:00 AM	0	1	0	0	0	1	0	23	59	0	0	82	0	28	0	12	0	40	0	10	39	28	0	77	200
10:15 AM	0	0	0	2	0	2	0	18	54	0	0	72	0	12	1	14	0	27	0	8	37	20	0	65	166
10:30 AM	0	0	0	0	0	0	0	15	46	0	0	61	0	22	0	19	1	41	0	5	39	19	0	63	165
10:45 AM	0	0	0	4	0	4	0	23	47	1	0	71	0	15	0	15	1	30	0	2	64	18	0	84	189
Hourly Total	0	1	0	6	0	7	0	79	206	1	0	286	0	77	1	60	2	138	0	25	179	85	0	289	720
11:00 AM	0	1	2	5	0	8	0	27	70	1	0	98	0	18	0	25	0	43	0	2	44	30	1	76	225
11:15 AM	0	3	4	8	0	15	0	27	55	1	0	83	0	21	4	20	0	45	0	3	35	28	0	66	209
11:30 AM	0	3	1	7	0	11	0	32	62	1	0	95	0	23	3	25	0	51	0	3	34	18	0	55	212
11:45 AM	0	4	4	5	0	13	0	31	58	0	0	89	0	24	3	22	0	49	0	2	44	33	0	79	230
Hourly Total	0	11	11	25	0	47	0	117	245	3	0	365	0	86	10	92	0	188	0	10	157	109	1	276	876
12:00 PM	0	0	1	13	0	14	0	28	55	0	0	83	0	23	3	27	0	53	2	1	56	40	1	99	249
12:15 PM	0	2	1	7	0	10	0	32	52	3	1	87	0	25	2	37	1	64	0	4	45	30	0	79	240
12:30 PM	0	0	0	8	0	8	0	16	68	2	0	86	0	41	4	35	0	80	0	3	48	24	1	75	249
12:45 PM	0	0	1	11	0	12	0	26	69	2	0	97	0	23	0	23	0	46	2	4	38	29	0	73	228
Hourly Total	0	2	3	39	0	44	0	102	244	7	1	353	0	112	9	122	1	243	4	12	187	123	2	326	966
1:00 PM	0	0	1	5	0	6	0	21	47	0	1	68	0	32	1	31	0	64	0	2	51	29	0	82	220
1:15 PM	0	0	0	10	0	10	0	18	72	0	1	90	0	18	0	18	0	36	0	2	36	26	0	64	200
1:30 PM	0	1	2	2	0	5	0	21	63	0	0	84	0	34	1	29	0	64	0	4	39	30	0	73	226
1:45 PM	0	0	1	8	0	9	0	26	54	0	2	80	0	27	0	26	0	53	0	0	45	31	0	76	218
Hourly Total	0	1	4	25	0	30	0	86	236	0	4	322	0	111	2	104	0	217	0	8	171	116	0	295	864
2:00 PM	0	4	2	36	0	42	0	12	52	0	1	64	0	31	1	25	0	57	0	1	47	25	0	73	236
2:15 PM	0	0	1	9	0	10	0	18	60	0	0	78	0	39	0	23	0	62	0	2	53	24	2	79	229
2:30 PM	0	0	1	16	0	17	0	21	84	1	0	106	0	26	0	23	0	49	1	3	41	33	0	78	250
2:45 PM	0	3	1	13	0	17	0	17	55	1	0	73	0	37	0	27	0	64	2	2	47	25	0	76	230
Hourly Total	0	7	5	74	0	86	0	68	251	2	1	321	0	133	1	98	0	232	3	8	188	107	2	306	945
3:00 PM	0	2	0	20	0	22	0	26	75	1	0	102	0	37	0	26	0	63	1	1	53	26	3	81	268
3:15 PM	0	2	2	26	0	30	0	24	73	0	0	97	0	35	0	19	0	54	0	2	66	28	2	96	277
3:30 PM	0	5	2	34	0	41	0	25	74	1	0	100	0	24	0	25	0	49	0	0	77	26	0	103	293
3:45 PM	0	6	3	15	0	24	0	26	97	0	0	123	0	33	0	35	0	68	1	2	50	30	3	83	298
Hourly Total	0	15	7	95	0	117	0	101	319	2	0	422	0	129	0	105	0	234	2	5	246	110	8	363	1136

