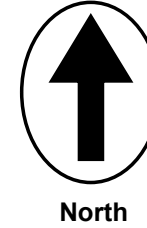
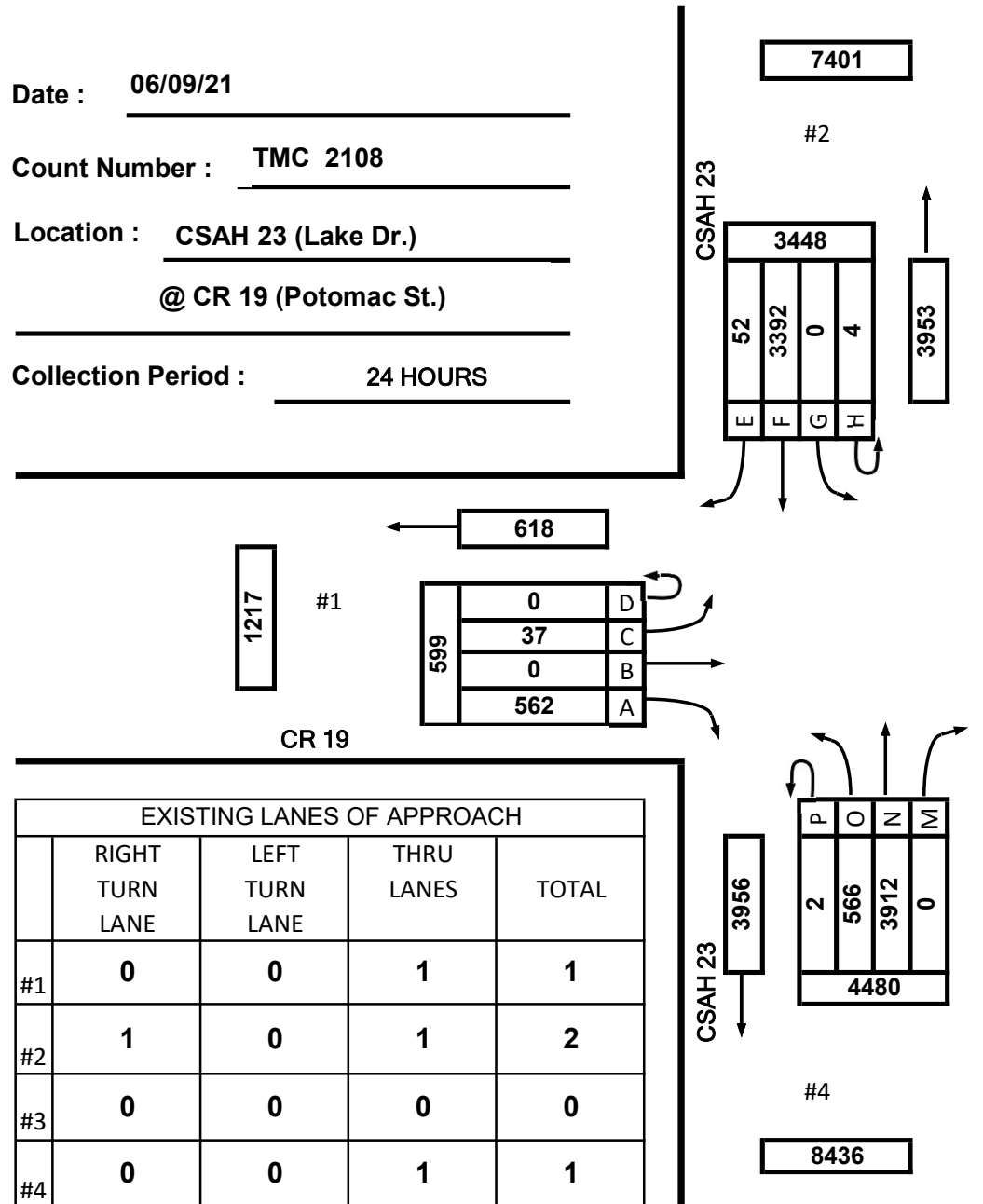


Date : 06/09/21

Count Number : TMC 2108

Location : CSAH 23 (Lake Dr.)
@ CR 19 (Potomac St.)

Collection Period : 24 HOURS



Anoka County Highway Department

Traffic Volume and Turning Movement Study

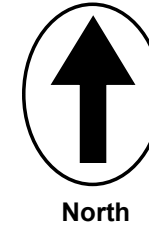
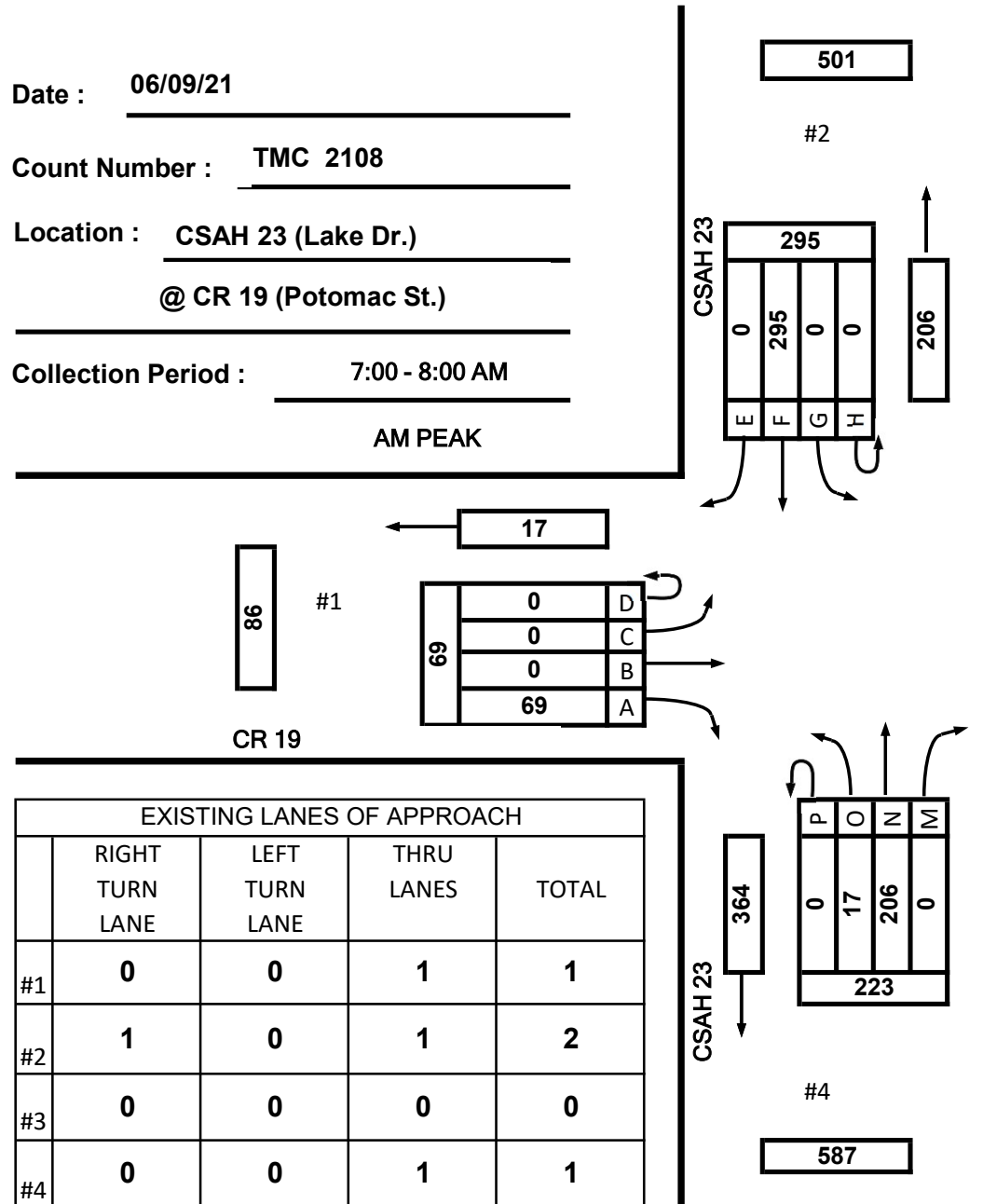
Date : 06/09/21

