

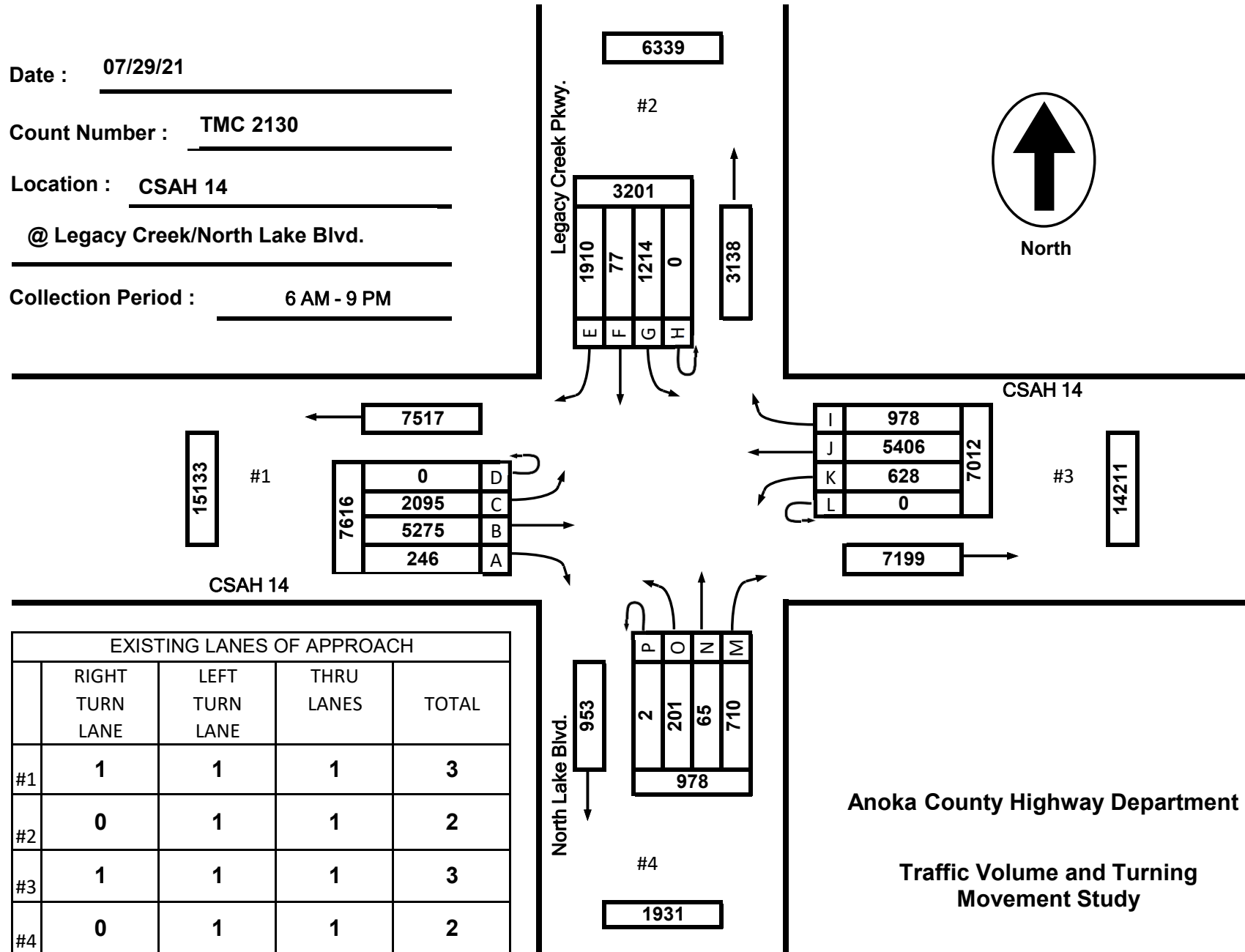
Date : 07/29/21

Count Number : TMC 2130

Location : CSAH 14

@ Legacy Creek/North Lake Blvd.

