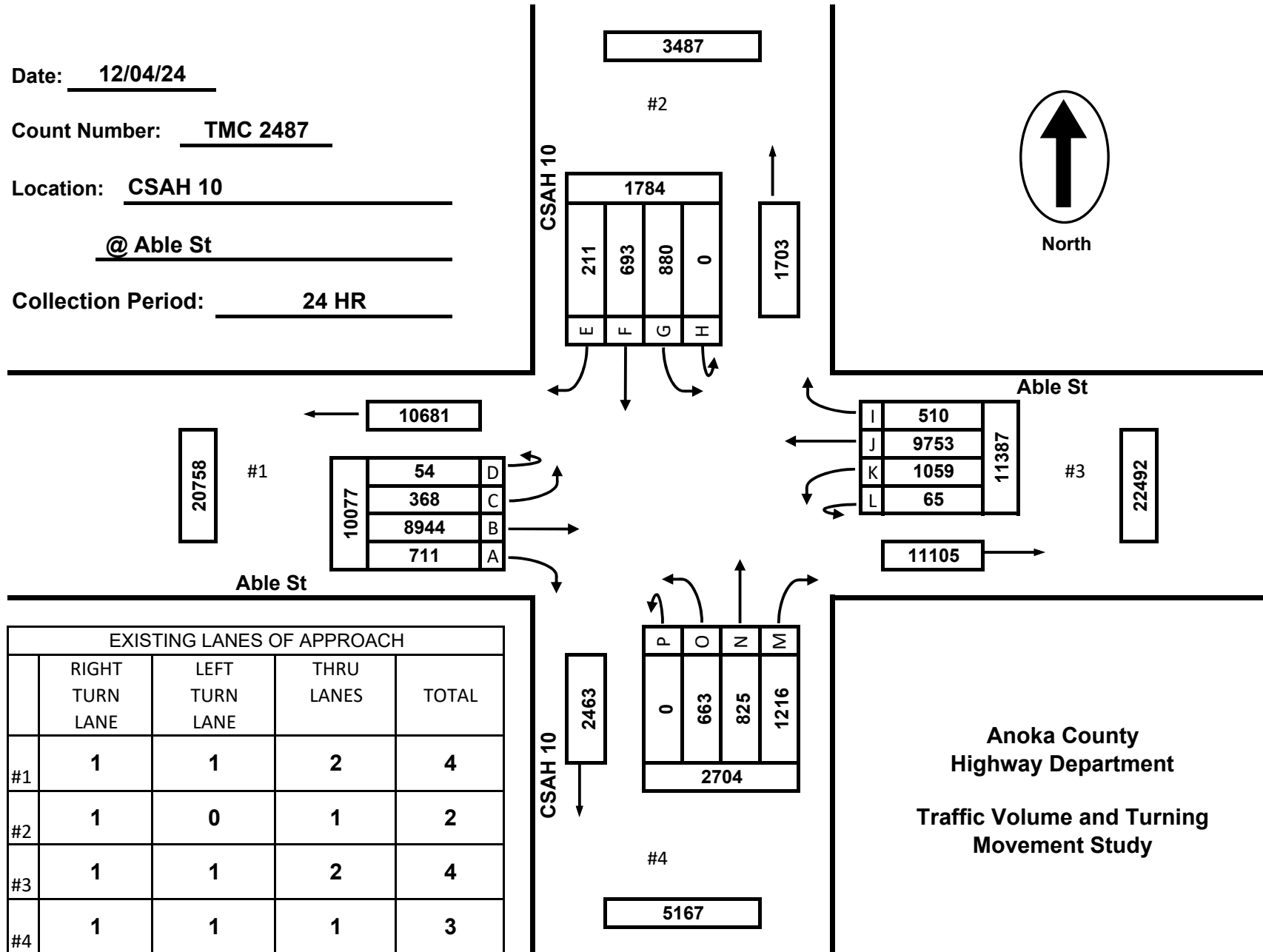
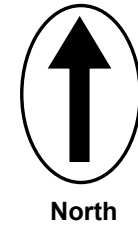


