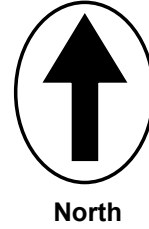


Date : 08/02/22

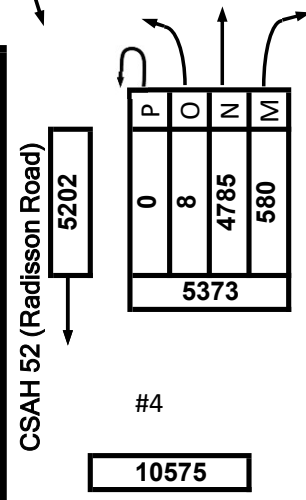
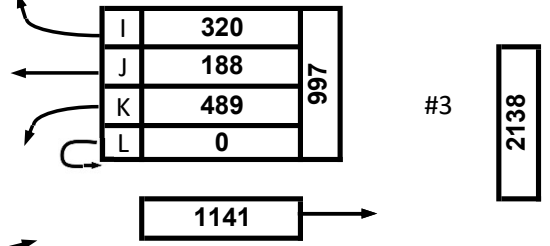
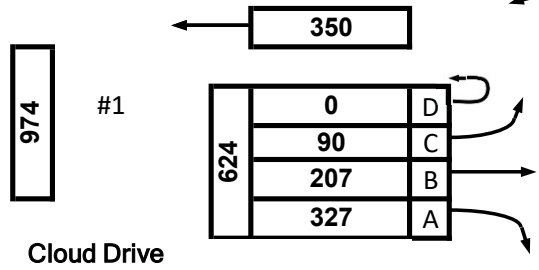
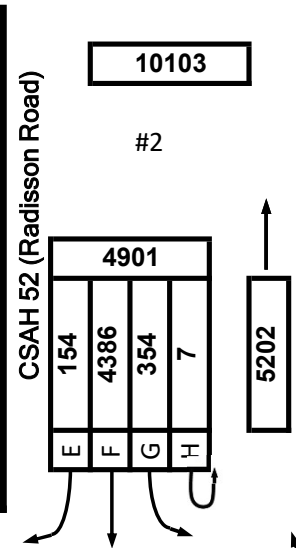
Count Number : TMC 2251

Location : CSAH 52 (Radisson Road)
@ Cloud Drive

Collection Period : 24 HR



North



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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

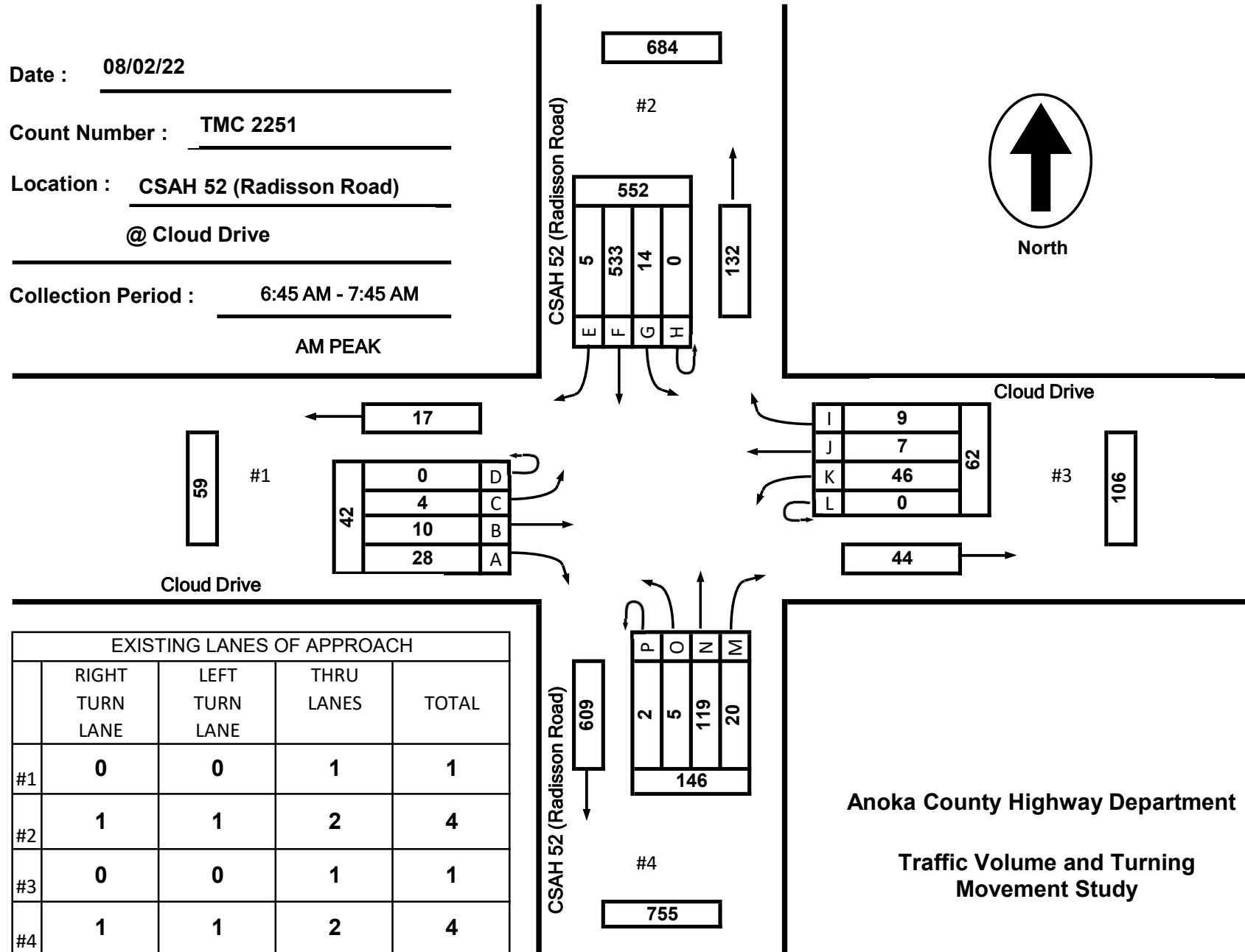
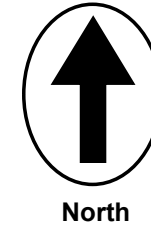
Date : 08/02/22