**TMC 2458 - CSAH 12 @ Pheasant Ridge Dr  
Blaine MN  
Thursday, July 18, 2024**

Time	Southbound Private Dr						Westbound CSAH 12						Northbound Pheasant Ridge Dr NE						Eastbound CSAH 12						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	1	0	28	0	29	0	26	85	0	1	111	0	36	0	36	0	72	0	0	74	29	2	103	315
4:15 PM	0	2	2	21	0	25	0	27	83	0	1	110	0	27	0	32	0	59	0	1	68	29	1	98	292
4:30 PM	0	2	3	21	0	26	0	17	105	0	0	122	0	29	0	39	0	68	1	0	60	29	1	90	306
4:45 PM	0	1	1	20	0	22	0	35	98	0	2	133	1	38	0	33	0	72	1	1	70	27	2	99	326
Hourly Total	0	6	6	90	0	102	0	105	371	0	4	476	1	130	0	140	0	271	2	2	272	114	6	390	1239
5:00 PM	0	1	0	16	0	17	0	40	98	0	0	138	0	35	0	27	0	62	0	1	63	31	0	95	312
5:15 PM	0	4	1	10	0	15	0	32	79	0	0	111	0	39	0	40	0	79	0	0	91	21	1	112	317
5:30 PM	0	2	0	9	0	11	0	24	74	0	0	98	0	36	0	32	0	68	0	1	65	29	0	95	272
5:45 PM	0	0	0	4	0	4	0	30	62	0	0	92	1	31	0	38	0	70	0	0	58	18	0	76	242
Hourly Total	0	7	1	39	0	47	0	126	313	0	0	439	1	141	0	137	0	279	0	2	277	99	1	378	1143
6:00 PM	0	0	0	6	0	6	0	23	79	0	0	102	0	30	0	41	0	71	0	0	60	21	0	81	260
6:15 PM	0	0	0	2	0	2	1	23	76	0	0	100	0	26	0	24	0	50	0	0	55	16	0	71	223
6:30 PM	0	1	1	0	0	2	0	14	52	0	0	66	0	15	0	33	0	48	0	0	43	16	0	59	175
6:45 PM	0	0	0	4	0	4	0	12	60	1	0	73	0	24	0	18	0	42	0	1	45	22	0	68	187
Hourly Total	0	1	1	12	0	14	1	72	267	1	0	341	0	95	0	116	0	211	0	1	203	75	0	279	845
7:00 PM	0	0	0	1	0	1	0	17	41	0	0	58	0	14	0	24	0	38	0	0	49	15	0	64	161
7:15 PM	0	0	0	0	0	0	0	17	50	0	0	67	0	21	0	26	0	47	0	0	56	16	0	72	186
7:30 PM	0	0	0	0	0	0	0	15	38	0	0	53	0	17	0	20	0	37	1	1	40	17	0	59	149
7:45 PM	0	0	0	0	0	0	0	12	33	0	0	45	0	21	0	16	0	37	0	0	47	14	0	61	143
Hourly Total	0	0	0	1	0	1	0	61	162	0	0	223	0	73	0	86	0	159	1	1	192	62	0	256	639
8:00 PM	0	0	0	0	0	0	0	16	30	0	0	46	0	23	0	23	0	46	0	0	45	13	0	58	150
8:15 PM	0	0	0	0	0	0	0	16	42	0	0	58	0	22	0	32	0	54	0	0	38	14	0	52	164
