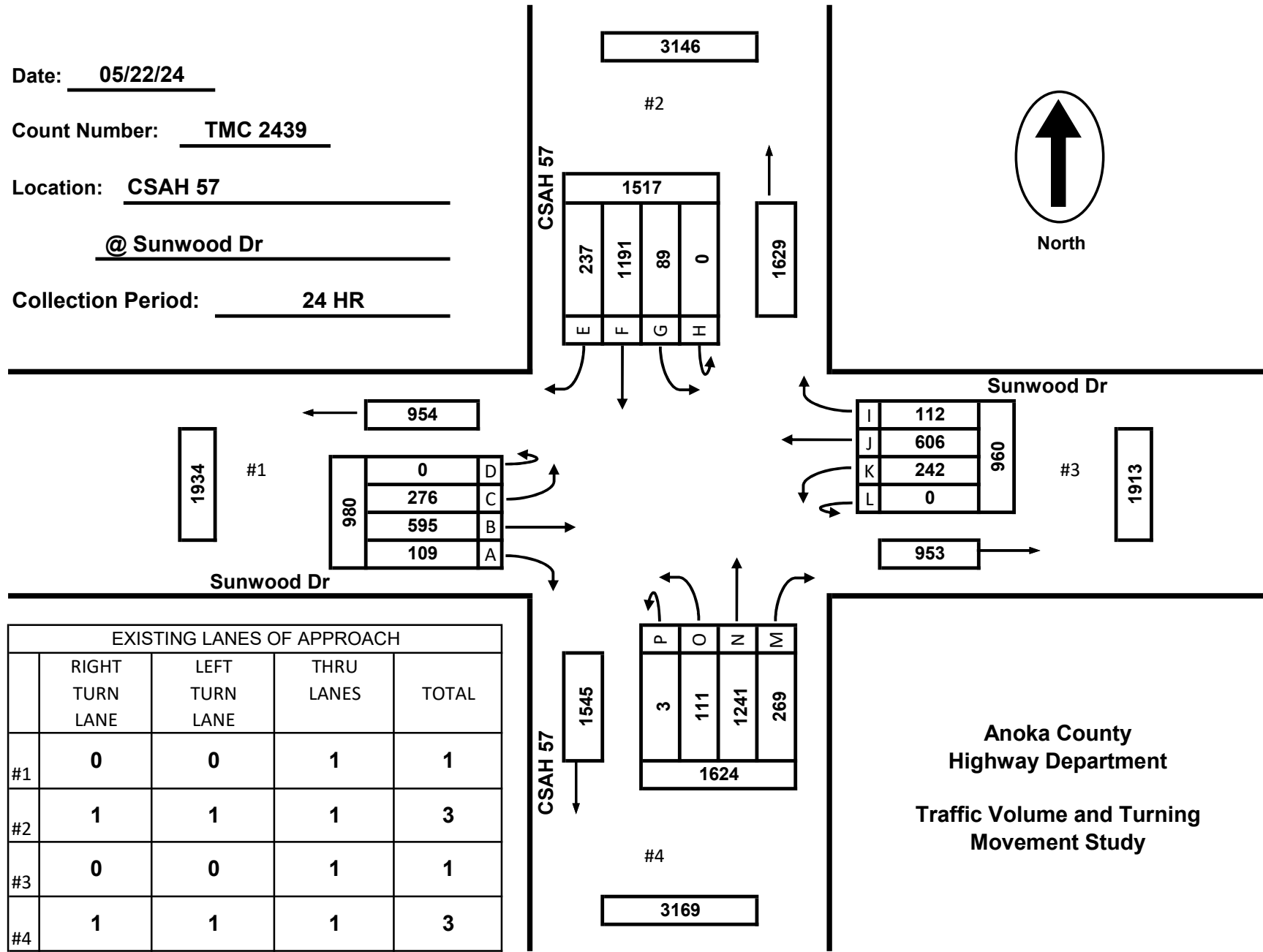
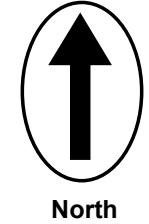