Count Number : TMC 2108

Location : CSAH 23 (Lake Dr.)
@ CR 19 (Potomac St.)

Collection Period : 7:00 - 8:00 AM

AM PEAK



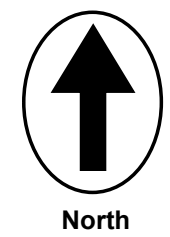
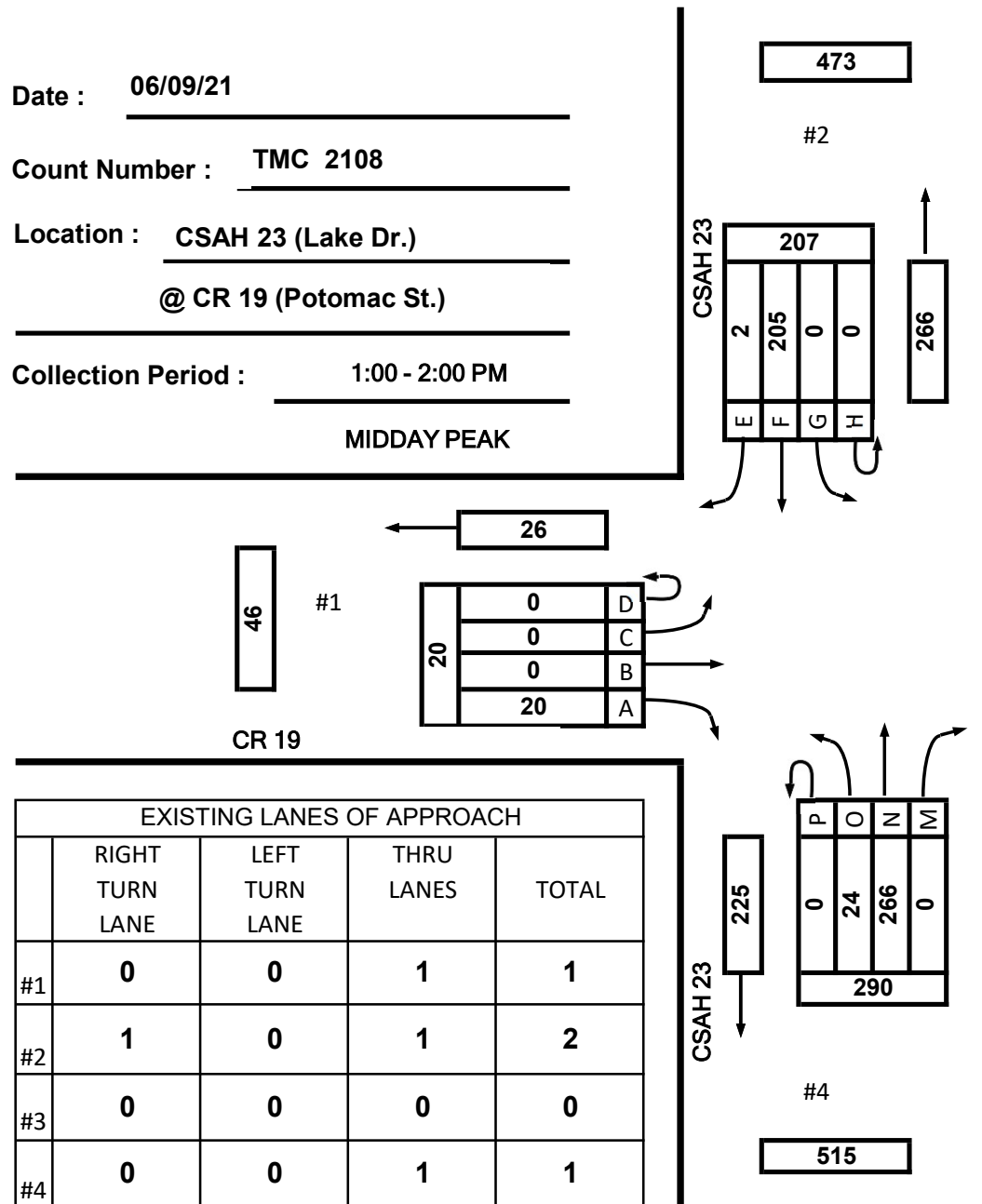
Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

Date : 06/09/21

Count Number : TMC 2108

Location : CSAH 23 (Lake Dr.)
@ CR 19 (Potomac St.)