Date: 12/04/24

Count Number: TMC 2487

Location: CSAH 10
@ Able St

Collection Period: 24 HR



Able St

Able St

CSAH 10

CSAH 10

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

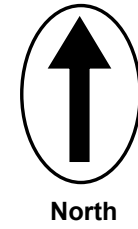
Date: 12/04/24

Count Number: TMC 2487

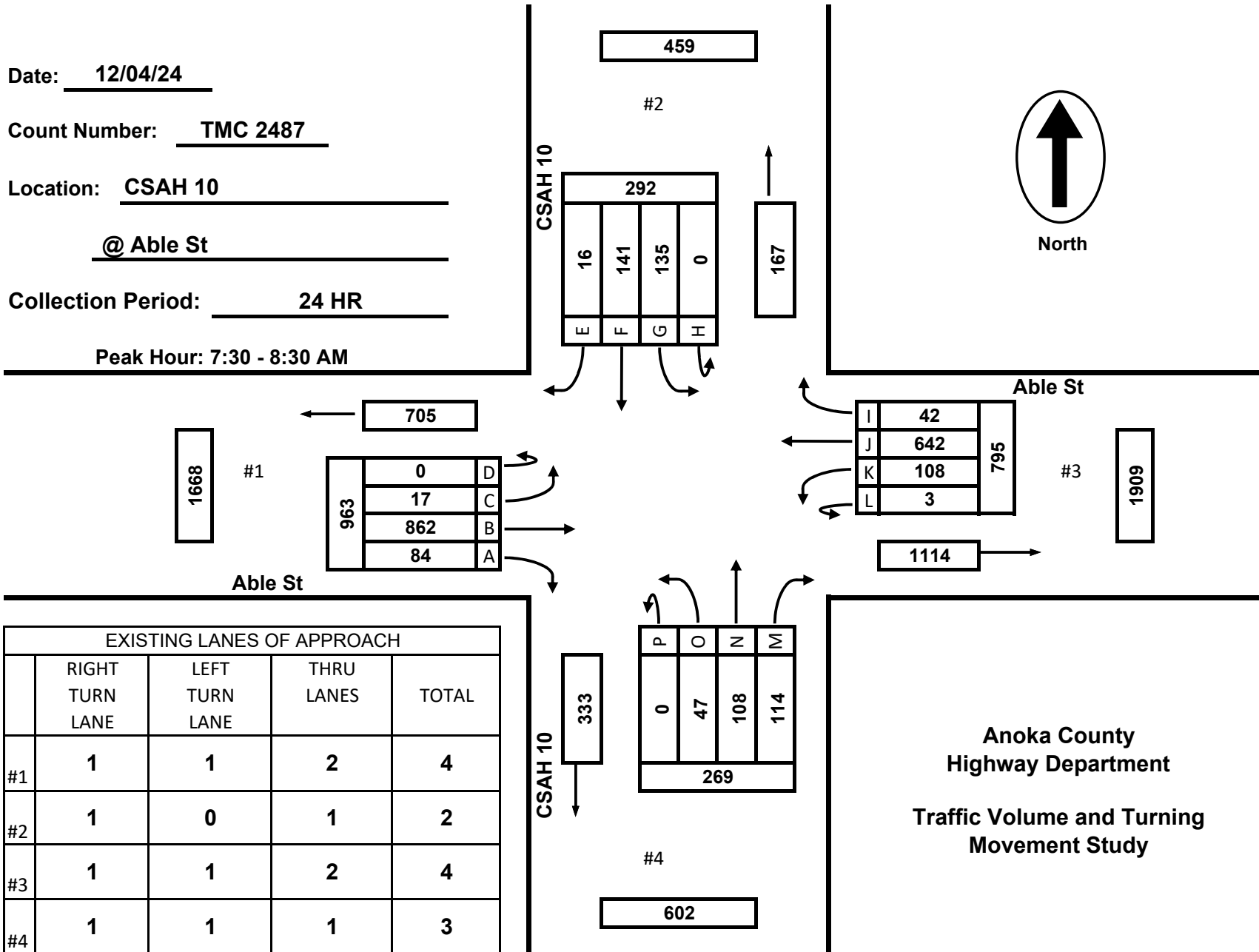
Location: CSAH 10
@ Able St

Collection Period: 24 HR

Peak Hour: 7:30 - 8:30 AM



North



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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

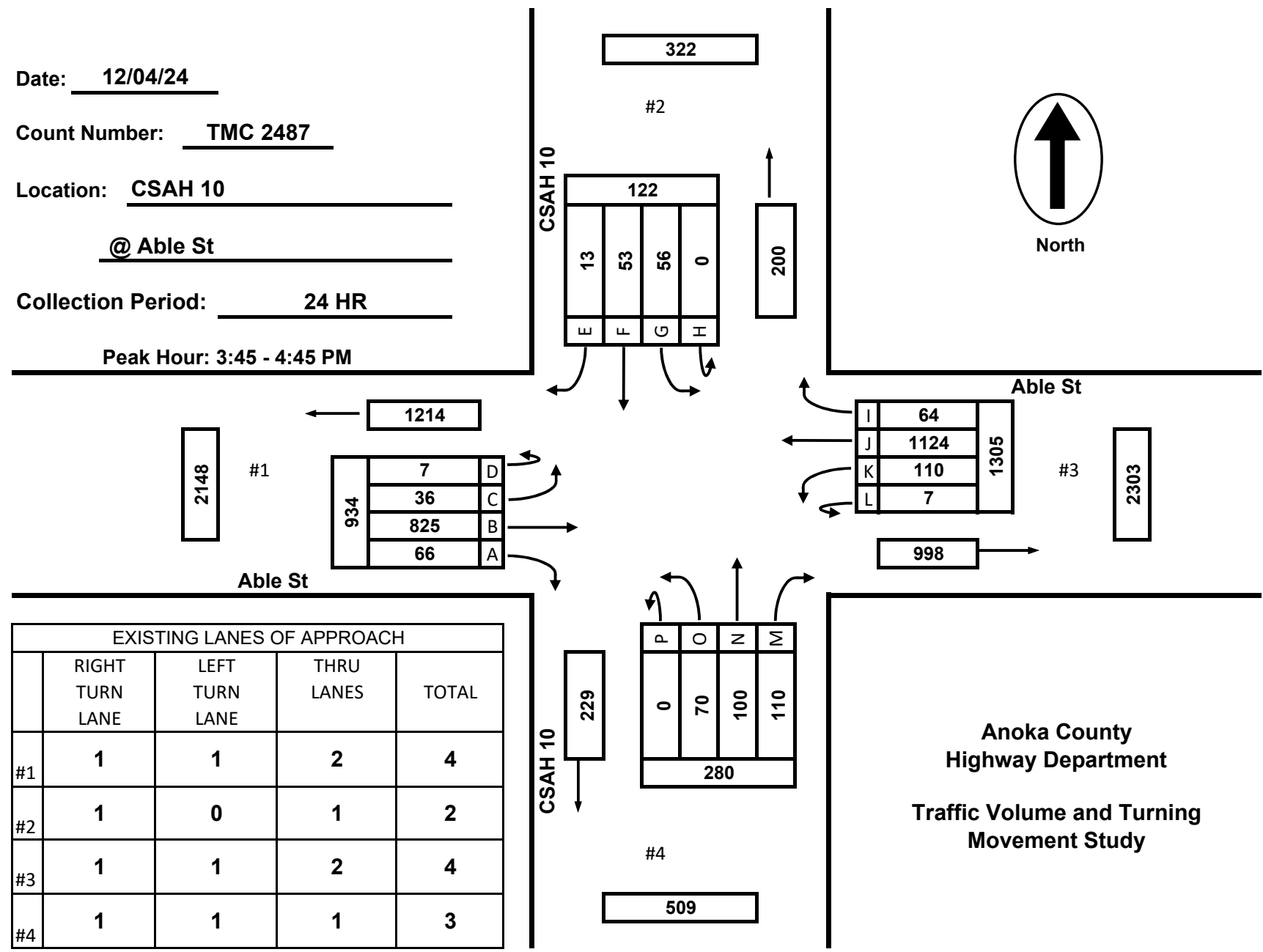
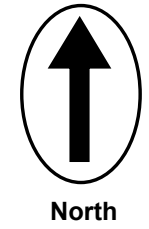
Date: 12/04/24