Collection Period : 6 AM - 9 PM



Anoka County Highway Department

Traffic Volume and Turning Movement Study

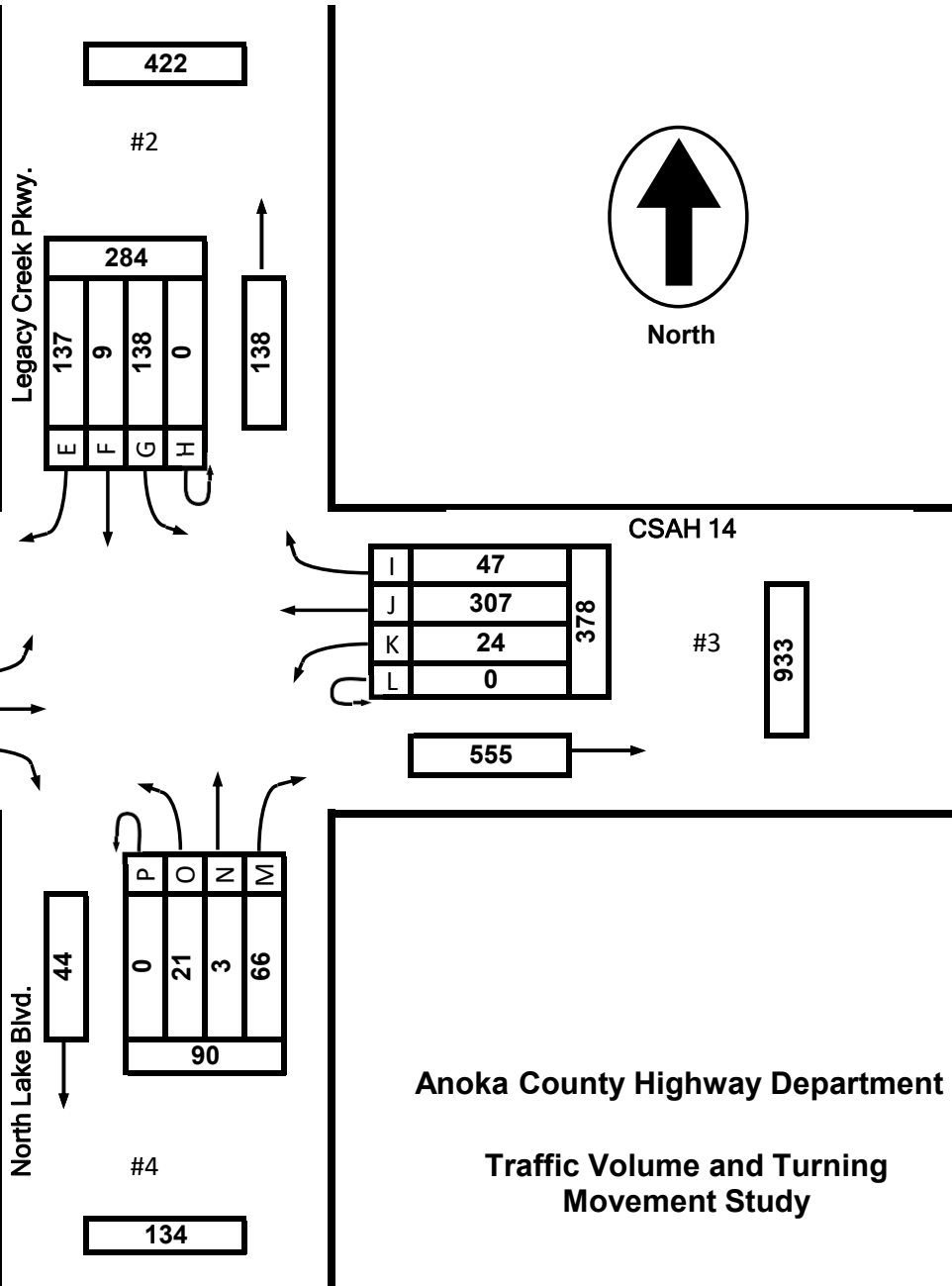
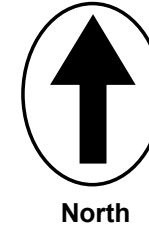
Date : 07/29/21

Count Number : TMC 2130

Location : CSAH 14
@ Legacy Creek/North Lake

Collection Period : 7:30 AM - 8:30 AM

AM PEAK



EXISTING LANES OF APPROACH

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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