Count Number : TMC 2251

Location : CSAH 52 (Radisson Road)
@ Cloud Drive

Collection Period : 6:45 AM - 7:45 AM

AM PEAK



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

Anoka County Highway Department

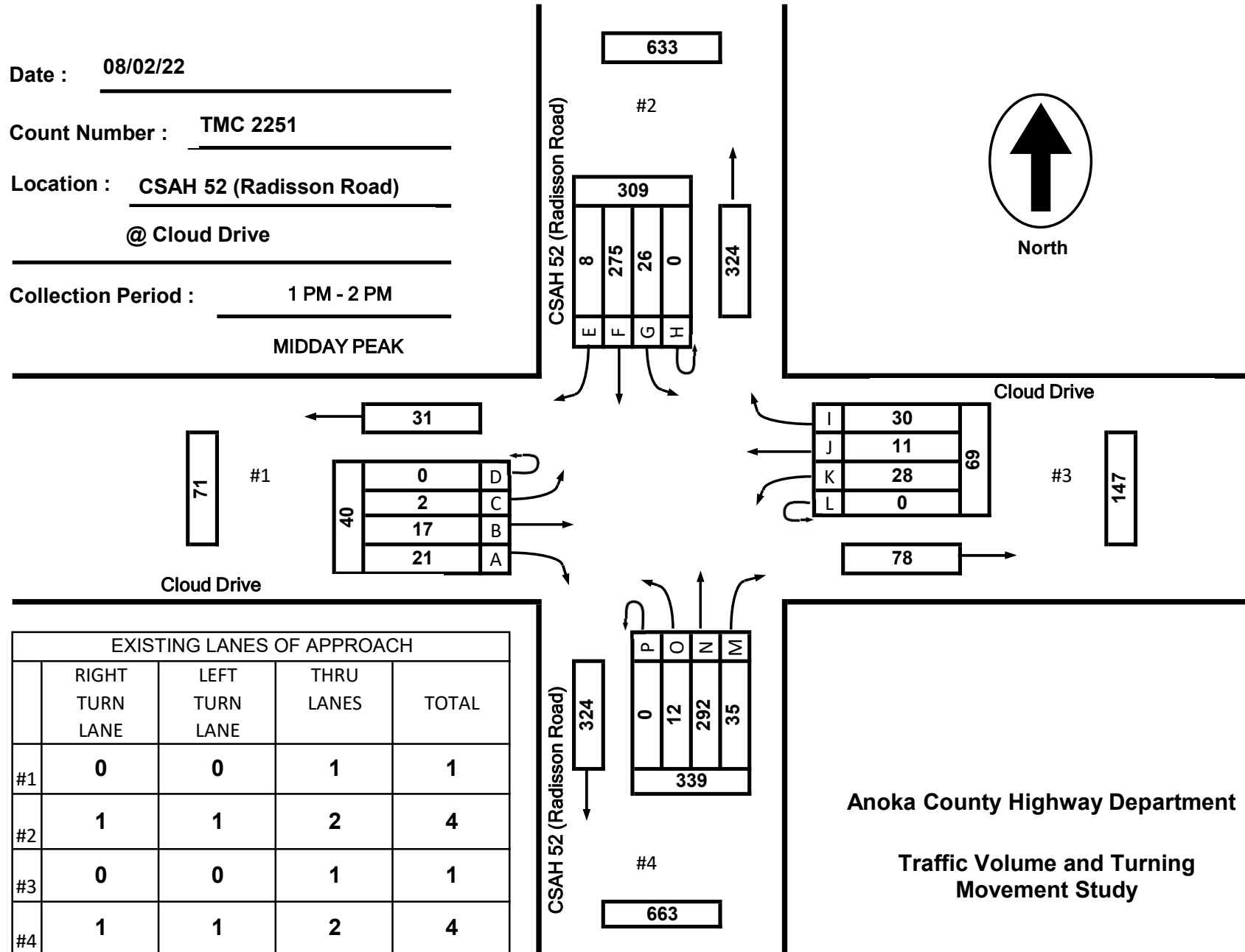
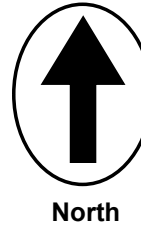
Traffic Volume and Turning Movement Study

Date : 08/02/22

Count Number : TMC 2251

Location : CSAH 52 (Radisson Road)
@ Cloud Drive

Collection Period : 1 PM - 2 PM
MIDDAY PEAK



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

Anoka County Highway Department

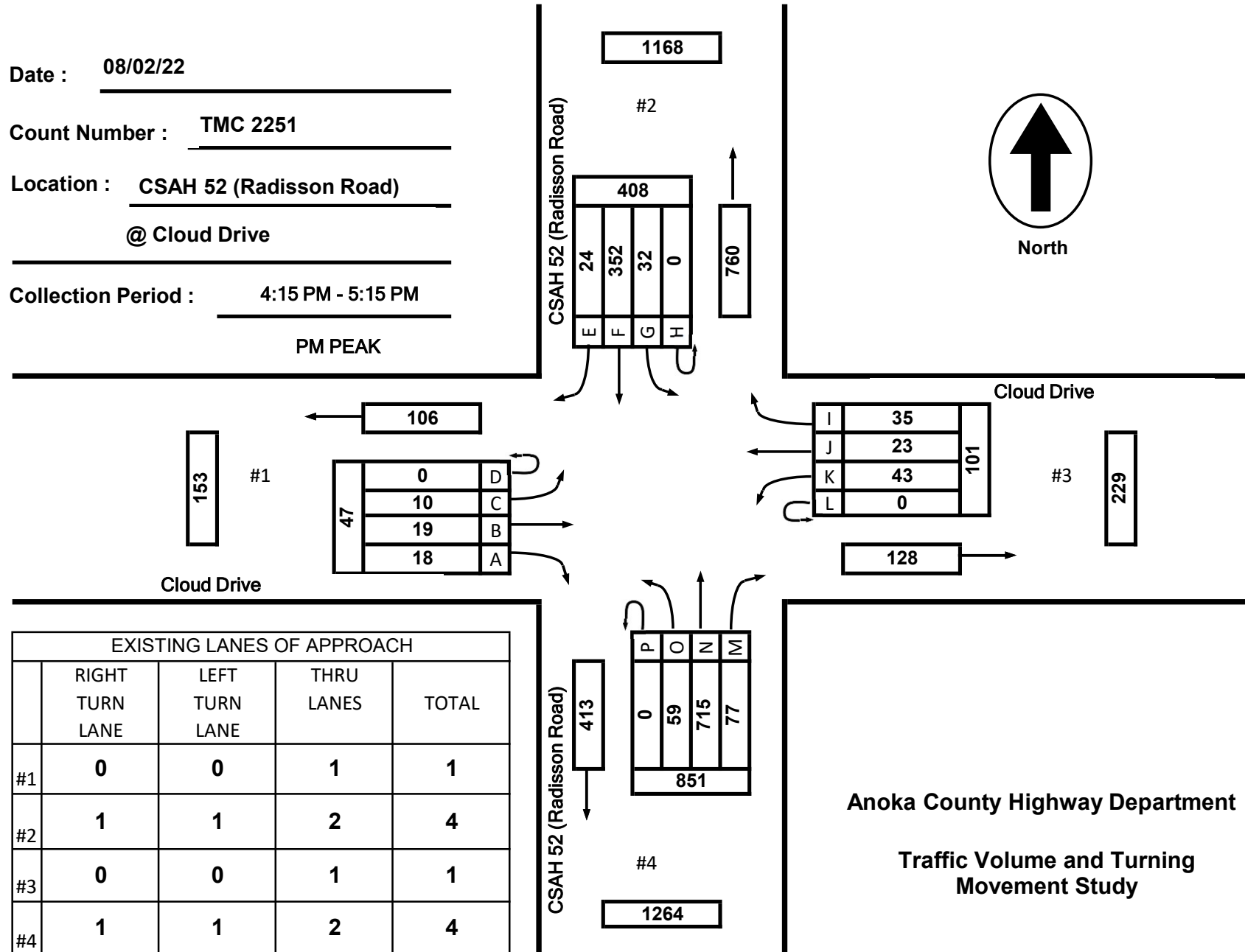
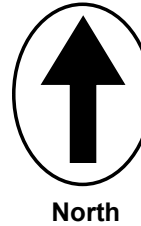
Traffic Volume and Turning Movement Study

