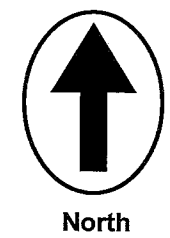
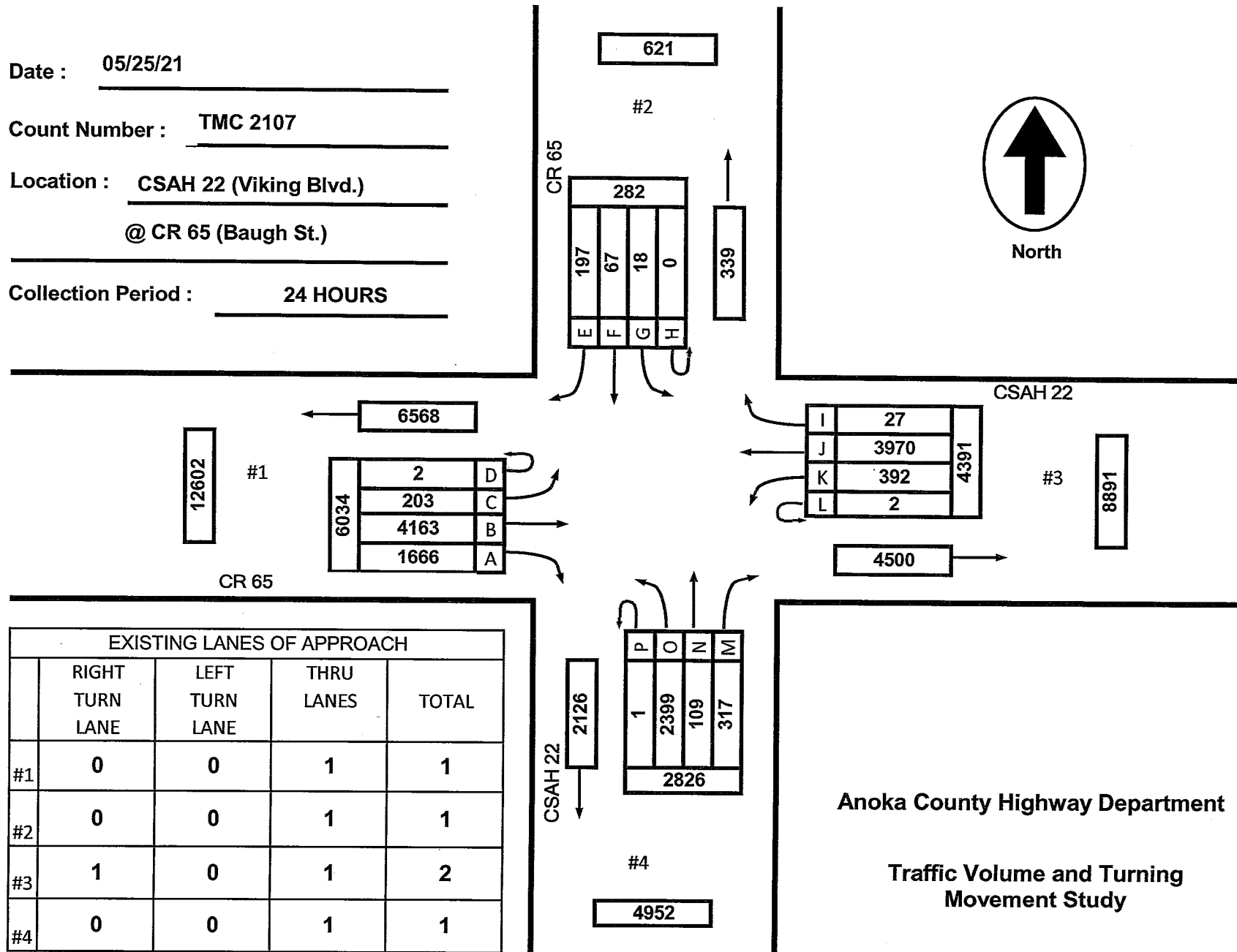


Date : 05/25/21

Count Number : TMC 2107

Location : CSAH 22 (Viking Blvd.)  
@ CR 65 (Baugh St.)

Collection Period : 24 HOURS



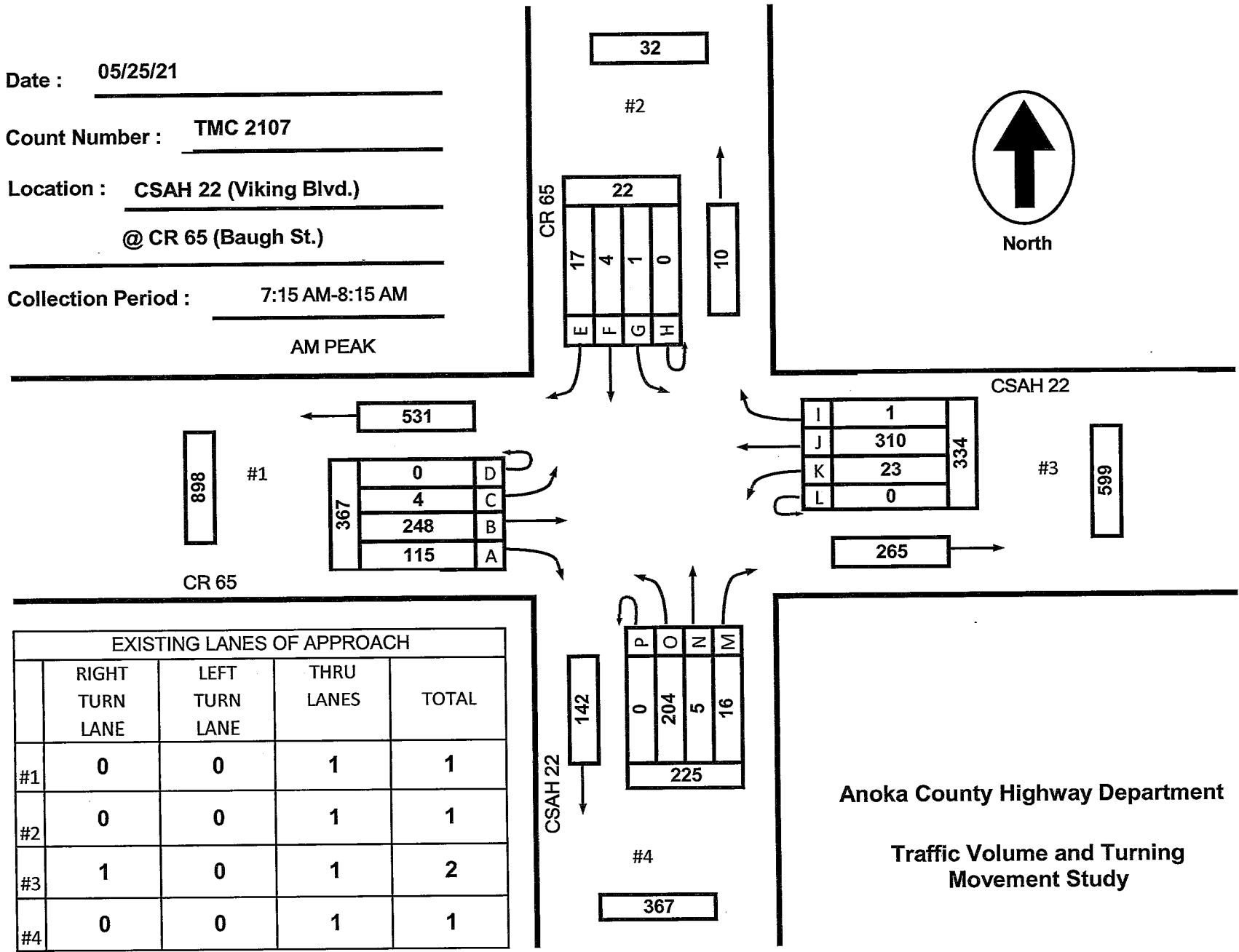
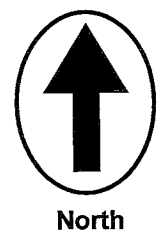
Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study

Date : 05/25/21

Count Number : TMC 2107

Location : CSAH 22 (Viking Blvd.)  
@ CR 65 (Baugh St.)

