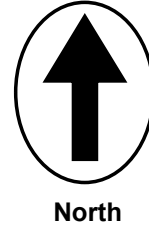


Date : 11/04/21

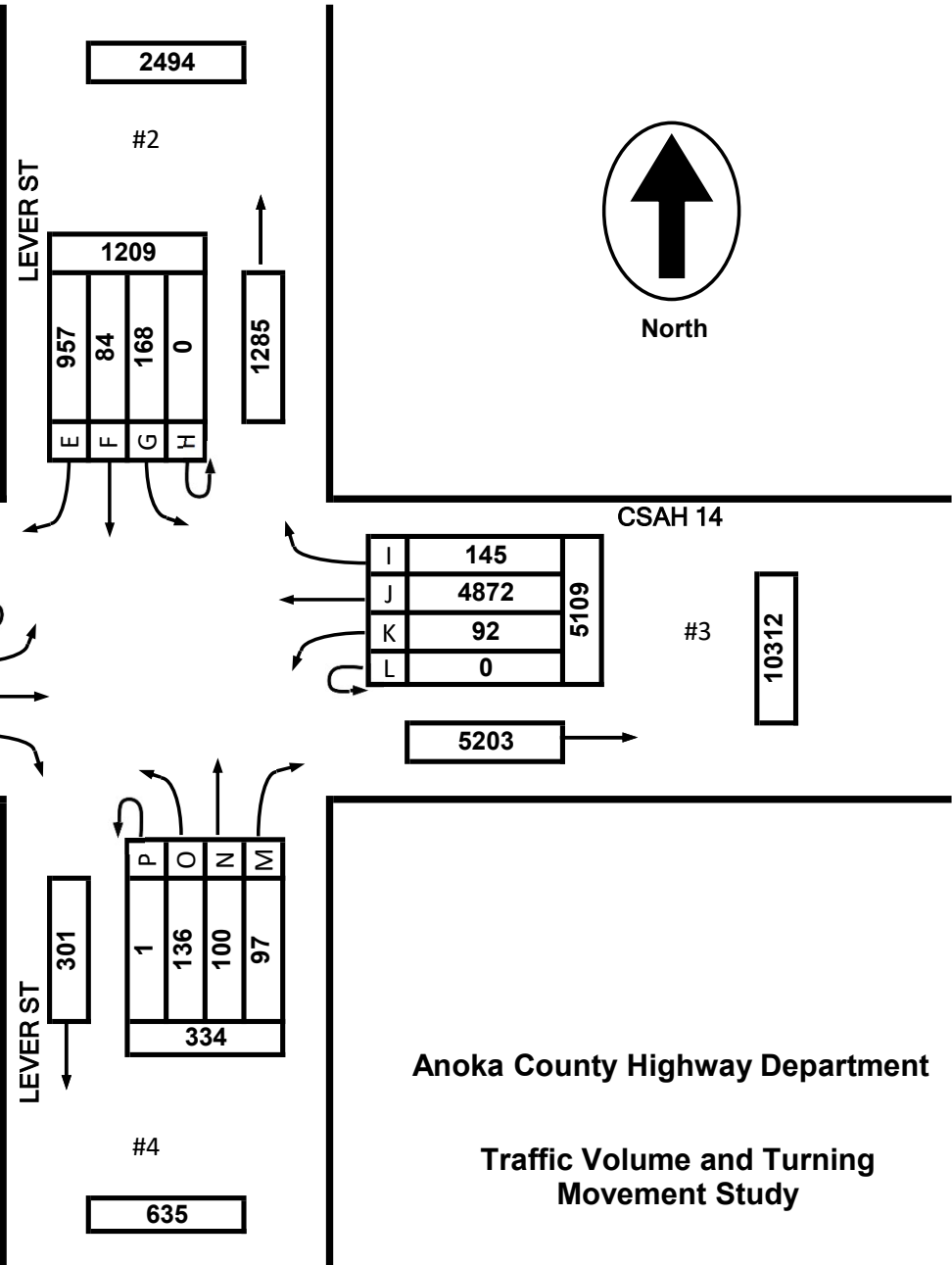
Count Number : TMC 2119

Location : CSAH 14 (125TH AVE)
@ LEVER ST

Collection Period : 5:00 AM - 9:00 PM



North



11	D
1040	C
4938	B
124	A

145	I
4872	J
92	K
0	L

1	P
136	O
100	N
97	M

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

Anoka County Highway Department

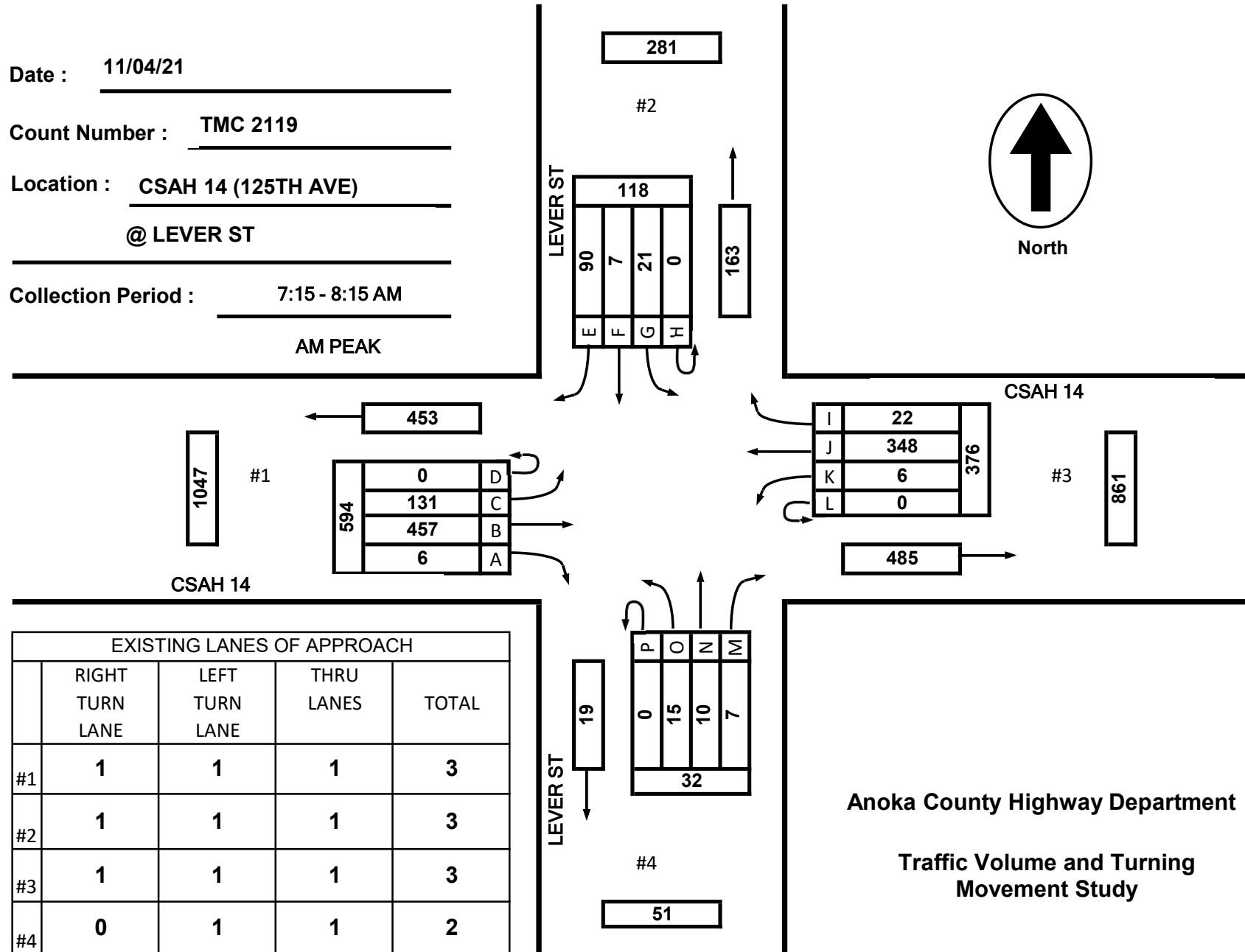
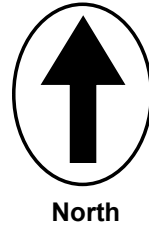
Traffic Volume and Turning Movement Study

