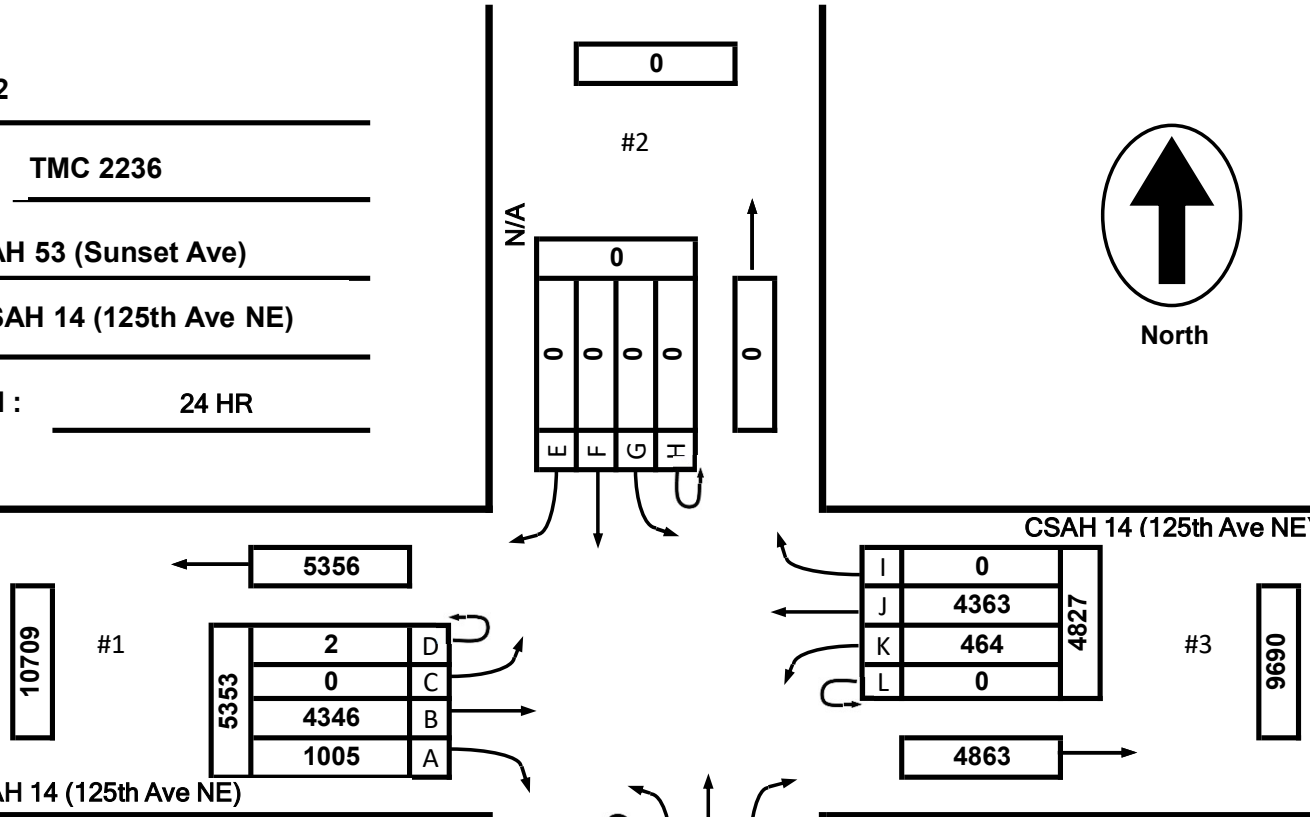
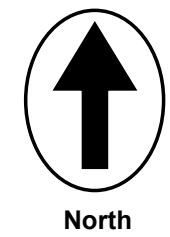


Date : 08/04/22

Count Number : TMC 2236

Location : CSAH 53 (Sunset Ave)
@ CSAH 14 (125th Ave NE)

Collection Period : 24 HR



CSAH 14 (125th Ave NE)

CSAH 14 (125th Ave NE)

CSAH 53 (Sunset Ave)

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

Anoka County Highway Department

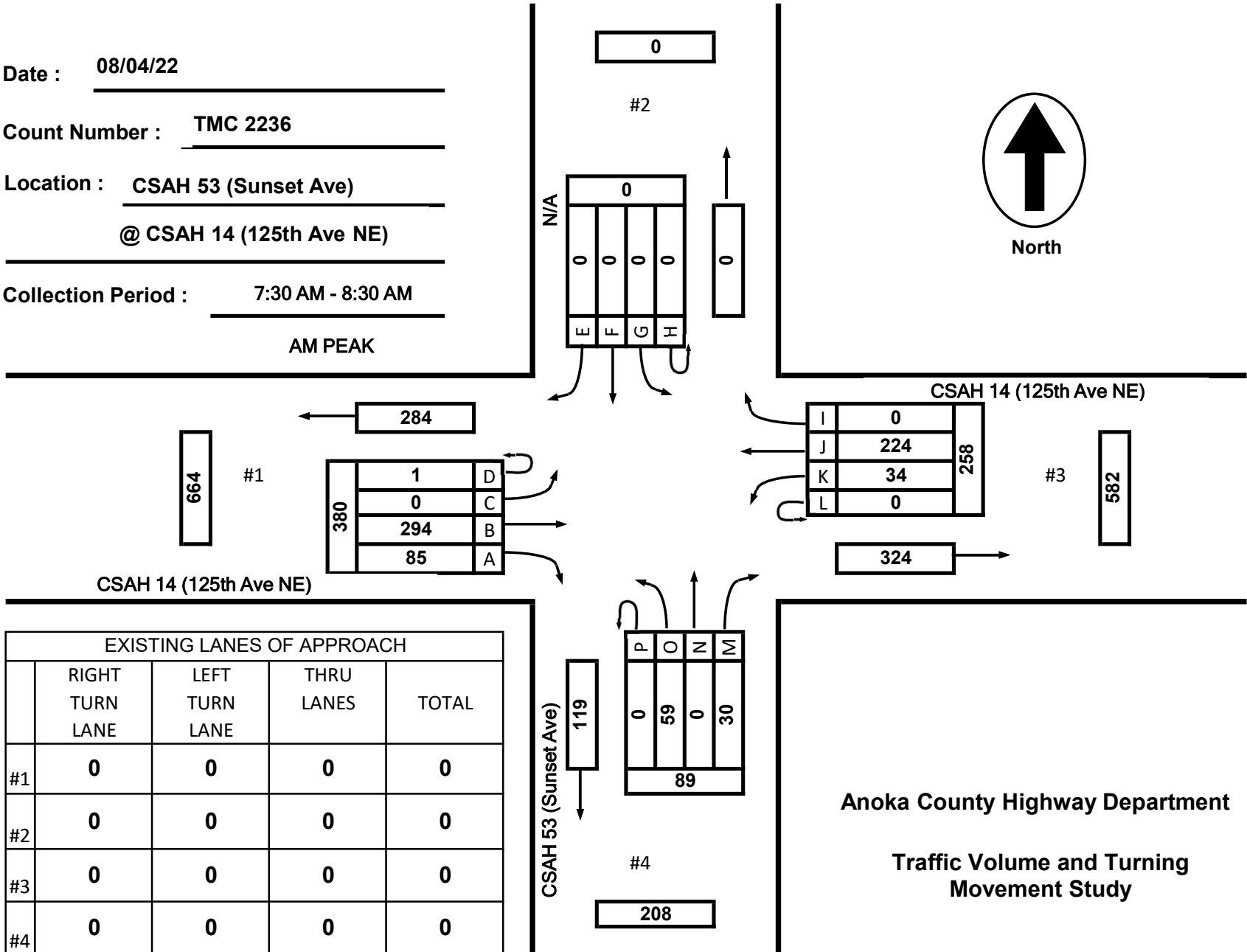
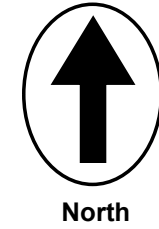
Traffic Volume and Turning Movement Study