Collection Period : 1:00 - 2:00 PM
MIDDAY PEAK



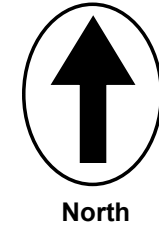
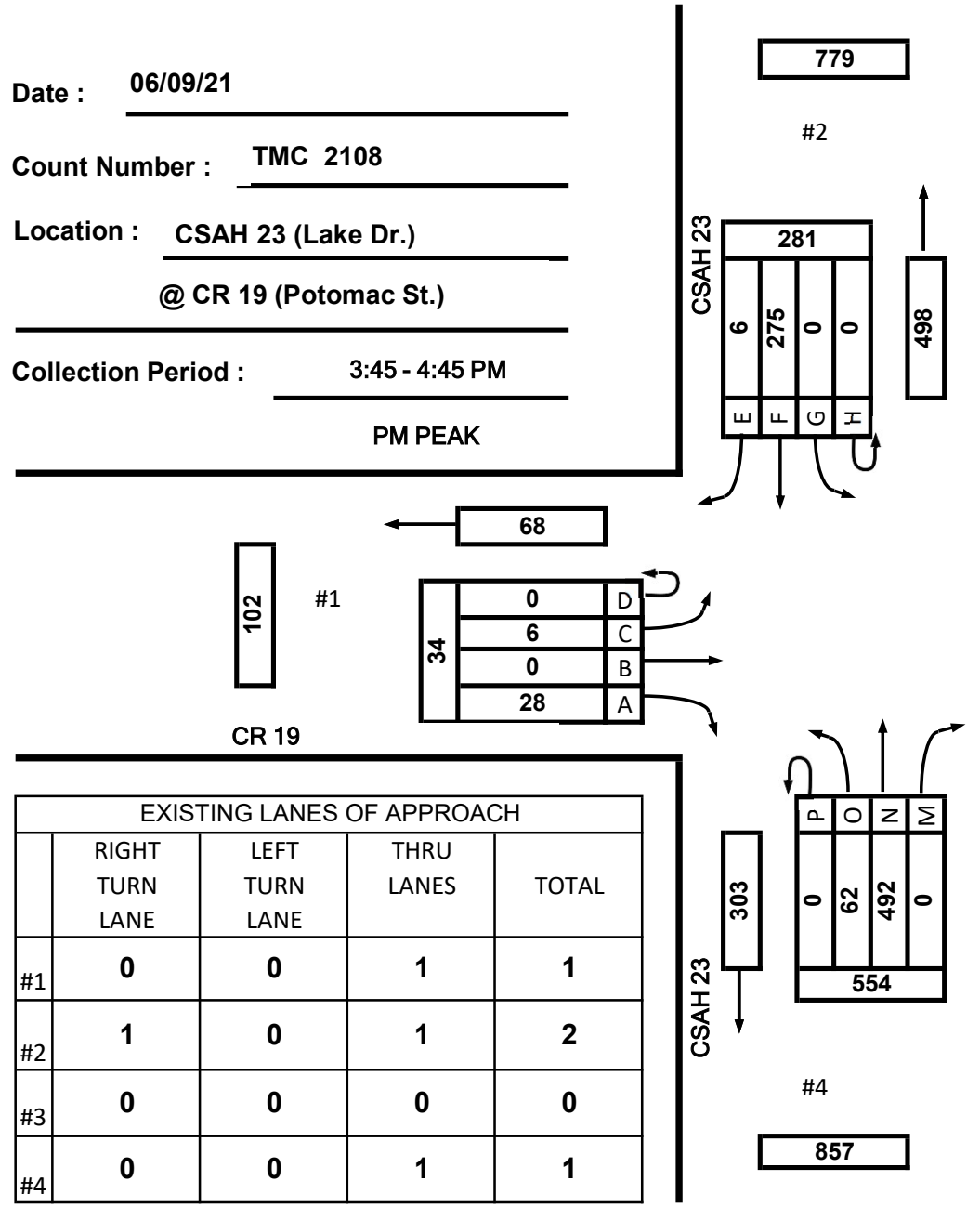
Anoka County Highway Department
Traffic Volume and Turning Movement Study

Date : 06/09/21

Count Number : TMC 2108

Location : CSAH 23 (Lake Dr.)
@ CR 19 (Potomac St.)

Collection Period : 3:45 - 4:45 PM
PM PEAK



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

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 2108
 Site Code :
 Start Date : 06/09/2021
 Page No : 1

Weather: Hot & Cloudy
 CountCAM 2
 Study Conducted By: Matt

Groups Printed- Cars + - Trucks

Start Time	CSAH 23 (Lake Dr.) Southbound						Westbound						CSAH 23 (Lake Dr.) Northbound						CR 19 (Potomac St.) 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				
00:00	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	5
00:15	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	3	0	3	0	0	5	5
00:30	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	2
00:45	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	4
Total	0	0	7	0	0	7	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	3	0	3	0	16	16	
01:00	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	2
01:15	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	3
01:30	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	6	6
01:45	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	4
Total	0	0	8	0	0	8	0	0	0	0	0	0	0	0	1	6	0	7	0	0	0	0	0	0	0	15	15	
02:00	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	3
02:15	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
02:30	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	2
02:45	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	3
Total	0	0	6	0	0	6	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	9	9	
03:00	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	2	0	3	0	0	2	0	2	0	0	0	9	9
03:15	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	3
03:30	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	2	0	2	0	0	9	9
03:45	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	1	0	7	7
Total	0	0	14	0	0	14	0	0	0	0	0	0	0	0	3	6	0	9	0	0	0	5	0	5	0	28	28	
04:00	0	0	10	0	0	10	0	0	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	0	1	0	15	15
04:15	0	0	5	0	0	5	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	8	8
04:30	0	0	11	0	0	11	0	0	0	0	0	0	0	0	8	0	0	8	0	0	4	0	5	0	5	0	24	24
04:45	0	0	14	0	0	14	0	0	0	0	0	0	0	0	9	0	0	9	0	0	4	0	4	0	4	0	27	27
Total	0	0	40	0	0	40	0	0	0	0	0	0	0	0	24	0	0	24	0	1	9	0	10	0	74	74		
05:00	0	0	20	1	0	21	0	0	0	0	0	0	0	0	1	8	0	9	0	1	8	0	9	0	9	0	39	39
05:15	0	0	34	0	0	34	0	0	0	0	0	0	0	0	1	7	0	8	0	0	10	0	10	0	10	0	52	52
05:30	0	0	63	0	0	63	0	0	0	0	0	0	0	0	3	12	0	15	0	0	8	0	8	0	8	0	86	86
05:45	0	0	72	0	0	72	0	0	0	0	0	0	0	0	1	13	0	14	0	0	14	0	14	0	14	0	100	100
Total	0	0	189	1	0	190	0	0	0	0	0	0	0	0	6	40	0	46	0	1	40	0	41	0	277	277		



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2108
 Site Code :
 Start Date : 06/09/2021
 Page No : 2