Count Number: TMC 2487

Location: CSAH 10
@ Able St

Collection Period: 24 HR

Peak Hour: 3:45 - 4:45 PM



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

322

#2

122			
13	53	56	0
E	F	G	H

200

2148

#1

1214

934	7	D
	36	C
	825	B
	66	A

Able St

I	64	1305
J	1124	
K	110	
L	7	

#3

2303

998

P	O	N	M
0	70	100	110
280			

#4

509

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

**TMC 2487 - CSAH 10 @ Able St
Blaine MN
Wednesday, December 4, 2024**

Time	Southbound Able St						Westbound CSAH 10						Northbound Able St						Eastbound CSAH 10						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	1	0	0	0	1	0	2	13	1	0	16	0	1	0	1	0	2	0	0	18	1	0	19	38
12:15 AM	0	0	0	0	0	0	0	2	10	0	0	12	0	0	0	1	0	1	0	1	6	2	0	9	22
12:30 AM	0	0	0	1	0	1	0	0	10	0	0	10	0	0	0	2	0	2	0	0	17	0	0	18	31
12:45 AM	0	1	0	0	0	1	0	3	12	1	0	16	0	3	0	3	0	6	0	0	8	0	0	8	31
Hourly Total	0	2	0	1	0	3	0	7	45	2	0	54	0	4	0	7	0	11	0	2	49	3	0	54	122
1:00 AM	0	0	0	0	0	0	0	1	13	0	0	14	0	0	0	2	0	2	0	2	5	0	0	7	23
1:15 AM	0	0	0	0	0	0	0	4	7	1	0	12	0	0	1	0	0	1	0	0	12	1	0	13	26
1:30 AM	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	2	0	2	0	0	18	1	0	19	24
1:45 AM	0	0	0	0	0	0	0	1	6	1	0	8	0	0	0	0	0	0	0	0	2	0	0	2	10
Hourly Total	0	0	0	0	0	0	0	6	29	2	0	37	0	0	1	4	0	5	0	2	37	2	0	41	83
2:00 AM	0	0	0	0	0	0	0	0	6	0	0	6	0	0	2	0	0	2	0	0	24	1	0	25	33
2:15 AM	0	0	0	0	0	0	0	3	8	1	0	12	0	0	0	0	0	0	0	0	7	0	0	7	19
2:30 AM	0	0	0	0	0	0	0	1	3	0	0	4	0	2	0	1	0	3	0	1	8	1	0	10	17
2:45 AM	0	1	0	0	0	1	0	1	8	1	0	10	0	0	0	1	0	1	0	0	7	0	0	7	19
Hourly Total	0	1	0	0	0	1	0	5	25	2	0	32	0	2	2	2	0	6	0	1	46	2	0	49	88
3:00 AM	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	3	0	3	0	1	10	0	0	11	23
3:15 AM	0	1	0	0	0	1	0	2	9	0	0	11	0	1	1	1	0	3	0	0	10	1	0	11	26
3:30 AM	0	0	1	1	0	2	0	0	9	0	0	9	0	1	0	1	0	2	0	0	28	0	0	28	41
3:45 AM	0	0	0	0	0	0	0	1	10	0	0	11	0	1	0	3	0	4	0	1	12	0	0	13	28
Hourly Total	0	1	1	1	0	3	0	3	37	0	0	40	0	3	1	8	0	12	0	2	60	1	0	63	118
4:00 AM	0	3	0	0	0	3	0	1	19	0	0	20	0	0	0	3	0	3	0	0	15	1	0	16	42
4:15 AM	0	5	1	0	0	6	0	1	25	0	0	26	0	1	1	0	0	2	0	0	20	1	0	21	55
4:30 AM	0	1	0	0	0	1	0	1	32	0	0	33	0	0	1	4	1	5	0	1	23	0	0	24	63
4:45 AM	0	6	0	1	0	7	0	1	59	1	0	61	0	0	0	6	0	6	0	0	27	1	0	28	102
Hourly Total	0	15	1	1	0	17	0	4	135	1	0	140	0	1	2	13	1	16	0	1	85	3	0	89	262
5:00 AM	0	3	1	3	0	7	0	1	36	1	0	38	0	1	2	6	0	9	0	0	28	0	0	28	82
5:15 AM	0	9	3	2	0	14	0	2	52	0	0	54	0	1	1	15	0	17	0	0	34	1	0	35	120
5:30 AM	0	11	2	5	0	18	0	1	62	0	0	63	0	1	0	14	0	15	0	0	40	4	0	44	140
5:45 AM	0	7	4	4	0	15	0	2	78	1	0	81	0	5	2	16	0	23	0	0	64	4	0	68	187
Hourly Total	0	30	10	14	0	54	0	6	228	2	0	236	0	8	5	51	0	64	0	0	166	9	0	175	529
6:00 AM	0	11	2	2	0	15	3	6	51	1	0	61	0	8	0	11	0	19	0	3	79	3	0	85	180
6:15 AM	0	17	7	2	0	26	0	6	83	1	0	90	0	4	1	30	0	35	0	1	85	6	0	92	243
6:30 AM	0	20	8	4	0	32	0	5	92	2	0	99	0	7	2	26	0	35	0	0	116	3	0	119	285
6:45 AM	0	14	17	1	0	32	2	11	123	2	0	138	0	6	6	20	0	32	0	1	138	2	0	141	343
Hourly Total	0	62	34	9	0	105	5	28	349	6	0	388	0	25	9	87	0	121	0	5	418	14	0	437	1051
7:00 AM	0	29	7	2	0	38	1	8	121	13	0	143	0	13	7	27	0	47	0	0	163	11	0	174	402
7:15 AM	0	33	11	3	0	47	3	11	146	12	0	172	0	9	16	29	0	54	0	3	199	9	0	211	484
7:30 AM	0	41	38	0	0	79	0	12	161	13	0	186	0	10	17	30	0	57	0	3	303	16	0	322	644
7:45 AM	0	35	55	2	0	92	0	36	155	7	0	198	0	15	28	32	0	75	0	4	232	35	0	271	636
Hourly Total	0	138	111	7	0	256	4	67	583	45	0	699	0	47	68	118	0	233	0	10	897	71	0	978	2166