Date : 08/04/22

Count Number : TMC 2236

Location : CSAH 53 (Sunset Ave)
@ CSAH 14 (125th Ave NE)

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



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

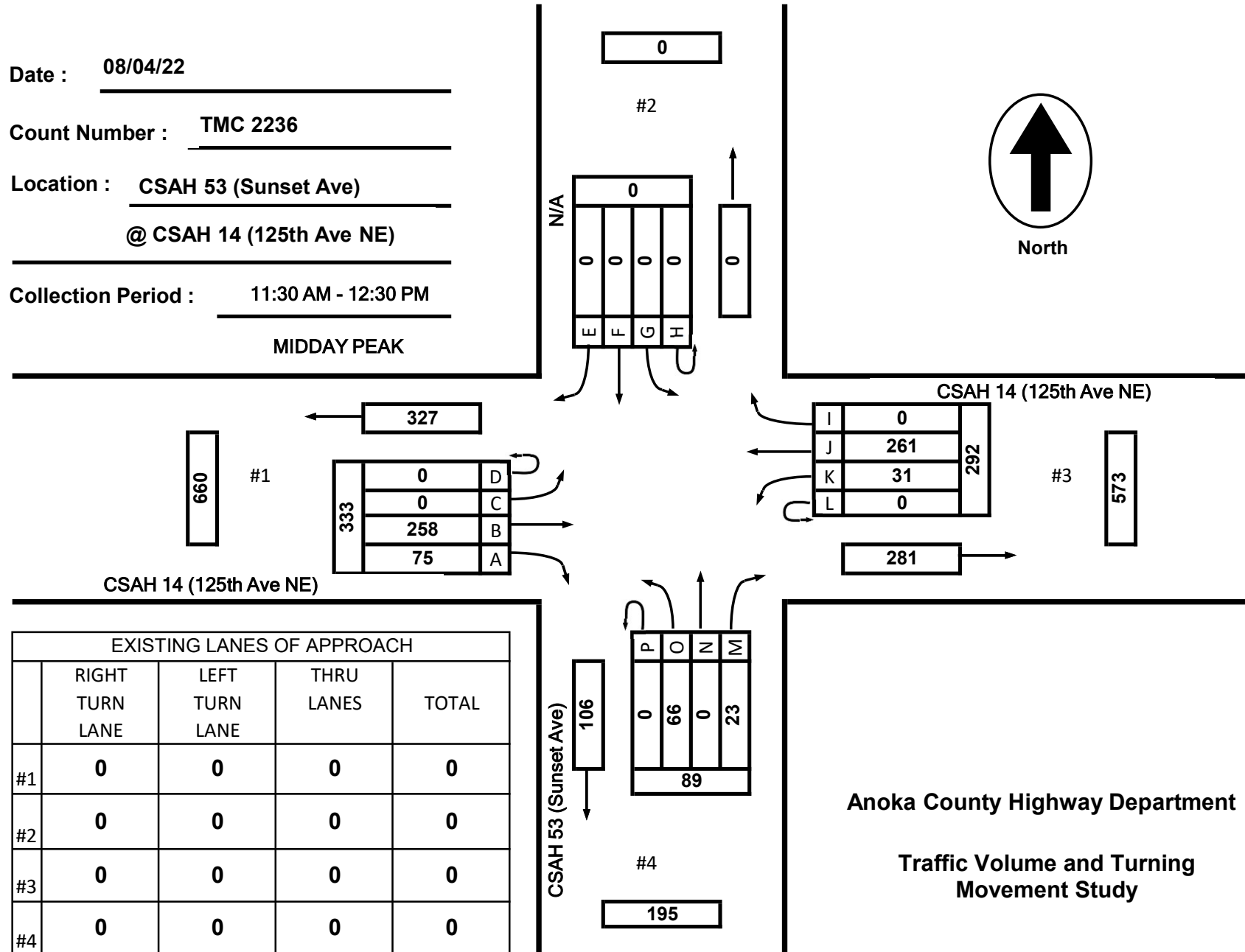
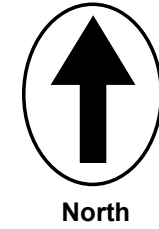
Anoka County Highway Department
Traffic Volume and Turning Movement Study

Date : 08/04/22

Count Number : TMC 2236

Location : CSAH 53 (Sunset Ave)
@ CSAH 14 (125th Ave NE)

Collection Period : 11:30 AM - 12:30 PM
MIDDAY PEAK



CSAH 14 (125th Ave NE)

CSAH 14 (125th Ave NE)

CSAH 53 (Sunset Ave)