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



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

Anoka County Highway Department  
 Traffic Volume and Turning Movement Study

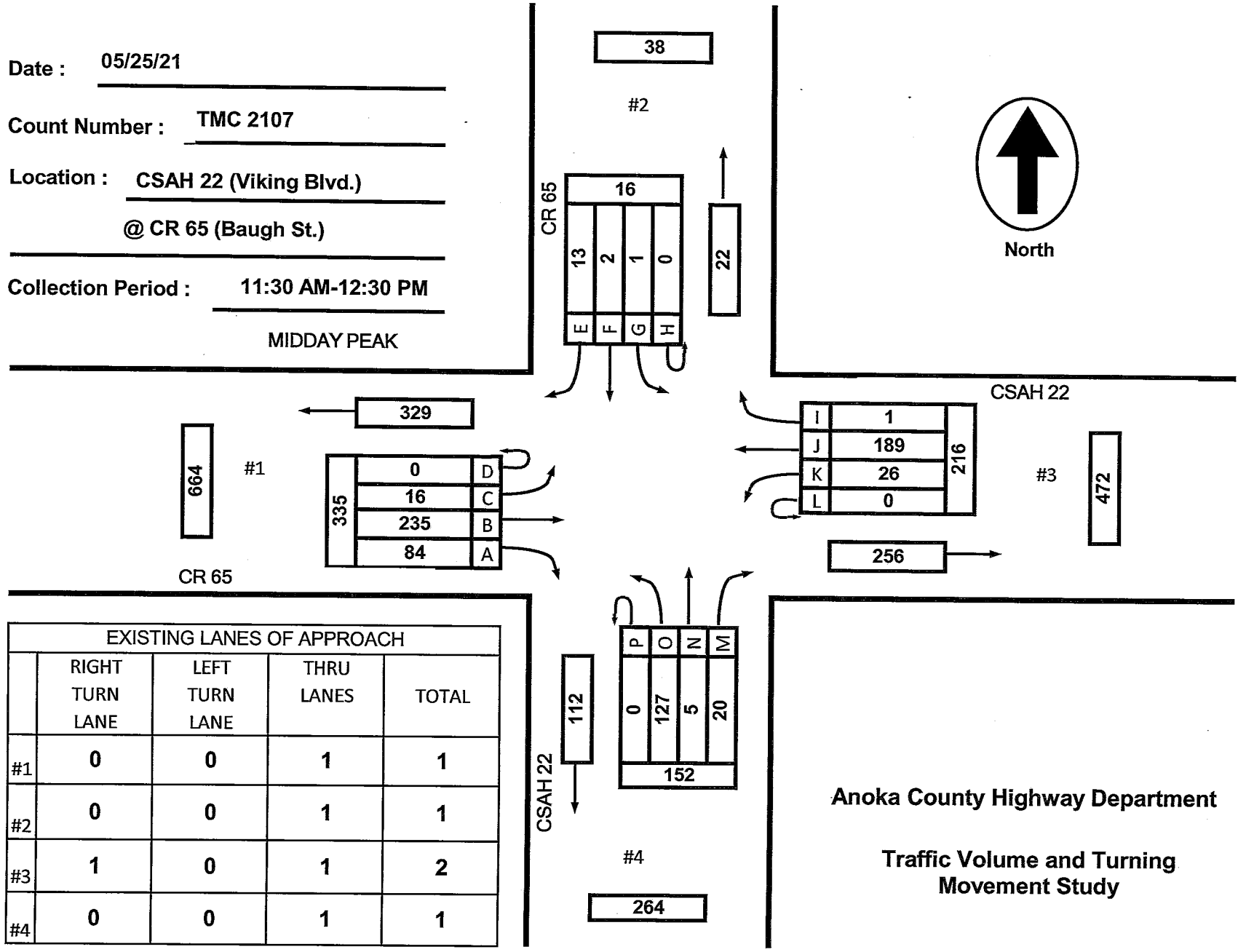
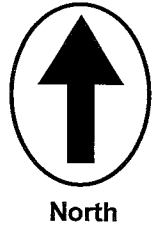
Date : 05/25/21

Count Number : TMC 2107

Location : CSAH 22 (Viking Blvd.)  
@ CR 65 (Baugh St.)

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

MIDDAY PEAK



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

Anoka County Highway Department

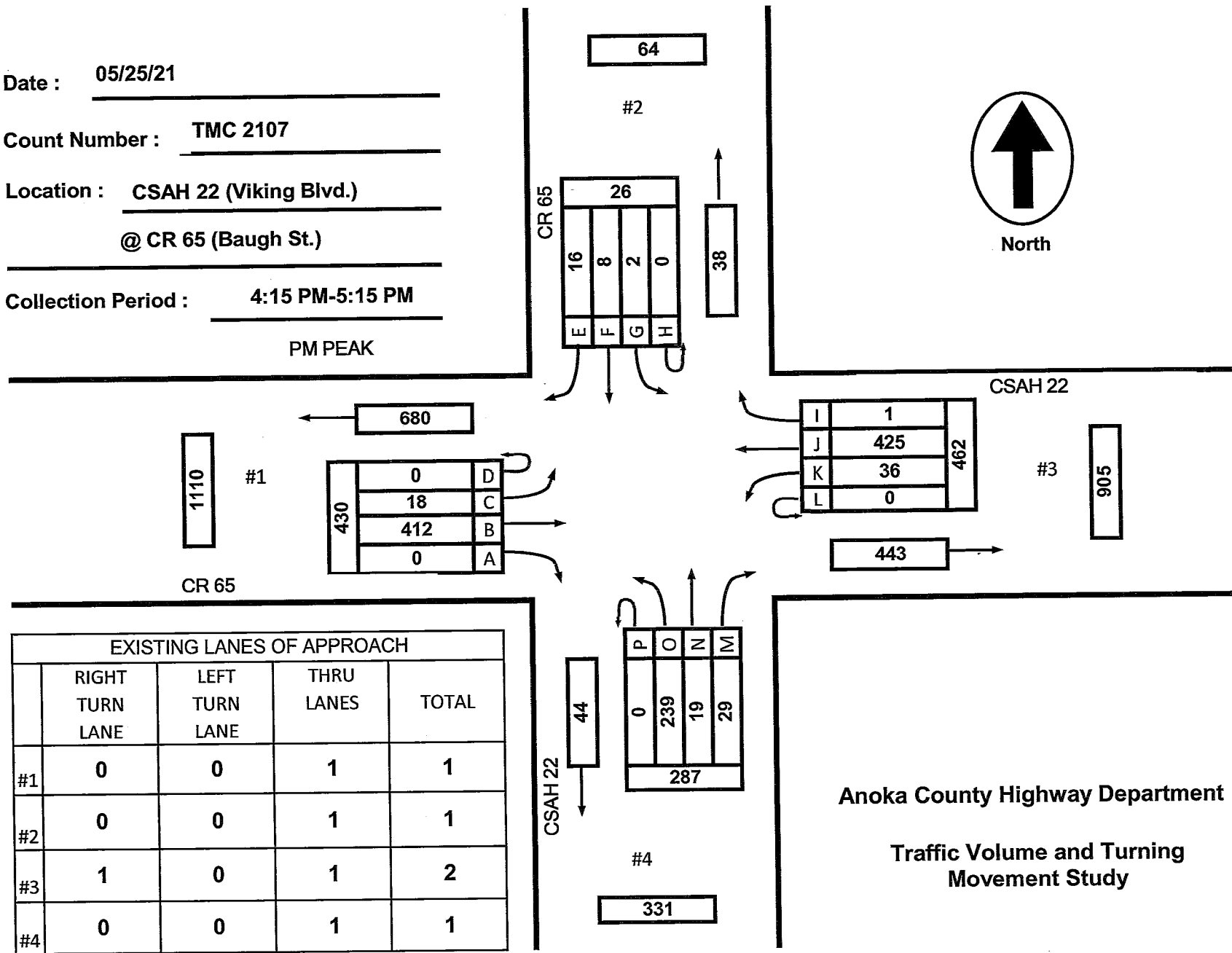
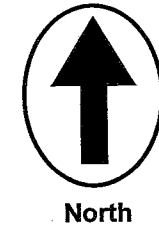
Traffic Volume and Turning Movement Study