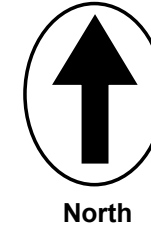
Date : 07/29/21

Count Number : TMC 2130

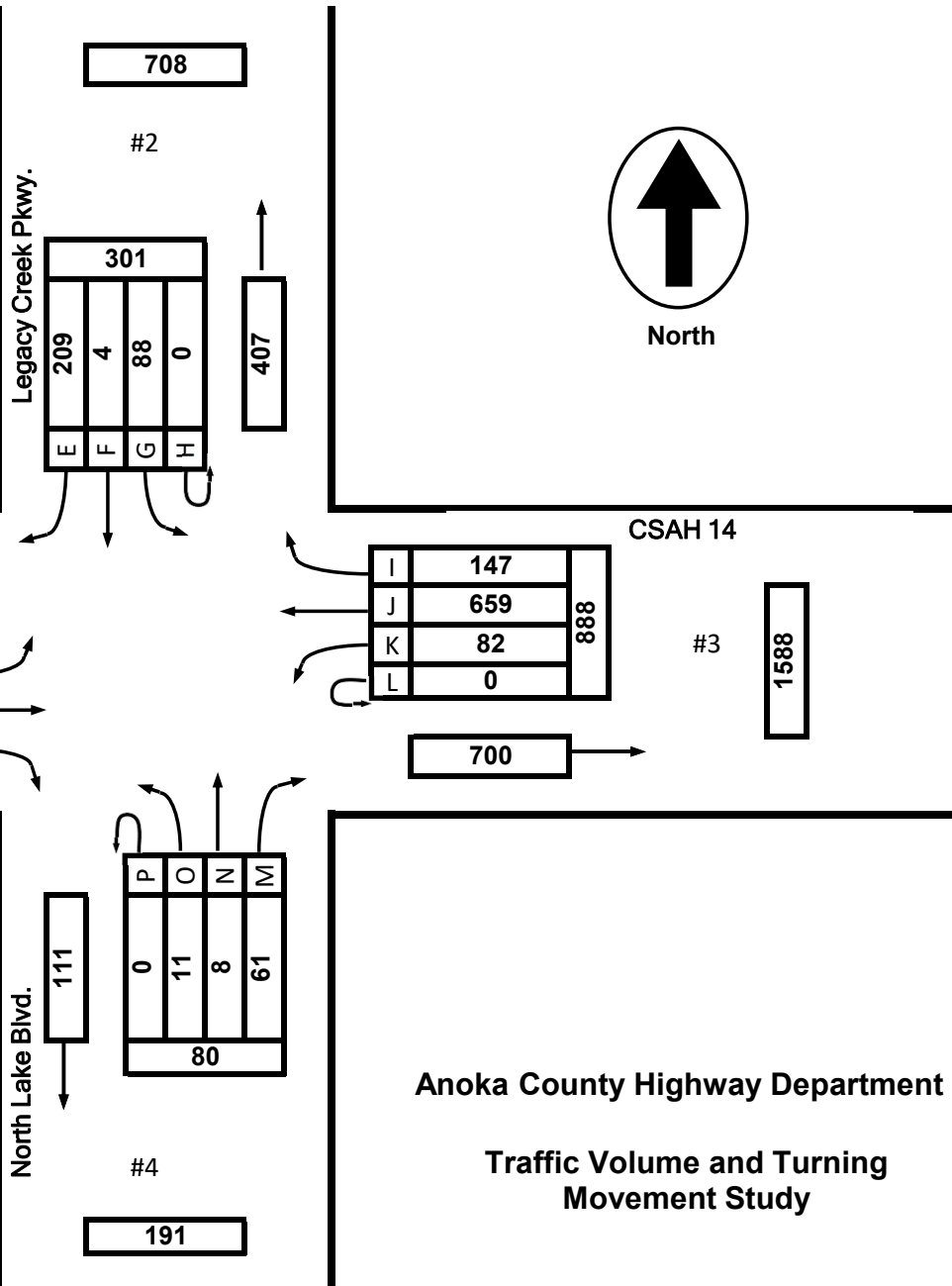
Location : CSAH 14
@ Legacy Creek/North Lake

Collection Period : 4:15 PM - 5:15 PM

PM PEAK



North



CSAH 14

CSAH 14

North Lake Blvd.

Legacy Creek Pkwy.

EXISTING LANES OF APPROACH

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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

**CSAH 14 @ Legacy Creek/North Lake Rd.
Blaine Minnesota
Thursday, July 29, 2021**

Time	Southbound North Lake Blvd.						Westbound CSAH 14 (125th Ave.)						Northbound Legacy Creek Pkwy.						Eastbound CSAH 14 (125th Ave.)						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	0	0	0	0	0	0	0	0	0	0	0
12:15 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
12:30 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
12:45 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
Hourly Total	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
1:00 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
1:15 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
1:30 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
1:45 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
Hourly Total	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
2:00 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	0	0	0	0	0
2:30 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
2:45 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
Hourly Total	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
3:00 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
3:15 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
3:30 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
3:45 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
Hourly Total	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
4:00 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
4:15 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
4:30 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
4:45 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
Hourly Total	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
5:00 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
5:15 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
5:30 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
5:45 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
Hourly Total	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
6:00 AM	0	16	0	8	0	24	0	2	34	1	0	37	0	1	0	8	0	9	0	3	76	0	0	79	149
6:15 AM	0	26	1	10	0	37	0	5	41	4	0	50	0	1	0	15	0	16	0	4	86	1	0	91	194
6:30 AM	0	52	2	40	0	94	0	1	65	2	0	68	0	3	1	11	0	15	0	3	116	1	0	120	297
6:45 AM	0	25	1	28	0	54	0	1	46	3	0	50	0	3	0	11	0	14	0	13	84	2	0	99	217
Hourly Total	0	119	4	86	0	209	0	9	186	10	0	205	0	8	1	45	0	54	0	23	362	4	0	389	857
7:00 AM	0	41	2	33	0	78	0	4	42	6	0	52	0	4	1	19	0	24	0	11	77	4	0	92	244
7:15 AM	0	30	0	35	0	65	0	3	77	7	0	87	0	2	0	15	0	17	0	19	93	1	0	113	282
7:30 AM	0	50	1	33	0	84	0	4	91	6	0	101	0	6	0	21	0	27	0	16	107	4	0	127	339
7:45 AM	0	36	1	26	0	62	0	11	66	9	0	86	0	6	0	16	0	22	0	25	83	1	0	109	279
Hourly Total	0	157	4	126	0	287	0	22	276	28	0	326	0	18	1	71	0	90	0	71	360	10	0	441	1144