Anoka County Highway Department

Traffic Volume and Turning
Movement Study

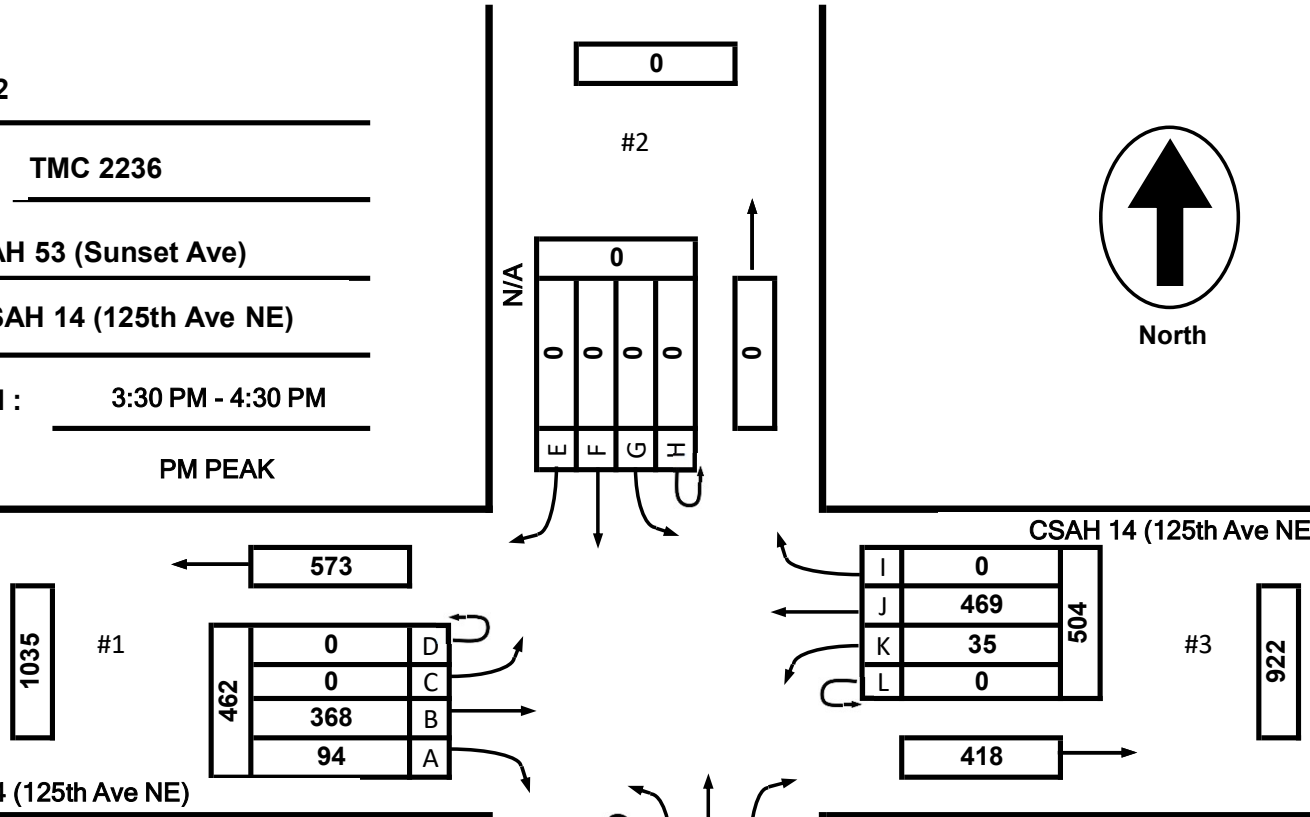
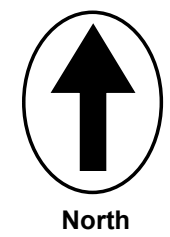
EXISTING LANES OF APPROACH				
	RIGHT TURN LANE	LEFT TURN LANE	THRU LANES	TOTAL
#1	0	0	0	0
#2	0	0	0	0
#3	0	0	0	0
#4	0	0	0	0

Date : 08/04/22

Count Number : TMC 2236

Location : CSAH 53 (Sunset Ave)
@ CSAH 14 (125th Ave NE)

Collection Period : 3:30 PM - 4:30 PM
PM PEAK



CSAH 14 (125th Ave NE)

CSAH 53 (Sunset Ave)

CSAH 14 (125th Ave NE)

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

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 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 1

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	N/A Southbound						CSAH 14 (125th Ave NE) Westbound						CSAH 53 (Sunset Ave) Northbound						CSAH 14 (125th Ave NE) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
00:00	0	0	0	0	0	0	0	7	0	0	0	7	1	0	1	0	0	2	1	5	0	0	0	6	0	15	15
00:15	0	0	0	0	0	0	0	6	1	0	0	7	0	0	0	0	0	0	1	10	0	0	0	11	0	18	18
00:30	0	0	0	0	0	0	0	3	0	0	0	3	0	0	1	0	0	1	0	4	0	0	0	4	0	8	8
00:45	0	0	0	0	0	0	0	2	0	0	0	2	1	0	1	0	0	2	1	0	0	0	0	1	0	5	5
Total	0	0	0	0	0	0	0	18	1	0	0	19	2	0	3	0	0	5	3	19	0	0	0	22	0	46	46
01:00	0	0	0	0	0	0	0	5	1	0	0	6	0	0	0	0	0	0	1	4	0	0	0	5	0	11	11
01:15	0	0	0	0	0	0	0	4	1	0	0	5	0	0	0	0	0	0	2	4	0	0	0	6	0	11	11
01:30	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	4	4
01:45	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	0	4	4
Total	0	0	0	0	0	0	0	13	2	0	0	15	0	0	0	0	0	0	3	12	0	0	0	15	0	30	30
02:00	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	4	4
02:15	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	2	0	0	0	2	0	7	7
02:30	0	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0	1	0	1	0	0	0	1	0	4	4
02:45	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	3	3
Total	0	0	0	0	0	0	0	11	0	0	0	11	0	0	1	0	0	1	0	6	0	0	0	6	0	18	18
03:00	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	2	2
03:15	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	0	3	3
03:30	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	1	4	0	0	0	5	0	7	7
03:45	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	0	0	7	0	0	0	7	0	12	12
Total	0	0	0	0	0	0	0	9	0	0	0	9	0	0	0	0	0	0	1	14	0	0	0	15	0	24	24
04:00	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	5	0	0	0	5	0	8	8
04:15	0	0	0	0	0	0	0	6	0	0	0	6	0	0	2	0	0	2	3	7	0	0	0	10	0	18	18
04:30	0	0	0	0	0	0	0	8	1	0	0	9	0	0	0	0	0	0	2	9	0	0	0	11	0	20	20
04:45	0	0	0	0	0	0	0	7	2	0	0	9	0	0	3	0	0	3	1	18	0	0	0	19	0	31	31
Total	0	0	0	0	0	0	0	24	3	0	0	27	0	0	5	0	0	5	6	39	0	0	0	45	0	77	77
05:00	0	0	0	0	0	0	0	10	2	0	0	12	1	0	1	0	0	2	4	16	0	0	0	20	0	34	34
05:15	0	0	0	0	0	0	0	10	0	0	0	10	2	0	6	0	0	8	5	23	0	0	0	28	0	46	46
05:30	0	0	0	0	0	0	0	31	3	0	0	34	3	0	2	0	0	5	4	41	0	0	0	45	0	84	84
05:45	0	0	0	0	0	0	0	24	0	0	0	24	6	0	1	0	0	7	8	45	0	0	0	53	0	84	84
Total	0	0	0	0	0	0	0	75	5	0	0	80	12	0	10	0	0	22	21	125	0	0	0	146	0	248	248