8:30 PM	0	0	0	0	0	0	0	9	26	0	0	35	0	26	0	22	0	48	1	0	47	8	0	56	139
8:45 PM	0	0	0	0	0	0	0	4	29	0	0	33	0	13	0	16	0	29	0	0	34	7	0	41	103
Hourly Total	0	0	0	0	0	0	0	45	127	0	0	172	0	84	0	93	0	177	1	0	164	42	0	207	556
9:00 PM	0	0	0	1	0	1	0	8	31	0	0	39	0	14	0	13	0	27	0	0	36	5	0	41	108
9:15 PM	0	0	1	0	0	1	0	4	30	0	0	34	0	9	0	14	0	23	0	1	43	4	0	48	106
9:30 PM	0	0	0	0	0	0	0	6	23	0	0	29	0	5	0	8	0	13	0	0	24	5	0	29	71
9:45 PM	0	0	0	0	0	0	0	4	12	0	0	16	0	9	0	12	0	21	0	0	17	3	0	20	57
Hourly Total	0	0	1	1	0	2	0	22	96	0	0	118	0	37	0	47	0	84	0	1	120	17	0	138	342
10:00 PM	0	0	0	0	0	0	0	3	10	0	0	13	0	11	0	7	0	18	0	0	16	2	0	18	49
10:15 PM	0	0	0	0	0	0	0	2	9	0	0	11	0	2	0	4	0	6	0	0	12	0	0	12	29
10:30 PM	0	0	0	0	0	0	0	2	9	0	0	11	0	2	0	4	0	6	0	0	15	1	0	16	33
10:45 PM	0	0	0	0	0	0	0	2	12	0	0	14	0	2	0	2	0	4	0	0	14	1	0	15	33
Hourly Total	0	0	0	0	0	0	0	9	40	0	0	49	0	17	0	17	0	34	0	0	57	4	0	61	144
11:00 PM	0	0	0	0	0	0	0	2	8	0	0	10	0	5	0	4	0	9	0	0	7	1	0	8	27
11:15 PM	0	0	0	0	0	0	0	1	7	0	0	8	0	1	0	4	0	5	0	0	6	0	0	6	19
11:30 PM	0	1	0	2	0	3	0	1	7	0	0	8	0	2	0	3	0	5	0	1	10	2	0	13	29
11:45 PM	0	0	0	0	0	0	0	3	8	0	0	11	0	1	0	1	0	2	0	0	3	0	0	3	16
Hourly Total	0	1	0	2	0	3	0	7	30	0	0	37	0	9	0	12	0	21	0	1	26	3	0	30	91
<b>DAILY TOTAL</b>	<b>0</b>	<b>54</b>	<b>41</b>	<b>427</b>	<b>0</b>	<b>522</b>	<b>1</b>	<b>1171</b>	<b>3978</b>	<b>71</b>	<b>11</b>	<b>5221</b>	<b>2</b>	<b>1383</b>	<b>38</b>	<b>1359</b>	<b>3</b>	<b>2782</b>	<b>14</b>	<b>416</b>	<b>2955</b>	<b>1293</b>	<b>21</b>	<b>4678</b>	<b>13203</b>
<b>Cars</b>	0	54	40	422	0	516	1	1171	3881	70	6	5123	2	1367	38	1356	2	2763	12	410	2884	1280	4	4566	12988
<b>Heavy Vehicles</b>	0	0	1	5	0	6	0	0	97	1	5	98	0	16	0	3	1	19	2	6	71	13	17	92	215
<b>Heavy Vehicle %</b>	0.00%	0.00%	2.44%	1.17%	0.00%	1.15%	0.00%	0.00%	2.44%	1.41%	45.45%	1.88%	0.00%	1.16%	0.00%	0.22%	33.33%	0.68%	14.29%	1.44%	2.40%	1.01%	80.95%	1.97%	1.63%