**CSAH 14 @ Legacy Creek/North Lake Rd.
Blaine Minnesota
Thursday, July 29, 2021**

Time	Southbound North Lake Blvd.						Westbound CSAH 14 (125th Ave.)						Northbound Legacy Creek Pkwy.						Eastbound CSAH 14 (125th Ave.)						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	31	3	37	0	71	0	5	67	16	0	88	0	3	1	16	0	20	0	21	86	5	0	112	291
8:15 AM	0	21	4	42	0	67	0	4	83	16	0	103	0	6	2	13	0	21	0	26	75	1	0	102	293
8:30 AM	0	32	2	52	0	86	0	2	72	8	0	82	0	4	0	8	0	12	0	34	91	2	0	127	307
8:45 AM	0	22	2	45	0	69	0	7	71	12	0	90	0	4	2	19	0	25	0	40	73	5	0	118	302
Hourly Total	0	106	11	176	0	293	0	18	293	52	0	363	0	17	5	56	0	78	0	121	325	13	0	459	1193
9:00 AM	0	25	1	36	0	62	0	13	72	14	0	99	0	2	2	11	0	15	0	29	68	2	0	99	275
9:15 AM	0	19	1	31	0	51	0	3	71	10	0	84	0	4	1	14	0	19	0	30	59	5	0	94	248
9:30 AM	0	26	0	24	0	50	0	3	65	11	0	79	0	6	0	19	0	25	0	29	70	4	0	103	257
9:45 AM	0	22	0	39	0	61	0	10	75	15	0	100	0	2	2	9	0	13	0	30	73	4	0	107	281
Hourly Total	0	92	2	130	0	224	0	29	283	50	0	362	0	14	5	53	0	72	0	118	270	15	0	403	1061
10:00 AM	0	19	1	32	0	52	0	6	74	9	0	89	1	4	0	9	0	14	0	24	70	2	0	96	251
10:15 AM	0	19	1	24	0	44	0	2	77	7	0	86	0	2	0	10	0	12	0	28	84	0	0	112	254
10:30 AM	0	17	0	31	0	48	0	11	66	7	0	84	0	1	0	14	0	15	0	29	84	4	0	117	264
10:45 AM	0	19	2	21	0	42	0	3	90	6	0	99	0	5	1	6	0	12	0	20	71	2	0	93	246
Hourly Total	0	74	4	108	0	186	0	22	307	29	0	368	1	12	1	39	0	53	0	101	309	8	0	418	1015
11:00 AM	0	22	2	29	0	53	0	8	77	8	0	93	0	5	1	11	0	17	0	28	74	4	0	106	269
11:15 AM	0	17	0	34	0	51	0	7	84	10	0	101	0	1	0	12	0	13	0	25	84	4	0	113	278
11:30 AM	0	19	1	34	0	54	0	9	79	9	0	97	0	3	3	15	0	21	0	26	92	6	0	124	296
11:45 AM	0	21	1	28	0	50	0	15	76	12	0	103	0	4	2	13	0	19	0	27	95	9	0	131	303
Hourly Total	0	79	4	125	0	208	0	39	316	39	0	394	0	13	6	51	0	70	0	106	345	23	0	474	1146
12:00 PM	0	14	4	31	0	49	0	17	92	22	0	131	0	4	1	15	0	20	0	35	91	6	1	132	332
12:15 PM	0	37	0	32	0	69	0	14	89	17	0	120	0	10	3	14	0	27	0	55	85	7	0	147	363
12:30 PM	0	13	0	36	0	49	0	12	110	22	0	144	0	5	5	11	0	21	0	21	74	3	0	98	312
12:45 PM	0	22	1	31	0	54	0	11	84	15	0	110	0	3	1	13	0	17	0	40	46	2	0	88	269
Hourly Total	0	86	5	130	0	221	0	54	375	76	0	505	0	22	10	53	0	85	0	151	296	18	1	465	1276
1:00 PM	0	21	3	37	0	61	0	8	93	14	0	115	0	3	1	12	0	16	0	43	68	3	0	114	306
1:15 PM	0	19	6	18	0	43	0	12	91	17	0	120	0	4	0	6	0	10	0	42	106	3	0	151	324
1:30 PM	0	7	2	27	0	36	0	9	96	10	0	115	0	3	1	14	0	18	0	29	67	7	0	103	272
1:45 PM	0	12	1	22	0	35	0	6	84	10	0	100	0	2	0	8	0	10	0	34	71	2	0	107	252
Hourly Total	0	59	12	104	0	175	0	35	364	51	0	450	0	12	2	40	0	54	0	148	312	15	0	475	1154
2:00 PM	0	12	0	22	0	34	0	10	79	10	0	99	0	3	1	6	0	10	0	34	92	2	0	128	271
2:15 PM	0	13	2	26	0	41	0	10	86	18	0	114	0	3	1	22	0	26	0	29	79	5	0	113	294
2:30 PM	0	16	2	29	0	47	0	15	103	18	0	136	0	1	2	7	0	10	0	27	79	4	0	110	303
2:45 PM	0	17	1	31	0	49	0	9	118	13	0	140	0	4	0	13	0	17	0	29	103	6	0	138	344
Hourly Total	0	58	5	108	0	171	0	44	386	59	0	489	0	11	4	48	0	63	0	119	353	17	0	489	1212
3:00 PM	0	15	2	34	0	51	0	10	118	23	0	151	0	4	1	9	0	14	0	35	115	6	0	156	372
3:15 PM	0	26	1	44	0	71	0	21	141	18	0	180	0	4	1	12	0	17	0	46	93	5	0	144	412
3:30 PM	0	24	1	30	0	55	0	14	145	15	0	174	0	3	1	10	0	14	0	44	137	7	0	188	431
3:45 PM	0	16	2	41	0	59	0	21	152	24	0	197	0	2	1	20	0	23	0	82	107	2	0	171	460
Hourly Total	0	81	6	149	0	236	0	66	556	80	0	702	0	13	4	51	0	68	0	187	452	20	0	659	1665