**TMC 2487 - CSAH 10 @ Able St
Blaine MN
Wednesday, December 4, 2024**

Time	Southbound Able St						Westbound CSAH 10						Northbound Able St						Eastbound CSAH 10						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	26	8	0	53	2	44	156	7	0	209	0	16	35	34	0	85	0	2	181	19	0	202	549
8:15 AM	0	40	22	6	0	68	1	16	170	15	0	202	0	6	28	18	0	52	0	8	146	14	1	168	490
8:30 AM	0	34	32	6	0	72	0	12	140	7	0	159	0	5	7	20	0	32	0	2	157	11	0	170	433
8:45 AM	0	20	14	0	0	34	0	15	168	4	0	187	0	7	12	4	0	23	0	3	162	14	0	179	423
Hourly Total	0	113	94	20	0	227	3	87	634	33	0	757	0	34	82	76	0	192	0	15	646	58	1	719	1895
9:00 AM	0	16	8	2	0	26	0	22	155	8	0	185	0	19	7	0	0	26	0	4	110	11	0	125	362
9:15 AM	0	12	7	5	0	24	1	13	141	4	0	159	0	13	14	14	0	41	0	3	117	13	0	133	357
9:30 AM	0	11	9	3	0	23	1	8	152	11	0	172	0	8	8	17	0	33	0	5	119	11	0	135	363
9:45 AM	0	8	10	3	0	21	3	14	157	5	0	179	0	11	11	21	0	43	1	12	132	16	0	161	404
Hourly Total	0	47	34	13	0	94	5	57	605	28	0	695	0	51	40	52	0	143	1	24	478	51	0	554	1486
10:00 AM	0	13	7	5	0	25	2	12	130	9	0	153	0	12	7	15	0	34	2	4	128	16	0	150	362
10:15 AM	0	14	7	4	0	25	0	12	135	1	0	148	0	7	6	30	0	43	1	8	125	2	0	136	352
10:30 AM	0	11	9	8	0	28	2	10	120	5	0	137	0	8	7	15	0	30	2	7	112	10	0	131	326
10:45 AM	0	12	5	6	0	23	2	10	120	7	0	139	0	10	9	15	0	34	0	3	121	15	0	139	335
Hourly Total	0	50	28	23	0	101	6	44	505	22	0	577	0	37	29	75	0	141	5	22	486	43	0	556	1375
11:00 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
11:15 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
11:30 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
11:45 AM	0	9	2	0	0	11	0	4	61	1	0	66	0	0	0	0	0	0	0	0	0	0	0	0	77
Hourly Total	0	9	2	0	0	11	0	4	61	1	0	66	0	0	0	0	0	0	0	0	0	0	0	0	77
12:00 PM	0	17	6	1	0	24	0	8	141	10	0	159	0	14	12	8	0	34	0	7	137	7	0	151	368
12:15 PM	0	9	3	7	0	19	2	8	153	11	0	174	0	8	9	19	0	36	2	5	132	12	0	151	380
12:30 PM	0	13	9	4	0	26	4	16	176	8	0	204	0	9	12	14	0	35	0	5	171	15	0	191	456
12:45 PM	0	11	10	2	0	23	0	18	152	9	0	179	0	13	15	16	0	44	0	5	125	18	0	148	394
Hourly Total	0	50	28	14	0	92	6	50	622	38	0	716	0	44	48	57	0	149	2	22	565	52	0	641	1598
1:00 PM	0	12	11	6	0	29	2	20	137	7	0	166	0	8	14	16	0	38	2	8	126	21	0	157	390
1:15 PM	0	5	6	8	0	19	0	16	138	5	0	159	0	12	14	25	0	51	0	8	141	8	0	157	386
1:30 PM	0	10	8	6	0	24	2	21	159	7	0	189	0	5	7	21	0	33	1	7	124	8	0	140	386
1:45 PM	0	6	8	6	0	20	1	23	141	4	0	169	0	10	12	22	0	44	2	10	169	15	0	196	429
Hourly Total	0	33	33	26	0	92	5	80	575	23	0	683	0	35	47	84	0	166	5	33	560	52	0	650	1591
2:00 PM	0	11	9	3	0	23	0	20	156	10	0	186	0	11	13	17	0	41	2	8	157	17	1	184	434
2:15 PM	0	14	4	3	0	21	1	17	195	14	0	227	0	12	23	19	1	54	1	8	164	17	0	190	492
2:30 PM	0	16	25	3	0	44	2	31	218	16	0	267	0	21	11	17	0	49	2	7	185	12	0	206	566
2:45 PM	0	6	28	9	0	43	0	19	215	18	0	252	0	10	19	27	0	56	0	14	176	25	1	215	566
Hourly Total	0	47	66	18	0	131	3	87	784	58	0	932	0	54	66	80	1	200	5	37	682	71	2	795	2058
3:00 PM	0	13	11	1	0	25	0	19	241	15	0	275	0	31	73	49	0	153	0	9	158	8	1	175	628
3:15 PM	0	21	31	4	0	56	3	26	201	10	0	240	0	21	31	26	1	78	2	20	181	9	0	212	586
3:30 PM	0	16	18	2	0	36	0	22	271	11	0	304	0	15	15	30	0	60	3	12	200	22	1	237	637
3:45 PM	0	13	16	5	0	34	0	38	278	13	0	329	0	24	28	19	0	71	2	11	201	16	0	230	664
Hourly Total	0	63	76	12	0	151	3	105	991	49	0	1148	0	91	147	124	1	362	7	52	740	55	2	854	2515