Date : 05/25/21

Count Number : TMC 2107

Location : CSAH 22 (Viking Blvd.)  
@ CR 65 (Baugh St.)

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



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

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 1

Groups Printed- Cars + - Trucks

Start Time	CR 65 Southbound						CSAH 22 Westbound						CSAH 22 Northbound						CR 65 Eastbound						Exclu. Total	Inclu. Total	Int. Total
	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total			
00:00	0	0	0	0	0	0	0	0	8	2	0	10	0	0	0	0	0	0	0	0	2	2	0	4	0	14	14
00:15	0	0	0	0	0	0	0	2	4	0	0	6	0	4	0	0	0	4	0	0	2	3	0	5	0	15	15
00:30	0	0	0	0	0	0	0	0	2	0	0	2	0	4	0	0	0	4	0	0	2	0	0	2	0	8	8
00:45	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	3	1	0	4	0	6	6
Total	0	0	0	0	0	0	0	0	2	16	2	20	0	8	0	0	0	8	0	0	9	6	0	15	0	43	43
01:00	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	1	0	1	2	1	0	4	0	6	6
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	5	1	0	6	0	8	8
01:30	0	0	0	0	0	0	0	0	2	0	0	2	0	1	0	0	0	1	0	0	2	0	0	2	0	5	5
01:45	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	2	0	3	3
Total	0	0	0	0	0	0	0	0	4	0	0	4	0	4	0	0	0	4	0	2	10	2	0	14	0	22	22
02:00	0	0	0	0	0	0	0	2	1	0	0	3	0	1	0	0	0	1	0	0	0	1	0	1	0	5	5
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	5	5
02:30	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	1	0	2	0	0	1	1	0	2	0	6	6
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	1	0	0	1	0	3	3
Total	0	0	0	0	0	0	0	2	3	0	0	5	0	2	2	1	0	5	0	0	6	3	0	9	0	19	19
03:00	0	0	0	0	0	0	0	0	7	0	0	7	0	1	0	0	0	1	0	0	3	0	0	3	0	11	11
03:15	0	0	0	0	0	0	0	0	6	0	0	6	0	1	0	1	0	2	0	0	1	1	0	2	0	10	10
03:30	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	1	0	1	0	0	1	1	0	2	0	5	5
03:45	0	0	0	0	0	0	0	0	4	0	0	4	0	1	0	0	0	1	0	0	3	0	0	3	0	8	8
Total	0	0	0	1	0	1	0	0	18	0	0	18	0	3	0	2	0	5	0	0	8	2	0	10	0	34	34
04:00	0	0	1	0	0	1	0	0	6	0	0	6	0	3	0	0	0	3	0	0	8	1	0	9	0	19	19
04:15	0	0	1	0	0	1	0	0	17	0	0	17	0	0	0	0	0	0	0	0	2	2	0	4	0	22	22
04:30	0	0	0	0	0	0	0	1	14	0	0	15	0	5	0	1	0	6	0	0	4	2	0	6	0	27	27
04:45	0	0	2	0	0	2	0	0	12	0	0	12	0	2	0	0	0	2	0	0	13	2	0	15	0	31	31
Total	0	0	4	0	0	4	0	1	49	0	0	50	0	10	0	1	0	11	0	0	27	7	0	34	0	99	99
05:00	0	0	0	0	0	0	0	0	27	0	0	27	0	3	0	1	0	4	0	1	11	5	0	17	0	48	48
05:15	0	0	1	2	0	3	0	1	37	0	0	38	0	8	0	4	0	12	0	1	24	6	0	31	0	84	84
05:30	0	0	1	1	0	2	0	1	62	0	0	63	0	12	0	0	0	12	0	0	28	17	0	45	0	122	122
05:45	0	0	0	0	0	0	0	3	37	0	0	40	0	7	0	2	0	9	0	2	29	12	0	43	0	92	92
Total	0	0	2	3	0	5	0	5	163	0	0	168	0	30	0	7	0	37	0	4	92	40	0	136	0	346	346
06:00	0	0	1	5	0	6	0	10	42	0	0	52	0	10	2	0	0	12	0	2	37	14	0	53	0	123	123
06:15	0	0	1	1	1	2	0	9	70	1	0	80	0	20	0	0	0	20	0	1	39	27	1	67	2	169	171
06:30	0	0	2	12	0	14	0	5	87	0	0	92	0	27	0	5	0	32	0	2	45	16	0	63	0	201	201