**CSAH 14 @ Legacy Creek/North Lake Rd.
Blaine Minnesota
Thursday, July 29, 2021**

Time	Southbound North Lake Blvd.						Westbound CSAH 14 (125th Ave.)						Northbound Legacy Creek Pkwy.						Eastbound CSAH 14 (125th Ave.)						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	23	2	42	0	67	0	18	117	39	0	174	1	4	0	10	0	15	0	63	125	8	0	196	452
4:15 PM	0	20	2	50	0	72	0	19	161	39	0	219	0	2	2	9	0	13	0	60	137	5	0	202	506
4:30 PM	0	20	0	56	0	76	0	22	170	44	0	236	0	4	1	14	0	19	0	66	136	5	0	207	538
4:45 PM	0	25	0	63	0	88	0	22	182	37	0	241	0	3	2	18	0	23	0	63	122	8	0	193	545
Hourly Total	0	88	4	211	0	303	0	81	630	159	0	870	1	13	5	51	0	70	0	252	520	26	0	798	2041
5:00 PM	0	23	2	40	0	65	0	19	146	27	0	192	0	2	3	20	0	25	0	63	156	7	0	226	508
5:15 PM	0	26	2	56	0	84	0	16	167	45	0	228	0	6	1	13	0	20	0	53	109	7	0	169	501
5:30 PM	0	26	0	42	0	68	0	17	137	33	0	187	0	3	0	12	0	15	0	68	145	4	0	217	487
5:45 PM	0	16	2	38	0	56	0	12	110	32	0	154	0	5	3	12	0	20	0	68	110	8	0	186	416
Hourly Total	0	91	6	176	0	273	0	64	560	137	0	761	0	16	7	57	0	80	0	252	520	26	0	798	1912
6:00 PM	0	9	1	36	0	46	0	10	125	19	0	154	0	5	2	12	0	19	0	42	99	5	0	146	365
6:15 PM	0	27	1	26	0	54	0	10	95	14	0	119	0	5	1	9	0	15	0	40	95	6	0	141	329
6:30 PM	0	7	3	34	0	44	0	15	82	20	0	117	0	7	0	9	0	16	0	33	77	7	0	117	294
6:45 PM	0	13	1	37	0	51	0	16	72	19	0	107	0	2	0	8	0	10	0	44	79	6	0	129	297
Hourly Total	0	56	6	133	0	195	0	51	374	72	0	497	0	19	3	38	0	60	0	159	350	24	0	533	1285
7:00 PM	0	5	2	22	0	29	0	12	70	17	0	99	0	2	2	7	0	11	0	45	65	4	0	114	253
7:15 PM	0	12	0	21	0	33	0	12	63	14	0	89	0	4	1	9	0	14	0	44	86	4	0	134	270
7:30 PM	0	14	0	18	0	32	0	7	66	16	0	89	0	1	0	6	0	7	0	41	62	3	0	106	234
7:45 PM	0	16	0	18	0	34	0	8	65	11	0	84	0	1	1	7	0	9	0	32	56	2	0	90	217
Hourly Total	0	47	2	79	0	128	0	39	264	58	0	361	0	8	4	29	0	41	0	162	269	13	0	444	974
8:00 PM	0	1	0	19	0	20	0	18	61	23	0	102	0	2	2	5	0	9	0	33	64	2	0	99	230
8:15 PM	0	4	1	13	0	18	0	16	66	21	0	103	0	1	0	14	0	15	0	27	59	5	0	91	227
8:30 PM	0	12	1	18	0	31	0	10	56	15	0	81	0	0	2	4	0	6	0	29	58	6	0	93	211
8:45 PM	0	4	0	19	0	23	0	11	53	19	0	83	0	2	3	5	0	10	0	36	51	1	0	88	204
Hourly Total	0	21	2	69	0	92	0	55	236	78	0	369	0	5	7	28	0	40	0	125	232	14	0	371	872
9:00 PM	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
9:15 PM	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
9:30 PM	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
9:45 PM	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
Hourly Total	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
10:00 PM	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
10:15 PM	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
10:30 PM	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
10:45 PM	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
Hourly Total	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
11:00 PM	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 PM	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 PM	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 PM	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
Hourly Total	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
DAILY TOTAL	0	1214	77	1910	0	3201	0	628	5406	978	0	7012	2	201	65	710	0	978	0	2095	5275	246	1	7616	18807
Cars	0	1195	76	1897	0	3168	0	620	5273	965	0	6858	2	201	65	704	0	972	0	2069	5136	246	1	7451	18448
Heavy Vehicles	0	19	1	13	0	33	0	8	133	13	0	154	0	0	0	6	0	6	0	26	139	0	0	165	358
Heavy Vehicle %	0.00%	1.57%	1.30%	0.68%	0.00%	1.03%	0.00%	1.27%	2.46%	1.33%	0.00%	2.20%	0.00%	0.00%	0.00%	0.85%	0.00%	0.61%	0.00%	1.24%	2.64%	0.00%	0.00%	2.17%	1.90%