**TMC 2458 - CSAH 12 @ Pheasant Ridge Dr  
Blaine MN  
Thursday, July 18, 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	
11:00 AM	0	1	2	5	0	8	0	27	70	1	0	98	0	18	0	25	0	43	0	2	44	30	1	76	225
11:15 AM	0	3	4	8	0	15	0	27	55	1	0	83	0	21	4	20	0	45	0	3	35	28	0	66	209
11:30 AM	0	3	1	7	0	11	0	32	62	1	0	95	0	23	3	25	0	51	0	3	34	18	0	55	212
11:45 AM	0	4	4	5	0	13	0	31	58	0	0	89	0	24	3	22	0	49	0	2	44	33	0	79	230
Peak Hour Total PHF	0.000	0.688	0.688	0.781	0.000	0.783	0.000	0.914	0.875	0.750	0.000	0.931	0.000	0.896	0.625	0.920	0.000	0.922	0.000	0.833	0.892	0.826	0.250	0.873	0.952

**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	2	3	21	0	26	0	17	105	0	0	122	0	29	0	39	0	68	1	0	60	29	1	90	306
4:45 PM	0	1	1	20	0	22	0	35	98	0	2	133	1	38	0	33	0	72	1	1	70	27	2	99	326
5:00 PM	0	1	0	16	0	17	0	40	98	0	0	138	0	35	0	27	0	62	0	1	63	31	0	95	312
5:15 PM	0	4	1	10	0	15	0	32	79	0	0	111	0	39	0	40	0	79	0	0	91	21	1	112	317
Peak Hour Total PHF	0.000	0.500	0.417	0.798	0.000	0.769	0.000	0.775	0.905	0.000	0.250	0.913	0.250	0.904	0.000	0.869	0.000	0.889	0.500	0.500	0.780	0.871	0.500	0.884	0.967

Total Vehicles On Leg				1047			
Vehicles Entering Intersection				522			
Vehicles Exiting Intersection				525			
<b>Southbound</b>							
Cars	422	40	54	0	0	0	0
Heavy	5	1	0	0	0	0	0
<b>Total</b>	<b>427</b>	<b>41</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Total Vehicles on Leg 10480	Eastbound	Vehicles Entering Intersection	4	17	21
		Vehicles Exiting Intersection	12	2	14
			410	6	416
			2884	71	2955
			1280	13	1293

Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg 9590
70	1	71			
3881	97	3978			
1171	0	1171			
1	0	1		Vehicles Exiting Intersection	
6	5	11		4369	

Cars	2	2	1367	38	1366
Heavy	1	0	16	0	3
<b>Total</b>	<b>3</b>	<b>2</b>	<b>1383</b>	<b>38</b>	<b>1359</b>
<b>Northbound</b>					
Vehicles Entering Intersection			2782		
Vehicles Exiting Intersection			2507		
Total Vehicles On Leg			5289		





# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2458

Study Date : 07/22/2024

## Signal Warrants - Summary

### Major Street Approaches

Eastbound: CSAH 12

Number of Lanes : 2+

Total Approach Volume: 4,678

Westbound: CSAH 12

Number of Lanes : 2+

Total Approach Volume: 5,221

### Minor Street Approaches

Northbound: Pheasant Ridge Dr

Number of Lanes : 1

Total Approach Volume: 1,423

Southbound: Private Dr

Number of Lanes : 1

Total Approach Volume: 522

### Warrant Summary (Rural Values Apply)

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

Warrant 1A - Minimum Vehicular Volume.....Not Satisfied

Required volumes reached for 7 hours, 8 are needed

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

Required volumes reached for 7 hours, 8 are needed

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

Required 1A volumes reached for 9 hours, 8 are needed

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

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

Number of hours (6) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (22) 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 2458

Study Date : 07/22/2024

## 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

Only 7 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 EB	+	Major WB	=		Minor NB	Minor SB	
	<b>CSAH 12</b>					<b>Pheasant Ridge Dr</b>		
16:30 - 17:30	396	+	504	=	900	142	80	Yes
15:30 - 16:30	387	+	444	=	831	120	119	Yes
17:30 - 18:30	323	+	392	=	715	124	23	Yes
14:30 - 15:30	331	+	378	=	709	135	86	Yes
11:30 - 12:30	312	+	354	=	666	106	48	Yes
12:30 - 13:30	294	+	341	=	635	119	36	Yes
13:30 - 14:30	301	+	306	=	607	133	66	Yes
07:30 - 08:30	318	+	346	=	664	41	5	No
07:45 - 08:45	339	+	322	=	661	43	7	No
11:15 - 12:15	299	+	350	=	649	104	53	No
11:00 - 12:00	276	+	365	=	641	96	47	No
08:00 - 09:00	328	+	303	=	631	48	6	No
08:15 - 09:15	321	+	307	=	628	50	4	No
10:45 - 11:45	281	+	347	=	628	84	38	No
07:15 - 08:15	273	+	341	=	614	37	5	No
10:30 - 11:30	289	+	313	=	602	80	27	No
10:15 - 11:15	288	+	302	=	590	68	14	No
10:00 - 11:00	289	+	286	=	575	78	7	No
09:30 - 10:30	269	+	305	=	574	77	5	No
07:00 - 08:00	258	+	314	=	572	34	2	No
08:30 - 09:30	267	+	299	=	566	49	10	No
09:45 - 10:45	272	+	291	=	563	78	3	No
09:15 - 10:15	254	+	305	=	559	76	9	No
08:45 - 09:45	250	+	301	=	551	58	10	No
09:00 - 10:00	241		300		541	61	9	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2458