**TMC 2487 - CSAH 10 @ Able St
Blaine MN
Wednesday, December 4, 2024**

Time	Southbound Able St						Westbound CSAH 10						Northbound Able St						Eastbound CSAH 10						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	12	8	4	0	24	2	19	258	12	1	291	0	13	31	23	1	67	2	13	214	21	0	250	632
4:15 PM	0	16	8	2	0	26	2	26	276	20	0	324	0	15	29	44	0	88	1	7	191	15	0	214	652
4:30 PM	0	15	21	2	0	38	3	27	312	19	0	361	0	18	12	24	0	54	2	5	219	14	0	240	693
4:45 PM	0	13	18	6	0	37	0	38	278	14	0	330	0	15	20	20	0	55	1	10	203	11	0	225	647
Hourly Total	0	56	55	14	0	125	7	110	1124	65	1	1306	0	61	92	111	1	264	6	35	827	61	0	929	2624
5:00 PM	0	15	13	3	0	31	4	36	241	10	0	291	0	13	14	21	0	48	1	13	159	5	0	178	548
5:15 PM	0	15	8	3	0	26	2	29	287	13	0	331	0	15	17	21	0	53	0	6	206	10	0	222	632
5:30 PM	0	10	14	0	0	24	0	28	213	10	0	251	0	11	12	26	0	49	1	9	145	7	0	162	486
5:45 PM	0	16	11	5	0	32	1	19	191	6	0	217	0	15	12	11	0	38	2	10	144	13	0	169	456
Hourly Total	0	56	46	11	0	113	7	112	932	39	0	1090	0	54	55	79	0	188	4	38	654	35	0	731	2122
6:00 PM	0	16	11	5	0	32	0	20	163	9	0	192	0	7	8	14	0	29	0	8	115	11	0	134	387
6:15 PM	0	12	6	1	0	19	2	21	126	7	0	156	0	9	16	21	0	46	1	5	120	11	0	137	358
6:30 PM	0	7	9	1	0	17	0	10	124	7	0	141	0	11	7	12	0	30	3	4	115	15	0	137	325
6:45 PM	0	4	10	1	0	15	0	5	104	7	0	116	0	14	8	18	0	40	0	4	112	5	0	121	292
Hourly Total	0	39	36	8	0	83	2	56	517	30	0	605	0	41	39	65	0	145	4	21	462	42	0	529	1362
7:00 PM	0	9	5	1	0	15	1	7	99	2	0	109	0	9	8	9	0	26	0	8	95	10	0	113	263
7:15 PM	0	10	1	4	0	15	0	11	96	6	0	113	0	7	5	9	0	21	1	6	107	6	0	120	269
7:30 PM	0	4	4	1	0	9	0	14	79	8	0	101	0	4	3	9	0	16	3	5	80	3	0	91	217
7:45 PM	0	5	0	3	0	8	0	6	59	1	0	66	0	2	6	12	0	20	5	5	97	7	0	114	208
Hourly Total	0	28	10	9	0	47	1	38	333	17	0	389	0	22	22	39	0	83	9	24	379	26	0	438	957
8:00 PM	0	4	3	2	0	9	2	16	68	7	0	93	0	14	8	3	0	25	1	1	93	4	0	99	226
8:15 PM	0	6	4	1	0	11	0	7	91	5	0	103	0	3	4	14	0	21	1	3	76	9	0	89	224
8:30 PM	0	3	2	1	0	6	1	5	64	2	0	72	0	4	12	5	0	21	0	2	62	9	0	73	172
8:45 PM	0	2	2	0	0	4	0	5	56	4	0	65	0	4	9	11	0	24	1	3	54	8	0	66	159
Hourly Total	0	15	11	4	0	30	3	33	279	18	0	333	0	25	33	33	0	91	3	9	285	30	0	327	781
9:00 PM	0	6	3	1	0	10	0	7	56	1	0	64	0	2	5	5	0	12	0	0	60	9	0	69	155
9:15 PM	0	2	5	0	0	7	0	5	40	3	0	48	0	7	14	6	0	27	1	1	67	3	0	72	154
9:30 PM	0	5	0	0	0	5	2	7	44	3	0	56	0	4	5	5	0	14	0	3	36	2	0	41	116
9:45 PM	0	1	3	2	0	6	2	5	32	4	0	43	0	2	2	7	0	11	0	2	41	3	0	46	106
Hourly Total	0	14	11	3	0	28	4	24	172	11	0	211	0	15	26	23	0	64	1	6	204	17	0	228	531
10:00 PM	0	3	2	3	0	8	0	5	42	6	0	53	0	1	1	6	0	8	0	2	39	2	0	43	112
10:15 PM	0	1	1	0	0	2	0	4	46	0	0	50	0	1	1	6	0	8	0	2	34	3	0	39	99
10:30 PM	0	0	2	0	0	2	0	8	31	1	0	40	0	2	3	3	0	8	1	2	36	2	0	41	91
10:45 PM	0	3	1	0	0	4	1	4	22	1	0	28	0	0	2	4	0	6	1	0	21	3	0	25	63
Hourly Total	0	7	6	3	0	16	1	21	141	8	0	171	0	4	7	19	0	30	2	6	130	10	0	148	365
11:00 PM	0	1	0	0	0	1	0	10	14	5	0	29	0	2	0	3	0	5	0	1	32	2	0	35	70
11:15 PM	0	1	0	0	0	1	0	5	11	2	0	18	0	1	1	3	0	5	0	0	19	0	0	19	43
11:30 PM	0	0	0	0	0	0	0	7	12	1	0	20	0	1	2	2	0	5	0	0	14	0	0	14	39
11:45 PM	0	2	0	0	0	2	0	3	10	2	0	15	0	1	1	1	0	3	0	0	23	1	0	24	44
Hourly Total	0	4	0	0	0	4	0	25	47	10	0	82	0	5	4	9	0	18	0	1	88	3	0	92	196
DAILY TOTAL	0	880	693	211	0	1784	65	1059	9753	510	1	11387	0	663	825	1216	4	2704	54	368	8944	711	5	10077	25952
Cars	0	870	664	205	0	1739	65	1035	9486	502	1	11088	0	647	796	1194	4	2637	54	363	8665	697	4	9779	25243
Heavy Vehicles	0	10	29	6	0	45	0	24	267	8	0	299	0	16	29	22	0	67	0	5	279	14	1	298	709
Heavy Vehicle %	0.00%	1.14%	4.18%	2.84%	0.00%	2.52%	0.00%	2.27%	2.74%	1.57%	0.00%	2.63%	0.00%	2.41%	3.52%	1.81%	0.00%	2.48%	0.00%	1.36%	3.12%	1.97%	20.00%	2.96%	2.73%