**CSAH 14 @ Legacy Creek/North Lake Rd.
Blaine Minnesota**

Thursday, July 29, 2021

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	50	1	33	0	84	0	4	91	6	0	101	0	6	0	21	0	27	0	16	107	4	0	127	339
7:45 AM	0	36	1	25	0	62	0	11	66	9	0	86	0	6	0	16	0	22	0	25	83	1	0	109	279
8:00 AM	0	31	3	37	0	71	0	5	67	16	0	88	0	3	1	16	0	20	0	21	86	5	0	112	291
8:15 AM	0	21	4	42	0	67	0	4	83	16	0	103	0	6	2	13	0	21	0	26	75	1	0	102	293
Peak Hour Total	0	138	9	137	0	284	0	24	307	47	0	378	0	21	3	66	0	90	0	88	351	11	0	450	1202
PHF	0.000	0.690	0.563	0.815	0.000	0.845	0.000	0.545	0.843	0.734	0.000	0.917	0.000	0.875	0.375	0.786	0.000	0.833	0.000	0.846	0.820	0.550	0.000	0.886	0.886

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
4:15 PM	0	20	2	50	0	72	0	19	161	39	0	219	0	2	2	9	0	13	0	60	137	5	0	202	506
4:30 PM	0	20	0	56	0	76	0	22	170	44	0	236	0	4	1	14	0	19	0	66	136	5	0	207	538
4:45 PM	0	25	0	63	0	88	0	22	182	37	0	241	0	3	2	18	0	23	0	63	122	8	0	193	545
5:00 PM	0	23	2	40	0	65	0	19	146	27	0	192	0	2	3	20	0	25	0	63	156	7	0	226	508
Peak Hour Total	0	88	4	209	0	301	0	82	659	147	0	888	0	11	8	61	0	80	0	252	551	25	0	828	2097
PHF	0.000	0.880	0.500	0.829	0.000	0.855	0.000	0.932	0.905	0.835	0.000	0.921	0.000	0.688	0.667	0.763	0.000	0.800	0.000	0.955	0.883	0.781	0.000	0.916	0.962

Total Vehicles On Leg				6339			
Vehicles Entering Intersection		3201		Vehicles Exiting Intersection		3138	
Southbound							
Cars	1897	76	1195	0	0		
Heavy	13	1	19	0	0		
Total	1910	77	1214	0	0		



Total Vehicles on Leg 15133	Vehicles Entering Intersection 7616	Eastbound	Cars	Heavy	Total
			1	0	1
	0		0	0	
	2069		26	2095	
	Vehicles Exiting Intersection 7517		5136	139	5275
246	0	246			



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 7012	Total Vehicles on Leg 14211
965	13	978			
5273	133	5406			
620	8	628			
Vehicles Exiting Intersection 7199	0	0			
0	0	0			



Cars	0	2	201	65	704
Heavy	0	0	0	0	6
Total	0	2	201	65	710
Northbound					
Vehicles Entering Intersection			978		
Vehicles Exiting Intersection			953		
Total Vehicles On Leg			1931		



Heavy Vehicles

Date	Time	Southbound					Westbound					Northbound					Eastbound				
		U Turns	Left Turns	Straight Through	Right Turns	Bicycles In Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles In Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles In Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	Bicycles In Crosswalk
07/29/2021	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0
	6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
	6:30	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	1	2	0	0	0
	6:45	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0
	7:00	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	7	0	0	0
	7:15	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	1	7	0	0	0
	7:30	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	1	10	0	0	0
	7:45	0	1	0	0	0	0	1	1	1	0	0	0	0	1	0	1	3	0	0	0
	8:00	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	6	0	0	0
	8:15	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	5	0	0	0
	8:30	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	2	0	0	0
	8:45	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	1	3	0	0	0
	9:00	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	11	0	0	0
	9:15	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0
	9:30	0	1	0	0	0	0	0	4	0	0	0	0	0	0	0	2	7	0	0	0
	9:45	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	3	0	0	0
	10:00	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0	0	3	0	0	0
	10:15	0	2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	3	0	0	0
	10:30	0	0	0	1	0	0	1	3	0	0	0	0	0	0	0	1	3	0	0	0
	10:45	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	3	0	0	0
	11:00	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	3	0	0	0
	11:15	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	2	0	0	0
	11:30	0	1	0	1	0	0	0	3	0	0	0	0	0	0	0	0	2	0	0	0
	11:45	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	2	4	0	0	0

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2130

Study Date : 07/28/2021

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 14 (125th Ave. NE)