Date : 11/04/21

Count Number : TMC 2119

Location : CSAH 14 (125TH AVE)
@ LEVER ST

Collection Period : 7:15 - 8:15 AM
AM PEAK



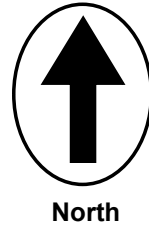
Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 11/04/21

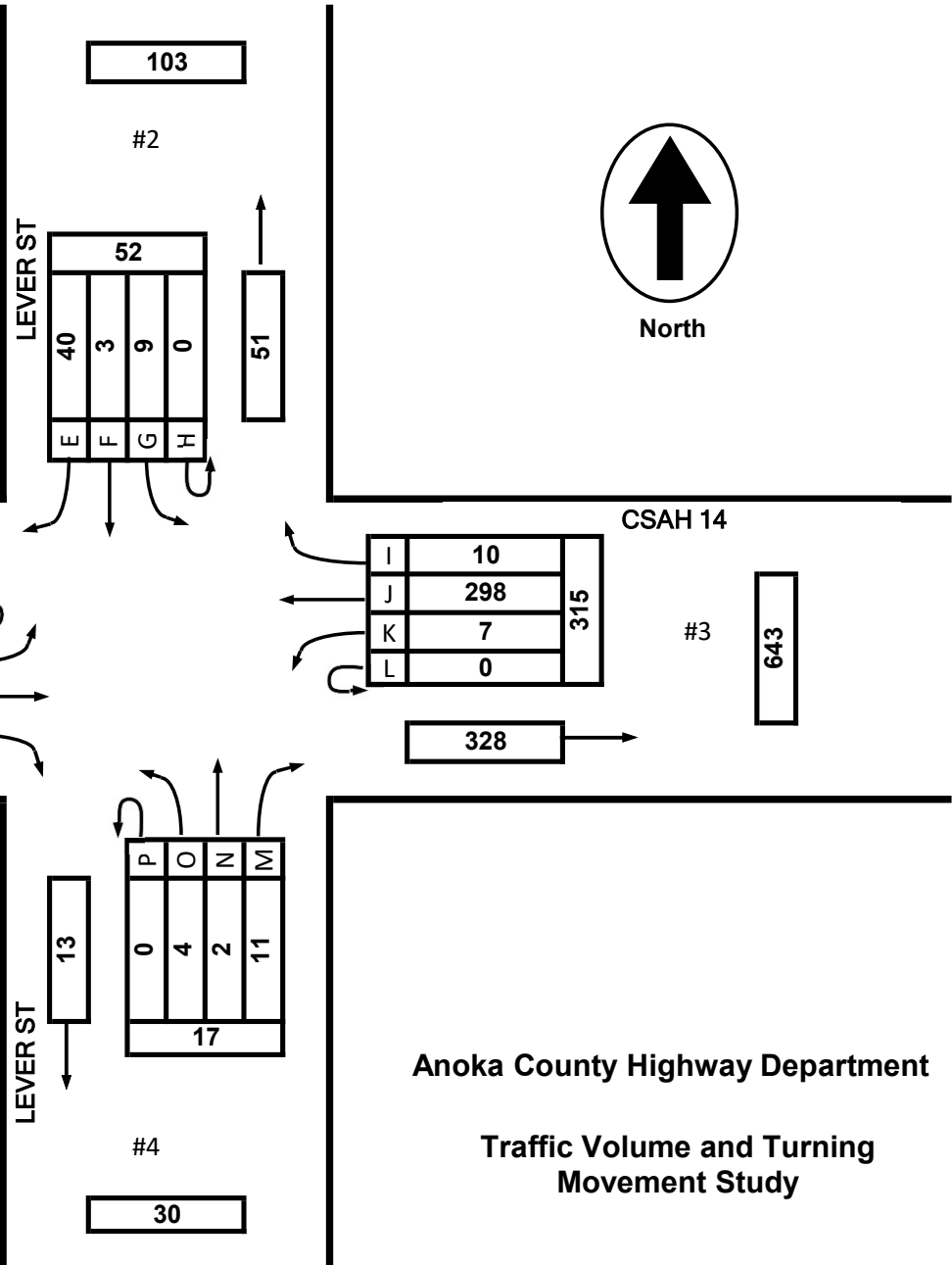
Count Number : TMC 2119

Location : CSAH 14 (125TH AVE)
@ LEVER ST

Collection Period : 12:45 - 1:45 PM
MIDDAY PEAK



North



CSAH 14

CSAH 14

LEVER ST

LEVER ST

EXISTING LANES OF APPROACH

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

Anoka County Highway Department

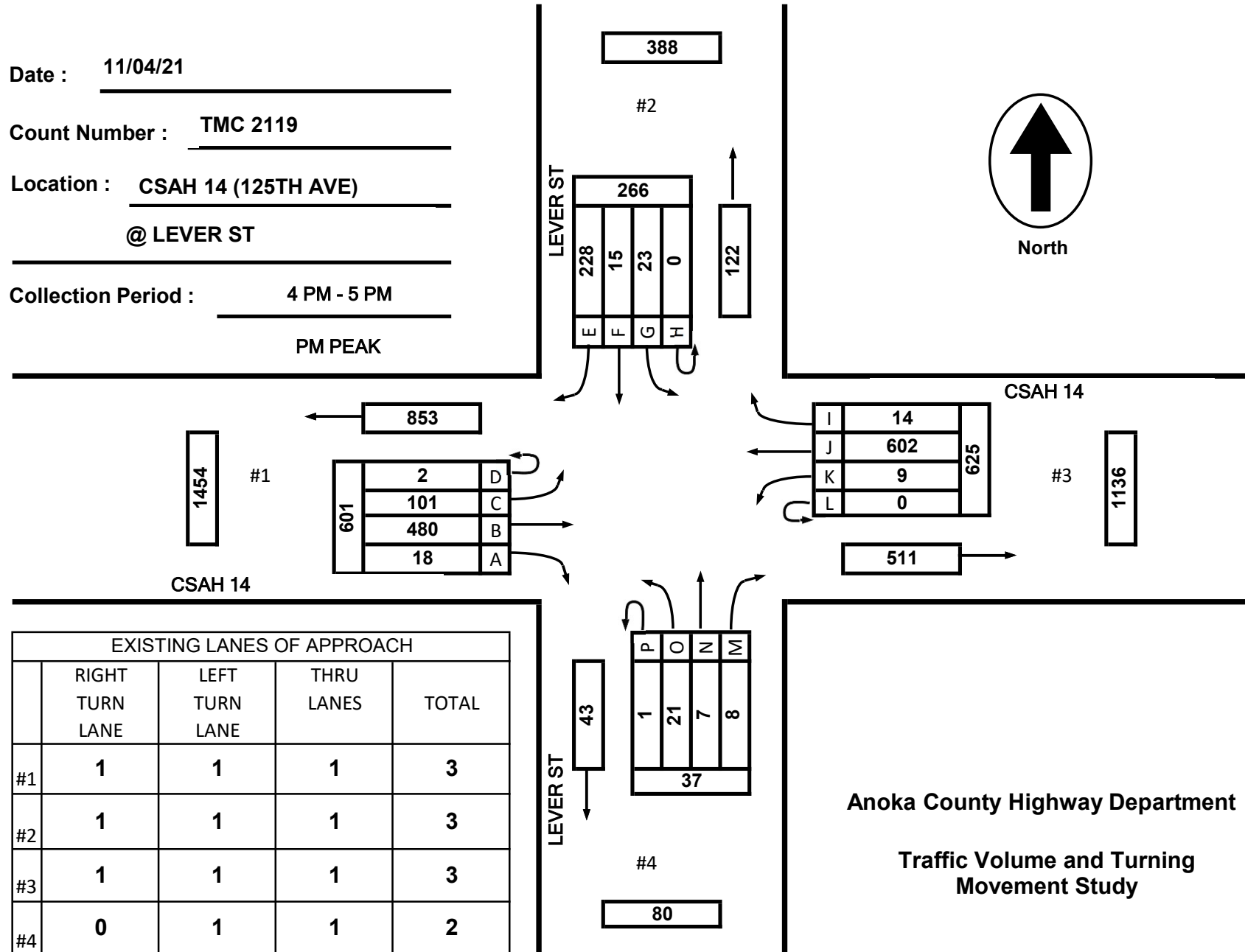
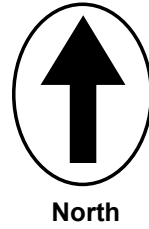
Traffic Volume and Turning Movement Study

Date : 11/04/21

Count Number : TMC 2119

Location : CSAH 14 (125TH AVE)
@ LEVER ST

Collection Period : 4 PM - 5 PM
PM PEAK



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

Anoka County Highway Department
 Traffic Volume and Turning Movement Study



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : tmc 2119
 Site Code :
 Start Date : 11/04/2021
 Page No : 1

Weather: Cool & Sunny
 CountCAM 2
 Study Conducted By: Andrea

Groups Printed- Cars + - Trucks

Start Time	Lever St. Southbound						CSAH 14 Westbound						Lever St. Northbound						CSAH 14 Eastbound						Exclu. Total	Inclu. Total	Int. Total
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total			
05:00	0	0	0	1	0	1	0	1	11	0	0	12	0	0	0	1	0	1	0	0	22	1	0	23	0	37	37
05:15	0	0	1	3	0	4	0	0	10	0	0	10	0	1	0	1	0	2	0	0	26	0	0	26	0	42	42
05:30	0	0	0	0	0	0	0	1	23	0	0	24	0	1	0	0	0	1	0	0	62	1	0	63	0	88	88
05:45	0	0	0	1	0	1	0	1	22	0	0	23	0	1	0	0	0	1	0	1	49	0	0	50	0	75	75
Total	0	0	1	5	0	6	0	3	66	0	0	69	0	3	0	2	0	5	0	1	159	2	0	162	0	242	242
06:00	0	0	0	7	0	7	0	0	27	0	0	27	0	0	0	0	0	0	0	3	69	0	0	72	0	106	106