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 2

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	N/A						CSAH 14 (125th Ave NE)						CSAH 53 (Sunset Ave)						CSAH 14 (125th Ave NE)						Exclu. Total	Inclu. Total	Int. Total
	Southbound						Westbound						Northbound						Eastbound								
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
06:00	0	0	0	0	0	0	0	39	1	0	0	40	4	0	8	0	0	12	8	45	0	0	0	53	0	105	105
06:15	0	0	0	0	0	0	0	35	3	0	0	38	1	0	7	0	0	8	7	50	0	0	0	57	0	103	103
06:30	0	0	0	0	0	0	0	36	9	0	0	45	6	0	7	0	0	13	15	76	0	0	0	91	0	149	149
06:45	0	0	0	0	0	0	0	42	5	0	0	47	7	0	11	0	0	18	16	80	0	0	0	96	0	161	161
Total	0	0	0	0	0	0	0	152	18	0	0	170	18	0	33	0	0	51	46	251	0	0	0	297	0	518	518
07:00	0	0	0	0	0	0	0	43	8	0	0	51	3	0	8	0	0	11	9	71	0	0	0	80	0	142	142
07:15	0	0	0	0	0	0	0	58	0	0	0	58	1	0	13	0	0	14	10	59	0	0	0	69	0	141	141
07:30	0	0	0	0	0	0	0	71	5	0	0	76	6	0	18	0	0	24	19	93	0	0	0	112	0	212	212
07:45	0	0	0	0	0	0	0	56	10	0	0	66	8	0	13	0	0	21	30	75	0	0	0	105	0	192	192
Total	0	0	0	0	0	0	0	228	23	0	0	251	18	0	52	0	0	70	68	298	0	0	0	366	0	687	687
08:00	0	0	0	0	0	0	0	54	12	0	0	66	6	0	12	0	0	18	12	66	0	1	0	79	0	163	163
08:15	0	0	0	0	0	0	0	43	7	0	0	50	10	0	16	0	0	26	24	60	0	0	0	84	0	160	160
08:30	0	0	0	0	0	0	0	65	8	0	0	73	12	0	18	0	0	30	13	74	0	0	0	87	0	190	190
08:45	0	0	0	0	0	0	0	56	6	0	0	62	9	0	13	0	0	22	19	56	0	0	0	75	0	159	159
Total	0	0	0	0	0	0	0	218	33	0	0	251	37	0	59	0	0	96	68	256	0	1	0	325	0	672	672
09:00	0	0	0	0	0	0	0	68	10	0	0	78	8	0	13	0	0	21	15	54	0	0	0	69	0	168	168
09:15	0	0	0	0	0	0	0	63	8	0	0	71	1	0	13	0	0	14	11	68	0	0	0	79	0	164	164
09:30	0	0	0	0	0	0	0	52	5	0	0	57	3	0	15	0	0	18	12	56	0	0	0	68	0	143	143
09:45	0	0	0	0	0	0	0	40	6	0	0	46	3	0	8	0	0	11	10	63	0	0	0	73	0	130	130
Total	0	0	0	0	0	0	0	223	29	0	0	252	15	0	49	0	0	64	48	241	0	0	0	289	0	605	605
10:00	0	0	0	0	0	0	0	45	8	0	0	53	10	0	17	0	0	27	11	34	0	0	0	45	0	125	125
10:15	0	0	0	0	0	0	0	47	9	0	0	56	3	0	14	0	0	17	13	74	0	0	0	87	0	160	160
10:30	0	0	0	0	0	0	0	50	3	0	0	53	11	0	15	0	0	26	11	57	0	0	0	68	0	147	147
10:45	0	0	0	0	0	0	0	61	3	0	0	64	9	0	12	0	0	21	12	64	0	0	0	76	0	161	161
Total	0	0	0	0	0	0	0	203	23	0	0	226	33	0	58	0	0	91	47	229	0	0	0	276	0	593	593
11:00	0	0	0	0	0	0	0	59	2	0	0	61	8	0	11	0	0	19	8	49	0	0	0	57	0	137	137
11:15	0	0	0	0	0	0	0	61	7	0	0	68	10	0	13	0	0	23	14	49	0	0	0	63	0	154	154
11:30	0	0	0	0	0	0	0	77	10	0	0	87	4	0	14	0	0	18	14	60	0	0	0	74	0	179	179
11:45	0	0	0	0	0	0	0	58	11	0	0	69	6	0	18	0	0	24	16	67	0	0	0	83	0	176	176
Total	0	0	0	0	0	0	0	255	30	0	0	285	28	0	56	0	0	84	52	225	0	0	0	277	0	646	646
12:00	0	0	0	0	0	0	0	51	4	0	0	55	7	0	14	0	0	21	17	65	0	0	0	82	0	158	158
12:15	0	0	0	0	0	0	0	75	6	0	0	81	6	0	20	0	0	26	28	66	0	0	0	94	0	201	201
12:30	0	0	0	0	0	0	0	58	4	0	0	62	9	0	17	0	0	26	10	59	0	0	0	69	0	157	157