**TMC 2487 - CSAH 10 @ Able St
Blaine MN
Wednesday, December 4, 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	
7:30 AM	0	41	38	0	0	79	0	12	161	13	0	186	0	10	17	30	0	57	0	3	303	16	0	322	644
7:45 AM	0	35	55	2	0	92	0	36	155	7	0	198	0	15	28	32	0	75	0	4	232	35	0	271	636
8:00 AM	0	19	26	8	0	53	2	44	156	7	0	209	0	16	35	34	0	85	0	2	181	19	0	202	549
8:15 AM	0	40	22	6	0	68	1	16	170	15	0	202	0	6	28	18	0	52	0	8	146	14	1	168	490
Peak Hour Total	0	135	141	16	0	292	3	108	642	42	0	795	0	47	108	114	0	269	0	17	862	84	1	963	2319
PHF	0.000	0.823	0.641	0.500	0.000	0.793	0.375	0.614	0.944	0.700	0.000	0.951	0.000	0.734	0.771	0.838	0.000	0.791	0.000	0.531	0.711	0.600	0.250	0.748	0.900

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	
3:45 PM	0	13	16	5	0	34	0	38	278	13	0	329	0	24	28	19	0	71	2	11	201	16	0	230	664
4:00 PM	0	12	8	4	0	24	2	19	258	12	1	291	0	13	31	23	1	67	2	13	214	21	0	250	632
4:15 PM	0	16	8	2	0	26	2	26	276	20	0	324	0	15	29	44	0	88	1	7	191	15	0	214	652
4:30 PM	0	15	21	2	0	38	3	27	312	19	0	361	0	18	12	24	0	54	2	5	219	14	0	240	693
Peak Hour Total	0	56	53	13	0	122	7	110	1124	64	1	1305	0	70	100	110	1	280	7	36	825	66	0	934	2641
PHF	0.000	0.875	0.631	0.650	0.000	0.803	0.583	0.724	0.901	0.800	0.250	0.904	0.000	0.729	0.806	0.625	0.250	0.795	0.875	0.692	0.942	0.786	0.000	0.934	0.953

Total Vehicles On Leg				3487	
Vehicles Entering Intersection		1784	Vehicles Exiting Intersection		1703
Southbound					
Cars	205	664	870	0	0
Heavy	6	29	10	0	0
Total	211	693	880	0	0