06:15	0	0	0	2	0	2	0	1	45	1	0	47	0	0	0	0	0	0	0	8	71	0	0	79	0	128	128
06:30	0	0	0	8	0	8	0	4	50	0	0	54	0	2	0	0	0	2	0	5	92	0	0	97	0	161	161
06:45	0	0	1	9	0	10	0	0	75	3	0	78	0	1	0	1	0	2	0	16	108	0	0	124	0	214	214
Total	0	0	1	26	0	27	0	5	197	4	0	206	0	3	0	1	0	4	0	32	340	0	0	372	0	609	609
07:00	0	5	1	18	0	24	0	2	54	1	0	57	0	3	2	2	0	7	0	20	108	3	0	131	0	219	219
07:15	0	2	2	27	0	31	0	0	78	5	0	83	0	5	3	0	0	8	0	26	94	1	0	121	0	243	243
07:30	0	8	1	22	0	31	0	0	82	5	0	87	0	3	2	5	0	10	0	30	126	2	0	158	0	286	286
07:45	0	8	1	27	0	36	0	3	107	7	0	117	0	6	3	0	0	9	0	32	138	2	0	172	0	334	334
Total	0	23	5	94	0	122	0	5	321	18	0	344	0	17	10	7	0	34	0	108	466	8	0	582	0	1082	1082
08:00	0	3	3	14	0	20	0	3	81	5	0	89	0	1	2	2	0	5	0	43	99	1	0	143	0	257	257
08:15	0	2	2	18	0	22	0	0	54	6	0	60	0	2	2	2	0	6	0	32	62	3	0	97	0	185	185
08:30	0	3	1	13	0	17	0	1	65	8	0	74	0	0	2	1	0	3	0	23	86	2	0	111	0	205	205
08:45	0	3	0	13	0	16	0	2	54	5	0	61	0	1	1	4	0	6	0	23	103	1	0	127	0	210	210
Total	0	11	6	58	0	75	0	6	254	24	0	284	0	4	7	9	0	20	0	121	350	7	0	478	0	857	857
09:00	0	6	3	23	2	32	0	1	75	8	2	84	0	2	12	0	0	14	0	64	63	3	0	130	4	260	264
09:15	0	12	21	83	0	116	0	2	83	6	0	91	0	4	15	1	0	20	0	56	57	3	1	116	1	343	344
09:30	0	2	2	13	0	17	0	0	51	3	0	54	0	1	1	1	0	3	0	10	67	1	0	78	0	152	152
09:45	0	0	1	10	0	11	0	1	57	2	0	60	0	3	0	3	0	6	0	8	54	1	0	63	0	140	140
Total	0	20	27	129	2	176	0	4	266	19	2	289	0	10	28	5	0	43	0	138	241	8	1	387	5	895	900
10:00	0	0	0	4	0	4	0	0	60	0	1	60	0	3	1	2	0	6	0	11	47	0	0	58	1	128	129
10:15	0	2	1	7	0	10	0	1	54	2	0	57	0	2	1	3	0	6	0	11	41	3	0	55	0	128	128
10:30	0	3	1	12	0	16	0	1	61	2	0	64	0	0	0	1	0	1	0	6	49	1	1	56	1	137	138
10:45	0	1	2	9	0	12	0	0	60	3	0	63	0	1	1	0	0	2	0	6	61	1	0	68	0	145	145
Total	0	6	4	32	0	42	0	2	235	7	1	244	0	6	3	6	0	15	0	34	198	5	1	237	2	538	540