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 3

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	N/A Southbound						CSAH 14 (125th Ave NE) Westbound						CSAH 53 (Sunset Ave) Northbound						CSAH 14 (125th Ave NE) Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
12:45	0	0	0	0	0	0	0	74	7	0	0	81	3	0	18	0	0	21	19	68	0	0	0	87	0	189	189
Total	0	0	0	0	0	0	0	258	21	0	0	279	25	0	69	0	0	94	74	258	0	0	0	332	0	705	705
13:00	0	0	0	0	0	0	0	70	3	0	0	73	10	0	15	0	0	25	9	52	0	0	0	61	0	159	159
13:15	0	0	0	0	0	0	0	66	2	0	0	68	11	0	13	0	0	24	10	58	0	0	0	68	0	160	160
13:30	0	0	0	0	0	0	0	65	2	0	0	67	11	0	18	0	0	29	15	61	0	0	0	76	0	172	172
13:45	0	0	0	0	0	0	0	78	5	0	0	83	4	0	16	0	0	20	7	65	0	0	0	72	0	175	175
Total	0	0	0	0	0	0	0	279	12	0	0	291	36	0	62	0	0	98	41	236	0	0	0	277	0	666	666
14:00	0	0	0	0	0	0	0	62	7	0	0	69	5	0	12	0	0	17	16	59	0	0	0	75	0	161	161
14:15	0	0	0	0	0	0	0	61	5	0	0	66	10	0	20	0	0	30	14	71	0	0	0	85	0	181	181
14:30	0	0	0	0	0	0	0	79	6	0	0	85	11	0	14	0	0	25	11	77	0	0	0	88	0	198	198
14:45	0	0	0	0	0	0	0	78	5	0	0	83	4	0	12	0	0	16	15	68	0	1	0	84	0	183	183
Total	0	0	0	0	0	0	0	280	23	0	0	303	30	0	58	0	0	88	56	275	0	1	0	332	0	723	723
15:00	0	0	0	0	0	0	0	105	12	0	0	117	14	0	24	0	0	38	8	74	0	0	0	82	0	237	237
15:15	0	0	0	0	0	0	0	100	9	0	0	109	5	0	13	0	0	18	21	75	0	0	0	96	0	223	223
15:30	0	0	0	0	0	0	0	101	3	0	0	104	15	0	26	0	0	41	28	93	0	0	0	121	0	266	266
15:45	0	0	0	0	0	0	0	115	11	0	0	126	10	0	25	0	0	35	24	101	0	0	0	125	0	286	286
Total	0	0	0	0	0	0	0	421	35	0	0	456	44	0	88	0	0	132	81	343	0	0	0	424	0	1012	1012
16:00	0	0	0	0	0	0	0	108	9	0	0	117	9	0	24	0	0	33	14	75	0	0	0	89	0	239	239
16:15	0	0	0	0	0	0	0	145	12	0	0	157	16	0	29	0	0	45	28	99	0	0	0	127	0	329	329
16:30	0	0	0	0	0	0	0	94	11	0	0	105	9	0	28	0	0	37	22	102	0	0	0	124	0	266	266
16:45	0	0	0	0	0	0	0	103	12	0	0	115	13	0	27	0	0	40	22	103	0	0	0	125	0	280	280
Total	0	0	0	0	0	0	0	450	44	0	0	494	47	0	108	0	0	155	86	379	0	0	0	465	0	1114	1114
17:00	0	0	0	0	0	0	0	103	14	0	0	117	12	0	27	0	0	39	24	65	0	0	0	89	0	245	245
17:15	0	0	0	0	0	0	0	108	12	0	0	120	15	0	23	0	0	38	22	92	0	0	0	114	0	272	272
17:30	0	0	0	0	0	0	0	90	12	0	0	102	14	0	27	0	0	41	28	96	0	0	0	124	0	267	267
17:45	0	0	0	0	0	0	0	69	10	0	0	79	14	0	19	0	0	33	15	91	0	0	0	106	0	218	218
Total	0	0	0	0	0	0	0	370	48	0	0	418	55	0	96	0	0	151	89	344	0	0	0	433	0	1002	1002
18:00	0	0	0	0	0	0	0	61	10	0	0	71	14	0	17	0	0	31	12	76	0	0	0	88	0	190	190
18:15	0	0	0	0	0	0	0	64	5	0	0	69	13	0	17	0	0	30	19	69	0	0	0	88	0	187	187
18:30	0	0	0	0	0	0	0	48	4	0	0	52	6	0	17	0	0	23	13	58	0	0	0	71	0	146	146
18:45	0	0	0	0	0	0	0	39	9	0	0	48	5	0	5	0	0	10	15	60	0	0	0	75	0	133	133
Total	0	0	0	0	0	0	0	212	28	0	0	240	38	0	56	0	0	94	59	263	0	0	0	322	0	656	656



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 4

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	N/A						CSAH 14 (125th Ave NE)						CSAH 53 (Sunset Ave)						CSAH 14 (125th Ave NE)						Exclu. Total	Inclu. Total	Int. Total
	Southbound						Westbound						Northbound						Eastbound								
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
19:00	0	0	0	0	0	0	0	54	9	0	0	63	6	0	7	0	0	13	12	53	0	0	0	65	0	141	141
19:15	0	0	0	0	0	0	0	42	6	0	0	48	9	0	10	0	0	19	17	60	0	0	0	77	0	144	144
19:30	0	0	0	0	0	0	0	37	9	0	0	46	10	0	12	0	0	22	5	50	0	0	0	55	0	123	123
19:45	0	0	0	0	0	0	0	54	9	0	0	63	12	0	6	0	0	18	16	28	0	0	0	44	0	125	125
Total	0	0	0	0	0	0	0	187	33	0	0	220	37	0	35	0	0	72	50	191	0	0	0	241	0	533	533
20:00	0	0	0	0	0	0	0	38	6	0	0	44	10	0	11	0	0	21	13	47	0	0	0	60	0	125	125
20:15	0	0	0	0	0	0	0	51	7	0	0	58	2	0	11	0	0	13	17	25	0	0	0	42	0	113	113
20:30	0	0	0	0	0	0	0	45	7	0	0	52	2	0	8	0	0	10	13	45	0	0	0	58	0	120	120
20:45	0	0	0	0	0	0	0	59	8	0	0	67	7	0	9	0	0	16	10	38	0	0	0	48	0	131	131
Total	0	0	0	0	0	0	0	193	28	0	0	221	21	0	39	0	0	60	53	155	0	0	0	208	0	489	489
21:00	0	0	0	0	0	0	0	51	5	0	0	56	4	0	10	0	0	14	8	26	0	0	0	34	0	104	104
21:15	0	0	0	0	0	0	0	34	1	0	0	35	3	0	5	0	0	8	9	32	0	0	0	41	0	84	84
21:30	0	0	0	0	0	0	0	36	4	0	0	40	2	0	5	0	0	7	10	22	0	0	0	32	0	79	79
21:45	0	0	0	0	0	0	0	30	1	0	0	31	2	0	7	0	0	9	8	20	0	0	0	28	0	68	68
Total	0	0	0	0	0	0	0	151	11	0	0	162	11	0	27	0	0	38	35	100	0	0	0	135	0	335	335
22:00	0	0	0	0	0	0	0	34	0	0	0	34	2	0	2	0	0	4	2	15	0	0	0	17	0	55	55
22:15	0	0	0	0	0	0	0	21	1	0	0	22	2	0	7	0	0	9	5	21	0	0	0	26	0	57	57
22:30	0	0	0	0	0	0	0	15	3	0	0	18	1	0	5	0	0	6	2	14	0	0	0	16	0	40	40
22:45	0	0	0	0	0	0	0	14	3	0	0	17	2	0	2	0	0	4	2	9	0	0	0	11	0	32	32
Total	0	0	0	0	0	0	0	84	7	0	0	91	7	0	16	0	0	23	11	59	0	0	0	70	0	184	184
23:00	0	0	0	0	0	0	0	17	3	0	0	20	2	0	3	0	0	5	2	9	0	0	0	11	0	36	36
23:15	0	0	0	0	0	0	0	15	2	0	0	17	1	0	0	0	0	1	3	4	0	0	0	7	0	25	25
23:30	0	0	0	0	0	0	0	4	0	0	0	4	0	0	1	0	0	1	1	11	0	0	0	12	0	17	17
23:45	0	0	0	0	0	0	0	13	2	0	0	15	0	0	7	0	0	7	1	4	0	0	0	5	0	27	27
Total	0	0	0	0	0	0	0	49	7	0	0	56	3	0	11	0	0	14	7	28	0	0	0	35	0	105	105
Grand Total	0	0	0	0	0	0	0	4363	464	0	0	4827	517	0	991	0	0	1508	1005	4346	0	2	0	5353	0	11688	11688
Apprch %	0	0	0	0	0	0	0	90.4	9.6	0	0	90.4	34.3	0	65.7	0	0	65.7	18.8	81.2	0	0	0	81.2	0	100	100
Total %	0	0	0	0	0	0	0	37.3	4	0	0	41.3	4.4	0	8.5	0	0	12.9	8.6	37.2	0	0	0	45.8	0	100	100
Cars +	0	0	0	0	0	0	0	4173	453	0	0	4626	510	0	963	0	0	1473	970	4167	0	1	0	5138	0	0	11237
% Cars +	0	0	0	0	0	0	0	95.6	97.6	0	0	95.8	98.6	0	97.2	0	0	97.7	96.5	95.9	0	50	0	96	0	0	96.1
Trucks	0	0	0	0	0	0	0	190	11	0	0	201	7	0	28	0	0	35	35	179	0	1	0	215	0	0	451
% Trucks	0	0	0	0	0	0	0	4.4	2.4	0	0	4.2	1.4	0	2.8	0	0	2.3	3.5	4.1	0	50	0	4	0	0	3.9