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 2

Groups Printed- Cars + - Trucks

Start Time	CR 65 Southbound						CSAH 22 Westbound						CSAH 22 Northbound						CR 65 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				
06:45	0	1	0	3	0	4	0	2	84	0	0	86	0	34	1	2	0	37	0	1	62	35	0	98	0	0	225	225
Total	0	1	4	21	1	26	0	26	283	1	0	310	0	91	3	7	0	101	0	6	183	92	1	281	2	0	718	720
07:00	0	0	1	1	0	2	0	2	63	0	0	65	0	41	1	1	0	43	0	1	49	30	0	80	0	0	190	190
07:15	0	0	1	3	0	4	0	4	86	0	0	90	0	55	3	5	0	63	0	0	67	29	0	96	0	0	253	253
07:30	0	1	0	9	0	10	0	7	86	0	0	93	0	67	1	8	0	76	0	0	63	27	0	90	0	0	269	269
07:45	0	0	2	0	0	2	0	9	66	1	0	76	0	50	0	2	0	52	0	4	50	20	0	74	0	0	204	204
Total	0	1	4	13	0	18	0	22	301	1	0	324	0	213	5	16	0	234	0	5	229	106	0	340	0	0	916	916
08:00	0	0	1	5	0	6	0	3	72	0	0	75	0	32	1	1	0	34	0	0	68	39	0	107	0	0	222	222
08:15	0	0	1	6	0	7	0	3	61	3	0	67	0	36	1	5	0	42	0	2	64	31	0	97	0	0	213	213
08:30	0	0	0	4	0	4	0	9	56	0	0	65	0	46	0	5	0	51	0	2	60	12	0	74	0	0	194	194
08:45	0	1	1	3	0	5	0	4	54	0	0	58	0	51	0	4	0	55	0	2	54	26	0	82	0	0	200	200
Total	0	1	3	18	0	22	0	19	243	3	0	265	0	165	2	15	0	182	0	6	246	108	0	360	0	0	829	829
09:00	0	1	1	1	0	3	0	5	42	0	0	47	0	32	1	1	0	34	1	5	51	33	0	90	0	0	174	174
09:15	0	0	1	1	0	2	0	4	50	0	0	54	0	33	1	3	0	37	0	2	51	17	0	70	0	0	163	163
09:30	0	0	1	2	0	3	0	10	41	0	0	51	0	37	0	2	0	39	0	0	44	13	0	57	0	0	150	150
09:45	0	0	0	3	0	3	0	4	48	0	0	52	0	26	2	5	0	33	0	1	49	21	0	71	0	0	159	159
Total	0	1	3	7	0	11	0	23	181	0	0	204	0	128	4	11	0	143	1	8	195	84	0	288	0	0	646	646
10:00	0	0	0	4	0	4	0	5	38	0	0	43	0	31	0	2	0	33	0	2	57	21	0	80	0	0	160	160
10:15	0	0	0	3	0	3	0	3	40	1	0	44	0	33	0	1	0	34	0	2	42	18	0	62	0	0	143	143
10:30	0	0	3	0	0	3	0	5	47	0	0	52	0	32	1	4	0	37	0	1	47	15	0	63	0	0	155	155
10:45	0	1	1	3	0	5	0	5	45	0	0	50	0	34	0	2	0	36	0	0	68	16	0	84	0	0	175	175
Total	0	1	4	10	0	15	0	18	170	1	0	189	0	130	1	9	0	140	0	5	214	70	0	289	0	0	633	633
11:00	0	0	2	3	0	5	0	2	50	0	0	52	0	24	2	4	0	30	0	2	50	18	0	70	0	0	157	157
11:15	0	0	1	1	0	2	0	8	50	0	0	58	0	27	0	2	0	29	0	0	53	11	0	64	0	0	153	153
11:30	0	0	0	6	0	6	0	6	47	1	0	54	0	37	4	5	0	46	0	3	64	19	0	86	0	0	192	192
11:45	0	0	1	5	0	6	0	4	44	0	0	48	0	32	1	4	0	37	0	6	62	24	0	92	0	0	183	183
Total	0	0	4	15	0	19	0	20	191	1	0	212	0	120	7	15	0	142	0	11	229	72	0	312	0	0	685	685
12:00	0	1	1	0	0	2	0	11	43	0	0	54	0	26	0	4	0	30	0	5	54	26	0	85	0	0	171	171
12:15	0	0	0	2	0	2	0	5	55	0	0	60	0	32	0	7	0	39	0	2	55	15	0	72	0	0	173	173
12:30	0	0	1	1	0	2	0	4	52	0	0	56	0	31	1	3	0	35	0	4	64	25	0	93	0	0	186	186
12:45	0	0	1	3	0	4	0	9	40	0	0	49	0	38	0	2	0	40	0	7	51	20	0	78	0	0	171	171
Total	0	1	3	6	0	10	0	29	190	0	0	219	0	127	1	16	0	144	0	18	224	86	0	328	0	0	701	701
13:00	0	0	2	2	0	4	0	5	46	1	0	52	0	24	1	7	0	32	0	2	49	18	0	69	0	0	157	157
13:15	0	0	0	1	0	1	0	9	44	1	0	54	0	25	1	9	0	35	0	2	79	19	0	100	0	0	190	190



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 3

Groups Printed- Cars + - Trucks

Start Time	CR 65 Southbound						CSAH 22 Westbound						CSAH 22 Northbound						CR 65 Eastbound						Exclu. Total	Inclu. Total	Int. Total
	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total			
13:30	0	0	0	1	0	1	0	3	36	0	0	39	0	23	2	4	0	29	1	4	61	14	0	80	0	149	149
13:45	0	0	1	5	0	6	0	0	50	1	0	51	0	34	2	6	0	42	0	5	70	15	0	90	0	189	189
Total	0	0	3	9	0	12	0	17	176	3	0	196	0	106	6	26	0	138	1	13	259	66	0	339	0	685	685
14:00	0	0	2	6	0	8	0	5	53	0	0	58	0	26	2	8	0	36	0	4	50	20	0	74	0	176	176
14:15	0	0	1	4	0	5	0	8	73	1	0	82	0	37	1	2	0	40	0	2	60	33	0	95	0	222	222
14:30	0	0	0	2	0	2	0	7	62	0	0	69	0	41	1	5	0	47	0	6	91	36	0	133	0	251	251
14:45	0	0	2	0	0	2	0	8	70	0	0	78	0	49	0	4	0	53	0	5	69	26	0	100	0	233	233
Total	0	0	5	12	0	17	0	28	258	1	0	287	0	153	4	19	0	176	0	17	270	115	0	402	0	882	882
15:00	0	0	1	3	0	4	0	5	67	1	0	73	0	51	7	7	0	65	0	2	66	32	0	100	0	242	242
15:15	0	2	1	6	0	9	0	3	76	0	0	79	0	43	5	7	0	55	0	4	99	35	0	138	0	281	281
15:30	0	0	0	5	0	5	0	4	64	2	0	70	0	70	4	9	0	83	0	3	78	29	0	110	0	268	268
15:45	0	0	0	8	0	8	0	10	93	0	0	103	0	62	6	10	0	78	0	3	92	46	0	141	0	330	330
Total	0	2	2	22	0	26	0	22	300	3	0	325	0	226	22	33	0	281	0	12	335	142	0	489	0	1121	1121
16:00	0	3	2	3	0	8	0	13	94	0	0	107	0	54	2	5	0	61	0	6	89	39	0	134	0	310	310
16:15	0	2	1	2	0	5	0	12	99	1	0	112	0	56	4	7	0	67	0	5	106	30	0	141	0	325	325
16:30	0	0	2	6	0	8	0	10	113	0	0	123	0	56	3	10	0	69	0	4	95	45	0	144	0	344	344
16:45	0	0	3	3	0	6	0	8	110	0	0	118	0	59	6	11	0	76	0	5	110	34	0	149	0	349	349
Total	0	5	8	14	0	27	0	43	416	1	0	460	0	225	15	33	0	273	0	20	400	148	0	568	0	1328	1328
17:00	0	0	2	5	0	7	0	6	103	0	0	109	0	68	6	1	0	75	0	4	101	36	0	141	0	332	332
17:15	0	0	1	4	0	5	0	6	84	1	0	91	0	64	2	6	0	72	0	5	109	34	0	148	0	316	316
17:30	0	0	1	3	0	4	0	5	97	1	0	103	0	51	1	9	0	61	0	6	112	32	0	150	0	318	318
17:45	0	0	0	4	0	4	0	10	69	0	0	79	0	56	4	10	0	70	0	3	87	31	0	121	0	274	274
Total	0	0	4	16	0	20	0	27	353	2	0	382	0	239	13	26	0	278	0	18	409	133	0	560	0	1240	1240
18:00	0	0	3	4	0	7	0	9	61	0	0	70	0	48	1	2	0	51	0	5	67	35	0	107	0	235	235
18:15	0	0	0	1	0	1	0	7	55	0	0	62	0	50	1	7	0	58	0	4	73	22	0	99	0	220	220
18:30	0	0	0	4	0	4	0	5	55	1	0	61	0	50	1	7	0	58	0	2	62	23	0	87	0	210	210
18:45	0	0	0	3	0	3	0	5	42	0	0	47	0	39	2	8	0	49	0	8	57	24	0	89	0	188	188
Total	0	0	3	12	0	15	0	26	213	1	0	240	0	187	5	24	0	216	0	19	259	104	0	382	0	853	853
19:00	0	1	3	1	0	5	0	3	37	2	0	42	0	30	4	10	0	44	0	2	52	23	0	77	0	168	168
19:15	0	0	1	0	0	1	0	10	46	1	0	57	0	22	3	6	0	31	0	5	49	24	0	78	0	167	167
19:30	0	0	1	3	0	4	0	3	48	2	0	53	0	27	0	5	0	32	0	1	49	24	0	74	0	163	163
19:45	0	0	0	2	0	2	0	5	34	1	0	40	0	15	1	9	0	25	0	0	41	18	0	59	0	126	126
Total	0	1	5	6	0	12	0	21	165	6	0	192	0	94	8	30	0	132	0	8	191	89	0	288	0	624	624
20:00	0	0	0	1	0	1	0	2	40	1	0	43	0	16	2	4	0	22	0	4	54	30	0	88	0	154	154