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : tmc 2119
 Site Code :
 Start Date : 11/04/2021
 Page No : 2

Weather: Cool & Sunny
 CountCAM 2
 Study Conducted By: Andrea

Groups Printed- Cars + - Trucks

Start Time	Lever St. Southbound						CSAH 14 Westbound						Lever St. Northbound						CSAH 14 Eastbound						Exclu. Total	Inclu. Total	Int. Total
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total			
11:00	0	1	5	10	0	16	0	0	58	0	0	58	0	2	2	1	0	5	0	3	61	1	0	65	0	144	144
11:15	0	2	2	6	0	10	0	2	62	0	0	64	0	2	4	2	0	8	1	8	58	1	0	68	0	150	150
11:30	0	3	0	10	0	13	0	2	62	3	1	67	0	4	0	3	0	7	1	8	66	0	0	75	1	162	163
11:45	0	2	0	8	0	10	0	1	64	1	0	66	0	2	1	2	0	5	2	18	64	3	1	87	1	168	169
Total	0	8	7	34	0	49	0	5	246	4	1	255	0	10	7	8	0	25	4	37	249	5	1	295	2	624	626
12:00	0	3	0	13	0	16	0	1	62	1	0	64	0	4	1	0	0	5	0	24	63	3	0	90	0	175	175
12:15	0	1	0	15	0	16	0	1	57	0	0	58	0	5	2	1	0	8	0	11	73	1	0	85	0	167	167
12:30	0	5	1	9	0	15	0	0	72	1	0	73	0	6	1	0	0	7	0	11	73	1	0	85	0	180	180
12:45	0	4	0	7	0	11	0	3	80	3	1	86	0	1	2	2	0	5	0	14	82	1	0	97	1	199	200
Total	0	13	1	44	0	58	0	5	271	5	1	281	0	16	6	3	0	25	0	60	291	6	0	357	1	721	722
13:00	0	1	2	18	0	21	0	3	63	2	0	68	0	0	0	4	0	4	0	9	75	1	1	85	1	178	179
13:15	0	2	1	5	0	8	0	0	75	3	0	78	0	1	0	4	0	5	0	5	67	0	0	72	0	163	163
13:30	0	2	0	10	0	12	0	1	80	2	0	83	0	2	0	1	0	3	1	11	84	1	0	97	0	195	195
13:45	0	2	1	9	0	12	0	2	94	2	0	98	0	2	2	2	0	6	0	9	68	6	0	83	0	199	199
Total	0	7	4	42	0	53	0	6	312	9	0	327	0	5	2	11	0	18	1	34	294	8	1	337	1	735	736
14:00	0	1	2	9	0	12	0	1	80	2	0	83	0	4	2	2	0	8	0	12	74	4	0	90	0	193	193
14:15	0	6	1	9	0	16	0	1	72	0	0	73	0	0	2	1	0	3	0	12	95	4	0	111	0	203	203
14:30	0	4	0	20	0	24	0	3	101	1	0	105	0	3	0	1	0	4	0	24	104	3	0	131	0	264	264
14:45	0	4	0	7	0	11	0	1	98	0	0	99	0	1	1	1	0	3	0	12	102	2	0	116	0	229	229
Total	0	15	3	45	0	63	0	6	351	3	0	360	0	8	5	5	0	18	0	60	375	13	0	448	0	889	889
15:00	0	9	2	17	0	28	0	3	133	1	1	137	0	0	0	2	0	2	0	15	91	4	0	110	1	277	278
15:15	0	3	0	17	0	20	0	2	130	3	0	135	0	4	2	4	0	10	0	31	111	3	0	145	0	310	310
15:30	0	4	0	15	0	19	0	5	146	6	0	157	0	1	5	1	0	7	1	43	107	2	0	153	0	336	336
15:45	0	0	0	7	0	7	0	3	148	5	1	156	0	5	7	4	2	16	0	50	87	3	4	140	7	319	326
Total	0	16	2	56	0	74	0	13	557	15	2	585	0	10	14	11	2	35	1	139	396	12	4	548	8	1242	1250
16:00	0	6	13	97	0	116	0	5	160	3	0	168	0	6	2	3	0	11	0	30	115	7	5	152	5	447	452
16:15	0	11	0	60	0	71	0	2	150	3	0	155	1	5	2	2	0	10	0	22	124	1	0	147	0	383	383
16:30	0	4	2	38	0	44	0	1	142	5	0	148	0	5	1	1	0	7	2	22	145	4	0	173	0	372	372
16:45	0	2	0	33	0	35	0	1	150	3	0	154	0	5	2	2	0	9	0	27	96	6	0	129	0	327	327
Total	0	23	15	228	0	266	0	9	602	14	0	625	1	21	7	8	0	37	2	101	480	18	5	601	5	1529	1534
17:00	0	2	1	21	0	24	0	1	152	2	0	155	0	4	0	5	0	9	0	27	122	1	0	150	0	338	338