Date : 08/02/22

Count Number : TMC 2251

Location : CSAH 52 (Radisson Road)
@ Cloud Drive

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	1	1	2	4
#3	0	0	1	1
#4	1	1	2	4

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 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 1

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Road) Southbound						Cloud Drive Westbound						CSAH 52 (Radisson Road) Northbound						Cloud Drive 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	1	9	0	0	0	10	0	1	1	0	0	2	0	9	0	0	0	9	0	0	1	0	0	1	0	22	22
00:15	0	4	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0	0	0	8	8
00:30	0	1	0	0	0	1	0	0	0	0	0	0	0	6	0	0	0	6	0	1	0	0	0	1	0	8	8
00:45	0	1	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	4	1	0	1	0	0	2	0	7	7
Total	1	15	0	0	0	16	0	1	1	0	0	2	0	23	0	0	0	23	1	1	2	0	0	4	0	45	45
01:00	0	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	3	0	0	1	0	0	1	0	5	5
01:15	0	1	0	0	0	1	0	0	0	0	0	0	1	2	0	0	0	3	0	0	0	0	0	0	0	4	4
01:30	0	3	0	0	0	3	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	6	6
01:45	0	1	0	0	0	1	0	0	0	0	0	0	0	2	1	0	0	3	0	0	0	0	0	0	0	4	4
Total	0	6	0	0	0	6	0	0	0	0	0	0	1	10	1	0	0	12	0	0	1	0	0	1	0	19	19
02:00	0	2	0	0	0	2	0	0	0	0	0	0	0	3	1	0	0	4	0	0	0	0	0	0	0	6	6
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	2	2
02:30	0	4	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	5	5
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	6	0	0	0	6	0	0	0	0	0	0	0	5	1	0	0	6	0	0	1	0	0	1	0	13	13
03:00	0	2	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	4	4
03:15	0	4	0	0	0	4	0	1	0	0	0	1	0	3	0	0	0	3	1	0	0	0	0	1	0	9	9
03:30	0	3	0	0	0	3	0	0	0	0	0	0	0	2	0	0	0	2	1	1	0	0	0	2	0	7	7
03:45	0	7	0	0	0	7	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Total	0	16	0	0	0	16	0	1	1	0	0	2	0	6	0	0	0	6	3	1	0	0	0	4	0	28	28
04:00	0	6	0	0	0	6	0	0	0	0	0	0	1	1	0	0	0	2	2	0	0	0	0	2	0	10	10
04:15	0	8	0	0	0	8	0	0	1	0	0	1	0	0	0	0	0	0	4	0	0	0	0	4	0	13	13
04:30	0	32	1	0	0	33	0	0	1	0	0	1	0	5	0	0	0	5	4	0	0	0	0	4	0	43	43
04:45	0	24	0	0	0	24	0	0	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	0	0	30	30
Total	0	70	1	0	0	71	0	0	2	0	0	2	1	12	0	0	0	13	10	0	0	0	0	10	0	96	96
05:00	0	42	0	0	0	42	0	0	0	0	0	0	0	5	0	0	0	5	2	0	0	0	0	2	0	49	49
05:15	0	60	2	0	0	62	0	0	2	0	0	2	1	5	0	0	0	6	1	0	0	0	0	1	0	71	71
05:30	0	67	0	0	0	67	1	0	5	0	0	6	2	12	1	0	0	15	8	0	1	0	0	9	0	97	97
05:45	1	84	2	0	0	87	1	0	4	0	0	5	3	14	0	0	0	17	3	2	4	0	0	9	0	118	118
Total	1	253	4	0	0	258	2	0	11	0	0	13	6	36	1	0	0	43	14	2	5	0	0	21	0	335	335