Weather: Hot & Cloudy
 CountCAM 2
 Study Conducted By: Matt

Groups Printed- Cars + - Trucks

Start Time	CSAH 23 (Lake Dr.) Southbound						Westbound						CSAH 23 (Lake Dr.) Northbound						CR 19 (Potomac St.) 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			
06:00	0	0	56	0	0	56	0	0	0	0	0	0	0	5	18	0	0	23	0	0	0	15	0	15	0	94	94
06:15	0	0	75	1	0	76	0	0	0	0	0	0	0	3	31	0	0	34	0	0	0	7	0	7	0	117	117
06:30	0	0	71	0	0	71	0	0	0	0	0	0	0	4	21	0	0	25	0	0	0	18	0	18	0	114	114
06:45	0	0	57	1	0	58	0	0	0	0	0	0	0	9	44	0	0	53	0	0	0	18	0	18	0	129	129
Total	0	0	259	2	0	261	0	0	0	0	0	0	0	21	114	0	0	135	0	0	0	58	0	58	0	454	454
07:00	0	0	54	0	1	54	0	0	0	0	0	0	0	2	50	0	0	52	0	0	0	13	0	13	1	119	120
07:15	0	0	71	0	0	71	0	0	0	0	0	0	0	1	48	0	0	49	0	0	0	18	0	18	0	138	138
07:30	0	0	86	0	0	86	0	0	0	0	0	0	0	6	60	0	0	66	0	0	0	22	0	22	0	174	174
07:45	0	0	84	0	0	84	0	0	0	0	0	0	0	8	48	0	0	56	0	0	0	16	0	16	0	156	156
Total	0	0	295	0	1	295	0	0	0	0	0	0	0	17	206	0	0	223	0	0	0	69	0	69	1	587	588
08:00	0	0	53	0	0	53	0	0	0	0	0	0	0	2	31	0	0	33	0	0	0	6	1	6	1	92	93
08:15	0	0	48	0	0	48	0	0	0	0	0	0	0	4	43	0	0	47	0	0	0	7	0	7	0	102	102
08:30	0	0	52	2	0	54	0	0	0	0	0	0	1	4	29	0	0	34	0	2	0	10	0	12	0	100	100
08:45	0	0	56	0	0	56	0	0	0	0	0	0	0	7	32	0	0	39	0	2	0	10	0	12	0	107	107
Total	0	0	209	2	0	211	0	0	0	0	0	0	1	17	135	0	0	153	0	4	0	33	1	37	1	401	402
09:00	0	0	48	0	0	48	0	0	0	0	0	0	0	6	67	0	0	73	0	0	0	10	0	10	0	131	131
09:15	0	0	51	1	0	52	0	0	0	0	0	0	0	8	46	0	0	54	0	1	0	10	0	11	0	117	117
09:30	0	0	42	0	0	42	0	0	0	0	0	0	0	9	35	0	0	44	0	0	0	11	0	11	0	97	97
09:45	0	0	34	3	0	37	0	0	0	0	0	0	0	7	37	0	0	44	0	0	0	11	0	11	0	92	92
Total	0	0	175	4	0	179	0	0	0	0	0	0	0	30	185	0	0	215	0	1	0	42	0	43	0	437	437
10:00	0	0	46	0	0	46	0	0	0	0	0	0	0	2	57	0	0	59	0	0	0	8	0	8	0	113	113
10:15	0	0	36	0	0	36	0	0	0	0	0	0	0	11	51	0	0	62	0	1	0	8	0	9	0	107	107
10:30	0	0	42	0	0	42	0	0	0	0	0	0	0	8	38	0	0	46	0	1	0	12	1	13	1	101	102
10:45	0	0	40	3	0	43	0	0	0	0	0	0	0	4	51	0	0	55	0	0	0	6	0	6	0	104	104
Total	0	0	164	3	0	167	0	0	0	0	0	0	0	25	197	0	0	222	0	2	0	34	1	36	1	425	426
11:00	0	0	49	0	0	49	0	0	0	0	0	0	0	3	46	0	0	49	0	1	0	8	0	9	0	107	107
11:15	0	0	50	1	0	51	0	0	0	0	0	0	0	7	48	0	0	55	0	1	0	6	0	7	0	113	113
11:30	0	0	40	2	0	42	0	0	0	0	0	0	0	7	49	0	0	56	0	0	0	7	0	7	0	105	105
11:45	0	0	50	0	0	50	0	0	0	0	0	0	0	7	49	0	0	56	0	0	0	8	0	8	0	114	114
Total	0	0	189	3	0	192	0	0	0	0	0	0	0	24	192	0	0	216	0	2	0	29	0	31	0	439	439
12:00	0	0	44	2	0	46	0	0	0	0	0	0	0	5	60	0	0	65	0	0	0	5	0	5	0	116	116



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2108
 Site Code :
 Start Date : 06/09/2021
 Page No : 3

Weather: Hot & Cloudy
 CountCAM 2
 Study Conducted By: Matt

Groups Printed- Cars + - Trucks

Start Time	CSAH 23 (Lake Dr.) Southbound						Westbound						CSAH 23 (Lake Dr.) Northbound						CR 19 (Potomac St.) 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			
12:15	0	0	39	1	0	40	0	0	0	0	0	0	0	1	51	0	0	52	0	0	0	5	0	5	0	97	97
12:30	1	0	45	1	0	47	0	0	0	0	0	0	0	9	58	0	0	67	0	0	0	11	0	11	0	125	125
12:45	0	0	47	0	0	47	0	0	0	0	0	0	0	9	52	0	0	61	0	0	0	7	0	7	0	115	115
Total	1	0	175	4	0	180	0	0	0	0	0	0	0	24	221	0	0	245	0	0	0	28	0	28	0	453	453
13:00	0	0	58	0	0	58	0	0	0	0	0	0	0	6	63	0	0	69	0	0	0	4	0	4	0	131	131
13:15	0	0	50	1	0	51	0	0	0	0	0	0	0	3	68	0	1	71	0	0	0	4	1	4	2	126	128
13:30	0	0	46	0	0	46	0	0	0	0	0	0	0	12	63	0	0	75	0	0	0	9	0	9	0	130	130
13:45	0	0	51	1	0	52	0	0	0	0	0	0	0	3	72	0	0	75	0	0	0	3	0	3	0	130	130
Total	0	0	205	2	0	207	0	0	0	0	0	0	0	24	266	0	1	290	0	0	0	20	1	20	2	517	519
14:00	0	0	52	1	0	53	0	0	0	0	0	0	0	8	69	0	0	77	0	1	0	8	0	9	0	139	139
14:15	0	0	68	1	0	69	0	0	0	0	0	0	0	8	75	0	0	83	0	0	0	12	0	12	0	164	164
14:30	0	0	56	3	0	59	0	0	0	0	0	0	0	11	71	0	0	82	0	0	0	3	0	3	0	144	144
14:45	0	0	58	2	0	60	0	0	0	0	0	0	0	8	77	0	0	85	0	2	0	6	0	8	0	153	153
Total	0	0	234	7	0	241	0	0	0	0	0	0	0	35	292	0	0	327	0	3	0	29	0	32	0	600	600
15:00	0	0	56	1	0	57	0	0	0	0	0	0	0	14	84	0	0	98	0	1	0	5	0	6	0	161	161
15:15	1	0	69	1	0	71	0	0	0	0	0	0	0	12	81	0	0	93	0	2	0	6	0	8	0	172	172
15:30	0	0	52	0	0	52	0	0	0	0	0	0	0	9	112	0	0	121	0	1	0	9	0	10	0	183	183
15:45	0	0	73	1	0	74	0	0	0	0	0	0	0	13	120	0	0	133	0	2	0	9	0	11	0	218	218
Total	1	0	250	3	0	254	0	0	0	0	0	0	0	48	397	0	0	445	0	6	0	29	0	35	0	734	734
16:00	0	0	65	2	0	67	0	0	0	0	0	0	0	18	116	0	0	134	0	0	0	2	0	2	0	203	203
16:15	0	0	63	3	0	66	0	0	0	0	0	0	0	18	132	0	0	150	0	2	0	6	0	8	0	224	224
16:30	0	0	74	0	0	74	0	0	0	0	0	0	0	13	124	0	0	137	0	2	0	11	0	13	0	224	224
16:45	0	0	56	0	0	56	0	0	0	0	0	0	1	23	118	0	0	142	0	0	0	8	0	8	0	206	206
Total	0	0	258	5	0	263	0	0	0	0	0	0	1	72	490	0	0	563	0	4	0	27	0	31	0	857	857
17:00	0	0	64	1	0	65	0	0	0	0	0	0	0	21	100	0	0	121	0	0	0	15	1	15	1	201	202
17:15	0	0	56	0	0	56	0	0	0	0	0	0	0	27	103	0	0	130	0	0	0	8	1	8	1	194	195
17:30	0	0	47	4	0	51	0	0	0	0	0	0	0	13	131	0	0	144	0	7	0	4	0	11	0	206	206
17:45	0	0	49	2	0	51	0	0	0	0	0	0	0	15	89	0	0	104	0	1	0	8	0	9	0	164	164
Total	0	0	216	7	0	223	0	0	0	0	0	0	0	76	423	0	0	499	0	8	0	35	2	43	2	765	767
18:00	0	0	48	2	0	50	0	0	0	0	0	0	0	19	71	0	0	90	0	0	0	5	0	5	0	145	145
18:15	0	0	35	0	0	35	0	0	0	0	0	0	0	11	64	0	0	75	0	0	0	6	0	6	0	116	116