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : tmc 2119
 Site Code :
 Start Date : 11/04/2021
 Page No : 3

Weather: Cool & Sunny
 CountCAM 2
 Study Conducted By: Andrea

Groups Printed- Cars + - Trucks

Start Time	Lever St. Southbound						CSAH 14 Westbound						Lever St. Northbound						CSAH 14 Eastbound						Exclu. Total	Inclu. Total	Int. Total			
	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total	UTrn	Left	Thru	Right	Peds	App. Total						
17:15	0	5	0	31	0	36	0	4	124	4	1	132	0	5	4	2	1	11	0	20	110	5	0	135	2	314	316			
17:30	0	2	1	18	0	21	0	5	118	2	1	125	0	0	1	2	0	3	0	13	97	4	1	114	2	263	265			
17:45	0	4	2	13	0	19	0	2	98	2	1	102	0	2	2	1	0	5	1	11	86	6	0	104	1	230	231			
Total	0	13	4	83	0	100	0	12	492	10	3	514	0	11	7	10	1	28	1	71	415	16	1	503	5	1145	1150			
18:00	0	2	1	11	0	14	0	2	87	2	0	91	0	0	1	3	0	4	0	13	92	4	1	109	1	218	219			
18:15	0	2	0	11	1	13	0	1	98	1	2	100	0	2	0	4	0	6	0	16	84	3	1	103	4	222	226			
18:30	0	3	0	11	0	14	0	2	74	3	0	79	0	1	0	0	0	1	0	8	73	0	0	81	0	175	175			
18:45	0	2	1	8	0	11	0	2	67	2	0	71	0	1	2	1	0	4	0	12	57	0	0	69	0	155	155			
Total	0	9	2	41	1	52	0	7	326	8	2	341	0	4	3	8	0	15	0	49	306	7	2	362	5	770	775			
19:00	0	1	0	10	0	11	0	1	59	1	0	61	0	2	0	0	0	2	1	9	57	2	1	69	1	143	144			
19:15	0	0	0	2	0	2	0	0	71	0	0	71	0	1	0	0	0	1	0	8	50	2	0	60	0	134	134			
19:30	0	0	2	10	0	12	0	1	52	1	0	54	0	0	0	1	0	1	1	12	52	0	0	65	0	132	132			
19:45	0	2	0	7	0	9	0	0	36	0	0	36	0	1	1	1	0	3	0	5	35	3	0	43	0	91	91			
Total	0	3	2	29	0	34	0	2	218	2	0	222	0	4	1	2	0	7	2	34	194	7	1	237	1	500	501			
20:00	0	0	0	2	0	2	0	1	33	1	0	35	0	1	0	0	0	1	0	8	53	0	0	61	0	99	99			
20:15	0	1	0	2	0	3	0	0	44	0	0	44	0	2	0	0	0	2	0	4	48	1	0	53	0	102	102			
20:30	0	0	0	3	0	3	0	0	38	1	0	39	0	0	0	0	0	0	0	4	35	1	0	40	0	82	82			
20:45	0	0	0	4	0	4	0	1	43	1	0	45	0	1	0	1	0	2	0	5	48	2	0	55	0	106	106			
Total	0	1	0	11	0	12	0	2	158	3	0	163	0	4	0	1	0	5	0	21	184	4	0	209	0	389	389			
Grand Total	0	168	84	957	3	1209	0	92	4872	145	12	5109	1	136	100	97	3	334	11	1040	4938	126	17	6115	35	12767	12802			
Apprch %	0	13.9	6.9	79.2			0	1.8	95.4	2.8			0.3	40.7	29.9	29			0.2	17	80.8	2.1								
Total %	0	1.3	0.7	7.5		9.5	0	0.7	38.2	1.1		40	0	1.1	0.8	0.8		2.6	0.1	8.1	38.7	1		47.9	0.3	99.7				
Cars +	0	147	81	865		1096	0	85	4660	133		4890	1	132	92	93		321	11	946	4693	123		5790	0	0	12097			
% Cars +	0	87.5	96.4	90.4	100	90.4	0	92.4	95.6	91.7	100	95.5	100	97.1	92	95.9	100	95.3	100	91	95	97.6	100	94.4	0	0	94.5			
Trucks	0	21	3	92		116	0	7	212	12		231	0	4	8	4		16	0	94	245	3		342	0	0	705			
% Trucks	0	12.5	3.6	9.6	0	9.6	0	7.6	4.4	8.3	0	4.5	0	2.9	8	4.1	0	4.7	0	9	5	2.4	0	5.6	0	0	5.5			



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : tmc 2119
 Site Code :
 Start Date : 11/04/2021
 Page No : 4

Weather: Cool & Sunny
 CountCAM 2
 Study Conducted By: Andrea

Start Time	Lever St. Southbound					CSAH 14 Westbound					Lever St. Northbound					CSAH 14 Eastbound					Int. Total
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	
Peak Hour Analysis From 05:00 to 09:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15																					
07:15	0	2	2	27	31	0	0	78	5	83	0	5	3	0	8	0	26	94	1	121	243
07:30	0	8	1	22	31	0	0	82	5	87	0	3	2	5	10	0	30	126	2	158	286
07:45	0	8	1	27	36	0	3	107	7	117	0	6	3	0	9	0	32	138	2	172	334
08:00	0	3	3	14	20	0	3	81	5	89	0	1	2	2	5	0	43	99	1	143	257
Total Volume	0	21	7	90	118	0	6	348	22	376	0	15	10	7	32	0	131	457	6	594	1120
% App. Total	0	17.8	5.9	76.3		0	1.6	92.6	5.9		0	46.9	31.2	21.9		0	22.1	76.9	1		
PHF	.000	.656	.583	.833	.819	.000	.500	.813	.786	.803	.000	.625	.833	.350	.800	.000	.762	.828	.750	.863	.838

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 12:45																					
12:45	0	4	0	7	11	0	3	80	3	86	0	1	2	2	5	0	14	82	1	97	199
13:00	0	1	2	18	21	0	3	63	2	68	0	0	0	4	4	0	9	75	1	85	178
13:15	0	2	1	5	8	0	0	75	3	78	0	1	0	4	5	0	5	67	0	72	163
13:30	0	2	0	10	12	0	1	80	2	83	0	2	0	1	3	1	11	84	1	97	195
Total Volume	0	9	3	40	52	0	7	298	10	315	0	4	2	11	17	1	39	308	3	351	735
% App. Total	0	17.3	5.8	76.9		0	2.2	94.6	3.2		0	23.5	11.8	64.7		0.3	11.1	87.7	0.9		
PHF	.000	.563	.375	.556	.619	.000	.583	.931	.833	.916	.000	.500	.250	.688	.850	.250	.696	.917	.750	.905	.923