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 2

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Road) Southbound						Cloud Drive Westbound						CSAH 52 (Radisson Road) Northbound						Cloud Drive 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			
06:00	0	83	2	0	0	85	2	1	3	0	0	6	0	8	0	0	0	8	9	2	0	0	0	11	0	110	110
06:15	1	106	0	0	1	107	1	0	8	0	0	9	2	14	0	1	0	17	16	0	1	0	0	17	1	150	151
06:30	0	120	3	0	1	123	1	0	5	0	0	6	1	23	1	0	0	25	10	1	1	0	0	12	1	166	167
06:45	2	139	4	0	0	145	3	3	10	0	0	16	7	35	0	0	0	42	8	1	0	0	1	9	1	212	213
Total	3	448	9	0	2	460	7	4	26	0	0	37	10	80	1	1	0	92	43	4	2	0	1	49	3	638	641
07:00	1	97	3	0	2	101	2	2	9	0	0	13	4	30	1	1	0	36	5	4	1	0	0	10	2	160	162
07:15	1	124	3	0	0	128	1	1	14	0	0	16	2	29	2	1	0	34	9	2	1	0	0	12	0	190	190
07:30	1	173	4	0	0	178	3	1	13	0	0	17	7	25	2	0	0	34	6	3	2	0	0	11	0	240	240
07:45	0	117	2	0	0	119	0	2	6	0	0	8	6	35	6	0	0	47	7	2	4	0	0	13	0	187	187
Total	3	511	12	0	2	526	6	6	42	0	0	54	19	119	11	2	0	151	27	11	8	0	0	46	2	777	779
08:00	1	93	6	0	0	100	3	3	11	0	0	17	6	28	4	0	1	38	8	3	1	0	0	12	1	167	168
08:15	0	107	6	0	0	113	3	2	20	0	0	25	2	42	1	1	3	46	8	6	3	0	0	17	3	201	204
08:30	3	107	6	0	0	116	6	4	8	0	0	18	8	39	3	0	1	50	5	1	5	0	0	11	1	195	196
08:45	2	94	5	1	0	102	3	4	9	0	0	16	6	46	4	0	2	56	5	0	0	0	0	5	2	179	181
Total	6	401	23	1	0	431	15	13	48	0	0	76	22	155	12	1	7	190	26	10	9	0	0	45	7	742	749
09:00	2	62	4	0	0	68	2	2	10	0	0	14	5	43	3	0	2	51	2	2	1	0	0	5	2	138	140
09:15	2	54	2	0	0	58	2	2	5	0	0	9	9	33	8	0	1	50	1	1	3	0	0	5	1	122	123
09:30	3	62	6	0	2	71	1	3	8	0	0	12	5	41	4	0	0	50	3	1	0	0	0	4	2	137	139
09:45	0	65	3	0	0	68	0	4	5	0	0	9	5	40	3	0	1	48	4	3	0	0	0	7	1	132	133
Total	7	243	15	0	2	265	5	11	28	0	0	44	24	157	18	0	4	199	10	7	4	0	0	21	6	529	535
10:00	2	50	3	1	1	56	6	1	12	0	0	19	8	48	4	0	0	60	4	2	1	0	0	7	1	142	143
10:15	0	74	5	0	2	79	2	2	9	0	0	13	2	50	3	0	0	55	7	2	0	0	0	9	2	156	158
10:30	3	63	10	1	0	77	3	5	5	0	0	13	6	50	2	1	0	59	3	0	0	0	0	3	0	152	152
10:45	2	74	6	0	2	82	9	0	10	0	0	19	9	44	2	0	0	55	7	2	2	0	0	11	2	167	169
Total	7	261	24	2	5	294	20	8	36	0	0	64	25	192	11	1	0	229	21	6	3	0	0	30	5	617	622
11:00	3	50	1	1	0	55	8	2	10	0	0	20	9	51	2	0	0	62	3	5	1	0	0	9	0	146	146
11:15	0	47	4	1	2	52	5	3	2	0	0	10	11	44	1	0	0	56	3	5	1	0	0	9	2	127	129
11:30	3	57	5	0	0	65	4	2	4	0	0	10	5	63	7	0	0	75	6	0	3	0	0	9	0	159	159
11:45	1	84	6	0	0	91	2	2	6	0	0	10	4	62	5	0	0	71	2	1	0	0	0	3	0	175	175
Total	7	238	16	2	2	263	19	9	22	0	0	50	29	220	15	0	0	264	14	11	5	0	0	30	2	607	609
12:00	4	75	6	1	0	86	3	2	6	0	0	11	4	59	2	1	0	66	1	3	1	0	0	5	0	168	168
12:15	1	65	8	0	0	74	6	3	2	0	0	11	8	66	8	0	0	82	3	1	1	0	0	5	0	172	172
12:30	3	73	7	0	0	83	6	1	6	0	0	13	12	53	8	0	0	73	3	1	0	0	0	4	0	173	173



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 3

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Road) Southbound						Cloud Drive Westbound						CSAH 52 (Radisson Road) Northbound						Cloud Drive 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	4	76	2	0	0	82	5	4	14	0	0	23	5	68	1	0	0	74	3	9	0	0	0	12	0	191	191
Total	12	289	23	1	0	325	20	10	28	0	0	58	29	246	19	1	0	295	10	14	2	0	0	26	0	704	704
13:00	1	67	9	0	1	77	6	4	9	0	0	19	7	63	3	0	0	73	4	7	0	0	0	11	1	180	181
13:15	1	68	5	0	1	74	8	2	6	0	0	16	7	73	2	0	0	82	4	6	2	0	0	12	1	184	185
13:30	2	70	8	0	0	80	10	2	11	0	0	23	10	72	2	0	0	84	7	4	0	0	0	11	0	198	198
13:45	4	70	4	0	0	78	6	3	2	0	0	11	11	84	5	0	0	100	6	0	0	0	0	6	0	195	195
Total	8	275	26	0	2	309	30	11	28	0	0	69	35	292	12	0	0	339	21	17	2	0	0	40	2	757	759
14:00	4	51	6	0	0	61	5	3	7	0	0	15	8	92	10	0	0	110	4	1	1	0	0	6	0	192	192
14:15	3	52	8	0	0	63	6	2	8	0	0	16	11	94	3	0	0	108	1	3	2	0	0	6	0	193	193
14:30	2	47	5	0	0	54	7	2	5	0	0	14	8	119	4	0	0	131	2	1	1	0	0	4	0	203	203
14:45	2	65	5	0	0	72	6	2	3	0	0	11	9	100	6	0	0	115	5	3	1	0	0	9	0	207	207
Total	11	215	24	0	0	250	24	9	23	0	0	56	36	405	23	0	0	464	12	8	5	0	0	25	0	795	795
15:00	1	62	7	0	0	70	9	2	6	0	0	17	14	125	8	0	0	147	6	2	3	0	0	11	0	245	245
15:15	1	83	5	0	0	89	8	4	4	0	0	16	19	106	8	0	0	133	4	3	0	0	0	7	0	245	245
15:30	2	72	4	0	1	78	7	1	6	0	0	14	16	149	6	0	0	171	3	3	1	0	0	7	1	270	271
15:45	5	91	16	0	0	112	7	2	13	0	0	22	19	161	9	0	0	189	1	5	3	0	0	9	0	332	332
Total	9	308	32	0	1	349	31	9	29	0	0	69	68	541	31	0	0	640	14	13	7	0	0	34	1	1092	1093
16:00	2	72	7	0	0	81	11	4	3	0	0	18	12	169	8	1	0	190	9	7	1	0	0	17	0	306	306
16:15	7	94	9	0	0	110	8	3	8	0	0	19	19	170	12	0	0	201	7	5	2	0	0	14	0	344	344
16:30	1	101	7	0	0	109	13	8	12	0	0	33	19	180	14	0	0	213	3	3	4	0	0	10	0	365	365
16:45	8	76	9	0	0	93	9	3	9	0	0	21	17	198	17	0	0	232	3	4	1	0	0	8	0	354	354
Total	18	343	32	0	0	393	41	18	32	0	0	91	67	717	51	1	0	836	22	19	8	0	0	49	0	1369	1369
17:00	8	81	7	0	0	96	5	9	14	0	0	28	22	167	16	0	0	205	5	7	3	0	0	15	0	344	344
17:15	5	78	6	0	0	89	8	2	9	0	0	19	18	164	14	0	0	196	8	9	0	0	0	17	0	321	321
17:30	5	78	4	0	0	87	8	4	7	0	0	19	9	161	8	0	0	178	7	4	1	0	0	12	0	296	296
17:45	4	62	8	0	1	74	5	4	10	0	0	19	14	105	14	0	0	133	3	4	4	0	0	11	1	237	238
Total	22	299	25	0	1	346	26	19	40	0	0	85	63	597	52	0	0	712	23	24	8	0	0	55	1	1198	1199
18:00	4	61	5	0	0	70	8	6	8	0	0	22	16	109	5	0	0	130	3	4	3	0	0	10	0	232	232
18:15	7	83	10	0	0	100	7	8	3	0	0	18	14	87	7	0	0	108	4	5	1	0	0	10	0	236	236
18:30	5	74	7	0	0	86	6	6	5	0	0	17	13	78	4	0	0	95	3	9	0	0	0	12	0	210	210
18:45	2	36	5	0	0	43	7	6	6	0	0	19	10	72	3	0	0	85	12	0	0	0	0	12	0	159	159
Total	18	254	27	0	0	299	28	26	22	0	0	76	53	346	19	0	0	418	22	18	4	0	0	44	0	837	837