Date: 05/22/24

Count Number: TMC 2439

Location: CSAH 57
@ Sunwood Dr

Collection Period: 24 HR



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

**Anoka County
Highway Department
Traffic Volume and Turning
Movement Study**

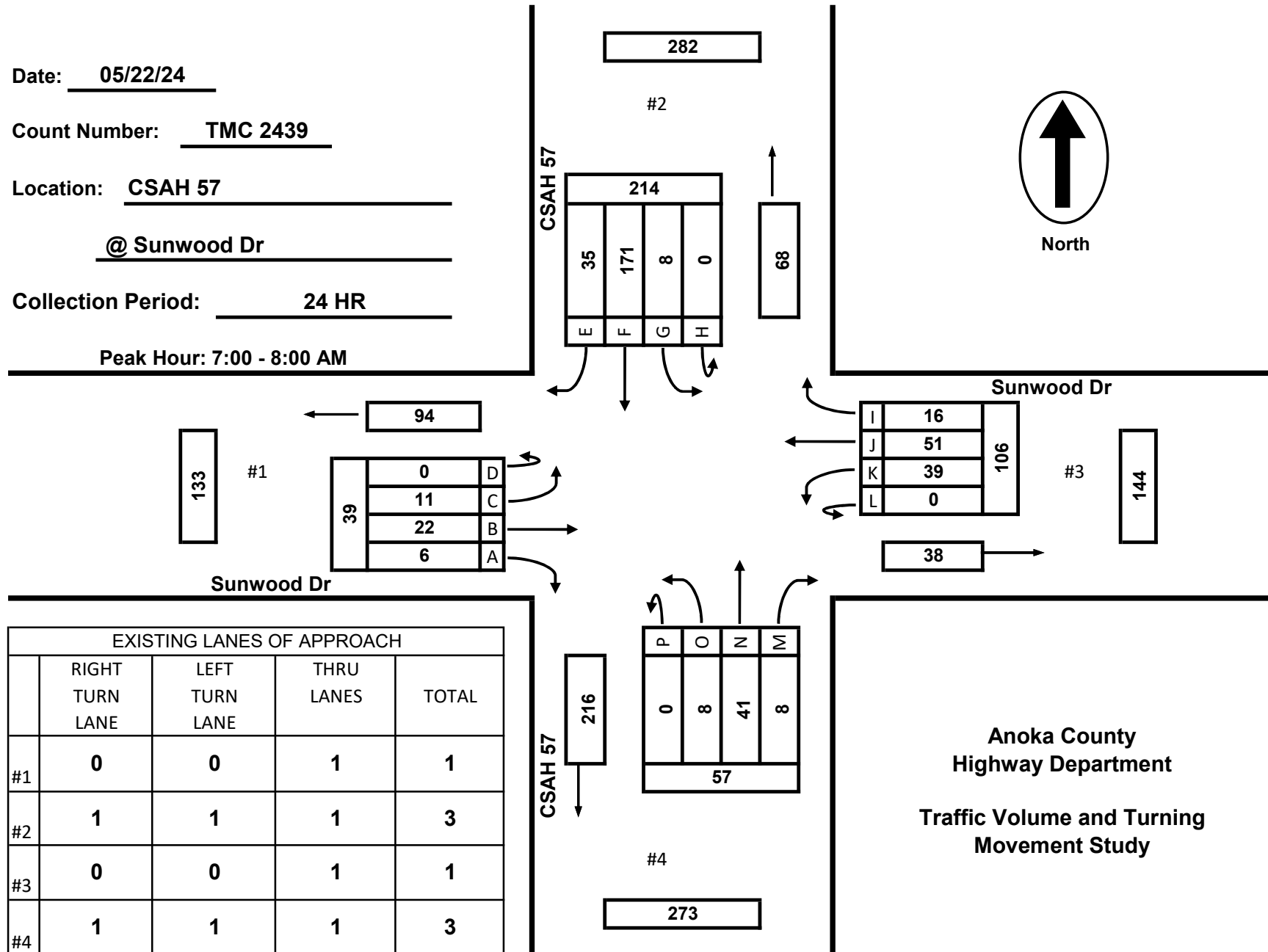
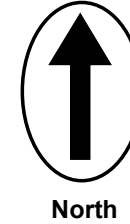
Date: 05/22/24

Count Number: TMC 2439

Location: CSAH 57
@ Sunwood Dr

Collection Period: 24 HR

Peak Hour: 7:00 - 8:00 AM



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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

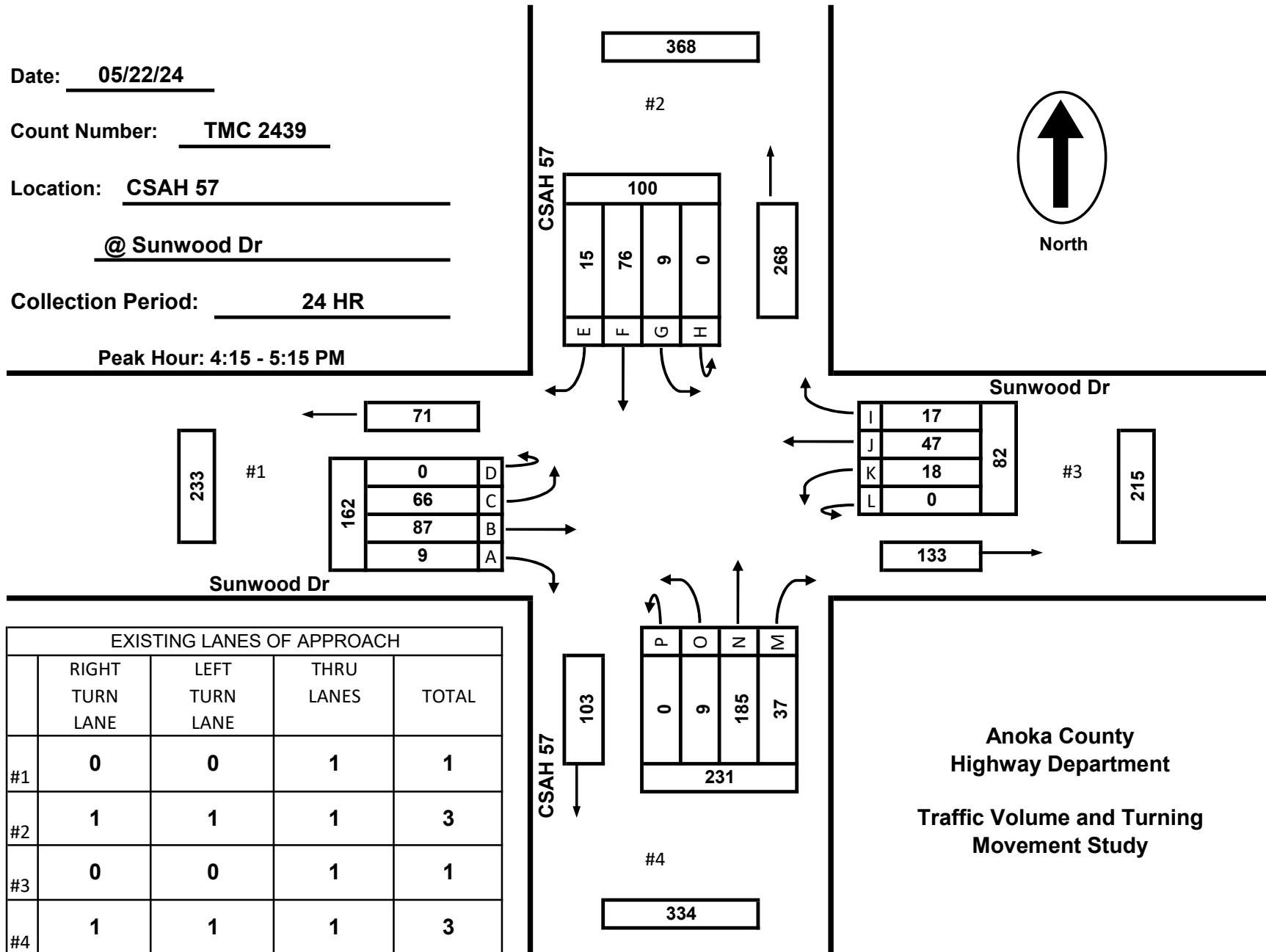
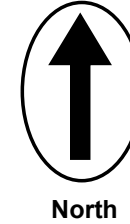
Date: 05/22/24