Peak Hour Analysis From 14:00 to 20:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:00																					
16:00	0	6	13	97	116	0	5	160	3	168	0	6	2	3	11	0	30	115	7	152	447
16:15	0	11	0	60	71	0	2	150	3	155	1	5	2	2	10	0	22	124	1	147	383
16:30	0	4	2	38	44	0	1	142	5	148	0	5	1	1	7	2	22	145	4	173	372
16:45	0	2	0	33	35	0	1	150	3	154	0	5	2	2	9	0	27	96	6	129	327
Total Volume	0	23	15	228	266	0	9	602	14	625	1	21	7	8	37	2	101	480	18	601	1529
% App. Total	0	8.6	5.6	85.7		0	1.4	96.3	2.2		2.7	56.8	18.9	21.6		0.3	16.8	79.9	3		
PHF	.000	.523	.288	.588	.573	.000	.450	.941	.700	.930	.250	.875	.875	.667	.841	.250	.842	.828	.643	.868	.855



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : tmc 2119
 Site Code :
 Start Date : 11/04/2021
 Page No : 1

Weather: Cool & Sunny
 CountCAM 2
 Study Conducted By: Andrea

Groups Printed- Trucks

Start Time	Lever St. Southbound					CSAH 14 Westbound					Lever St. Northbound					CSAH 14 Eastbound					Int. Total	
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total		
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	2
05:30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	2
05:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	4	0	4	4	5
Total	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	6	0	6	6	9
06:00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	2
06:15	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	1	5	0	6	6	9
06:30	0	0	0	1	1	0	1	1	0	2	0	0	0	0	0	0	0	3	0	3	3	6
06:45	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	3	10	0	13	13	17
Total	0	0	0	1	1	0	1	9	0	10	0	0	0	0	0	0	4	19	0	23	23	34
07:00	0	0	0	1	1	0	0	3	0	3	0	0	1	0	1	0	0	8	0	8	8	13
07:15	0	0	0	1	1	0	0	5	0	5	0	0	0	0	0	0	2	7	0	9	9	15
07:30	0	1	0	0	1	0	0	2	1	3	0	0	0	0	0	0	2	8	0	10	10	14
07:45	0	0	0	1	1	0	0	6	1	7	0	0	0	0	0	0	2	5	0	7	7	15
Total	0	1	0	3	4	0	0	16	2	18	0	0	1	0	1	0	6	28	0	34	34	57
08:00	0	1	0	1	2	0	1	4	0	5	0	0	0	0	0	0	1	7	0	8	8	15
08:15	0	0	1	1	2	0	0	4	0	4	0	0	0	0	0	0	1	9	0	10	10	16
08:30	0	0	0	2	2	0	0	4	0	4	0	0	0	0	0	0	4	9	0	13	13	19
08:45	0	0	0	3	3	0	0	4	3	7	0	0	0	0	0	0	3	13	0	16	16	26
Total	0	1	1	7	9	0	1	16	3	20	0	0	0	0	0	0	9	38	0	47	47	76
09:00	0	1	0	2	3	0	0	7	0	7	0	1	1	0	2	0	10	5	0	15	15	27
09:15	0	3	1	20	24	0	0	4	1	5	0	0	1	0	1	0	8	6	0	14	14	44
09:30	0	0	0	1	1	0	0	5	0	5	0	0	0	1	1	0	0	5	0	5	5	12
09:45	0	0	0	1	1	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3	3	7
Total	0	4	1	24	29	0	0	19	1	20	0	1	2	1	4	0	18	19	0	37	37	90
10:00	0	0	0	0	0	0	0	6	0	6	0	0	1	0	1	0	1	3	0	4	4	11
10:15	0	1	0	0	1	0	0	4	0	4	0	0	0	0	0	0	3	4	0	7	7	12
10:30	0	1	0	2	3	0	0	3	0	3	0	0	0	0	0	0	0	2	0	2	2	8
10:45	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Total	0	2	0	2	4	0	0	20	0	20	0	0	1	0	1	0	4	9	0	13	13	38
11:00	0	0	0	0	0	0	0	5	0	5	0	1	0	0	1	0	0	3	0	3	3	9
11:15	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	2	0	2	2	7
11:30	0	1	0	1	2	0	1	7	1	9	0	0	0	0	0	0	1	3	0	4	4	15
11:45	0	2	0	1	3	0	0	3	0	3	0	0	0	0	0	0	3	5	0	8	8	14
Total	0	3	0	2	5	0	1	20	1	22	0	1	0	0	1	0	4	13	0	17	17	45
12:00	0	2	0	0	2	0	0	5	1	6	0	1	0	0	1	0	4	6	1	11	11	20
12:15	0	0	0	3	3	0	0	2	0	2	0	0	1	1	2	0	0	4	0	4	4	11
12:30	0	0	0	1	1	0	0	5	0	5	0	0	0	0	0	0	1	4	0	5	5	11
12:45	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0	1	11	0	12	12	15
Total	0	2	0	4	6	0	1	14	1	16	0	1	1	1	3	0	6	25	1	32	32	57
13:00	0	0	0	2	2	0	2	4	0	6	0	0	0	0	0	0	0	1	0	1	1	9
13:15	0	2	0	0	2	0	0	3	0	3	0	0	0	0	0	0	0	2	0	2	2	7
13:30	0	0	0	2	2	0	0	6	0	6	0	0	0	0	0	0	3	2	0	5	5	13
13:45	0	0	0	1	1	0	0	4	0	4	0	0	0	0	0	0	3	3	0	6	6	11
Total	0	2	0	5	7	0	2	17	0	19	0	0	0	0	0	0	6	8	0	14	14	40



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : tmc 2119
 Site Code :
 Start Date : 11/04/2021
 Page No : 2