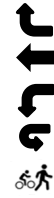


Total Vehicles on Leg 20758	Vehicles Entering Intersection 10077	Eastbound	Cars	Heavy	Total
			4	1	5
	54		0	54	
	363		5	368	
	Vehicles Exiting Intersection 10681		8665	279	8944
		697	14	711	



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 11387	Total Vehicles on Leg 22492
502	8	510			
9486	267	9753			
1035	24	1059			
65	0	65			
1	0	1		Vehicles Exiting Intersection 11105	



Cars	4	0	647	796	1194	
Heavy	0	0	16	29	22	
Total	4	0	663	825	1216	
Northbound						
Vehicles Entering Intersection			2704	Vehicles Exiting Intersection		2463
Total Vehicles On Leg			5167			



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2487

Study Date : 12/26/2024

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 10

Number of Lanes : 2+

Total Approach Volume: 10,077

Westbound: CSAH 10

Number of Lanes : 2+

Total Approach Volume: 11,387

Minor Street Approaches

Northbound: Able St

Number of Lanes : 1

Total Approach Volume: 1,488

Southbound: Able St

Number of Lanes : 1

Total Approach Volume: 1,573

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.....Satisfied

Required volumes reached for 14 hours, 8 are needed

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

Required 1A volumes reached for 10 hours, 8 are needed

Required 1B volumes reached for 15 hours, 8 are needed

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

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

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (25) 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 2487

Study Date : 12/26/2024

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	
15:45 - 16:45	934	+	1305	=	2239	170	109	Yes
16:45 - 17:45	787	+	1203	=	1990	117	106	Yes
14:45 - 15:45	839	+	1071	=	1910	215	144	Yes
07:15 - 08:15	1006	+	765	=	1771	146	258	Yes
13:45 - 14:45	776	+	849	=	1625	113	93	Yes
08:15 - 09:15	642	+	733	=	1375	91	186	Yes
06:15 - 07:15	526	+	470	=	996	46	119	Yes
13:30 - 14:30	710	+	771	=	1481	93	70	No
13:15 - 14:15	677	+	703	=	1380	84	63	No
12:15 - 13:15	647	+	723	=	1370	88	78	No
12:30 - 13:30	653	+	708	=	1361	97	77	No
12:00 - 13:00	641	+	716	=	1357	92	78	No
13:00 - 14:00	650	+	683	=	1333	82	66	No
12:45 - 13:45	602	+	693	=	1295	88	73	No
17:45 - 18:45	577	+	706	=	1283	85	88	No
09:15 - 10:15	579	+	663	=	1242	84	77	No
09:30 - 10:30	582	+	652	=	1234	70	79	No
09:45 - 10:45	578	+	617	=	1195	69	79	No
18:00 - 19:00	529	+	605	=	1134	80	75	No
10:00 - 11:00	556	+	577	=	1133	66	78	No
11:45 - 12:45	493	+	603	=	1096	64	68	No
18:15 - 19:15	508	+	522	=	1030	82	62	No
18:30 - 19:30	491	+	479	=	970	69	55	No
18:45 - 19:45	445	+	439	=	884	58	47	No
10:15 - 11:15	406		424		830	47	58	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2487

Study Date : 12/26/2024

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

14 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 CSAH 10				Total	Minor Road Able St		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	934	+	1305	=	2239	170	109	Yes
16:45 - 17:45	787	+	1203	=	1990	117	106	Yes
14:45 - 15:45	839	+	1071	=	1910	215	144	Yes
13:45 - 14:45	776	+	849	=	1625	113	93	Yes
07:45 - 08:45	811	+	768	=	1579	140	263	Yes
06:45 - 07:45	848	+	639	=	1487	84	190	Yes
12:45 - 13:45	602	+	693	=	1295	88	73	Yes
17:45 - 18:45	577	+	706	=	1283	85	88	Yes
08:45 - 09:45	572	+	703	=	1275	88	97	Yes
09:45 - 10:45	578	+	617	=	1195	69	79	Yes
11:45 - 12:45	493	+	603	=	1096	64	68	Yes
18:45 - 19:45	445	+	439	=	884	58	47	Yes
19:45 - 20:45	375	+	334	=	709	53	27	Yes
05:45 - 06:45	364	+	331	=	695	29	76	Yes
11:30 - 12:30	302	+	399	=	701	43	46	No
05:30 - 06:30	289	+	295	=	584	21	61	No
05:15 - 06:15	232	+	259	=	491	18	49	No
20:45 - 21:45	248	+	233	=	481	50	25	No
21:00 - 22:00	228	+	211	=	439	41	25	No
05:00 - 06:00	175	+	236	=	411	13	40	No
21:15 - 22:15	202	+	200	=	402	36	21	No
11:15 - 12:15	151	+	225	=	376	26	34	No
21:30 - 22:30	169	+	202	=	371	17	16	No
21:45 - 22:45	169	+	186	=	355	13	13	No
04:45 - 05:45	135		216		351	6	35	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2487

Study Date : 12/26/2024

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

10 hours meet 1A minimums.
15 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 10