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 4

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Cars + - Trucks

Start Time	CSAH 52 (Radisson Road) Southbound						Cloud Drive Westbound						CSAH 52 (Radisson Road) Northbound						Cloud Drive 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				
19:00	1	52	5	0	0	58	7	2	6	0	0	15	10	75	2	0	0	87	2	7	3	0	0	12	0	172	172	
19:15	2	41	8	1	0	52	6	7	6	0	0	19	7	47	3	0	0	57	3	7	1	0	0	11	0	139	139	
19:30	2	50	5	0	0	57	2	4	7	0	0	13	7	50	5	0	0	62	1	3	0	0	0	4	0	136	136	
19:45	2	38	5	0	0	45	4	2	7	0	0	13	7	45	5	0	0	57	4	2	0	0	0	6	0	121	121	
Total	7	181	23	1	0	212	19	15	26	0	0	60	31	217	15	0	0	263	10	19	4	0	0	33	0	568	568	
20:00	1	37	8	0	0	46	4	0	8	0	0	12	10	54	4	1	0	69	3	1	0	0	0	4	0	131	131	
20:15	0	54	3	0	0	57	6	5	1	0	0	12	8	35	7	0	0	50	4	3	0	0	0	7	0	126	126	
20:30	0	30	7	0	0	37	4	3	7	0	0	14	8	44	5	0	0	57	1	2	1	0	0	4	0	112	112	
20:45	3	41	3	0	0	47	3	0	5	0	0	8	4	44	4	0	0	52	5	3	2	0	0	10	0	117	117	
Total	4	162	21	0	0	187	17	8	21	0	0	46	30	177	20	1	0	228	13	9	3	0	0	25	0	486	486	
21:00	2	44	2	0	0	48	0	1	6	0	0	7	4	37	4	0	0	45	2	6	0	0	0	8	0	108	108	
21:15	1	29	5	0	0	35	4	2	5	0	0	11	8	29	2	0	1	39	2	1	2	0	0	5	1	90	91	
21:30	3	22	3	0	0	28	2	1	2	0	0	5	4	32	5	0	0	41	2	1	0	0	0	3	0	77	77	
21:45	2	20	2	0	0	24	4	1	3	0	0	8	3	20	2	0	0	25	0	3	1	0	0	4	0	61	61	
Total	8	115	12	0	0	135	10	5	16	0	0	31	19	118	13	0	1	150	6	11	3	0	0	20	1	336	337	
22:00	2	15	2	0	0	19	0	1	3	0	0	4	4	16	1	0	0	21	2	0	1	0	0	3	0	47	47	
22:15	0	18	2	0	0	20	0	1	2	0	0	3	1	27	3	0	0	31	1	0	0	0	0	1	0	55	55	
22:30	0	15	0	0	0	15	0	0	2	0	0	2	2	25	2	0	0	29	0	1	0	0	0	1	0	47	47	
22:45	0	10	1	0	0	11	0	1	0	0	0	1	1	15	1	0	0	17	0	0	2	0	0	2	0	31	31	
Total	2	58	5	0	0	65	0	3	7	0	0	10	8	83	7	0	0	98	3	1	3	0	0	7	0	180	180	
23:00	0	9	0	0	0	9	0	1	0	0	0	1	3	11	1	0	0	15	2	1	0	0	0	3	0	28	28	
23:15	0	6	0	0	0	6	0	1	0	0	0	1	0	8	0	0	0	8	0	0	1	0	0	1	0	16	16	
23:30	0	3	0	0	0	3	0	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	11	11	
23:45	0	1	0	0	0	1	0	0	0	0	0	0	1	4	2	0	0	7	0	0	0	0	0	0	0	8	8	
Total	0	19	0	0	0	19	0	2	0	0	0	2	4	31	3	0	0	38	2	1	1	0	0	4	0	63	63	
Grand Total	154	4986	354	7	17	5501	320	188	489	0	0	997	580	4785	336	8	12	5709	327	207	90	0	1	624	30	12831	12861	
Apprch %	2.8	90.6	6.4	0.1			32.1	18.9	49	0			10.2	83.8	5.9	0.1			52.4	33.2	14.4	0						
Total %	1.2	38.9	2.8	0.1		42.9	2.5	1.5	3.8	0		7.8	4.5	37.3	2.6	0.1		44.5	2.5	1.6	0.7	0		4.9	0.2	99.8		
Cars +	152	4820	346	7		5342	314	186	482	0		982	571	4647	335	8		5573	325	202	89	0		617	0	0	12514	
% Cars +	98.7	96.7	97.7	100	100	96.8	98.1	98.9	98.6	0	0	98.5	98.4	97.1	99.7	100	100	97.4	99.4	97.6	98.9	0	100	98.7	0	0	97.3	
Trucks	2	166	8	0		176	6	2	7	0		15	9	138	1	0		148	2	5	1	0		8	0	0	347	
% Trucks	1.3	3.3	2.3	0	0	3.2	1.9	1.1	1.4	0	0	1.5	1.6	2.9	0.3	0	0	2.6	0.6	2.4	1.1	0	0	1.3	0	0	2.7	