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 4

Groups Printed- Cars + - Trucks

Start Time	CR 65 Southbound						CSAH 22 Westbound						CSAH 22 Northbound						CR 65 Eastbound						Exclu. Total	Inclu. Total	Int. Total	
	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total	UTm	Left	Thru	Right	Peds	App. Total				
20:15	0	0	1	3	0	4	0	2	28	0	0	30	0	13	0	6	0	19	0	3	38	25	0	66	0	0	119	119
20:30	0	1	0	2	0	3	0	4	26	0	0	30	0	13	2	5	0	20	0	5	41	22	0	68	0	0	121	121
20:45	0	1	2	0	0	3	0	4	35	0	0	39	0	20	0	1	0	21	0	5	47	18	0	70	0	0	133	133
<b>Total</b>	0	2	3	6	0	11	0	12	129	1	0	142	0	62	4	16	0	82	0	17	180	95	0	292	0	0	527	527
21:00	0	0	0	0	0	0	2	8	29	0	0	39	0	10	0	3	0	13	0	3	38	25	0	66	0	0	118	118
21:15	0	1	1	1	0	3	0	5	26	0	0	31	0	16	3	2	0	21	0	1	24	11	0	36	0	0	91	91
21:30	0	0	0	1	0	1	0	2	15	0	0	17	1	11	1	4	0	17	0	1	26	11	0	38	0	0	73	73
21:45	0	0	0	1	0	1	1	0	8	14	0	22	0	7	0	0	0	7	0	2	23	9	0	34	0	0	64	64
<b>Total</b>	0	1	1	3	0	5	2	23	84	0	0	109	1	44	4	9	0	58	0	7	111	56	0	174	0	0	346	346
22:00	0	0	0	2	0	2	0	2	10	0	0	12	0	5	2	0	0	7	0	3	19	8	0	30	0	0	51	51
22:15	0	1	1	0	0	2	0	2	19	0	0	21	0	13	0	0	0	13	0	1	9	8	0	18	0	0	54	54
22:30	0	0	0	0	0	0	0	0	12	0	0	12	0	6	0	1	0	7	0	1	13	2	0	16	0	0	35	35
22:45	0	0	1	1	0	2	0	2	6	0	0	8	0	3	1	0	0	4	0	0	11	8	0	19	0	0	33	33
<b>Total</b>	0	1	2	3	0	6	0	6	47	0	0	53	0	27	3	1	0	31	0	5	52	26	0	83	0	0	173	173
23:00	0	0	0	0	0	0	0	0	6	0	0	6	0	1	0	0	0	1	0	1	8	6	0	15	0	0	22	22
23:15	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	8	4	0	12	0	0	15	15
23:30	0	0	0	0	0	0	0	0	8	0	0	8	0	4	0	0	0	4	0	1	3	2	0	6	0	0	18	18
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	8	0	0	8	8
<b>Total</b>	0	0	0	0	0	0	0	0	17	0	0	17	0	5	0	0	0	5	0	2	25	14	0	41	0	0	63	63
<b>Grand Total</b>	0	18	67	197	1	282	2	392	3970	27	0	4391	1	2399	109	317	0	2826	2	203	4163	1666	1	6034	2	0	13533	13535
Apprch %	0	6.4	23.8	69.9			0	8.9	90.4	0.6			0	84.9	3.9	11.2			0	3.4	69	27.6			0	0	100	
Total %	0	0.1	0.5	1.5		2.1	0	2.9	29.3	0.2		32.4	0	17.7	0.8	2.3		20.9	0	1.5	30.8	12.3		44.6	0	0	100	
Cars +	0	16	62	191		270	2	357	3594	26		3979	1	2265	101	296		2663	2	193	3827	1576		5599	0	0	12511	
% Cars +	0	88.9	92.5	97	100	95.4	100	91.1	90.5	96.3	0	90.6	100	94.4	92.7	93.4	0	94.2	100	95.1	91.9	94.6	100	92.8	0	0	92.4	
Trucks	0	2	5	6		13	0	35	376	1		412	0	134	8	21		163	0	10	336	90		436	0	0	1024	
% Trucks	0	11.1	7.5	3	0	4.6	0	8.9	9.5	3.7	0	9.4	0	5.6	7.3	6.6	0	5.8	0	4.9	8.1	5.4	0	7.2	0	0	7.6	





# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 5

Start Time	CR 65 Southbound					CSAH 22 Westbound					CSAH 22 Northbound					CR 65 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 07:15																					
07:15	0	0	1	3	4	0	4	86	0	90	0	55	3	5	63	0	0	67	29	96	253
07:30	0	1	0	9	10	0	7	86	0	93	0	67	1	8	76	0	0	63	27	90	269
07:45	0	0	2	0	2	0	9	66	1	76	0	50	0	2	52	0	4	50	20	74	204
08:00	0	0	1	5	6	0	3	72	0	75	0	32	1	1	34	0	0	68	39	107	222
Total Volume	0	1	4	17	22	0	23	310	1	334	0	204	5	16	225	0	4	248	115	367	948
% App. Total	0	4.5	18.2	77.3	0	6.9	92.8	0.3	0	90.7	2.2	7.1	0	1.1	67.6	31.3					
PHF	.000	.250	.500	.472	.550	.000	.639	.901	.250	.898	.000	.761	.417	.500	.740	.000	.250	.912	.737	.857	.881
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	6	6	0	6	47	1	54	0	37	4	5	46	0	3	64	19	86	192
11:45	0	0	1	5	6	0	4	44	0	48	0	32	1	4	37	0	6	62	24	92	183
12:00	0	1	1	0	2	0	11	43	0	54	0	26	0	4	30	0	5	54	26	85	171
12:15	0	0	0	2	2	0	5	55	0	60	0	32	0	7	39	0	2	55	15	72	173
Total Volume	0	1	2	13	16	0	26	189	1	216	0	127	5	20	152	0	16	235	84	335	719
% App. Total	0	6.2	12.5	81.2	0	12	87.5	0.5	0	83.6	3.3	13.2	0	4.8	70.1	25.1					
PHF	.000	.250	.500	.542	.667	.000	.591	.859	.250	.900	.000	.858	.313	.714	.826	.000	.667	.918	.808	.910	.936
Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:15																					
16:15	0	2	1	2	5	0	12	99	1	112	0	56	4	7	67	0	5	106	30	141	325
16:30	0	0	2	6	8	0	10	113	0	123	0	56	3	10	69	0	4	95	45	144	344
16:45	0	0	3	3	6	0	8	110	0	118	0	59	6	11	76	0	5	110	34	149	349
17:00	0	0	2	5	7	0	6	103	0	109	0	68	6	1	75	0	4	101	36	141	332
Total Volume	0	2	8	16	26	0	36	425	1	462	0	239	19	29	287	0	18	412	145	575	1350
% App. Total	0	7.7	30.8	61.5	0	7.8	92	0.2	0	83.3	6.6	10.1	0	3.1	71.7	25.2					
PHF	.000	.250	.667	.667	.813	.000	.750	.940	.250	.939	.000	.879	.792	.659	.944	.000	.900	.936	.806	.965	.967



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 1

Groups Printed- Trucks

Start Time	CR 65 Southbound					CSAH 22 Westbound					CSAH 22 Northbound					CR 65 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	1	0	1	1	1
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	1	0	1	1	1
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	1	0	0	1	0	0	0	0	0	0	1
04:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	1	2
Total	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	1	0	1	1	3
05:00	0	0	0	0	0	0	0	1	0	1	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	0	0	0	0	0	0	0	0	0	0
05:30	0	0	0	0	0	0	0	5	0	5	0	2	0	0	2	0	0	1	1	2	9	9
05:45	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	3	1	4	9	9
Total	0	0	0	0	0	0	0	11	0	11	0	2	0	0	2	0	0	4	2	6	19	19
06:00	0	0	0	0	0	0	6	3	0	9	0	0	0	0	0	0	1	9	0	10	19	19
06:15	0	0	0	0	0	0	2	15	0	17	0	4	0	0	4	0	0	3	3	6	27	27
06:30	0	0	0	2	2	0	0	17	0	17	0	2	0	1	3	0	1	5	1	7	29	29
06:45	0	0	0	1	1	0	0	14	0	14	0	4	0	0	4	0	0	8	3	11	30	30
Total	0	0	0	3	3	0	8	49	0	57	0	10	0	1	11	0	2	25	7	34	105	105
07:00	0	0	0	0	0	0	0	11	0	11	0	5	0	0	5	0	0	11	5	16	32	32
07:15	0	0	1	0	1	0	0	15	0	15	0	8	1	1	10	0	0	4	6	10	36	36
07:30	0	0	0	1	1	0	2	7	0	9	0	6	0	1	7	0	0	1	0	1	18	18
07:45	0	0	1	0	1	0	3	9	0	12	0	6	0	0	6	0	1	6	1	8	27	27
Total	0	0	2	1	3	0	5	42	0	47	0	25	1	2	28	0	1	22	12	35	113	113
08:00	0	0	0	0	0	0	2	7	0	9	0	3	1	0	4	0	0	7	7	14	27	27
08:15	0	0	0	0	0	0	0	8	0	8	0	7	0	0	7	0	0	5	2	7	22	22
08:30	0	0	0	0	0	0	1	8	0	9	0	5	0	0	5	0	0	6	2	8	22	22
08:45	0	0	0	0	0	0	1	7	0	8	0	10	0	1	11	0	0	6	2	8	27	27
Total	0	0	0	0	0	0	4	30	0	34	0	25	1	1	27	0	0	24	13	37	98	98
09:00	0	0	0	0	0	0	0	5	0	5	0	1	0	0	1	0	0	6	0	6	12	12
09:15	0	0	0	0	0	0	1	7	0	8	0	1	0	1	2	0	0	8	3	11	21	21
09:30	0	0	0	0	0	0	1	6	0	7	0	4	0	0	4	0	0	10	0	10	21	21
09:45	0	0	0	0	0	0	2	9	0	11	0	0	0	2	2	0	0	7	3	10	23	23
Total	0	0	0	0	0	0	4	27	0	31	0	6	0	3	9	0	0	31	6	37	77	77



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 2

#### Groups Printed- Trucks

Start Time	CR 65 Southbound					CSAH 22 Westbound					CSAH 22 Northbound					CR 65 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	
10:00	0	0	0	0	0	0	1	6	0	7	0	1	0	0	1	0	0	5	3	8	16
10:15	0	0	0	0	0	0	1	9	0	10	0	1	0	0	1	0	0	6	0	6	17
10:30	0	0	1	0	1	0	0	9	0	9	0	0	0	0	0	0	0	9	2	11	21
10:45	0	0	0	0	0	0	1	8	0	9	0	3	0	0	3	0	0	8	0	8	20
Total	0	0	1	0	1	0	3	32	0	35	0	5	0	0	5	0	0	28	5	33	74
11:00	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	7	1	8	13
11:15	0	0	0	0	0	0	1	11	0	12	0	2	0	0	2	0	0	6	0	6	20
11:30	0	0	0	0	0	0	0	5	0	5	0	3	0	0	3	0	0	6	0	6	14
11:45	0	0	0	0	0	0	0	7	0	7	0	3	0	0	3	0	0	8	1	9	19
Total	0	0	0	0	0	0	1	28	0	29	0	8	0	0	8	0	0	27	2	29	66
12:00	0	0	0	0	0	0	1	7	0	8	0	1	0	0	1	0	0	8	0	8	17
12:15	0	0	0	0	0	0	0	9	0	9	0	2	0	0	2	0	0	9	1	10	21
12:30	0	0	0	0	0	0	1	5	0	6	0	2	0	0	2	0	0	9	1	10	18
12:45	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	6	1	7	10
Total	0	0	0	0	0	0	2	24	0	26	0	5	0	0	5	0	0	32	3	35	66
13:00	0	0	0	0	0	0	1	4	0	5	0	2	0	2	4	0	0	6	0	6	15
13:15	0	0	0	0	0	0	0	3	0	3	0	1	0	0	1	0	0	8	1	9	13
13:30	0	0	0	0	0	0	0	5	0	5	0	2	1	0	3	0	0	3	0	3	11
13:45	0	0	0	0	0	0	0	11	0	11	0	4	0	1	5	0	0	10	1	11	27
Total	0	0	0	0	0	0	1	23	0	24	0	9	1	3	13	0	0	27	2	29	66
14:00	0	0	1	0	1	0	0	7	0	7	0	1	0	3	4	0	0	3	2	5	17
14:15	0	0	0	0	0	0	2	8	0	10	0	4	0	0	4	0	1	7	4	12	26
14:30	0	0	0	0	0	0	0	7	0	7	0	4	0	0	4	0	1	13	1	15	26
14:45	0	0	0	0	0	0	0	10	0	10	0	2	0	1	3	0	0	9	2	11	24
Total	0	0	1	0	1	0	2	32	0	34	0	11	0	4	15	0	2	32	9	43	93
15:00	0	0	0	0	0	0	3	8	0	11	0	1	1	0	2	0	0	5	1	6	19
15:15	0	0	0	0	0	0	0	9	0	9	0	1	1	2	4	0	0	5	7	12	25
15:30	0	0	0	1	1	0	0	5	1	6	0	3	0	1	4	0	1	9	3	13	24
15:45	0	0	0	1	1	0	0	6	0	6	0	5	1	2	8	0	0	4	2	6	21
Total	0	0	0	2	2	0	3	28	1	32	0	10	3	5	18	0	1	23	13	37	89
16:00	0	1	0	0	1	0	0	5	0	5	0	3	0	1	4	0	0	9	4	13	23
16:15	0	1	0	0	1	0	1	3	0	4	0	3	1	1	5	0	1	5	1	7	17
16:30	0	0	0	0	0	0	0	4	0	4	0	4	1	0	5	0	1	6	1	8	17
16:45	0	0	0	0	0	0	0	7	0	7	0	1	0	0	1	0	0	4	1	5	13
Total	0	2	0	0	2	0	1	19	0	20	0	11	2	2	15	0	2	24	7	33	70
17:00	0	0	1	0	1	0	0	8	0	8	0	0	0	0	0	0	0	9	2	11	20
17:15	0	0	0	0	0	0	1	7	0	8	0	1	0	0	1	0	0	6	2	8	17
17:30	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	9	1	10	13
17:45	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	1	1	2	5
Total	0	0	1	0	1	0	1	21	0	22	0	1	0	0	1	0	0	25	6	31	55
18:00	0	0	0	0	0	0	0	2	0	2	0	1	0	0	1	0	0	1	1	2	5
18:15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	4	0	4	5
18:30	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	1	0	1	3
18:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	5	0	5	0	2	0	0	2	0	0	6	1	7	14
19:00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2	3
19:15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	2
19:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
19:45	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
Total	0	0	0	0	0	0	0	2	0	2	0	1	0	0	1	0	2	3	1	6	9