Weather: Cool & Sunny
 CountCAM 2
 Study Conducted By: Andrea

Groups Printed- Trucks

Start Time	Lever St. Southbound					CSAH 14 Westbound					Lever St. Northbound					CSAH 14 Eastbound					Int. Total
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	
14:00	0	0	0	0	0	0	0	3	1	4	0	0	0	0	0	0	1	2	0	3	7
14:15	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	0	1	1	0	2	9
14:30	0	1	0	5	6	0	0	7	1	8	0	0	0	0	0	0	4	5	0	9	23
14:45	0	1	0	3	4	0	0	4	0	4	0	0	1	0	1	0	6	3	0	9	18
Total	0	2	0	8	10	0	0	21	2	23	0	0	1	0	1	0	12	11	0	23	57
15:00	0	3	0	2	5	0	0	1	0	1	0	0	0	0	0	0	3	6	0	9	15
15:15	0	0	0	2	2	0	0	4	0	4	0	0	0	0	0	0	1	6	0	7	13
15:30	0	0	0	2	2	0	0	5	0	5	0	0	0	0	0	0	6	5	0	11	18
15:45	0	0	0	2	2	0	0	8	1	9	0	0	1	0	1	0	5	5	1	11	23
Total	0	3	0	8	11	0	0	18	1	19	0	0	1	0	1	0	15	22	1	38	69
16:00	0	0	1	3	4	0	0	4	0	4	0	1	0	0	1	0	5	6	0	11	20
16:15	0	0	0	17	17	0	1	3	0	4	0	0	0	0	0	0	3	4	0	7	28
16:30	0	0	0	1	1	0	0	9	0	9	0	0	0	0	0	0	0	2	0	2	12
16:45	0	0	0	3	3	0	0	1	0	1	0	0	0	0	0	0	0	1	1	2	6
Total	0	0	1	24	25	0	1	17	0	18	0	1	0	0	1	0	8	13	1	22	66
17:00	0	0	0	1	1	0	0	3	0	3	0	0	0	0	0	0	1	3	0	4	8
17:15	0	1	0	0	1	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	3
17:30	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	2	0	2	5
17:45	0	0	0	1	1	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	3
Total	0	1	0	3	4	0	0	6	1	7	0	0	1	1	2	0	1	5	0	6	19
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	2	3
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	6
18:30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	2	0	3	4
18:45	0	0	0	1	1	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3	7
Total	0	0	0	1	1	0	0	4	0	4	0	0	0	1	1	0	1	13	0	14	20
19:00	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	1	0	1	3
19:15	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	6	0	6	9
19:30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
19:45	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	2	0	2	5
Total	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	0	0	10	0	10	19
20:00	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	3	0	3	5
20:15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
20:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	6	0	6	9
Grand Total	0	21	3	92	116	0	7	212	12	231	0	4	8	4	16	0	94	245	3	342	705
Apprch %	0	18.1	2.6	79.3		0	3	91.8	5.2		0	25	50	25		0	27.5	71.6	0.9		
Total %	0	3	0.4	13	16.5	0	1	30.1	1.7	32.8	0	0.6	1.1	0.6	2.3	0	13.3	34.8	0.4	48.5	



Anoka County Highway Department

Traffic Engineering Section
Traffic Volume and Turning Movement Study

Weather: Cool & Sunny
CountCAM 2
Study Conducted By: Andrea

File Name : tmc 2119
Site Code :
Start Date : 11/04/2021
Page No : 3

Start Time	Lever St. Southbound					CSAH 14 Westbound					Lever St. Northbound					CSAH 14 Eastbound					Int. Total
	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	UTrn	Left	Thru	Right	App. Total	
Peak Hour Analysis From 05:00 to 20:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:30																					
08:30	0	0	0	2	2	0	0	4	0	4	0	0	0	0	0	0	4	9	0	13	19
08:45	0	0	0	3	3	0	0	4	3	7	0	0	0	0	0	0	3	13	0	16	26
09:00	0	1	0	2	3	0	0	7	0	7	0	1	1	0	2	0	10	5	0	15	27
09:15	0	3	1	20	24	0	0	4	1	5	0	0	1	0	1	0	8	6	0	14	44
Total Volume	0	4	1	27	32	0	0	19	4	23	0	1	2	0	3	0	25	33	0	58	116
% App. Total	0	12.5	3.1	84.4		0	0	82.6	17.4		0	33.3	66.7	0		0	43.1	56.9	0		
PHF	.000	.333	.250	.338	.333	.000	.000	.679	.333	.821	.000	.250	.500	.000	.375	.000	.625	.635	.000	.906	.659

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2119

Study Date : 05/31/2022

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 14

Number of Lanes : 1

Total Approach Volume: 6,115

Westbound: CSAH 14

Number of Lanes : 1

Total Approach Volume: 5,109

Minor Street Approaches

Northbound: Lever St.

Number of Lanes : 1

Total Approach Volume: 334

Southbound: Lever St.

Number of Lanes : 1

Total Approach Volume: 1,209

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 4 hours, 8 are needed

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

Required volumes reached for 10 hours, 8 are needed

Warrant 1C - Combination of Warrants.....Not Satisfied

Required 1A volumes reached for 6 hours, 8 are needed

Required 1B volumes reached for 13 hours, 8 are needed

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

Number of hours (8) volumes exceed minimum \geq minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (14) volumes exceed minimum \geq 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 2119

Study Date : 05/31/2022

Warrant 1A - Minimum Volumes

Description

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

Summary

Only 4 one hour periods meet minimums.
Warrant is NOT 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				Total	Minor Road		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	599	+	612	=	1211	35	174	Yes
15:15 - 16:15	590	+	616	=	1206	44	162	Yes
07:00 - 08:00	582	+	344	=	926	34	122	Yes
08:30 - 09:30	484	+	310	=	794	43	181	Yes
15:00 - 16:00	548	+	585	=	1133	35	74	No
14:45 - 15:45	524	+	528	=	1052	22	78	No
14:30 - 15:30	502	+	476	=	978	19	83	No
17:15 - 18:15	462	+	450	=	912	23	90	No
14:15 - 15:15	468	+	414	=	882	12	79	No
17:30 - 18:30	430	+	418	=	848	18	67	No
06:45 - 07:45	534	+	305	=	839	27	96	No
14:00 - 15:00	448	+	360	=	808	18	63	No
13:45 - 14:45	415	+	359	=	774	21	64	No
17:45 - 18:45	397	+	372	=	769	16	60	No
08:00 - 09:00	478	+	284	=	762	20	75	No
06:30 - 07:30	473	+	272	=	745	19	73	No
08:15 - 09:15	465	+	279	=	744	29	87	No
13:30 - 14:30	381	+	337	=	718	20	52	No
18:00 - 19:00	362	+	341	=	703	15	52	No
13:15 - 14:15	342	+	342	=	684	22	44	No
06:15 - 07:15	431	+	236	=	667	11	44	No
12:45 - 13:45	351	+	315	=	666	17	52	No
13:00 - 14:00	337	+	327	=	664	18	53	No
12:30 - 13:30	339	+	305	=	644	21	55	No
12:00 - 13:00	357		281		638	25	58	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2119