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2108
 Site Code :
 Start Date : 06/09/2021
 Page No : 4

Weather: Hot & Cloudy
 CountCAM 2
 Study Conducted By: Matt

Groups Printed- Cars + - Trucks

Start Time	CSAH 23 (Lake Dr.) Southbound						Westbound						CSAH 23 (Lake Dr.) Northbound						CR 19 (Potomac St.) 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			
18:30	2	0	26	0	0	28	0	0	0	0	0	0	0	13	67	0	0	80	0	0	0	9	0	9	0	117	117
18:45	0	0	25	0	0	25	0	0	0	0	0	0	0	12	52	0	0	64	0	0	0	3	0	3	0	92	92
Total	2	0	134	2	0	138	0	0	0	0	0	0	0	55	254	0	0	309	0	0	0	23	0	23	0	470	470
19:00	0	0	34	0	0	34	0	0	0	0	0	0	0	5	36	0	0	41	0	0	0	2	1	2	1	77	78
19:15	0	0	22	0	0	22	0	0	0	0	0	0	0	8	36	0	0	44	0	1	0	5	1	6	1	72	73
19:30	0	0	28	0	0	28	0	0	0	0	0	0	0	9	41	0	0	50	0	1	0	4	0	5	0	83	83
19:45	0	0	19	1	0	20	0	0	0	0	0	0	0	15	41	0	0	56	0	0	0	3	0	3	0	79	79
Total	0	0	103	1	0	104	0	0	0	0	0	0	0	37	154	0	0	191	0	2	0	14	2	16	2	311	313
20:00	0	0	22	1	0	23	0	0	0	0	0	0	0	3	37	0	0	40	0	1	0	3	0	4	0	67	67
20:15	0	0	36	1	0	37	0	0	0	0	0	0	0	10	35	0	0	45	0	0	0	5	1	5	1	87	88
20:30	0	0	28	0	0	28	0	0	0	0	0	0	0	7	25	0	0	32	0	0	0	5	1	5	1	65	66
20:45	0	0	21	2	0	23	0	0	0	0	0	0	0	2	36	0	0	38	0	0	0	6	0	6	0	67	67
Total	0	0	107	4	0	111	0	0	0	0	0	0	0	22	133	0	0	155	0	1	0	19	2	20	2	286	288
21:00	0	0	32	0	0	32	0	0	0	0	0	0	0	2	28	0	0	30	0	0	0	4	0	4	0	66	66
21:15	0	0	23	0	0	23	0	0	0	0	0	0	0	2	17	0	0	19	0	0	0	3	1	3	1	45	46
21:30	0	0	15	0	0	15	0	0	0	0	0	0	0	6	18	0	0	24	0	0	0	0	0	0	0	39	39
21:45	0	0	14	1	0	15	0	0	0	0	0	0	0	2	20	0	0	22	0	0	0	2	0	2	0	39	39
Total	0	0	84	1	0	85	0	0	0	0	0	0	0	12	83	0	0	95	0	0	0	9	1	9	1	189	190
22:00	0	0	16	0	0	16	0	0	0	0	0	0	0	3	19	0	0	22	0	0	0	1	0	1	0	39	39
22:15	0	0	12	1	0	13	0	0	0	0	0	0	0	1	13	0	0	14	0	0	0	1	0	1	0	28	28
22:30	0	0	6	0	0	6	0	0	0	0	0	0	0	5	15	0	0	20	0	1	0	2	0	3	0	29	29
22:45	0	0	12	0	0	12	0	0	0	0	0	0	0	2	15	0	0	17	0	0	0	1	0	1	0	30	30
Total	0	0	46	1	0	47	0	0	0	0	0	0	0	11	62	0	0	73	0	1	0	5	0	6	0	126	126
23:00	0	0	5	0	0	5	0	0	0	0	0	0	0	0	5	0	0	5	0	1	0	1	0	2	0	12	12
23:15	0	0	7	0	0	7	0	0	0	0	0	0	0	2	7	0	0	9	0	0	0	0	0	0	0	16	16
23:30	0	0	8	0	0	8	0	0	0	0	0	0	0	4	7	0	0	11	0	0	0	0	0	0	0	19	19
23:45	0	0	5	0	0	5	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	1	0	1	0	10	10
Total	0	0	25	0	0	25	0	0	0	0	0	0	0	6	23	0	0	29	0	1	0	2	0	3	0	57	57
Grand Total	4	0	3392	52	1	3448	0	0	0	0	0	0	2	566	3912	0	1	4480	0	37	0	562	10	599	12	8527	8539
Apprch %	0.1	0	98.4	1.5			0	0	0	0			0	12.6	87.3	0			0	6.2	0	93.8					
Total %	0	0	39.8	0.6		40.4	0	0	0	0			0	6.6	45.9	0		52.5	0	0.4	0	6.6		7	0.1	99.9	
Cars +	4	0	3190	44		3239	0	0	0	0			2	477	3708	0		4188	0	36	0	467		513	0	0	7940
% Cars +	100	0	94	84.6	100	93.9	0	0	0	0	0		100	84.3	94.8	0	100	93.5	0	97.3	0	83.1	100	84.2	0	0	93
Trucks	0	0	202	8		210	0	0	0	0			0	89	204	0		293	0	1	0	95		96	0	0	599
% Trucks	0	0	6	15.4	0	6.1	0	0	0	0	0		0	15.7	5.2	0	0	6.5	0	2.7	0	16.9	0	15.8	0	0	7

Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

Start Time	CSAH 23 (Lake Dr.) Southbound					Westbound					CSAH 23 (Lake Dr.) Northbound					CR 19 (Potomac St.) 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 00:00 to 09:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00																					
07:00	0	0	54	0	54	0	0	0	0	0	0	2	50	0	52	0	0	0	13	13	119
07:15	0	0	71	0	71	0	0	0	0	0	0	1	48	0	49	0	0	0	18	18	138
07:30	0	0	86	0	86	0	0	0	0	0	0	6	60	0	66	0	0	0	22	22	174
07:45	0	0	84	0	84	0	0	0	0	0	0	8	48	0	56	0	0	0	16	16	156
Total Volume	0	0	295	0	295	0	0	0	0	0	0	17	206	0	223	0	0	0	69	69	587
% App. Total	0	0	100	0		0	0	0	0		0	7.6	92.4	0		0	0	0	100		
PHF	.000	.000	.858	.000	.858	.000	.000	.000	.000	.000	.000	.531	.858	.000	.845	.000	.000	.000	.784	.784	.843

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 13:00																					
13:00	0	0	58	0	58	0	0	0	0	0	0	6	63	0	69	0	0	0	4	4	131
13:15	0	0	50	1	51	0	0	0	0	0	0	3	68	0	71	0	0	0	4	4	126
13:30	0	0	46	0	46	0	0	0	0	0	0	12	63	0	75	0	0	0	9	9	130
13:45	0	0	51	1	52	0	0	0	0	0	0	3	72	0	75	0	0	0	3	3	130
Total Volume	0	0	205	2	207	0	0	0	0	0	0	24	266	0	290	0	0	0	20	20	517
% App. Total	0	0	99	1		0	0	0	0		0	8.3	91.7	0		0	0	0	100		
PHF	.000	.000	.884	.500	.892	.000	.000	.000	.000	.000	.000	.500	.924	.000	.967	.000	.000	.000	.556	.556	.987

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 15:45																					
15:45	0	0	73	1	74	0	0	0	0	0	0	13	120	0	133	0	2	0	9	11	218
16:00	0	0	65	2	67	0	0	0	0	0	0	18	116	0	134	0	0	0	2	2	203
16:15	0	0	63	3	66	0	0	0	0	0	0	18	132	0	150	0	2	0	6	8	224
16:30	0	0	74	0	74	0	0	0	0	0	0	13	124	0	137	0	2	0	11	13	224
Total Volume	0	0	275	6	281	0	0	0	0	0	0	62	492	0	554	0	6	0	28	34	869
% App. Total	0	0	97.9	2.1		0	0	0	0		0	11.2	88.8	0		0	17.6	0	82.4		
PHF	.000	.000	.929	.500	.949	.000	.000	.000	.000	.000	.000	.861	.932	.000	.923	.000	.750	.000	.636	.654	.970



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2108
 Site Code :
 Start Date : 06/09/2021
 Page No : 1

Weather: Hot & Cloudy
 CountCAM 2
 Study Conducted By: Matt

Groups Printed- Trucks

Start Time	CSAH 23 (Lake Dr.) Southbound					Westbound					CSAH 23 (Lake Dr.) Northbound					CR 19 (Potomac St.) 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		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
Total	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
05:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
05:30	0	0	2	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
05:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
Total	0	0	3	0	3	0	0	0	0	0	0	1	1	0	2	0	0	0	1	1	1	6
06:00	0	0	9	0	9	0	0	0	0	0	0	3	0	0	3	0	0	0	1	1	1	13
06:15	0	0	2	0	2	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	6
06:30	0	0	2	0	2	0	0	0	0	0	0	1	5	0	6	0	0	0	0	0	0	8
06:45	0	0	1	1	2	0	0	0	0	0	0	6	7	0	13	0	0	0	0	0	0	15
Total	0	0	14	1	15	0	0	0	0	0	0	10	16	0	26	0	0	0	1	1	1	42
07:00	0	0	3	0	3	0	0	0	0	0	0	1	4	0	5	0	0	0	1	1	1	9
07:15	0	0	2	0	2	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	6
07:30	0	0	3	0	3	0	0	0	0	0	0	4	7	0	11	0	0	0	2	2	2	16
07:45	0	0	5	0	5	0	0	0	0	0	0	3	4	0	7	0	0	0	4	4	4	16
Total	0	0	13	0	13	0	0	0	0	0	0	8	19	0	27	0	0	0	7	7	7	47
08:00	0	0	4	0	4	0	0	0	0	0	0	1	4	0	5	0	0	0	2	2	2	11
08:15	0	0	3	0	3	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	4
08:30	0	0	6	1	7	0	0	0	0	0	0	1	2	0	3	0	1	0	2	3	3	13
08:45	0	0	6	0	6	0	0	0	0	0	0	5	5	0	10	0	0	0	3	3	3	19
Total	0	0	19	1	20	0	0	0	0	0	0	7	12	0	19	0	1	0	7	8	8	47



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2108

Site Code :