# Anoka County Highway Department

## Traffic Engineering Section

### Traffic Volume and Turning Movement Study

Weather: Hot & Sunny  
 CountCAM 2  
 Study Conducted By: Will

File Name : TMC 2107  
 Site Code :  
 Start Date : 5/25/2021  
 Page No : 3

Groups Printed- Trucks

Start Time	CR 65 Southbound					CSAH 22 Westbound					CSAH 22 Northbound					CR 65 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	
20:00	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
20:15	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
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
<b>Total</b>	0	0	0	0	0	0	0	1	0	1	0	2	0	0	2	0	0	1	0	1	4
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	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
<b>Total</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
<b>Total</b>	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	1	0	1	0	0	0	0	0	0	0	0	1	1	2
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
<b>Total</b>	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	2
<b>Grand Total</b>	0	2	5	6	13	0	35	376	1	412	0	134	8	21	163	0	10	336	90	436	1024
<b>Apprch %</b>	0	15.4	38.5	46.2		0	8.5	91.3	0.2		0	82.2	4.9	12.9		0	2.3	77.1	20.6		
<b>Total %</b>	0	0.2	0.5	0.6	1.3	0	3.4	36.7	0.1	40.2	0	13.1	0.8	2.1	15.9	0	1	32.8	8.8	42.6	

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2107

Study Date : 06/23/2021

## Signal Warrants - Summary

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### Major Street Approaches

**Eastbound: CR 65**

Number of Lanes : 1

Total Approach Volume: 6,034

**Westbound: CSAH 22**

Number of Lanes : 1

Total Approach Volume: 4,391

### Minor Street Approaches

**Northbound: CSAH 22**

Number of Lanes : 1

Total Approach Volume: 2,826

**Southbound: CR 65**

Number of Lanes : 1

Total Approach Volume: 282

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### Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 14 hours, 8 are needed

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

Required volumes reached for 11 hours, 8 are needed

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

Required 1A volumes reached for 14 hours, 8 are needed

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

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

Number of hours (14) volumes exceed minimum >= minimum required (4).

**Warrant 3 - Peak Hour.....Satisfied**

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

Number of one hour periods (25) volumes exceed minimum >= required (1). Delay data not evaluated.

**Warrant 3B - Peak Hour Volumes.....Satisfied**

Volumes exceed minimums for at least one hour period.

**Warrant 4 - Pedestrian Volumes.....Not Evaluated**

**Warrant 5 - School Crossing.....Not Evaluated**

**Warrant 6 - Coordinated Signal System.....Not Evaluated**

**Warrant 7 - Crash Experience.....Not Evaluated**

**Warrant 8 - Roadway Network.....Not Evaluated**

**Warrant 9 - Intersection Near a Grade Crossing.....Not Evaluated**

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2107

Study Date : 06/23/2021

## Warrant 1A - Minimum Volumes

#### Description

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

#### Summary

14 one hour periods meet minimums.  
Warrant IS met.

#### Site Data Required

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

#### Volume Requirements

Rural Factor of 70 % applied  
Veh/Hr Major = 350  
Veh/Hr Minor = 105

Time	Major Road CR 65		+	Major Road CR 65		=	Total	Minor Road CSAH 22		Met?
	Major EB			Major WB				Minor NB	Minor SB	
16:15 - 17:15	575		+	462		=	1037	287	26	Yes
15:15 - 16:15	523		+	359		=	882	277	30	Yes
17:15 - 18:15	526		+	343		=	869	254	20	Yes
14:15 - 15:15	428		+	302		=	730	205	13	Yes
07:15 - 08:15	367		+	334		=	701	225	22	Yes
06:15 - 07:15	308		+	323		=	631	132	22	Yes
08:15 - 09:15	343		+	237		=	580	182	19	Yes
18:15 - 19:15	352		+	212		=	564	209	13	Yes
13:15 - 14:15	344		+	202		=	546	142	16	Yes
11:15 - 12:15	327		+	214		=	541	142	16	Yes
12:15 - 13:15	312		+	217		=	529	146	12	Yes
19:15 - 20:15	299		+	193		=	492	110	8	Yes
09:15 - 10:15	278		+	200		=	478	142	12	Yes
10:15 - 11:15	279		+	198		=	477	137	16	Yes
06:00 - 07:00	281		+	310		=	591	101	26	No
05:45 - 06:45	226		+	264		=	490	73	22	No
05:30 - 06:30	208		+	235		=	443	53	10	No
20:15 - 21:15	270		+	138		=	408	73	10	No
20:30 - 21:30	240		+	139		=	379	75	9	No
05:15 - 06:15	172		+	193		=	365	45	11	No
20:45 - 21:45	210		+	126		=	336	72	7	No
05:00 - 06:00	136		+	168		=	304	37	5	No
21:00 - 22:00	174		+	109		=	283	58	5	No
04:45 - 05:45	108		+	140		=	248	30	7	No
21:15 - 22:15	138			82			220	52	7	No