Count Number: TMC 2439

Location: CSAH 57
@ Sunwood Dr

Collection Period: 24 HR

Peak Hour: 4:15 - 5:15 PM



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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

**TMC 2439 CSAH 57 @ Sunwood Dr
Ramsey MN
Wednesday, May 22, 2024**

Time	Southbound CSAH 57						Westbound Sunwood Dr						Northbound CSAH 57						Eastbound Sunwood Dr						VEHICLE TOTAL	
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total		
12:00 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	4	0	0	0	4	0	2	0	0	0	2	7
12:15 AM	0	0	0	1	0	1	0	0	0	1	0	1	0	0	3	1	0	0	4	0	0	1	0	0	1	7
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	0	0	0	0	0	5
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	2
Hourly Total	0	0	0	1	0	1	0	1	0	1	0	2	0	0	12	2	0	0	14	0	2	1	1	0	4	21
1:00 AM	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	1
1:15 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	2
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	5	0	0	0	0	0	0	5
1:45 AM	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
Hourly Total	0	0	1	0	0	1	0	1	0	0	0	1	0	0	5	1	0	0	6	0	0	0	0	0	0	8
2:00 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	6	1	0	0	8	0	0	0	0	0	0	9
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	1	0	0	0	1	3
2:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:45 AM	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
Hourly Total	0	0	2	0	0	2	0	0	1	0	0	1	0	1	8	1	0	0	10	0	1	0	0	0	1	14
3:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
3:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	4
3:30 AM	0	0	1	2	0	3	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	0	0	6	2	0	8	0	0	1	0	0	1	0	0	1	1	0	0	2	0	0	1	0	0	1	12
4:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4:15 AM	0	0	8	0	0	8	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	2	0	3	12
4:30 AM	0	0	16	3	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	25
4:45 AM	0	0	19	3	0	22	0	2	4	0	0	6	0	0	0	0	0	0	0	0	0	6	0	0	6	34
Hourly Total	0	0	46	6	0	52	0	3	4	0	0	7	0	0	0	0	0	0	0	0	1	0	14	0	15	74
5:00 AM	0	0	13	1	0	14	0	2	1	0	0	3	0	0	3	0	0	0	3	0	0	0	2	0	2	22
5:15 AM	0	0	19	2	0	21	0	2	2	0	0	4	1	0	0	0	0	0	1	0	0	0	0	0	0	26
5:30 AM	0	0	20	6	0	26	0	1	4	0	0	5	0	2	1	0	0	0	3	0	1	0	0	0	1	35
5:45 AM	0	0	31	17	0	48	0	3	5	1	0	9	0	3	0	1	0	0	4	0	0	1	0	0	1	62
Hourly Total	0	0	83	26	0	109	0	8	12	1	0	21	1	5	4	1	0	0	11	0	1	1	2	0	4	145
6:00 AM	0	0	25	9	0	34	0	5	11	0	0	16	0	1	2	1	0	0	4	0	0	1	0	0	1	55
6:15 AM	0	0	34	2	0	36	0	5	5	0	0	10	0	2	3	0	0	0	5	0	0	2	2	0	4	55
6:30 AM	0	0	28	8	1	36	0	8	11	0	0	19	0	0	8	1	0	0	9	0	0	3	2	0	5	69
6:45 AM	0	1	37	20	1	58	0	7	12	3	0	22	0	2	11	5	0	0	18	0	1	7	1	0	9	107
Hourly Total	0	1	124	39	2	164	0	25	39	3	0	67	0	5	24	7	0	0	36	0	1	13	5	0	19	286
7:00 AM	0	1	34	9	0	44	0	14	13	2	0	29	0	3	6	2	0	0	11	0	5	0	2	0	7	91
7:15 AM	0	1	51	6	0	58	0	14	16	5	0	35	0	3	14	1	0	0	18	0	4	7	2	0	13	124
7:30 AM	0	1	42	10	1	53	0	4	4	6	2	14	0	0	12	5	0	0	17	0	2	5	1	0	8	92
7:45 AM	0	5	44	10	0	59	0	7	18	3	0	28	0	2	9	0	0	0	11	0	0	10	1	0	11	109
Hourly Total	0	8	171	35	1	214	0	39	51	16	2	106	0	8	41	8	0	0	57	0	11	22	6	0	39	416