Start Date : 06/09/2021

Page No : 2

Weather: Hot & Cloudy
 CountCAM 2
 Study Conducted By: Matt

Groups Printed- Trucks

Start Time	CSAH 23 (Lake Dr.) Southbound					Westbound					CSAH 23 (Lake Dr.) Northbound					CR 19 (Potomac St.) 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	
09:00	0	0	4	0	4	0	0	0	0	0	0	3	14	0	17	0	0	0	3	3	24
09:15	0	0	4	0	4	0	0	0	0	0	0	2	3	0	5	0	0	0	4	4	13
09:30	0	0	2	0	2	0	0	0	0	0	0	3	7	0	10	0	0	0	5	5	17
09:45	0	0	5	0	5	0	0	0	0	0	0	2	3	0	5	0	0	0	2	2	12
Total	0	0	15	0	15	0	0	0	0	0	0	10	27	0	37	0	0	0	14	14	66
10:00	0	0	5	0	5	0	0	0	0	0	0	1	11	0	12	0	0	0	1	1	18
10:15	0	0	4	0	4	0	0	0	0	0	0	4	3	0	7	0	0	0	1	1	12
10:30	0	0	4	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	7	7	14
10:45	0	0	1	1	2	0	0	0	0	0	0	2	6	0	8	0	0	0	1	1	11
Total	0	0	14	1	15	0	0	0	0	0	0	10	20	0	30	0	0	0	10	10	55
11:00	0	0	4	0	4	0	0	0	0	0	0	1	2	0	3	0	0	0	3	3	10
11:15	0	0	5	0	5	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	10
11:30	0	0	1	1	2	0	0	0	0	0	0	4	4	0	8	0	0	0	3	3	13
11:45	0	0	5	0	5	0	0	0	0	0	0	6	3	0	9	0	0	0	3	3	17
Total	0	0	15	1	16	0	0	0	0	0	0	11	14	0	25	0	0	0	9	9	50
12:00	0	0	5	0	5	0	0	0	0	0	0	1	6	0	7	0	0	0	3	3	15
12:15	0	0	5	0	5	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	8
12:30	0	0	7	1	8	0	0	0	0	0	0	4	5	0	9	0	0	0	6	6	23
12:45	0	0	6	0	6	0	0	0	0	0	0	5	2	0	7	0	0	0	1	1	14
Total	0	0	23	1	24	0	0	0	0	0	0	10	16	0	26	0	0	0	10	10	60
13:00	0	0	2	0	2	0	0	0	0	0	0	1	6	0	7	0	0	0	2	2	11
13:15	0	0	6	0	6	0	0	0	0	0	0	0	2	0	2	0	0	0	2	2	10
13:30	0	0	4	0	4	0	0	0	0	0	0	4	6	0	10	0	0	0	2	2	16
13:45	0	0	3	0	3	0	0	0	0	0	0	0	3	0	3	0	0	0	1	1	7
Total	0	0	15	0	15	0	0	0	0	0	0	5	17	0	22	0	0	0	7	7	44
14:00	0	0	4	0	4	0	0	0	0	0	0	2	5	0	7	0	0	0	1	1	12
14:15	0	0	8	0	8	0	0	0	0	0	0	2	3	0	5	0	0	0	5	5	18
14:30	0	0	5	0	5	0	0	0	0	0	0	2	4	0	6	0	0	0	1	1	12
14:45	0	0	7	1	8	0	0	0	0	0	0	1	4	0	5	0	0	0	1	1	14
Total	0	0	24	1	25	0	0	0	0	0	0	7	16	0	23	0	0	0	8	8	56
15:00	0	0	7	0	7	0	0	0	0	0	0	0	4	0	4	0	0	0	1	1	12
15:15	0	0	3	0	3	0	0	0	0	0	0	2	4	0	6	0	0	0	3	3	12
15:30	0	0	5	0	5	0	0	0	0	0	0	0	5	0	5	0	0	0	1	1	11
15:45	0	0	5	0	5	0	0	0	0	0	0	1	8	0	9	0	0	0	1	1	15
Total	0	0	20	0	20	0	0	0	0	0	0	3	21	0	24	0	0	0	6	6	50
16:00	0	0	4	0	4	0	0	0	0	0	0	3	3	0	6	0	0	0	2	2	12
16:15	0	0	4	2	6	0	0	0	0	0	0	0	7	0	7	0	0	0	2	2	15
16:30	0	0	6	0	6	0	0	0	0	0	0	0	4	0	4	0	0	0	1	1	11
16:45	0	0	4	0	4	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	8
Total	0	0	18	2	20	0	0	0	0	0	0	5	16	0	21	0	0	0	5	5	46
17:00	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	4	4	7
17:15	0	0	1	0	1	0	0	0	0	0	0	1	2	0	3	0	0	0	1	1	5
17:30	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
17:45	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	0	0	2	0	2	0	0	0	0	0	0	2	5	0	7	0	0	0	6	6	15
18:00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	2
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2108
 Site Code :
 Start Date : 06/09/2021
 Page No : 3

Weather: Hot & Cloudy
 CountCAM 2
 Study Conducted By: Matt

Groups Printed- Trucks

Start Time	CSAH 23 (Lake Dr.) Southbound					Westbound					CSAH 23 (Lake Dr.) Northbound					CR 19 (Potomac St.) 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	
18:30	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
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	0	0	0	0	0	0	3	0	3	0	0	0	0	2	2
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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
19:30	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:45	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
20:15	0	0	1	0	1	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
21:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21:15	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0
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	0	0	0	0	0
Grand Total	0	0	202	8	210	0	0	0	0	0	0	89	204	0	293	0	1	0	95	96	599
Apprch %	0	0	96.2	3.8		0	0	0	0		0	30.4	69.6	0		0	1	0	99		
Total %	0	0	33.7	1.3	35.1	0	0	0	0	0	0	14.9	34.1	0	48.9	0	0.2	0	15.9	16	

ANOKA COUNTY HIGHWAY DEPARTMENT

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2108

Study Date: 07/16/2021

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Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 23 (Lake Dr.)

Number of Lanes : 1

Total Approach Volume: 4,480

Southbound: CSAH 23 (Lake Dr.)

Number of Lanes : 1

Total Approach Volume: 3,448

Minor Street Approaches

Eastbound: CR 19 (Potomac St.)

Number of Lanes : 1

Total Approach Volume: 599

Westbound:

Number of Lanes : 1

Total Approach Volume: 0

Warrant Summary (Rural Values Apply)

Warrant 1 - Eight Hour Vehicular Volumes.....Not Satisfied

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

Required volumes reached for 0 hours, 8 are needed

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

Required volumes reached for 0 hours, 8 are needed

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

Required 1A volumes reached for 0 hours, 8 are needed

Required 1B volumes reached for 3 hours, 8 are needed

Warrant 2 - Four Hour Volumes.....Not Satisfied

Number of hours (0) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Not Satisfied

Warrant 3A - Peak Hour Delay.....Not Satisfied

Approach volumes on minor street don't exceed minimums for any hour. Delay data not evaluated.

Warrant 3B - Peak Hour Volumes.....Not Satisfied

Volumes do not exceed minimums for any hour.

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 DEPARTMENT

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

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Study Date: **07/16/2021**

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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 0 hours 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 NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	554	+	281	=	835	34	0	No
16:00 - 17:00	563	+	263	=	826	31	0	No
16:15 - 17:15	550	+	261	=	811	44	0	No
15:30 - 16:30	538	+	259	=	797	31	0	No
16:30 - 17:30	530	+	251	=	781	44	0	No
16:45 - 17:45	537	+	228	=	765	42	0	No
15:15 - 16:15	481	+	264	=	745	31	0	No
17:00 - 18:00	499	+	223	=	722	43	0	No
15:00 - 16:00	445	+	254	=	699	35	0	No
17:15 - 18:15	468	+	208	=	676	33	0	No
14:45 - 15:45	397	+	240	=	637	32	0	No
14:30 - 15:30	358	+	247	=	605	25	0	No
17:30 - 18:30	413	+	187	=	600	31	0	No
14:15 - 15:15	348	+	245	=	593	29	0	No
14:00 - 15:00	327	+	241	=	568	32	0	No
13:45 - 14:45	317	+	233	=	550	27	0	No
13:30 - 14:30	310	+	220	=	530	33	0	No
07:00 - 08:00	223	+	295	=	518	69	0	No
17:45 - 18:45	349	+	164	=	513	29	0	No
13:15 - 14:15	298	+	202	=	500	25	0	No
07:15 - 08:15	204	+	294	=	498	62	0	No
13:00 - 14:00	290	+	207	=	497	20	0	No
06:45 - 07:45	220	+	269	=	489	71	0	No
12:45 - 13:45	276	+	202	=	478	24	0	No
07:30 - 08:30	202		271		473	51	0	No

ANOKA COUNTY HIGHWAY DEPARTMENT

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: **TMC 2108**

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Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