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 5

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Start Time	N/A Southbound					CSAH 14 (125th Ave NE) Westbound					CSAH 53 (Sunset Ave) Northbound					CSAH 14 (125th Ave NE) Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
Peak Hour Analysis From 00:00 to 09:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30																					
07:30	0	0	0	0	0	0	71	5	0	76	6	0	18	0	24	19	93	0	0	112	212
07:45	0	0	0	0	0	0	56	10	0	66	8	0	13	0	21	30	75	0	0	105	192
08:00	0	0	0	0	0	0	54	12	0	66	6	0	12	0	18	12	66	0	1	79	163
08:15	0	0	0	0	0	0	43	7	0	50	10	0	16	0	26	24	60	0	0	84	160
Total Volume	0	0	0	0	0	0	224	34	0	258	30	0	59	0	89	85	294	0	1	380	727
% App. Total	0	0	0	0	0	0	86.8	13.2	0		33.7	0	66.3	0		22.4	77.4	0	0.3		
PHF	.000	.000	.000	.000	.000	.000	.789	.708	.000	.849	.750	.000	.819	.000	.856	.708	.790	.000	.250	.848	.857

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:30																					
11:30	0	0	0	0	0	0	77	10	0	87	4	0	14	0	18	14	60	0	0	74	179
11:45	0	0	0	0	0	0	58	11	0	69	6	0	18	0	24	16	67	0	0	83	176
12:00	0	0	0	0	0	0	51	4	0	55	7	0	14	0	21	17	65	0	0	82	158
12:15	0	0	0	0	0	0	75	6	0	81	6	0	20	0	26	28	66	0	0	94	201
Total Volume	0	0	0	0	0	0	261	31	0	292	23	0	66	0	89	75	258	0	0	333	714
% App. Total	0	0	0	0	0	0	89.4	10.6	0		25.8	0	74.2	0		22.5	77.5	0	0		
PHF	.000	.000	.000	.000	.000	.000	.847	.705	.000	.839	.821	.000	.825	.000	.856	.670	.963	.000	.000	.886	.888

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 15:30																					
15:30	0	0	0	0	0	0	101	3	0	104	15	0	26	0	41	28	93	0	0	121	266
15:45	0	0	0	0	0	0	115	11	0	126	10	0	25	0	35	24	101	0	0	125	286
16:00	0	0	0	0	0	0	108	9	0	117	9	0	24	0	33	14	75	0	0	89	239
16:15	0	0	0	0	0	0	145	12	0	157	16	0	29	0	45	28	99	0	0	127	329
Total Volume	0	0	0	0	0	0	469	35	0	504	50	0	104	0	154	94	368	0	0	462	1120
% App. Total	0	0	0	0	0	0	93.1	6.9	0		32.5	0	67.5	0		20.3	79.7	0	0		
PHF	.000	.000	.000	.000	.000	.000	.809	.729	.000	.803	.781	.000	.897	.000	.856	.839	.911	.000	.000	.909	.851



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 1

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	N/A Southbound					CSAH 14 (125th Ave NE) Westbound					CSAH 53 (Sunset Ave) Northbound					CSAH 14 (125th Ave NE) Eastbound					Int. Total	
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total		
00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2
05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
06:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	4
06:30	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	2	0	0	0	2	4
06:45	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	1	4	0	0	0	5	7
Total	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	2	10	0	0	0	12	16
07:00	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	7	0	0	0	7	10
07:15	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	3	0	0	0	0	3	9
07:30	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	0	9	0	0	0	9	15
07:45	0	0	0	0	0	0	6	2	0	8	0	0	2	0	2	0	7	0	0	0	7	17
Total	0	0	0	0	0	0	19	2	0	21	0	0	4	0	4	3	23	0	0	0	26	51
08:00	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	3	0	1	0	4	10
08:15	0	0	0	0	0	0	3	0	0	3	0	0	1	0	1	2	2	0	0	0	4	8
08:30	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	4	0	0	0	4	8
08:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	0	2	3
Total	0	0	0	0	0	0	13	1	0	14	0	0	1	0	1	3	10	0	1	0	14	29
09:00	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	2	7	0	0	0	9	12