Study Date : 05/31/2022

Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

10 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 CSAH 14				Total	Minor Road Lever St.		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:30 - 16:30	592	+	636	=	1228	44	213	Yes
16:30 - 17:30	587	+	589	=	1176	36	139	Yes
14:30 - 15:30	502	+	476	=	978	19	83	Yes
07:30 - 08:30	570	+	353	=	923	30	109	Yes
17:30 - 18:30	430	+	418	=	848	18	67	Yes
08:30 - 09:30	484	+	310	=	794	43	181	Yes
06:30 - 07:30	473	+	272	=	745	19	73	Yes
13:30 - 14:30	381	+	337	=	718	20	52	Yes
12:30 - 13:30	339	+	305	=	644	21	55	Yes
11:30 - 12:30	337	+	255	=	592	25	55	Yes
06:15 - 07:15	431	+	236	=	667	11	44	No
11:15 - 12:15	320	+	261	=	581	25	49	No
06:00 - 07:00	372	+	206	=	578	4	27	No
18:30 - 19:30	279	+	282	=	561	8	38	No
11:00 - 12:00	295	+	255	=	550	25	49	No
10:45 - 11:45	276	+	252	=	528	22	51	No
18:45 - 19:45	263	+	257	=	520	8	36	No
10:30 - 11:30	257	+	249	=	506	16	54	No
10:15 - 11:15	244	+	242	=	486	14	54	No
09:30 - 10:30	254	+	231	=	485	21	42	No
10:00 - 11:00	237	+	244	=	481	15	42	No
09:45 - 10:45	232	+	241	=	473	19	41	No
19:00 - 20:00	237	+	222	=	459	7	34	No
05:45 - 06:45	298	+	151	=	449	3	18	No
19:15 - 20:15	229		196		425	6	25	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2119

Study Date : 05/31/2022

Warrant 1C Combination of Warrants

Description

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

Summary

Only 6 hours meet 1A minimums.
13 hours meet 1B minimums.
Warrant is NOT 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

Minor Road Lever St.

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:15 - 17:15	599	+	612	=	1211	35	174	Yes
15:15 - 16:15	590	+	616	=	1206	44	162	Yes
17:15 - 18:15	462	+	450	=	912	23	90	Yes
07:45 - 08:45	523	+	340	=	863	23	95	Yes
06:45 - 07:45	534	+	305	=	839	27	96	Yes
08:45 - 09:45	451	+	290	=	741	43	181	Yes
15:00 - 16:00	548	+	585	=	1133	35	74	No
14:45 - 15:45	524	+	528	=	1052	22	78	No
14:30 - 15:30	502	+	476	=	978	19	83	No
14:15 - 15:15	468	+	414	=	882	12	79	No
14:00 - 15:00	448	+	360	=	808	18	63	No
13:45 - 14:45	415	+	359	=	774	21	64	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:15 - 17:15	599	+	612	=	1211	35	174	Yes
15:15 - 16:15	590	+	616	=	1206	44	162	Yes
07:15 - 08:15	594	+	376	=	970	32	118	Yes
17:15 - 18:15	462	+	450	=	912	23	90	Yes
14:15 - 15:15	468	+	414	=	882	12	79	Yes
08:15 - 09:15	465	+	279	=	744	29	87	Yes
13:15 - 14:15	342	+	342	=	684	22	44	Yes
06:15 - 07:15	431	+	236	=	667	11	44	Yes
12:15 - 13:15	352	+	285	=	637	24	63	Yes
18:15 - 19:15	322	+	311	=	633	13	49	Yes
11:15 - 12:15	320	+	261	=	581	25	49	Yes
09:15 - 10:15	315	+	265	=	580	35	148	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2119

Study Date : 05/31/2022

Warrant 2 - Four Hour Volumes

Description

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

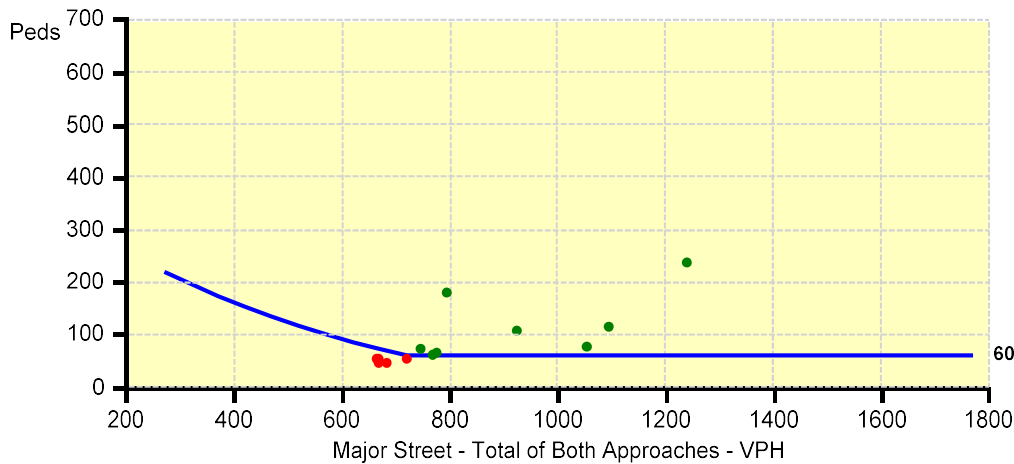
Summary

8 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				Total	Minor Road Lever St.		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	612	+	627	=	1239	44	238	Yes
16:45 - 17:45	528	+	566	=	1094	32	116	Yes
14:45 - 15:45	524	+	528	=	1052	22	78	Yes
07:30 - 08:30	570	+	353	=	923	30	109	Yes
08:30 - 09:30	484	+	310	=	794	43	181	Yes
13:45 - 14:45	415	+	359	=	774	21	64	Yes
17:45 - 18:45	397	+	372	=	769	16	60	Yes
06:30 - 07:30	473	+	272	=	745	19	73	Yes
13:30 - 14:30	381	+	337	=	718	20	52	No
13:15 - 14:15	342	+	342	=	684	22	44	No
06:15 - 07:15	431	+	236	=	667	11	44	No
							52	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2119

Study Date : 05/31/2022

Warrant 3B - Peak Hour Volumes

Description

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

Summary

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				Total	Minor Road Lever St.		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
15:45 - 16:45	612	+	627	=	1239	44	238	Yes
15:30 - 16:30	592	+	636	=	1228	44	213	Yes
16:00 - 17:00	601	+	625	=	1226	37	266	Yes
16:15 - 17:15	599	+	612	=	1211	35	174	Yes
15:15 - 16:15	590	+	616	=	1206	44	162	Yes
16:30 - 17:30	587	+	589	=	1176	36	139	Yes
16:45 - 17:45	528	+	566	=	1094	32	116	Yes
14:45 - 15:45	524	+	528	=	1052	22	78	Yes
17:00 - 18:00	503	+	514	=	1017	28	100	Yes
07:15 - 08:15	594	+	376	=	970	32	118	Yes
07:00 - 08:00	582	+	344	=	926	34	122	Yes
							109	Yes