**TMC 2439 CSAH 57 @ Sunwood Dr
Ramsey MN
Wednesday, May 22, 2024**

Time	Southbound CSAH 57						Westbound Sunwood Dr						Northbound CSAH 57						Eastbound Sunwood Dr						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
8:00 AM	0	1	23	8	1	32	0	2	16	0	0	18	0	3	14	2	0	19	0	7	11	2	1	20	
8:15 AM	0	0	12	3	0	15	0	3	4	0	0	7	0	0	3	2	0	5	0	5	10	2	0	17	
8:30 AM	0	0	11	3	2	14	0	2	6	1	0	9	0	2	11	0	0	13	0	4	7	2	0	13	
8:45 AM	0	1	17	5	0	23	0	2	7	1	0	10	0	2	5	2	0	9	0	1	9	1	0	11	
Hourly Total	0	2	63	19	3	84	0	9	33	2	0	44	0	7	33	6	0	46	0	17	37	7	1	61	235
9:00 AM	0	4	24	0	2	28	0	4	5	2	0	11	0	0	14	4	0	18	0	5	10	0	0	15	72
9:15 AM	0	0	21	2	0	23	0	7	19	2	0	28	0	0	8	5	0	13	0	4	9	1	0	14	78
9:30 AM	0	1	13	3	0	17	0	3	7	0	0	10	0	1	7	2	0	10	0	2	12	1	0	15	52
9:45 AM	0	1	12	3	0	16	0	2	4	0	0	6	0	1	7	3	0	11	0	2	7	1	0	10	43
Hourly Total	0	6	70	8	2	84	0	16	35	4	0	55	0	2	36	14	0	52	0	13	38	3	0	54	245
10:00 AM	0	0	10	1	0	11	0	0	5	2	0	7	1	1	10	3	0	15	0	4	8	1	0	13	46
10:15 AM	0	0	12	0	1	12	0	1	8	0	0	9	0	1	9	0	0	10	0	2	7	1	0	10	41
10:30 AM	0	1	9	0	0	10	0	3	8	0	0	11	0	1	12	2	0	15	0	2	2	1	0	5	41
10:45 AM	0	0	11	3	0	14	0	1	11	0	0	12	0	3	9	2	0	14	0	1	8	2	0	11	51
Hourly Total	0	1	42	4	1	47	0	5	32	2	0	39	1	6	40	7	0	54	0	9	25	5	0	39	179
11:00 AM	0	2	17	2	2	21	0	3	11	0	0	14	0	5	10	2	0	17	0	3	7	2	0	12	64
11:15 AM	0	0	10	1	3	11	0	3	8	0	1	11	0	3	11	1	0	15	0	5	6	2	0	13	50
11:30 AM	0	2	16	1	0	19	0	1	7	2	0	10	0	0	10	5	0	15	0	4	9	1	0	14	58
11:45 AM	0	2	9	1	0	12	0	5	6	2	0	13	0	1	10	7	0	18	0	4	3	4	0	11	54
Hourly Total	0	6	52	5	5	63	0	12	32	4	1	48	0	9	41	15	0	65	0	16	25	9	0	50	226
12:00 PM	0	2	13	4	1	19	0	3	5	2	2	10	0	0	17	3	0	20	0	3	16	1	0	20	69
12:15 PM	0	1	9	4	1	14	0	4	11	0	0	15	0	3	8	2	0	13	0	4	8	1	0	13	55
12:30 PM	0	2	22	2	2	26	0	4	10	0	0	14	0	1	12	3	0	16	0	2	3	0	0	5	61
12:45 PM	0	0	7	3	0	10	0	5	10	3	0	18	0	1	10	3	0	14	0	4	10	6	0	20	62
Hourly Total	0	5	51	13	4	69	0	16	36	5	2	57	0	5	47	11	0	63	0	13	37	8	0	58	247
1:00 PM	0	3	9	6	0	18	0	5	22	5	0	32	0	1	17	3	0	21	0	2	8	1	0	11	82
1:15 PM	0	2	7	3	0	12	0	1	13	2	0	16	0	0	15	4	0	19	0	2	10	1	0	13	60
1:30 PM	0	1	15	2	0	18	0	2	9	1	0	12	0	0	14	4	0	18	0	3	6	0	0	9	57
1:45 PM	0	1	11	5	0	17	0	1	10	0	0	11	0	2	16	6	0	24	0	1	6	0	0	7	59
Hourly Total	0	7	42	16	0	65	0	9	54	8	0	71	0	3	62	17	0	82	0	8	30	2	0	40	258
2:00 PM	0	2	14	3	2	19	0	2	8	1	0	11	0	1	24	2	0	27	0	4	9	2	0	15	72
2:15 PM	0	0	15	2	0	17	0	4	8	0	0	12	0	1	23	3	0	27	0	1	11	1	0	13	69
2:30 PM	0	1	11	2	0	14	0	2	12	6	0	20	0	3	26	11	0	40	0	2	9	1	0	12	86
2:45 PM	0	0	13	4	0	17	0	4	8	2	0	14	0	0	25	2	0	27	0	3	5	2	0	10	68
Hourly Total	0	3	53	11	2	67	0	12	36	9	0	57	0	5	98	18	0	121	0	10	34	6	0	50	295
3:00 PM	0	0	18	4	0	22	0	4	8	6	0	18	0	2	29	5	0	36	0	7	6	2	0	15	91
3:15 PM	0	3	18	2	0	23	0	1	7	2	0	10	0	5	30	6	0	41	0	7	20	2	0	29	103
3:30 PM	0	2	17	2	1	21	0	3	11	2	0	16	1	7	41	4	0	53	0	12	15	3	0	30	120
3:45 PM	0	0	20	2	0	22	0	1	6	2	0	9	0	6	47	3	0	56	0	8	15	5	0	28	115
Hourly Total	0	5	73	10	1	88	0	9	32	12	0	53	1	20	147	18	0	186	0	34	56	12	0	102	429