# ANOKA COUNTY HIGHWAY PC-WARRANTS TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2107

Study Date : 06/23/2021

## Warrant 1B - Interruption of Continuous Traffic

**Description**

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

**Summary**

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 CR 65			=	Total	Minor Road CSAH 22		Met?
	Major EB	+	Major WB			Minor NB	Minor SB	
16:15 - 17:15	575	+	462	=	1037	287	26	Yes
15:15 - 16:15	523	+	359	=	882	277	30	Yes
17:15 - 18:15	526	+	343	=	869	254	20	Yes
14:15 - 15:15	428	+	302	=	730	205	13	Yes
07:00 - 08:00	340	+	324	=	664	234	18	Yes
08:00 - 09:00	360	+	265	=	625	182	22	Yes
06:00 - 07:00	281	+	310	=	591	101	26	Yes
18:15 - 19:15	352	+	212	=	564	209	13	Yes
13:15 - 14:15	344	+	202	=	546	142	16	Yes
11:15 - 12:15	327	+	214	=	541	142	16	Yes
12:15 - 13:15	312	+	217	=	529	146	12	Yes
11:00 - 12:00	312	+	212	=	524	142	19	No
10:45 - 11:45	304	+	214	=	518	141	18	No
10:30 - 11:30	281	+	212	=	493	132	15	No
19:15 - 20:15	299	+	193	=	492	110	8	No
09:00 - 10:00	288	+	204	=	492	143	11	No
05:45 - 06:45	226	+	264	=	490	73	22	No
10:00 - 11:00	289	+	189	=	478	140	15	No
09:15 - 10:15	278	+	200	=	478	142	12	No
10:15 - 11:15	279	+	198	=	477	137	16	No
09:45 - 10:45	276	+	191	=	467	137	13	No
09:30 - 10:30	270	+	190	=	460	139	13	No
19:30 - 20:30	287	+	166	=	453	98	11	No
05:30 - 06:30	208	+	235	=	443	53	10	No
20:00 - 21:00	292		142		434	82	11	No

# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2107  
Study Date : 06/23/2021

## Warrant 1C Combination of Warrants

#### Description

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

#### Summary

14 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 CR 65

#### Minor Road CSAH 22

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
16:00 - 17:00	568	+	460	=	1028	273	27	Yes
17:00 - 18:00	560	+	382	=	942	278	20	Yes
15:00 - 16:00	489	+	325	=	814	281	26	Yes
14:00 - 15:00	402	+	287	=	689	176	17	Yes
07:00 - 08:00	340	+	324	=	664	234	18	Yes
08:00 - 09:00	360	+	265	=	625	182	22	Yes
18:00 - 19:00	382	+	240	=	622	216	15	Yes
06:00 - 07:00	281	+	310	=	591	101	26	Yes
12:00 - 13:00	328	+	219	=	547	144	10	Yes
13:00 - 14:00	339	+	196	=	535	138	12	Yes
11:00 - 12:00	312	+	212	=	524	142	19	Yes
09:00 - 10:00	288	+	204	=	492	143	11	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
16:30 - 17:30	582	+	441	=	1023	292	26	Yes
15:30 - 16:30	526	+	392	=	918	289	26	Yes
17:30 - 18:30	477	+	314	=	791	240	16	Yes
14:30 - 15:30	471	+	299	=	770	220	17	Yes
07:30 - 08:30	368	+	311	=	679	204	25	Yes
06:30 - 07:30	337	+	333	=	670	175	24	Yes
13:30 - 14:30	339	+	230	=	569	147	20	Yes
11:30 - 12:30	335	+	216	=	551	152	16	Yes
12:30 - 13:30	340	+	211	=	551	142	11	Yes
08:30 - 09:30	316	+	224	=	540	177	14	Yes
18:30 - 19:30	331	+	207	=	538	182	13	Yes
10:30 - 11:30	281	+	212	=	493	132	15	Yes



# ANOKA COUNTY HIGHWAY

## PC-WARRANTS

### TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2107

Study Date : 06/23/2021

## Warrant 2 - Four Hour Volumes

### Description

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

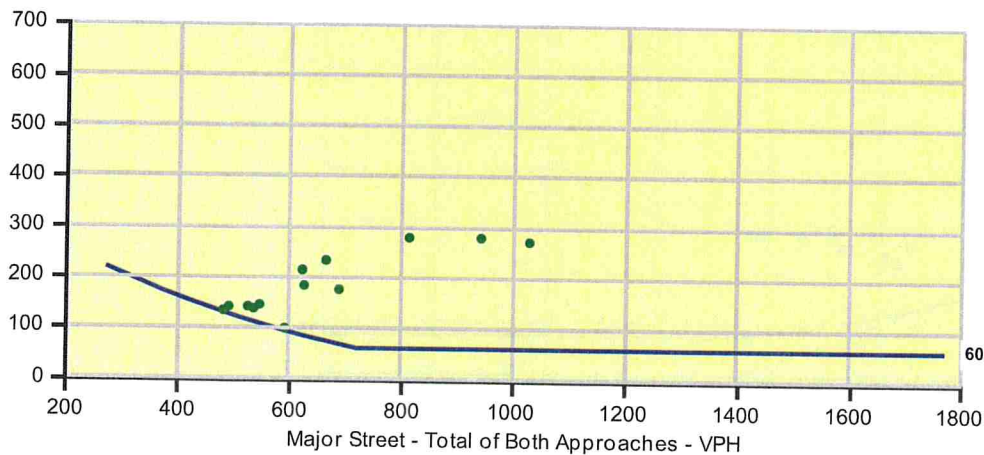
### Summary

14 one hour periods meet minimums.  
Warrant IS met.

### Site Data Required

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

Time	Major Road CR 65				Total	Minor Road CSAH 22		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:00 - 17:00	568	+	460	=	1028	273	27	Yes
17:00 - 18:00	560	+	382	=	942	278	20	Yes
15:00 - 16:00	489	+	325	=	814	281	26	Yes
14:00 - 15:00	402	+	287	=	689	176	17	Yes
07:00 - 08:00	340	+	324	=	664	234	18	Yes
08:00 - 09:00	360	+	265	=	625	182	22	Yes
18:00 - 19:00	382	+	240	=	622	216	15	Yes
06:00 - 07:00	281	+	310	=	591	101	26	Yes
12:00 - 13:00	328	+	219	=	547	144	10	Yes
13:00 - 14:00	339	+	196	=	535	138	12	Yes
11:00 - 12:00	312	+	212	=	524	142	19	Yes
							11	Yes



# ANOKA COUNTY HIGHWAY PC-WARRANTS TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2107  
Study Date : 06/23/2021

## Warrant 3B - Peak Hour Volumes

### Description

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

### Summary

26 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 CR 65				Total	Minor Road CSAH 22		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
16:15 - 17:15	575	+	462	=	1037	287	26	Yes
16:00 - 17:00	568	+	460	=	1028	273	27	Yes
16:30 - 17:30	582	+	441	=	1023	292	26	Yes
16:45 - 17:45	588	+	421	=	1009	284	22	Yes
15:45 - 16:45	560	+	445	=	1005	275	29	Yes
17:00 - 18:00	560	+	382	=	942	278	20	Yes
15:30 - 16:30	526	+	392	=	918	289	26	Yes
15:15 - 16:15	523	+	359	=	882	277	30	Yes
17:15 - 18:15	526	+	343	=	869	254	20	Yes
15:00 - 16:00	489	+	325	=	814	281	26	Yes
17:30 - 18:30	477	+	314	=	791	240	16	Yes
							17	Yes