Minor Road Able St

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:15 - 17:15	857	+	1306	=	2163	136	119	Yes
15:15 - 16:15	929	+	1164	=	2093	178	135	Yes
14:15 - 15:15	786	+	1021	=	1807	200	117	Yes
17:15 - 18:15	687	+	991	=	1678	97	101	Yes
07:00 - 08:00	978	+	699	=	1677	115	249	Yes
08:00 - 09:00	719	+	757	=	1476	116	207	Yes
13:15 - 14:15	677	+	703	=	1380	84	63	Yes
12:00 - 13:00	641	+	716	=	1357	92	78	Yes
09:00 - 10:00	554	+	695	=	1249	91	81	Yes
06:00 - 07:00	437	+	388	=	825	34	96	Yes
13:00 - 14:00	650	+	683	=	1333	82	66	No
10:00 - 11:00	556	+	577	=	1133	66	78	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
15:30 - 16:30	931	+	1248	=	2179	170	107	Yes
16:30 - 17:30	865	+	1313	=	2178	124	118	Yes
14:30 - 15:30	808	+	1034	=	1842	217	151	Yes
07:30 - 08:30	963	+	795	=	1758	155	276	Yes
13:30 - 14:30	710	+	771	=	1481	93	70	Yes
17:30 - 18:30	602	+	816	=	1418	90	96	Yes
12:30 - 13:30	653	+	708	=	1361	97	77	Yes
08:30 - 09:30	607	+	690	=	1297	84	143	Yes
09:30 - 10:30	582	+	652	=	1234	70	79	Yes
06:30 - 07:30	645	+	552	=	1197	66	139	Yes
18:30 - 19:30	491	+	479	=	970	69	55	Yes
19:30 - 20:30	393	+	363	=	756	44	30	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2487

Study Date : 12/26/2024

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.

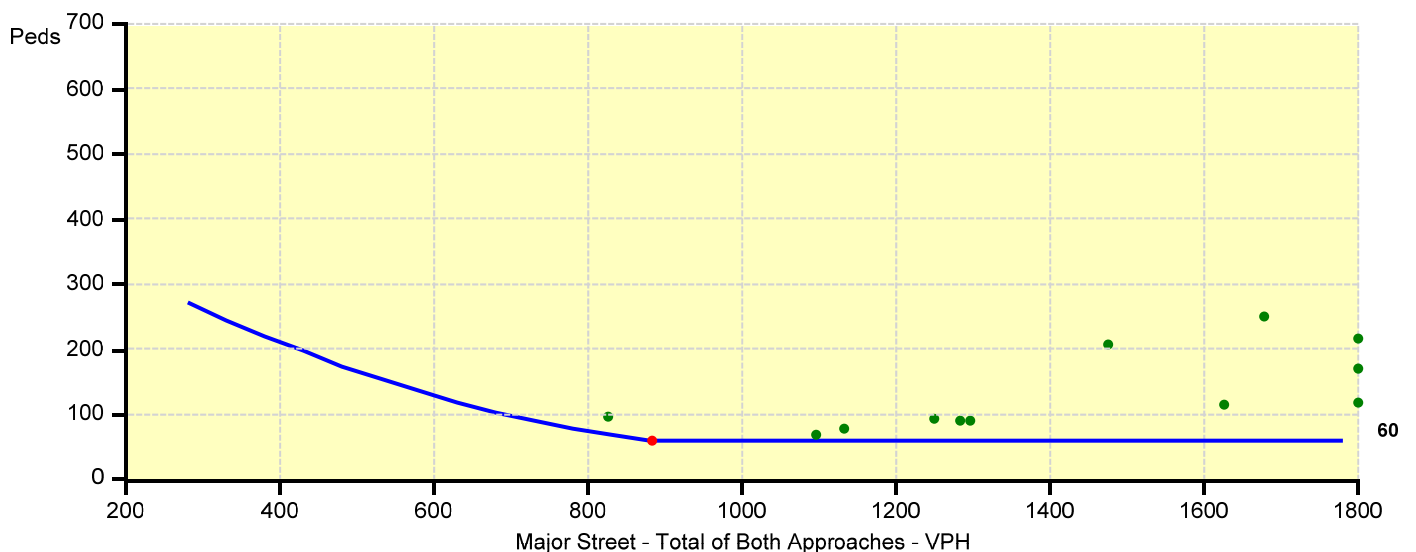
Summary

12 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 10				Total	Minor Road Able St		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	934	+	1305	=	2239	170	109	Yes
16:45 - 17:45	787	+	1203	=	1990	117	106	Yes
14:45 - 15:45	839	+	1071	=	1910	215	144	Yes
07:00 - 08:00	978	+	699	=	1677	115	249	Yes
13:45 - 14:45	776	+	849	=	1625	113	93	Yes
08:00 - 09:00	719	+	757	=	1476	116	207	Yes
12:45 - 13:45	602	+	693	=	1295	88	73	Yes
17:45 - 18:45	577	+	706	=	1283	85	88	Yes
09:00 - 10:00	554	+	695	=	1249	91	81	Yes
10:00 - 11:00	556	+	577	=	1133	66	78	Yes
11:45 - 12:45	493	+	603	=	1096	64	68	Yes
06:00 - 07:00	437		388		825	34	96	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2487

Study Date : 12/26/2024

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

39 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 10				Total	Minor Road Able St		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	934	+	1305	=	2239	170	109	Yes
16:00 - 17:00	929	+	1306	=	2235	153	111	Yes
15:30 - 16:30	931	+	1248	=	2179	170	107	Yes
16:30 - 17:30	865	+	1313	=	2178	124	118	Yes
16:15 - 17:15	857	+	1306	=	2163	136	119	Yes
15:15 - 16:15	929	+	1164	=	2093	178	135	Yes
15:00 - 16:00	854	+	1148	=	2002	238	139	Yes
16:45 - 17:45	787	+	1203	=	1990	117	106	Yes
14:45 - 15:45	839	+	1071	=	1910	215	144	Yes
14:30 - 15:30	808	+	1034	=	1842	217	151	Yes
17:00 - 18:00	731	+	1090	=	1821	109	102	Yes
14:15 - 15:15	786	+	1021	=	1807	200	117	Yes