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 5

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Start Time	CSAH 52 (Radisson Road) Southbound					Cloud Drive Westbound					CSAH 52 (Radisson Road) Northbound					Cloud Drive 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 06:45																					
06:45	2	139	4	0	145	3	3	10	0	16	7	35	0	0	42	8	1	0	0	9	212
07:00	1	97	3	0	101	2	2	9	0	13	4	30	1	1	36	5	4	1	0	10	160
07:15	1	124	3	0	128	1	1	14	0	16	2	29	2	1	34	9	2	1	0	12	190
07:30	1	173	4	0	178	3	1	13	0	17	7	25	2	0	34	6	3	2	0	11	240
Total Volume	5	533	14	0	552	9	7	46	0	62	20	119	5	2	146	28	10	4	0	42	802
% App. Total	0.9	96.6	2.5	0		14.5	11.3	74.2	0		13.7	81.5	3.4	1.4		66.7	23.8	9.5	0		
PHF	.625	.770	.875	.000	.775	.750	.583	.821	.000	.912	.714	.850	.625	.500	.869	.778	.625	.500	.000	.875	.835

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 13:00																					
13:00	1	67	9	0	77	6	4	9	0	19	7	63	3	0	73	4	7	0	0	11	180
13:15	1	68	5	0	74	8	2	6	0	16	7	73	2	0	82	4	6	2	0	12	184
13:30	2	70	8	0	80	10	2	11	0	23	10	72	2	0	84	7	4	0	0	11	198
13:45	4	70	4	0	78	6	3	2	0	11	11	84	5	0	100	6	0	0	0	6	195
Total Volume	8	275	26	0	309	30	11	28	0	69	35	292	12	0	339	21	17	2	0	40	757
% App. Total	2.6	89	8.4	0		43.5	15.9	40.6	0		10.3	86.1	3.5	0		52.5	42.5	5	0		
PHF	.500	.982	.722	.000	.966	.750	.688	.636	.000	.750	.795	.869	.600	.000	.848	.750	.607	.250	.000	.833	.956

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:15																					
16:15	7	94	9	0	110	8	3	8	0	19	19	170	12	0	201	7	5	2	0	14	344
16:30	1	101	7	0	109	13	8	12	0	33	19	180	14	0	213	3	3	4	0	10	365
16:45	8	76	9	0	93	9	3	9	0	21	17	198	17	0	232	3	4	1	0	8	354
17:00	8	81	7	0	96	5	9	14	0	28	22	167	16	0	205	5	7	3	0	15	344
Total Volume	24	352	32	0	408	35	23	43	0	101	77	715	59	0	851	18	19	10	0	47	1407
% App. Total	5.9	86.3	7.8	0		34.7	22.8	42.6	0		9	84	6.9	0		38.3	40.4	21.3	0		
PHF	.750	.871	.889	.000	.927	.673	.639	.768	.000	.765	.875	.903	.868	.000	.917	.643	.679	.625	.000	.783	.964



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 1

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	CSAH 52 (Radisson Road) Southbound					Cloud Drive Westbound					CSAH 52 (Radisson Road) Northbound					Cloud Drive 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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	1	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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
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	1	0	0	1	0	0	0	0	0	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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	0	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	0	0	0	0	0	0	0	0	0	0
05:30	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
05:45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
Total	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
06:00	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
06:15	0	4	0	0	4	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	6
06:30	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
06:45	0	7	1	0	8	0	0	1	0	1	1	2	0	0	3	0	0	0	0	0	0	12
Total	0	17	2	0	19	0	0	1	0	1	2	3	0	0	5	0	0	0	0	0	0	25
07:00	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5
07:15	0	6	0	0	6	1	0	0	0	1	0	1	0	0	1	1	0	0	0	0	1	9
07:30	0	6	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	7
07:45	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	5
Total	0	16	0	0	16	1	0	0	0	1	0	7	0	0	7	1	0	1	0	0	2	26
08:00	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
08:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
08:45	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5
Total	0	9	0	0	9	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	12
09:00	0	3	0	0	3	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 2

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	CSAH 52 (Radisson Road) Southbound					Cloud Drive Westbound					CSAH 52 (Radisson Road) Northbound					Cloud Drive 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	
09:15	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
09:30	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
09:45	0	1	0	0	1	0	1	0	0	1	1	5	0	0	6	0	0	0	0	0	8
Total	0	8	0	0	8	0	1	0	0	1	2	7	0	0	9	0	0	0	0	0	18
10:00	0	5	1	0	6	1	0	0	0	1	1	4	0	0	5	0	0	0	0	0	12
10:15	0	6	0	0	6	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	9
10:30	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	8
10:45	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
Total	0	17	1	0	18	2	0	0	0	2	1	12	0	0	13	0	0	0	0	0	33
11:00	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
11:15	0	6	1	0	7	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	9
11:30	1	5	0	0	6	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	10
11:45	1	2	1	0	4	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	11
Total	2	17	2	0	21	0	0	0	0	0	0	14	0	0	14	0	0	0	0	0	35
12:00	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
12:15	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
12:30	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
12:45	0	4	0	0	4	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	7
Total	0	11	0	0	11	0	0	0	0	0	0	7	0	0	7	0	1	0	0	1	19
13:00	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	6
13:15	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
13:30	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	8
13:45	0	4	0	0	4	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	8
Total	0	12	0	0	12	0	0	0	0	0	0	13	0	0	13	0	1	0	0	1	26
14:00	0	2	1	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
14:15	0	2	0	0	2	0	0	0	0	0	0	5	0	0	5	1	1	0	0	2	9
14:30	0	5	0	0	5	1	0	0	0	1	0	6	0	0	6	0	1	0	0	1	13
14:45	0	6	1	0	7	1	0	1	0	2	0	4	0	0	4	0	0	0	0	0	13
Total	0	15	2	0	17	2	0	1	0	3	0	17	0	0	17	1	2	0	0	3	40
15:00	0	8	0	0	8	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	11
15:15	0	4	0	0	4	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	8
15:30	0	3	0	0	3	0	0	1	0	1	0	4	0	0	4	0	0	0	0	0	8
15:45	0	3	0	0	3	0	0	1	0	1	0	3	0	0	3	0	0	0	0	0	7
Total	0	18	0	0	18	0	1	2	0	3	1	12	0	0	13	0	0	0	0	0	34
16:00	0	1	0	0	1	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	6
16:15	0	2	0	0	2	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	10
16:30	0	6	0	0	6	0	0	0	0	0	1	6	0	0	7	0	0	0	0	0	13
16:45	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	5
Total	0	10	0	0	10	0	0	0	0	0	1	23	0	0	24	0	0	0	0	0	34
17:00	0	1	0	0	1	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	7
17:15	0	2	0	0	2	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	7
17:30	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	2
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	3	0	0	3	0	0	2	0	2	1	10	0	0	11	0	0	0	0	0	16
18:00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
18:15	0	0	1	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
18:30	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	2
18:45	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Total	0	0	1	0	1	1	0	1	0	2	1	4	0	0	5	0	0	0	0	0	8