**TMC 2439 CSAH 57 @ Sunwood Dr
Ramsey MN
Wednesday, May 22, 2024**

Time	Southbound CSAH 57						Westbound Sunwood Dr						Northbound CSAH 57						Eastbound Sunwood Dr						VEHICLE TOTAL
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	
4:00 PM	0	4	16	6	0	26	0	5	20	3	0	28	0	8	60	3	0	71	0	7	16	0	0	23	148
4:15 PM	0	1	10	4	0	15	0	6	14	5	0	25	0	3	37	10	0	50	0	15	15	1	0	31	121
4:30 PM	0	3	26	1	0	30	0	4	8	7	0	19	0	3	38	4	0	45	0	22	30	5	0	57	151
4:45 PM	0	3	20	4	1	27	0	6	16	1	1	23	0	1	56	11	0	68	0	12	20	3	0	35	153
Hourly Total	0	11	72	15	1	98	0	21	58	16	1	95	0	15	191	28	0	234	0	56	81	9	0	146	573
5:00 PM	0	2	20	6	1	28	0	2	9	4	0	15	0	2	54	12	0	68	0	17	22	0	0	39	150
5:15 PM	0	2	22	0	1	24	0	4	10	1	0	15	0	2	47	9	0	58	0	7	14	2	0	23	120
5:30 PM	0	2	16	1	0	19	0	9	6	3	0	18	0	0	34	5	0	39	0	6	10	0	0	16	92
5:45 PM	0	3	12	3	3	18	0	5	10	2	0	17	0	0	27	4	0	31	0	3	12	2	0	17	83
Hourly Total	0	9	70	10	5	89	0	20	35	10	0	65	0	4	162	30	0	196	0	33	58	4	0	95	445
6:00 PM	0	2	10	4	2	16	0	3	7	1	0	11	0	5	25	6	0	36	0	5	10	0	0	15	78
6:15 PM	0	1	6	0	0	7	0	1	6	2	0	9	0	1	24	9	0	34	0	3	9	2	0	14	64
6:30 PM	0	1	16	4	1	21	0	2	4	4	0	10	0	1	15	5	0	21	0	5	9	2	0	16	68
6:45 PM	0	4	8	0	0	12	0	5	14	1	0	20	0	3	27	5	0	35	0	3	5	0	0	8	75
Hourly Total	0	8	40	8	3	56	0	11	31	8	0	50	0	10	91	25	0	126	0	16	33	4	0	53	285
7:00 PM	0	3	9	2	1	14	0	5	6	2	0	13	0	0	24	1	0	25	0	5	12	0	0	17	69
7:15 PM	0	1	9	0	1	10	0	2	8	3	0	13	0	0	14	9	0	23	0	5	12	0	0	17	63
7:30 PM	0	1	12	0	1	13	0	2	6	1	0	9	0	0	25	6	0	31	0	3	6	0	0	9	62
7:45 PM	0	0	5	2	1	7	0	3	8	1	0	12	0	0	14	2	0	16	0	1	5	2	0	8	43
Hourly Total	0	5	35	4	4	44	0	12	28	7	0	47	0	0	77	18	0	95	0	14	35	2	0	51	237
8:00 PM	0	2	12	0	0	14	0	1	5	0	0	6	0	2	12	1	0	15	0	1	6	1	0	8	43
8:15 PM	0	3	14	0	1	17	0	2	12	0	1	14	0	2	12	3	0	17	0	2	13	2	0	17	65
8:30 PM	0	1	10	0	0	11	0	1	4	1	0	6	0	1	16	4	0	21	0	2	5	0	0	7	45
8:45 PM	0	0	13	2	2	15	0	2	3	1	0	6	0	0	17	9	0	26	0	1	3	5	0	9	56
Hourly Total	0	6	49	2	3	57	0	6	24	2	1	32	0	5	57	17	0	79	0	6	27	8	0	41	209
9:00 PM	0	2	6	1	0	9	0	1	6	2	0	9	0	0	8	3	0	11	0	2	9	0	0	11	40
9:15 PM	0	1	7	0	0	8	0	2	5	0	2	7	0	0	9	3	0	12	0	2	5	1	0	8	35
9:30 PM	0	0	4	1	0	5	0	2	6	0	0	8	0	1	4	3	0	8	0	4	1	0	0	5	26
9:45 PM	0	0	5	0	0	5	0	0	2	0	0	2	0	0	10	5	0	15	0	0	0	0	0	0	22
Hourly Total	0	3	22	2	0	27	0	5	19	2	2	26	0	1	31	14	0	46	0	8	15	1	0	24	123
10:00 PM	0	0	12	0	0	12	0	1	7	0	0	8	0	0	5	2	0	7	0	1	6	1	0	8	35
10:15 PM	0	2	1	0	0	3	0	1	1	0	0	2	0	0	1	2	0	3	0	3	5	0	0	8	16
10:30 PM	0	0	3	0	0	3	0	0	1	0	0	1	0	0	4	1	0	5	0	0	5	0	0	5	14
10:45 PM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	4	2	0	6	0	1	5	0	0	6	15
Hourly Total	0	2	18	1	0	21	0	2	9	0	0	11	0	0	14	7	0	21	0	5	21	1	0	27	80
11:00 PM	0	0	4	0	0	4	0	0	2	0	0	2	0	0	7	3	0	10	0	0	1	0	0	1	17
11:15 PM	0	1	1	0	0	2	0	0	1	0	0	1	0	0	5	0	0	5	0	0	2	0	0	2	10
11:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	1	1	0	0	2	5
11:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	5	0	0	5	0	0	1	0	0	1	7
Hourly Total	0	1	6	0	0	7	0	0	4	0	0	4	0	0	19	3	0	22	0	1	5	0	0	6	39
DAILY TOTAL	0	89	1191	237	37	1517	0	242	606	112	9	960	3	111	1241	269	0	1624	0	276	595	109	1	980	5081
Cars	0	88	1155	236	29	1479	0	237	600	107	7	944	3	105	1194	259	0	1561	0	272	586	104	1	962	4946
Heavy Vehicles	0	1	36	1	8	38	0	5	6	5	2	16	0	6	47	10	0	63	0	4	9	5	0	18	135
Heavy Vehicle %	0.00%	1.12%	3.02%	0.42%	21.62%	2.50%	0.00%	2.07%	0.99%	4.46%	22.22%	1.67%	0.00%	5.41%	3.79%	3.72%	0.00%	3.88%	0.00%	1.45%	1.51%	4.59%	0.00%	1.84%	2.66%