Number of Lanes : 1

Total Approach Volume: 7,617

Westbound: CSAH 14 (125th Ave. NE)

Number of Lanes : 1

Total Approach Volume: 7,013

Minor Street Approaches

Northbound: North Lake Blvd. NE

Number of Lanes : 1

Total Approach Volume: 978

Southbound: Legacy Creek Pkwy. NE

Number of Lanes : 1

Total Approach Volume: 3,202

Warrant Summary (Rural Values Apply)

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

Warrant 1A - Minimum Vehicular Volume.....Satisfied

Required volumes reached for 14 hours, 8 are needed

Warrant 1B - Interruption of Continuous Traffic.....Satisfied

Required volumes reached for 15 hours, 8 are needed

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

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

Required 1B volumes reached for 15 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 (56) 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 2130

Study Date : 07/28/2021

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

14 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **350**

Veh/Hr Minor = **105**

Time	Major Road CSAH 14 (125th Ave. NE)				Total	Minor Road North Lake Blvd. NE		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:45 - 17:45	805	+	848	=	1653	83	305	Yes
15:45 - 16:45	776	+	826	=	1602	70	274	Yes
14:45 - 15:45	626	+	645	=	1271	62	226	Yes
17:45 - 18:45	590	+	544	=	1134	70	200	Yes
11:45 - 12:45	508	+	498	=	1006	87	217	Yes
12:45 - 13:45	456	+	461	=	917	61	194	Yes
13:45 - 14:45	458	+	449	=	907	56	157	Yes
18:45 - 19:45	483	+	384	=	867	42	145	Yes
10:45 - 11:45	437	+	390	=	827	63	200	Yes
07:45 - 08:45	450	+	359	=	809	75	286	Yes
09:45 - 10:45	432	+	359	=	791	54	205	Yes
08:45 - 09:45	414	+	352	=	766	84	232	Yes
06:45 - 07:45	431	+	290	=	721	82	280	Yes
05:45 - 06:45	290	+	155	=	445	40	155	Yes
19:45 - 20:45	373	+	370	=	743	39	103	No
20:00 - 21:00	371	+	369	=	740	40	92	No
20:15 - 21:15	272	+	267	=	539	31	72	No
20:30 - 21:30	181	+	164	=	345	16	54	No
05:30 - 06:30	170	+	87	=	257	25	61	No
20:45 - 21:45	88	+	83	=	171	10	23	No
05:15 - 06:15	79	+	37	=	116	9	24	No
00:00 - 01:00	0	+	0	=	0	0	0	No
00:15 - 01:15	0	+	0	=	0	0	0	No
00:30 - 01:30	0	+	0	=	0	0	0	No
00:45 - 01:45	0	+	0	=	0	0	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2130

Study Date : 07/28/2021

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

15 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **525**

Veh/Hr Minor = **52**

Time	Major Road				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
	CSAH 14 (125th Ave. NE)					North Lake Blvd. NE		
16:00 - 17:00	798	+	870	=	1668	70	303	Yes
17:00 - 18:00	798	+	761	=	1559	80	273	Yes
15:00 - 16:00	659	+	702	=	1361	68	236	Yes
18:00 - 19:00	533	+	497	=	1030	60	195	Yes
14:00 - 15:00	489	+	489	=	978	63	171	Yes
12:00 - 13:00	465	+	505	=	970	85	221	Yes
13:00 - 14:00	475	+	451	=	926	54	175	Yes
11:00 - 12:00	475	+	394	=	869	70	208	Yes
08:00 - 09:00	459	+	363	=	822	78	293	Yes
19:00 - 20:00	444	+	361	=	805	41	128	Yes
10:00 - 11:00	418	+	358	=	776	53	186	Yes
07:00 - 08:00	441	+	326	=	767	90	288	Yes
09:00 - 10:00	403	+	362	=	765	72	224	Yes
20:00 - 21:00	371	+	369	=	740	40	92	Yes
06:00 - 07:00	389	+	205	=	594	54	209	Yes
05:45 - 06:45	290	+	155	=	445	40	155	No
05:30 - 06:30	170	+	87	=	257	25	61	No
05:15 - 06:15	79	+	37	=	116	9	24	No
05:00 - 06:00	0	+	0	=	0	0	0	No
04:30 - 05:30	0	+	0	=	0	0	0	No
03:15 - 04:15	0	+	0	=	0	0	0	No
23:45 - 00:45	0	+	0	=	0	0	0	No
23:30 - 00:30	0	+	0	=	0	0	0	No
23:15 - 00:15	0	+	0	=	0	0	0	No
03:00 - 04:00	0	+	0	=	0	0	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2130

Study Date : 07/28/2021

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

15 hours meet 1A minimums.
15 hours meet 1B minimums.
Warrant IS met.