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2251-t-t
 Site Code :
 Start Date : 08/02/2022
 Page No : 3

Weather: Hot & Sunny
 CountCAM 2
 Study Conducted by: Kevin

Groups Printed- Trucks

Start Time	CSAH 52 (Radisson Road) Southbound					Cloud Drive Westbound					CSAH 52 (Radisson Road) Northbound					Cloud Drive 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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
19:15	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
19:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19:45	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
Total	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
20:00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
20:15	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
20:30	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
20:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	0	2	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	4
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	3
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	3
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22:30	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
23:00	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
23:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	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
Grand Total	2	166	8	0	176	6	2	7	0	15	9	138	1	0	148	2	5	1	0	8	347					
Apprch %	1.1	94.3	4.5	0		40	13.3	46.7	0		6.1	93.2	0.7	0		25	62.5	12.5	0							
Total %	0.6	47.8	2.3	0	50.7	1.7	0.6	2	0	4.3	2.6	39.8	0.3	0	42.7	0.6	1.4	0.3	0	2.3						

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/02/2022

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 52 (Radisson Road)

Number of Lanes : 2+

Total Approach Volume: 5,709

Southbound: CSAH 52 (Radisson Road)

Number of Lanes :2+

Total Approach Volume: 5,501

Minor Street Approaches

Eastbound: Cloud Drive

Number of Lanes :1

Total Approach Volume: 624

Westbound: Cloud Drive

Number of Lanes :1

Total Approach Volume: 997

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 7 hours, 8 are needed

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

Required 1A volumes reached for 2 hours, 8 are needed
Required 1B volumes reached for 12 hours, 8 are needed

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

Number of hours (3) volumes exceed minimum < minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (2) 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 : 08/02/2022

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 0 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **420**

Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 52 (Radisson Road)					Cloud Drive		
16:15 - 17:15	851	+	408	=	1259	47	101	No
16:30 - 17:30	846	+	387	=	1233	50	101	No
16:00 - 17:00	836	+	393	=	1229	49	91	No
15:45 - 16:45	793	+	412	=	1205	50	92	No
16:45 - 17:45	811	+	365	=	1176	52	87	No
15:30 - 16:30	751	+	381	=	1132	47	73	No
17:00 - 18:00	712	+	346	=	1058	55	85	No
15:15 - 16:15	683	+	360	=	1043	40	70	No
15:00 - 16:00	640	+	349	=	989	34	69	No
17:15 - 18:15	637	+	320	=	957	50	79	No
17:30 - 18:30	549	+	331	=	880	43	78	No
14:45 - 15:45	566	+	309	=	875	34	58	No
14:30 - 15:30	526	+	285	=	811	31	58	No
17:45 - 18:45	466	+	330	=	796	43	76	No
14:15 - 15:15	501	+	259	=	760	30	58	No
18:00 - 19:00	418	+	299	=	717	44	76	No
14:00 - 15:00	464	+	250	=	714	25	56	No
13:45 - 14:45	449	+	256	=	705	22	56	No
06:45 - 07:45	146	+	552	=	698	42	62	No
13:30 - 14:30	402	+	282	=	684	29	65	No
07:15 - 08:15	153	+	525	=	678	48	58	No
07:00 - 08:00	151	+	526	=	677	46	54	No
07:30 - 08:30	165	+	510	=	675	53	67	No
13:15 - 14:15	376	+	293	=	669	35	65	No
18:15 - 19:15	375		287		662	46	69	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/02/2022

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

Only 7 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **630**
 Veh/Hr Minor = **53**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 52 (Radisson Road)					Cloud Drive		
16:00 - 17:00	836	+	393	=	1229	49	91	Yes
17:00 - 18:00	712	+	346	=	1058	55	85	Yes
15:00 - 16:00	640	+	349	=	989	34	69	Yes
18:00 - 19:00	418	+	299	=	717	44	76	Yes
14:00 - 15:00	464	+	250	=	714	25	56	Yes
06:45 - 07:45	146	+	552	=	698	42	62	Yes
13:00 - 14:00	339	+	309	=	648	40	69	Yes
06:30 - 07:30	137	+	497	=	634	43	51	No
07:45 - 08:45	181	+	448	=	629	53	68	No
12:45 - 13:45	313	+	313	=	626	46	81	No
11:45 - 12:45	292	+	334	=	626	17	45	No
08:00 - 09:00	190	+	431	=	621	45	76	No
12:00 - 13:00	295	+	325	=	620	26	58	No
12:15 - 13:15	302	+	316	=	618	32	66	No
12:30 - 13:30	302	+	316	=	618	39	71	No
11:30 - 12:30	294	+	316	=	610	22	42	No
08:15 - 09:15	203	+	399	=	602	38	73	No
06:15 - 07:15	120	+	476	=	596	48	44	No
11:15 - 12:15	268	+	294	=	562	26	41	No
06:00 - 07:00	92	+	460	=	552	49	37	No
08:30 - 09:30	207	+	344	=	551	26	57	No
11:00 - 12:00	264	+	263	=	527	30	50	No
10:15 - 11:15	231	+	293	=	524	32	65	No
10:00 - 11:00	229	+	294	=	523	30	64	No
08:45 - 09:45	207		299		506	19	51	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/02/2022