**TMC 2439 CSAH 57 @ Sunwood Dr
Ramsey MN
Wednesday, May 22, 2024**

AM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL																								
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total																									
7:00 AM	0	1	34	9	0	44	0	14	13	2	0	29	0	3	6	2	0	11	0	5	0	2	0	7	0	14	16	5	0	35	0	3	14	1	0	18	0	2	12	5	0	17	0	0	10	1	0	11	91
7:15 AM	0	1	51	6	0	58	0	14	16	5	0	35	0	3	14	1	0	18	0	4	7	2	0	13	0	4	6	2	0	14	0	0	9	0	0	9	0	0	10	1	0	11	124						
7:30 AM	0	1	42	10	1	53	0	4	4	6	2	14	0	0	12	5	0	17	0	2	5	1	0	8	0	7	6	3	0	16	0	0	12	0	0	12	92												
7:45 AM	0	5	44	10	0	59	0	7	18	3	0	28	0	2	9	0	0	11	0	0	10	1	0	11	0	0	10	1	0	11	0	0	10	1	0	11	109												
Peak Hour Total PHF	0	8	171	35	1	214	0	39	51	16	2	106	0	8	41	8	0	57	0	11	22	6	0	39	0	11	550	750	0	750	0	0	750	0	0	750	416												
	0.000	0.400	0.838	0.875	0.250	0.907	0.000	0.696	0.708	0.667	0.250	0.757	0.000	0.667	0.732	0.400	0.000	0.792	0.000	0.550	0.550	0.750	0.000	0.750	0.000	0.550	0.550	0.750	0.000	0.750	0.839																		

PM Peak Hour

Time	Southbound						Westbound						Northbound						Eastbound						VEHICLE TOTAL																		
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total																			
4:15 PM	0	1	10	4	0	15	0	6	14	5	0	25	0	3	37	10	0	50	0	15	15	1	0	31	0	3	26	1	0	30	0	3	38	4	0	45	0	22	30	5	0	57	121
4:30 PM	0	3	26	1	0	30	0	4	8	7	0	19	0	3	38	4	0	45	0	12	20	3	0	35	0	3	20	4	1	27	0	1	56	11	0	68	0	12	20	3	0	35	151
4:45 PM	0	3	20	4	1	27	0	6	16	1	1	23	0	2	54	12	0	68	0	17	22	0	0	39	0	2	20	6	1	28	0	2	54	12	0	68	0	17	22	0	0	39	150
5:00 PM	0	2	20	6	1	28	0	2	9	4	0	15	0	2	54	12	0	68	0	17	22	0	0	39	0	2	20	6	1	28	0	2	54	12	0	68	0	17	22	0	0	39	150
Peak Hour Total PHF	0	9	76	15	2	100	0	18	47	17	1	82	0	9	185	37	0	231	0	66	87	9	0	162	0	9	76	15	2	100	0	18	47	17	1	82	0	9	185	37	0	231	575
	0.000	0.750	0.731	0.625	0.500	0.833	0.000	0.750	0.734	0.607	0.250	0.820	0.000	0.750	0.826	0.771	0.000	0.849	0.000	0.750	0.725	0.450	0.000	0.711	0.000	0.750	0.725	0.450	0.000	0.711	0.940												