Site Data Required

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

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **280 420**

Veh/Hr Minor = **84 42**

Major Road CSAH 14 (125th Ave. NE)

Minor Road North Lake Blvd. NE

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:45 - 17:45	805	+	848	=	1653	83	305	Yes
15:45 - 16:45	776	+	826	=	1602	70	274	Yes
14:45 - 15:45	626	+	645	=	1271	62	226	Yes
17:45 - 18:45	590	+	544	=	1134	70	200	Yes
11:45 - 12:45	508	+	498	=	1006	87	217	Yes
12:45 - 13:45	456	+	461	=	917	61	194	Yes
13:45 - 14:45	458	+	449	=	907	56	157	Yes
18:45 - 19:45	483	+	384	=	867	42	145	Yes
10:45 - 11:45	437	+	390	=	827	63	200	Yes
07:45 - 08:45	450	+	359	=	809	75	286	Yes
09:45 - 10:45	432	+	359	=	791	54	205	Yes
08:45 - 09:45	414		352		766	84	232	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:45 - 17:45	805	+	848	=	1653	83	305	Yes
15:45 - 16:45	776	+	826	=	1602	70	274	Yes
14:45 - 15:45	626	+	645	=	1271	62	226	Yes
17:45 - 18:45	590	+	544	=	1134	70	200	Yes
11:45 - 12:45	508	+	498	=	1006	87	217	Yes
12:45 - 13:45	456	+	461	=	917	61	194	Yes
13:45 - 14:45	458	+	449	=	907	56	157	Yes
18:45 - 19:45	483	+	384	=	867	42	145	Yes
10:45 - 11:45	437	+	390	=	827	63	200	Yes
07:45 - 08:45	450	+	359	=	809	75	286	Yes
09:45 - 10:45	432	+	359	=	791	54	205	Yes
08:45 - 09:45	414		352		766	84	232	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2130

Study Date : 07/28/2021

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.

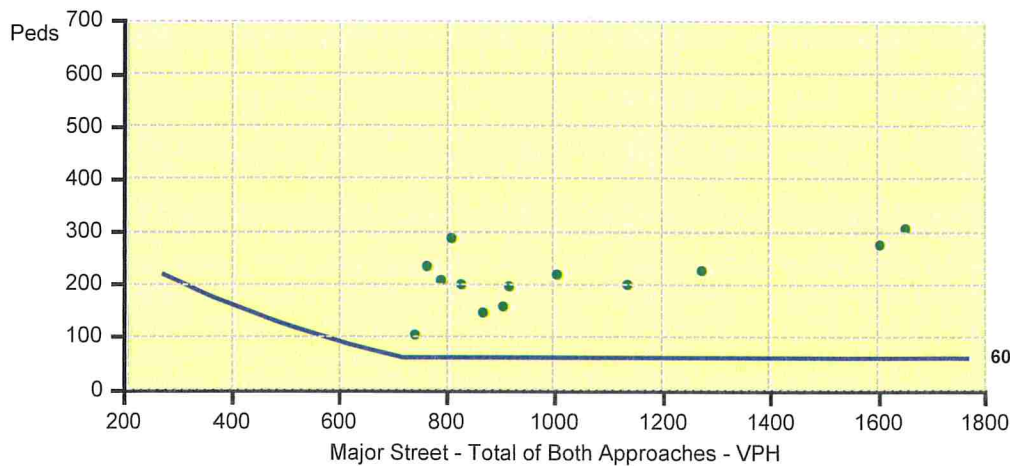
Summary

15 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Time	Major Road CSAH 14 (125th Ave. NE)				Total	Minor Road North Lake Blvd. NE		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:45 - 17:45	805	+	848	=	1653	83	305	Yes
15:45 - 16:45	776	+	826	=	1602	70	274	Yes
14:45 - 15:45	626	+	645	=	1271	62	226	Yes
17:45 - 18:45	590	+	544	=	1134	70	200	Yes
11:45 - 12:45	508	+	498	=	1006	87	217	Yes
12:45 - 13:45	456	+	461	=	917	61	194	Yes
13:45 - 14:45	458	+	449	=	907	56	157	Yes
18:45 - 19:45	483	+	384	=	867	42	145	Yes
10:45 - 11:45	437	+	390	=	827	63	200	Yes
07:45 - 08:45	450	+	359	=	809	75	286	Yes
09:45 - 10:45	432	+	359	=	791	54	205	Yes
							232	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2130

Study Date : 07/28/2021

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

53 one hour periods meet minimums.
Warrant IS met.

Site Data Required

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

Time	Major Road CSAH 14 (125th Ave. NE)				Total	Minor Road North Lake Blvd. NE		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	828	+	888	=	1716	80	301	Yes
16:30 - 17:30	795	+	897	=	1692	87	313	Yes
16:00 - 17:00	798	+	870	=	1668	70	303	Yes
16:45 - 17:45	805	+	848	=	1653	83	305	Yes
15:45 - 16:45	776	+	826	=	1602	70	274	Yes
17:00 - 18:00	798	+	761	=	1559	80	273	Yes
15:30 - 16:30	757	+	764	=	1521	65	253	Yes
17:15 - 18:15	718	+	723	=	1441	74	254	Yes
15:15 - 16:15	699	+	725	=	1424	69	252	Yes
15:00 - 16:00	659	+	702	=	1361	68	236	Yes
17:30 - 18:30	690	+	614	=	1304	69	224	Yes
							226	Yes