Warrant 1C Combination of Warrants

Description

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

Summary

Only 2 hours meet 1A minimums.
12 hours meet 1B minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
Number of Major Lanes = **2 or more**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **336 504**

Veh/Hr Minor = **84 42**

Major Road CSAH 52 (Radisson Road)

Minor Road Cloud Drive

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:45 - 16:45	793	+	412	=	1205	50	92	Yes
16:45 - 17:45	811	+	365	=	1176	52	87	Yes
15:30 - 16:30	751	+	381	=	1132	47	73	No
15:15 - 16:15	683	+	360	=	1043	40	70	No
15:00 - 16:00	640	+	349	=	989	34	69	No
14:45 - 15:45	566	+	309	=	875	34	58	No
14:30 - 15:30	526	+	285	=	811	31	58	No
17:45 - 18:45	466	+	330	=	796	43	76	No
14:15 - 15:15	501	+	259	=	760	30	58	No
18:00 - 19:00	418	+	299	=	717	44	76	No
14:00 - 15:00	464	+	250	=	714	25	56	No
13:45 - 14:45	449	+	256	=	705	22	56	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:00 - 17:00	836	+	393	=	1229	49	91	Yes
17:00 - 18:00	712	+	346	=	1058	55	85	Yes
15:00 - 16:00	640	+	349	=	989	34	69	Yes
18:00 - 19:00	418	+	299	=	717	44	76	Yes
14:00 - 15:00	464	+	250	=	714	25	56	Yes
07:00 - 08:00	151	+	526	=	677	46	54	Yes
13:00 - 14:00	339	+	309	=	648	40	69	Yes
08:00 - 09:00	190	+	431	=	621	45	76	Yes
12:00 - 13:00	295	+	325	=	620	26	58	Yes
06:00 - 07:00	92	+	460	=	552	49	37	Yes
11:00 - 12:00	264	+	263	=	527	30	50	Yes
10:00 - 11:00	229	+	294	=	523	30	64	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/02/2022

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.

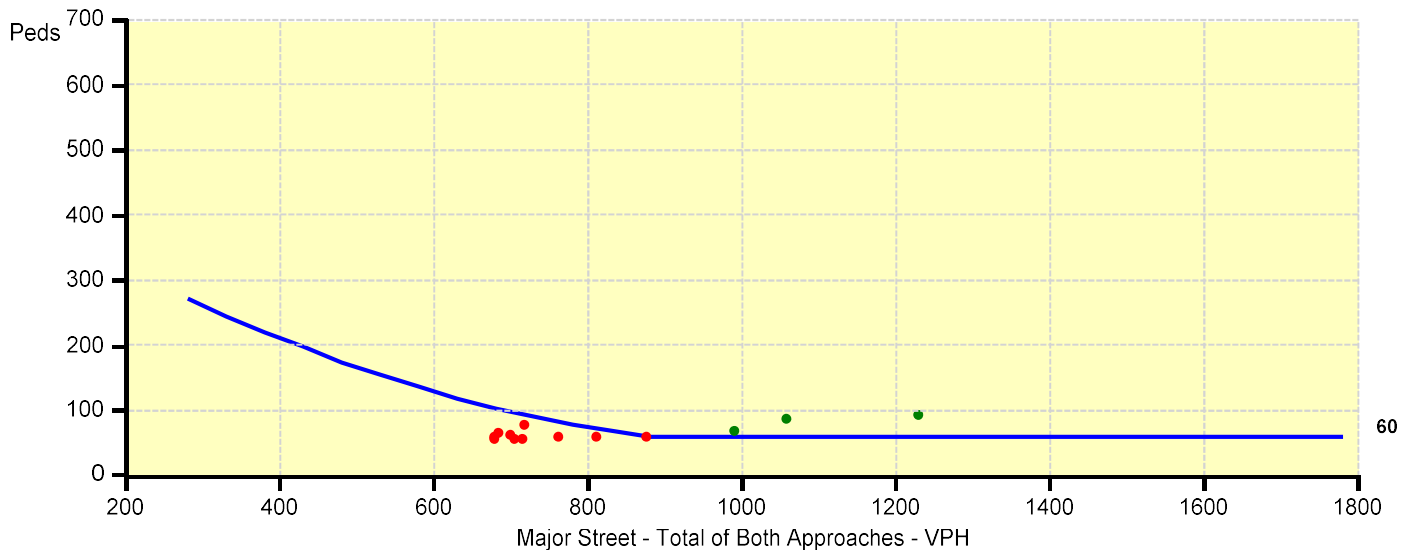
Summary

Only 3 one hour periods meet minimums.
Warrant is NOT met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 52 (Radisson Road)					Minor Road Cloud Drive		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:00 - 17:00	836	+	393	=	1229	49	91	Yes
17:00 - 18:00	712	+	346	=	1058	55	85	Yes
15:00 - 16:00	640	+	349	=	989	34	69	Yes
14:45 - 15:45	566	+	309	=	875	34	58	No
14:30 - 15:30	526	+	285	=	811	31	58	No
14:15 - 15:15	501	+	259	=	760	30	58	No
18:00 - 19:00	418	+	299	=	717	44	76	No
14:00 - 15:00	464	+	250	=	714	25	56	No
13:45 - 14:45	449	+	256	=	705	22	56	No
06:45 - 07:45	146	+	552	=	698	42	62	No
13:30 - 14:30	402	+	282	=	684	29	65	No
07:15 - 08:15	153		525		678	48	58	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 08/02/2022

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

5 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **2 or more**
 Number of Minor Lanes = **1**

Time	Major Road CSAH 52 (Radisson Road)					Minor Road Cloud Drive		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:15 - 17:15	851	+	408	=	1259	47	101	Yes
16:30 - 17:30	846	+	387	=	1233	50	101	Yes
16:00 - 17:00	836	+	393	=	1229	49	91	Yes
15:45 - 16:45	793	+	412	=	1205	50	92	Yes
16:45 - 17:45	811	+	365	=	1176	52	87	Yes
15:30 - 16:30	751	+	381	=	1132	47	73	No
17:00 - 18:00	712	+	346	=	1058	55	85	No
15:15 - 16:15	683	+	360	=	1043	40	70	No
15:00 - 16:00	640	+	349	=	989	34	69	No
17:15 - 18:15	637	+	320	=	957	50	79	No
17:30 - 18:30	549	+	331	=	880	43	78	No
14:45 - 15:45	566	+	309	=	875	34	58	No