Total Vehicles On Leg				3146			
Vehicles Entering Intersection		1517		Vehicles Exiting Intersection		1629	
Southbound							
Cars	236	1155	88	0	29		
Heavy	1	36	1	0	8		
Total	237	1191	89	0	37		

Total Vehicles on Leg 1934	Vehicles Entering Intersection 980	Eastbound	Cars	Heavy	Total	
			1	0	1	
			0	0	0	
			272	4	276	
			586	9	595	
104	5	109				

Total Vehicles on Leg 1913	Vehicles Entering Intersection 960	Westbound	Cars	Heavy	Total	
			107	5	112	
			600	6	606	
			237	5	242	
			0	0	0	
7	2	9				

Daily Volumes

Cars	0	3	105	1194	259
Heavy	0	0	6	47	10
Total	0	3	111	1241	269
Northbound					
Vehicles Entering Intersection			1624		
Vehicles Exiting Intersection			1545		
Total Vehicles On Leg			3169		

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2439

Study Date : 05/24/2024

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 57

Number of Lanes : 2+

Total Approach Volume: 1,624

Southbound: CSAH 57

Number of Lanes :2+

Total Approach Volume: 1,517

Minor Street Approaches

Eastbound: Sunwood Dr

Number of Lanes :1

Total Approach Volume: 980

Westbound: Sunwood Dr

Number of Lanes :1

Total Approach Volume: 960

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 1 hours, 8 are needed

Required 1B volumes reached for 0 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 one hour period. Delay data not evaluated.

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

Volumes do not exceed minimums for any 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 2439

Study Date : 05/24/2024

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 57					Sunwood Dr		
16:30 - 17:30	239	+	109	=	348	154	72	No
16:00 - 17:00	234	+	98	=	332	146	95	No
16:45 - 17:45	233	+	98	=	331	113	71	No
16:15 - 17:15	231	+	100	=	331	162	82	No
15:45 - 16:45	222	+	93	=	315	139	81	No
15:30 - 16:30	230	+	84	=	314	112	78	No
15:15 - 16:15	221	+	92	=	313	110	63	No
17:00 - 18:00	196	+	89	=	285	95	65	No
06:45 - 07:45	64	+	213	=	277	37	100	No
15:00 - 16:00	186	+	88	=	274	102	53	No
07:00 - 08:00	57	+	214	=	271	39	106	No
07:15 - 08:15	65	+	202	=	267	52	95	No
06:30 - 07:30	56	+	196	=	252	34	105	No
17:15 - 18:15	164	+	77	=	241	71	61	No
14:45 - 15:45	157	+	83	=	240	84	58	No
14:30 - 15:30	144	+	76	=	220	66	62	No
06:15 - 07:15	43	+	174	=	217	25	80	No
07:30 - 08:30	52	+	159	=	211	56	67	No
17:30 - 18:30	140	+	60	=	200	62	55	No
14:15 - 15:15	130	+	70	=	200	50	64	No
06:00 - 07:00	36	+	164	=	200	19	67	No
14:00 - 15:00	121	+	67	=	188	50	57	No
13:45 - 14:45	118	+	67	=	185	47	54	No
17:45 - 18:45	122	+	62	=	184	62	47	No
18:00 - 19:00	126		56		182	53	50	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2439

Study Date : 05/24/2024

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 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 57					Sunwood Dr		
16:30 - 17:30	239	+	109	=	348	154	72	No
16:00 - 17:00	234	+	98	=	332	146	95	No
16:45 - 17:45	233	+	98	=	331	113	71	No
16:15 - 17:15	231	+	100	=	331	162	82	No
15:45 - 16:45	222	+	93	=	315	139	81	No
15:30 - 16:30	230	+	84	=	314	112	78	No
15:15 - 16:15	221	+	92	=	313	110	63	No
17:00 - 18:00	196	+	89	=	285	95	65	No
06:45 - 07:45	64	+	213	=	277	37	100	No
15:00 - 16:00	186	+	88	=	274	102	53	No
07:00 - 08:00	57	+	214	=	271	39	106	No
07:15 - 08:15	65	+	202	=	267	52	95	No
06:30 - 07:30	56	+	196	=	252	34	105	No
17:15 - 18:15	164	+	77	=	241	71	61	No
14:45 - 15:45	157	+	83	=	240	84	58	No
14:30 - 15:30	144	+	76	=	220	66	62	No
06:15 - 07:15	43	+	174	=	217	25	80	No
07:30 - 08:30	52	+	159	=	211	56	67	No
17:30 - 18:30	140	+	60	=	200	62	55	No
14:15 - 15:15	130	+	70	=	200	50	64	No
06:00 - 07:00	36	+	164	=	200	19	67	No
14:00 - 15:00	121	+	67	=	188	50	57	No
13:45 - 14:45	118	+	67	=	185	47	54	No
17:45 - 18:45	122	+	62	=	184	62	47	No
18:00 - 19:00	126		56		182	53	50	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2439

Study Date : 05/24/2024

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 1 hours meet 1A minimums.
Only 0 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 57