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 2

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	N/A					CSAH 14 (125th Ave NE)					CSAH 53 (Sunset Ave)					CSAH 14 (125th Ave NE)					Int. Total
	Southbound					Westbound					Northbound					Eastbound					
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
09:15	0	0	0	0	0	0	5	1	0	6	0	0	0	0	0	0	4	0	0	4	10
09:30	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	1	5	0	0	6	12
09:45	0	0	0	0	0	0	2	0	0	2	0	0	2	0	2	1	2	0	0	3	7
Total	0	0	0	0	0	0	14	2	0	16	0	0	3	0	3	4	18	0	0	22	41
10:00	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	5
10:15	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	8
10:30	0	0	0	0	0	0	7	0	0	7	0	0	1	0	1	0	2	0	0	2	10
10:45	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	0	5	0	0	5	9
Total	0	0	0	0	0	0	15	0	0	15	1	0	1	0	2	0	15	0	0	15	32
11:00	0	0	0	0	0	0	8	0	0	8	1	0	1	0	2	0	5	0	0	5	15
11:15	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	4	0	0	4	8
11:30	0	0	0	0	0	0	5	0	0	5	0	0	2	0	2	1	3	0	0	4	11
11:45	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	2	7	0	0	9	13
Total	0	0	0	0	0	0	20	1	0	21	1	0	3	0	4	3	19	0	0	22	47
12:00	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	1	2	0	0	3	6
12:15	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	2	0	0	2	8
12:30	0	0	0	0	0	0	4	0	0	4	0	0	2	0	2	0	5	0	0	5	11
12:45	0	0	0	0	0	0	4	0	0	4	0	0	2	0	2	0	5	0	0	5	11
Total	0	0	0	0	0	0	16	0	0	16	0	0	5	0	5	1	14	0	0	15	36
13:00	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	2	0	0	2	6
13:15	0	0	0	0	0	0	6	0	0	6	0	0	1	0	1	1	5	0	0	6	13
13:30	0	0	0	0	0	0	7	0	0	7	1	0	1	0	2	3	2	0	0	5	14
13:45	0	0	0	0	0	0	5	0	0	5	0	0	3	0	3	0	6	0	0	6	14
Total	0	0	0	0	0	0	22	0	0	22	1	0	5	0	6	4	15	0	0	19	47
14:00	0	0	0	0	0	0	2	0	0	2	0	0	2	0	2	2	6	0	0	8	12
14:15	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	1	6	0	0	7	12
14:30	0	0	0	0	0	0	7	0	0	7	1	0	0	0	1	0	2	0	0	2	10
14:45	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3	3	0	0	6	9
Total	0	0	0	0	0	0	16	0	0	16	1	0	3	0	4	6	17	0	0	23	43
15:00	0	0	0	0	0	0	7	0	0	7	2	0	1	0	3	0	5	0	0	5	15
15:15	0	0	0	0	0	0	7	0	0	7	0	0	1	0	1	0	3	0	0	3	11
15:30	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	1	6	0	0	7	11
15:45	0	0	0	0	0	0	8	1	0	9	0	0	0	0	0	1	5	0	0	6	15
Total	0	0	0	0	0	0	26	1	0	27	2	0	2	0	4	2	19	0	0	21	52
16:00	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	2	0	0	2	7
16:15	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	1	1	0	0	2	5
16:30	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	1	3	0	0	4	7
16:45	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
Total	0	0	0	0	0	0	11	0	0	11	0	0	1	0	1	2	7	0	0	9	21
17:00	0	0	0	0	0	0	3	2	0	5	0	0	0	0	0	1	1	0	0	2	7
17:15	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	5
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	0	3	0	0	3	6
Total	0	0	0	0	0	0	6	3	0	9	1	0	0	0	1	1	7	0	0	8	18
18:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	3
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
18:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	2	0	0	4	5



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2236-t
 Site Code :
 Start Date : 08/04/2022
 Page No : 3

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	N/A Southbound					CSAH 14 (125th Ave NE) Westbound					CSAH 53 (Sunset Ave) Northbound					CSAH 14 (125th Ave NE) Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
19:30	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
19:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	3
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	2
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	2
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Grand Total	0	0	0	0	0	0	190	11	0	201	7	0	28	0	35	35	179	0	1	215	451
Apprch %	0	0	0	0	0	0	94.5	5.5	0		20	0	80	0		16.3	83.3	0	0.5		
Total %	0	0	0	0	0	0	42.1	2.4	0	44.6	1.6	0	6.2	0	7.8	7.8	39.7	0	0.2	47.7	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/04/2022

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 14 (125th Ave NE)

Number of Lanes : 1

Total Approach Volume: 5,353

Westbound: CSAH 14 (125th Ave NE)

Number of Lanes : 1

Total Approach Volume: 4,827

Minor Street Approaches

Northbound: CSAH 53 (Sunset Ave)

Number of Lanes : 1

Total Approach Volume: 1,508

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 11 hours, 8 are needed

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

Required 1A volumes reached for 11 hours, 8 are needed

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

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

Number of hours (8) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (14) 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:

Study Date : 08/04/2022

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	
	CSAH 14 (125th Ave NE)					CSAH 53 (Sunset Ave)		
16:15 - 17:15	465	+	494	=	959	161	0	Yes
15:15 - 16:15	431	+	456	=	887	127	0	Yes
17:15 - 18:15	432	+	372	=	804	143	0	Yes
14:15 - 15:15	339	+	351	=	690	109	0	Yes
07:30 - 08:30	380	+	258	=	638	89	0	No
14:00 - 15:00	332	+	303	=	635	88	0	No
07:15 - 08:15	365	+	266	=	631	77	0	No
11:30 - 12:30	333	+	292	=	625	89	0	No
13:45 - 14:45	320	+	303	=	623	92	0	No
07:00 - 08:00	366	+	251	=	617	70	0	No
12:00 - 13:00	332	+	279	=	611	94	0	No
07:45 - 08:45	355	+	255	=	610	95	0	No
12:15 - 13:15	311	+	297	=	608	98	0	No
11:45 - 12:45	328	+	267	=	595	97	0	No
08:30 - 09:30	310	+	284	=	594	87	0	No
13:30 - 14:30	308	+	285	=	593	96	0	No
06:45 - 07:45	357	+	232	=	589	67	0	No
11:15 - 12:15	302	+	279	=	581	86	0	No
12:45 - 13:45	292	+	289	=	581	99	0	No
08:15 - 09:15	315	+	263	=	578	99	0	No
13:15 - 14:15	291	+	287	=	578	90	0	No
08:00 - 09:00	325	+	251	=	576	96	0	No
12:30 - 13:30	285	+	284	=	569	96	0	No
13:00 - 14:00	277	+	291	=	568	98	0	No
11:00 - 12:00	277		285		562	84	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/04/2022

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

11 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)					CSAH 53 (Sunset Ave)		
15:45 - 16:45	465	+	505	=	970	150	0	Yes
16:45 - 17:45	452	+	454	=	906	158	0	Yes
14:45 - 15:45	383	+	413	=	796	113	0	Yes
07:30 - 08:30	380	+	258	=	638	89	0	Yes
17:45 - 18:45	353	+	271	=	624	117	0	Yes
13:45 - 14:45	320	+	303	=	623	92	0	Yes
11:45 - 12:45	328	+	267	=	595	97	0	Yes
08:30 - 09:30	310	+	284	=	594	87	0	Yes
12:45 - 13:45	292	+	289	=	581	99	0	Yes
10:45 - 11:45	270	+	280	=	550	81	0	Yes
06:30 - 07:30	336	+	201	=	537	56	0	Yes
10:15 - 11:15	288	+	234	=	522	83	0	No
10:30 - 11:30	264	+	246	=	510	89	0	No
06:15 - 07:15	324	+	181	=	505	50	0	No
10:00 - 11:00	276	+	226	=	502	91	0	No
09:30 - 10:30	273	+	212	=	485	73	0	No
09:45 - 10:45	273	+	208	=	481	81	0	No
18:45 - 19:45	272	+	205	=	477	64	0	No
06:00 - 07:00	297	+	170	=	467	51	0	No
19:00 - 20:00	241	+	220	=	461	72	0	No
19:15 - 20:15	236	+	201	=	437	80	0	No
20:00 - 21:00	208	+	221	=	429	60	0	No
19:45 - 20:45	204	+	217	=	421	62	0	No
20:15 - 21:15	182	+	233	=	415	53	0	No
19:30 - 20:30	201		211		412	74	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/04/2022