Study Date : 07/22/2024

## 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

Only 7 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 EB	+	Major WB	=		Minor NB	Minor SB	
16:45 - 17:45	401	+	480	=	881	149	65	Yes
15:45 - 16:45	374	+	466	=	840	125	104	Yes
14:45 - 15:45	356	+	372	=	728	133	110	Yes
12:00 - 13:00	326	+	353	=	679	121	44	Yes
17:45 - 18:45	287	+	360	=	647	103	14	Yes
11:00 - 12:00	276	+	365	=	641	96	47	Yes
13:45 - 14:45	306	+	328	=	634	124	78	Yes
07:30 - 08:30	318	+	346	=	664	41	5	No
07:45 - 08:45	339	+	322	=	661	43	7	No
08:00 - 09:00	328	+	303	=	631	48	6	No
08:15 - 09:15	321	+	307	=	628	50	4	No
10:45 - 11:45	281	+	347	=	628	84	38	No
13:00 - 14:00	295	+	322	=	617	113	30	No
07:15 - 08:15	273	+	341	=	614	37	5	No
13:30 - 14:30	301	+	306	=	607	133	66	No
13:15 - 14:15	286	+	318	=	604	112	66	No
10:30 - 11:30	289	+	313	=	602	80	27	No
10:15 - 11:15	288	+	302	=	590	68	14	No
10:00 - 11:00	289	+	286	=	575	78	7	No
09:30 - 10:30	269	+	305	=	574	77	5	No
07:00 - 08:00	258	+	314	=	572	34	2	No
08:30 - 09:30	267	+	299	=	566	49	10	No
09:45 - 10:45	272	+	291	=	563	78	3	No
09:15 - 10:15	254	+	305	=	559	76	9	No
08:45 - 09:45	250		301		551	58	10	No

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2458

Study Date : 07/22/2024

## 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

9 hours meet 1A minimums.  
12 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 = **1**

#### Volume Requirements

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

Veh/Hr Minor = **84 42**

#### Major Road CSAH 12

#### Minor Road Pheasant Ridge Dr

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:45 - 17:45	401	+	480	=	881	149	65	Yes
15:45 - 16:45	374	+	466	=	840	125	104	Yes
14:45 - 15:45	356	+	372	=	728	133	110	Yes
11:45 - 12:45	332	+	345	=	677	125	45	Yes
17:45 - 18:45	287	+	360	=	647	103	14	Yes
13:45 - 14:45	306	+	328	=	634	124	78	Yes
12:45 - 13:45	292	+	339	=	631	109	33	Yes
10:45 - 11:45	281	+	347	=	628	84	38	Yes
19:45 - 20:45	227	+	184	=	411	92	0	Yes
07:30 - 08:30	318	+	346	=	664	41	5	No
07:45 - 08:45	339	+	322	=	661	43	7	No
08:00 - 09:00	328	+	303	=	631	48	6	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:45 - 17:45	401	+	480	=	881	149	65	Yes
15:45 - 16:45	374	+	466	=	840	125	104	Yes
14:45 - 15:45	356	+	372	=	728	133	110	Yes
11:45 - 12:45	332	+	345	=	677	125	45	Yes
07:45 - 08:45	339	+	322	=	661	43	7	Yes
17:45 - 18:45	287	+	360	=	647	103	14	Yes
13:45 - 14:45	306	+	328	=	634	124	78	Yes
12:45 - 13:45	292	+	339	=	631	109	33	Yes
10:45 - 11:45	281	+	347	=	628	84	38	Yes
09:45 - 10:45	272	+	291	=	563	78	3	Yes
08:45 - 09:45	250	+	301	=	551	58	10	Yes
18:45 - 19:45	263	+	251	=	514	76	5	Yes

# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2458

Study Date : 07/22/2024

## 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.

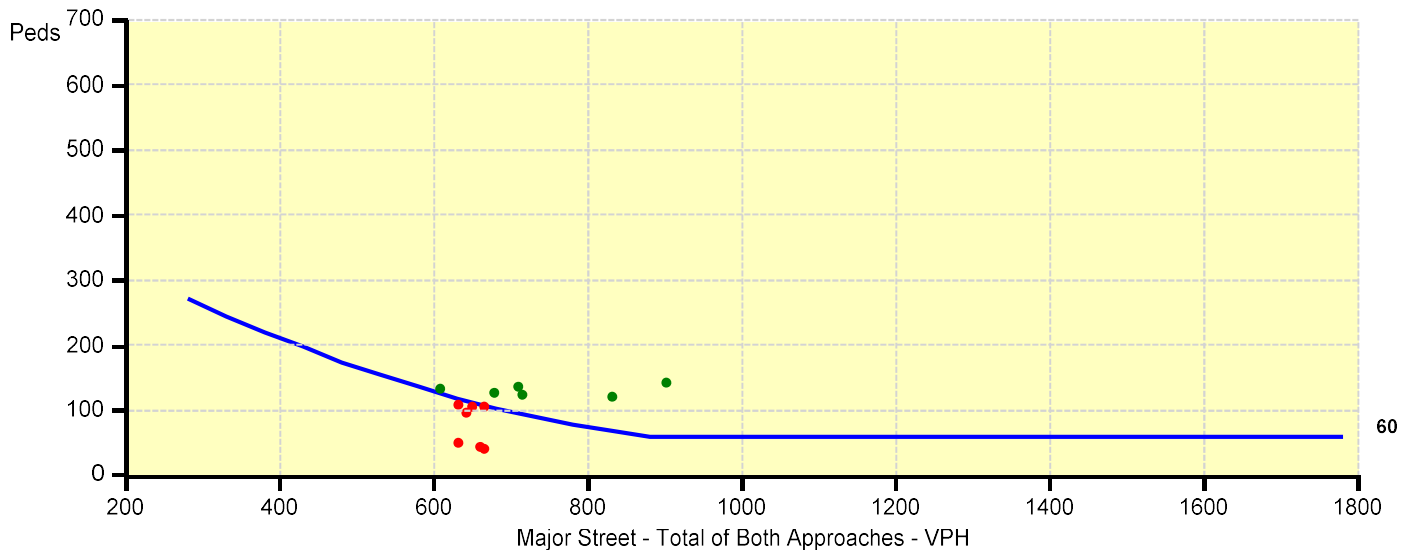
#### Summary

6 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 12				Total	Minor Road Pheasant Ridge Dr		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:30 - 17:30	396	+	504	=	900	142	80	Yes
15:30 - 16:30	387	+	444	=	831	120	119	Yes
17:30 - 18:30	323	+	392	=	715	124	23	Yes
14:30 - 15:30	331	+	378	=	709	135	86	Yes
11:45 - 12:45	332	+	345	=	677	125	45	Yes
13:30 - 14:30	301	+	306	=	607	133	66	Yes
11:30 - 12:30	312	+	354	=	666	106	48	No
07:30 - 08:30	318	+	346	=	664	41	5	No
07:45 - 08:45	339	+	322	=	661	43	7	No
11:15 - 12:15	299	+	350	=	649	104	53	No
11:00 - 12:00	276	+	365	=	641	96	47	No
08:00 - 09:00	328	+	303	=	631	48	6	No



# ANOKA COUNTY HIGHWAY

## PC - WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2458

Study Date : 07/22/2024

## 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

2 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 12				Total	Minor Road Pheasant Ridge Dr		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:30 - 17:30	396	+	504	=	900	142	80	Yes
16:45 - 17:45	401	+	480	=	881	149	65	Yes
16:15 - 17:15	382	+	503	=	885	130	90	No
16:00 - 17:00	390	+	476	=	866	131	102	No
15:45 - 16:45	374	+	466	=	840	125	104	No
15:30 - 16:30	387	+	444	=	831	120	119	No
17:00 - 18:00	378	+	439	=	817	142	47	No
15:15 - 16:15	385	+	431	=	816	128	124	No
15:00 - 16:00	363	+	422	=	785	129	117	No
17:15 - 18:15	364	+	403	=	767	137	36	No
14:45 - 15:45	356	+	372	=	728	133	110	No
17:30 - 18:30	323	+	392	=	715	124	23	No