Only 0 hours 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 = **525**

Veh/Hr Minor = **53**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 23 (Lake Dr.)					CR 19 (Potomac St.)		
15:45 - 16:45	554	+	281	=	835	34	0	No
16:00 - 17:00	563	+	263	=	826	31	0	No
16:15 - 17:15	550	+	261	=	811	44	0	No
15:30 - 16:30	538	+	259	=	797	31	0	No
16:30 - 17:30	530	+	251	=	781	44	0	No
16:45 - 17:45	537	+	228	=	765	42	0	No
15:15 - 16:15	481	+	264	=	745	31	0	No
17:00 - 18:00	499	+	223	=	722	43	0	No
15:00 - 16:00	445	+	254	=	699	35	0	No
17:15 - 18:15	468	+	208	=	676	33	0	No
14:45 - 15:45	397	+	240	=	637	32	0	No
14:30 - 15:30	358	+	247	=	605	25	0	No
17:30 - 18:30	413	+	187	=	600	31	0	No
14:15 - 15:15	348	+	245	=	593	29	0	No
14:00 - 15:00	327	+	241	=	568	32	0	No
13:45 - 14:45	317	+	233	=	550	27	0	No
13:30 - 14:30	310	+	220	=	530	33	0	No
07:00 - 08:00	223	+	295	=	518	69	0	No
17:45 - 18:45	349	+	164	=	513	29	0	No
13:15 - 14:15	298	+	202	=	500	25	0	No
07:15 - 08:15	204	+	294	=	498	62	0	No
13:00 - 14:00	290	+	207	=	497	20	0	No
06:45 - 07:45	220	+	269	=	489	71	0	No
12:45 - 13:45	276	+	202	=	478	24	0	No
07:30 - 08:30	202		271		473	51	0	No

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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 0 hours meet 1A minimums.
Only 3 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 23 (Lake Dr.)

Minor Road CR 19 (Potomac St.)

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:45 - 16:45	554	+	281	=	835	34	0	No
16:00 - 17:00	563	+	263	=	826	31	0	No
16:15 - 17:15	550	+	261	=	811	44	0	No
15:30 - 16:30	538	+	259	=	797	31	0	No
16:30 - 17:30	530	+	251	=	781	44	0	No
16:45 - 17:45	537	+	228	=	765	42	0	No
15:15 - 16:15	481	+	264	=	745	31	0	No
17:00 - 18:00	499	+	223	=	722	43	0	No
15:00 - 16:00	445	+	254	=	699	35	0	No
17:15 - 18:15	468	+	208	=	676	33	0	No
14:45 - 15:45	397	+	240	=	637	32	0	No
14:30 - 15:30	358	+	247	=	605	25	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:15 - 17:15	550	+	261	=	811	44	0	Yes
07:15 - 08:15	204	+	294	=	498	62	0	Yes
06:15 - 07:15	164	+	259	=	423	56	0	Yes
15:45 - 16:45	554	+	281	=	835	34	0	No
16:00 - 17:00	563	+	263	=	826	31	0	No
15:30 - 16:30	538	+	259	=	797	31	0	No
15:15 - 16:15	481	+	264	=	745	31	0	No
15:00 - 16:00	445	+	254	=	699	35	0	No
17:15 - 18:15	468	+	208	=	676	33	0	No
14:45 - 15:45	397	+	240	=	637	32	0	No
14:30 - 15:30	358	+	247	=	605	25	0	No
17:30 - 18:30	413	+	187	=	600	31	0	No

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TRAFFIC SIGNAL WARRANT ANALYSIS

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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.

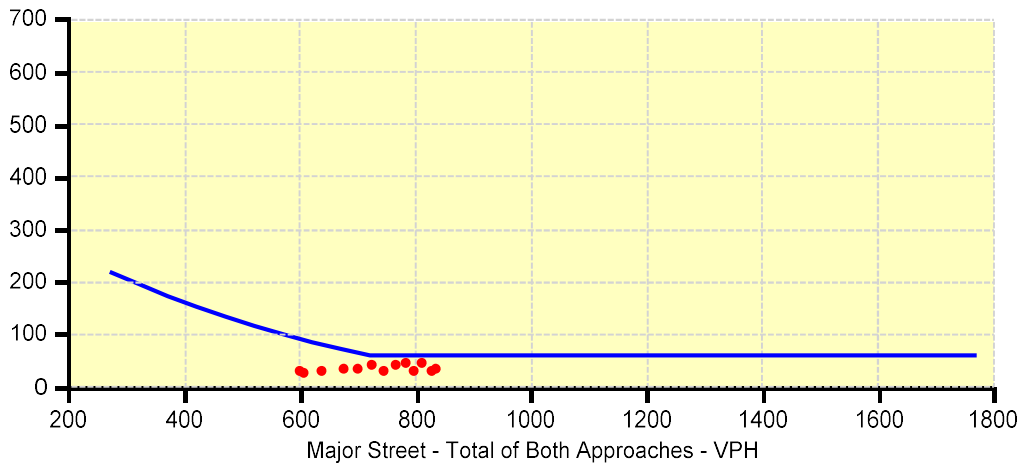
Summary

Only 0 hours meet minimums.
Warrant is NOT met.

Site Data Required

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

Time	Major Road CSAH 23 (Lake Dr.)				Total	Minor Road CR 19 (Potomac St.)		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	554	+	281	=	835	34	0	No
16:00 - 17:00	563	+	263	=	826	31	0	No
16:15 - 17:15	550	+	261	=	811	44	0	No
15:30 - 16:30	538	+	259	=	797	31	0	No
16:30 - 17:30	530	+	251	=	781	44	0	No
16:45 - 17:45	537	+	228	=	765	42	0	No
15:15 - 16:15	481	+	264	=	745	31	0	No
17:00 - 18:00	499	+	223	=	722	43	0	No
15:00 - 16:00	445	+	254	=	699	35	0	No
17:15 - 18:15	468	+	208	=	676	33	0	No
14:45 - 15:45	397	+	240	=	637	32	0	No



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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

Only 0 hours meet minimums.
Warrant is NOT met.

Site Data Required

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

Time	Major Road CSAH 23 (Lake Dr.)				Total	Minor Road CR 19 (Potomac St.)		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	554	+	281	=	835	34	0	No
16:00 - 17:00	563	+	263	=	826	31	0	No
16:15 - 17:15	550	+	261	=	811	44	0	No
15:30 - 16:30	538	+	259	=	797	31	0	No
16:30 - 17:30	530	+	251	=	781	44	0	No
16:45 - 17:45	537	+	228	=	765	42	0	No
15:15 - 16:15	481	+	264	=	745	31	0	No
17:00 - 18:00	499	+	223	=	722	43	0	No
15:00 - 16:00	445	+	254	=	699	35	0	No
17:15 - 18:15	468	+	208	=	676	33	0	No
14:45 - 15:45	397	+	240	=	637	32	0	No