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

11 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 CSAH 53 (Sunset Ave)

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:00 - 17:00	465	+	494	=	959	155	0	Yes
15:00 - 16:00	424	+	456	=	880	132	0	Yes
17:00 - 18:00	433	+	418	=	851	151	0	Yes
07:30 - 08:30	380	+	258	=	638	89	0	Yes
14:00 - 15:00	332	+	303	=	635	88	0	Yes
12:00 - 13:00	332	+	279	=	611	94	0	Yes
08:30 - 09:30	310	+	284	=	594	87	0	Yes
13:00 - 14:00	277	+	291	=	568	98	0	Yes
18:00 - 19:00	322	+	240	=	562	94	0	Yes
11:00 - 12:00	277	+	285	=	562	84	0	Yes
10:00 - 11:00	276	+	226	=	502	91	0	Yes
07:15 - 08:15	365		266		631	77	0	No

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:00 - 17:00	465	+	494	=	959	155	0	Yes
15:00 - 16:00	424	+	456	=	880	132	0	Yes
17:00 - 18:00	433	+	418	=	851	151	0	Yes
14:00 - 15:00	332	+	303	=	635	88	0	Yes
07:00 - 08:00	366	+	251	=	617	70	0	Yes
12:00 - 13:00	332	+	279	=	611	94	0	Yes
08:00 - 09:00	325	+	251	=	576	96	0	Yes
13:00 - 14:00	277	+	291	=	568	98	0	Yes
18:00 - 19:00	322	+	240	=	562	94	0	Yes
11:00 - 12:00	277	+	285	=	562	84	0	Yes
09:00 - 10:00	289	+	252	=	541	64	0	Yes
10:00 - 11:00	276		226		502	91	0	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/04/2022

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.

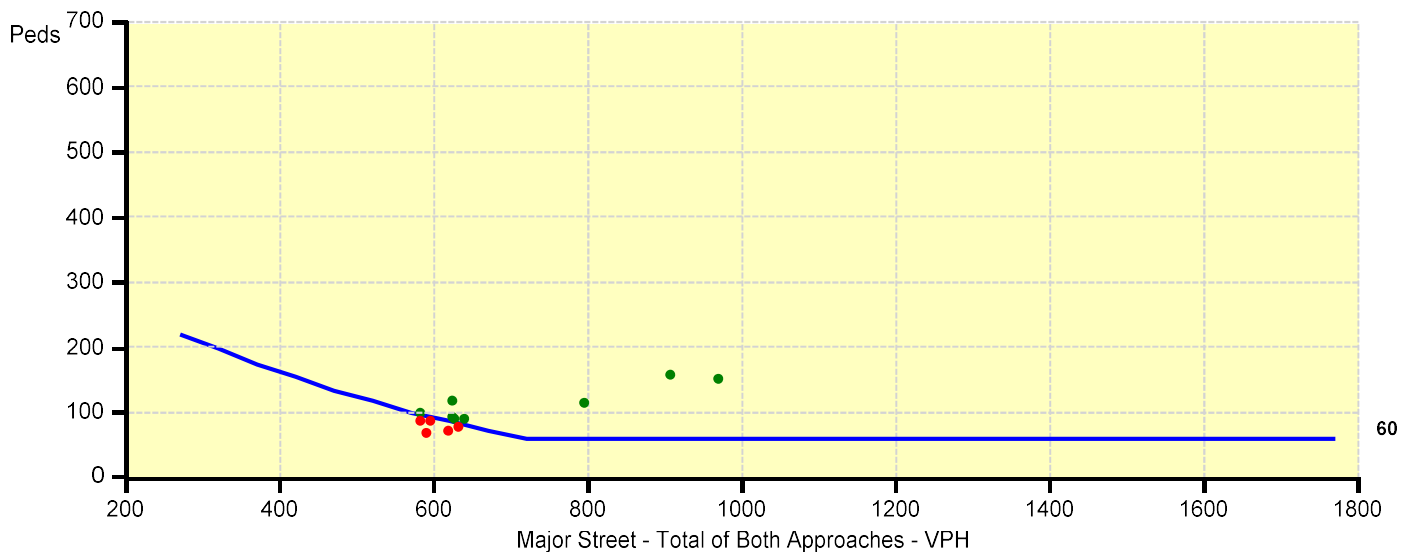
Summary

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 (125th Ave NE)					Minor Road CSAH 53 (Sunset Ave)		Met?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	
15:45 - 16:45	465	+	505	=	970	150	0	Yes
16:45 - 17:45	452	+	454	=	906	158	0	Yes
14:45 - 15:45	383	+	413	=	796	113	0	Yes
07:30 - 08:30	380	+	258	=	638	89	0	Yes
11:30 - 12:30	333	+	292	=	625	89	0	Yes
17:45 - 18:45	353	+	271	=	624	117	0	Yes
13:45 - 14:45	320	+	303	=	623	92	0	Yes
12:45 - 13:45	292	+	289	=	581	99	0	Yes
07:15 - 08:15	365	+	266	=	631	77	0	No
07:00 - 08:00	366	+	251	=	617	70	0	No
08:30 - 09:30	310	+	284	=	594	87	0	No
06:45 - 07:45	357	+	232	=	589	67	0	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/04/2022

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

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**

Time	Major Road CSAH 14 (125th Ave NE)					Minor Road CSAH 53 (Sunset Ave)		Met?
	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	
15:45 - 16:45	465	+	505	=	970	150	0	Yes
15:30 - 16:30	462	+	504	=	966	154	0	Yes
16:00 - 17:00	465	+	494	=	959	155	0	Yes
16:15 - 17:15	465	+	494	=	959	161	0	Yes
16:30 - 17:30	452	+	457	=	909	154	0	Yes
16:45 - 17:45	452	+	454	=	906	158	0	Yes
15:15 - 16:15	431	+	456	=	887	127	0	Yes
15:00 - 16:00	424	+	456	=	880	132	0	Yes
17:00 - 18:00	433	+	418	=	851	151	0	Yes
17:15 - 18:15	432	+	372	=	804	143	0	Yes
14:45 - 15:45	383	+	413	=	796	113	0	No
14:30 - 15:30	350	+	394	=	744	97	0	No