Minor Road Sunwood Dr

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:30 - 17:30	239	+	109	=	348	154	72	Yes
16:00 - 17:00	234	+	98	=	332	146	95	No
16:15 - 17:15	231	+	100	=	331	162	82	No
15:45 - 16:45	222	+	93	=	315	139	81	No
15:30 - 16:30	230	+	84	=	314	112	78	No
15:15 - 16:15	221	+	92	=	313	110	63	No
06:45 - 07:45	64	+	213	=	277	37	100	No
15:00 - 16:00	186	+	88	=	274	102	53	No
07:00 - 08:00	57	+	214	=	271	39	106	No
07:15 - 08:15	65	+	202	=	267	52	95	No
06:30 - 07:30	56	+	196	=	252	34	105	No
14:45 - 15:45	157		83		240	84	58	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
16:30 - 17:30	239	+	109	=	348	154	72	No
16:00 - 17:00	234	+	98	=	332	146	95	No
16:15 - 17:15	231	+	100	=	331	162	82	No
16:45 - 17:45	233	+	98	=	331	113	71	No
15:45 - 16:45	222	+	93	=	315	139	81	No
15:30 - 16:30	230	+	84	=	314	112	78	No
15:15 - 16:15	221	+	92	=	313	110	63	No
17:00 - 18:00	196	+	89	=	285	95	65	No
06:45 - 07:45	64	+	213	=	277	37	100	No
15:00 - 16:00	186	+	88	=	274	102	53	No
07:00 - 08:00	57	+	214	=	271	39	106	No
07:15 - 08:15	65		202		267	52	95	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2439

Study Date : 05/24/2024

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.

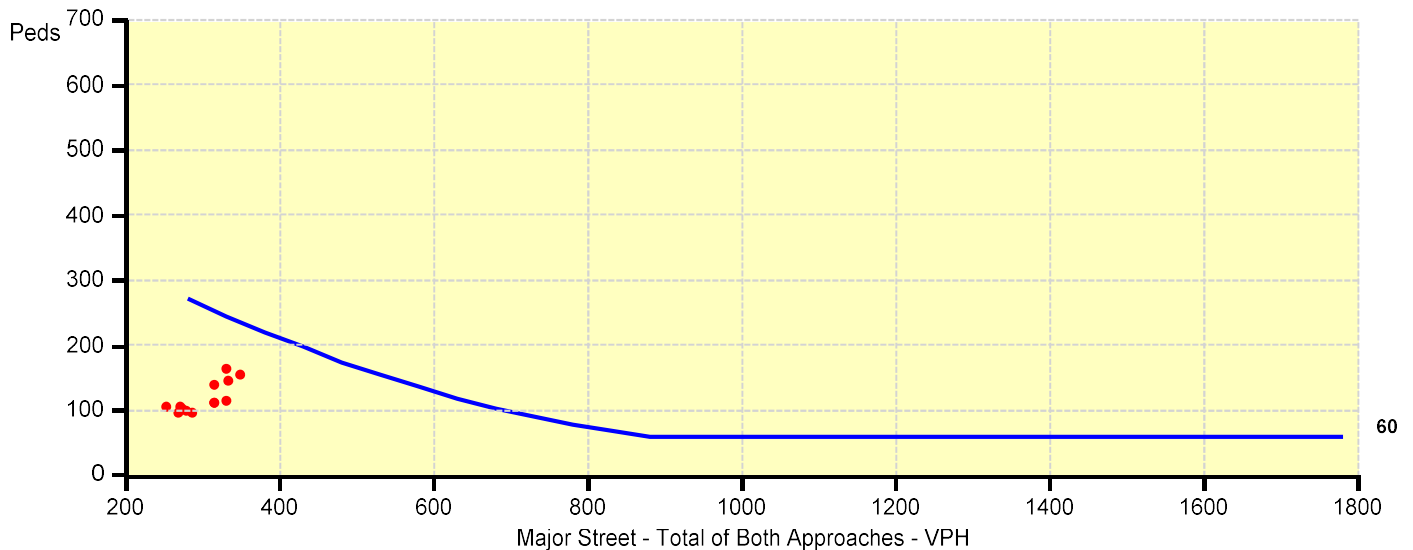
Summary

Only 0 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 57				Total	Minor Road Sunwood Dr		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:30 - 17:30	239	+	109	=	348	154	72	No
16:00 - 17:00	234	+	98	=	332	146	95	No
16:45 - 17:45	233	+	98	=	331	113	71	No
16:15 - 17:15	231	+	100	=	331	162	82	No
15:45 - 16:45	222	+	93	=	315	139	81	No
15:30 - 16:30	230	+	84	=	314	112	78	No
15:15 - 16:15	221	+	92	=	313	110	63	No
17:00 - 18:00	196	+	89	=	285	95	65	No
06:45 - 07:45	64	+	213	=	277	37	100	No
15:00 - 16:00	186	+	88	=	274	102	53	No
07:00 - 08:00	57	+	214	=	271	39	106	No
07:15 - 08:15	65		202		267	52	95	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2439

Study Date : 05/24/2024

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 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 57					Minor Road Sunwood Dr		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
16:30 - 17:30	239	+	109	=	348	154	72	No
16:00 - 17:00	234	+	98	=	332	146	95	No
16:45 - 17:45	233	+	98	=	331	113	71	No
16:15 - 17:15	231	+	100	=	331	162	82	No
15:45 - 16:45	222	+	93	=	315	139	81	No
15:30 - 16:30	230	+	84	=	314	112	78	No
15:15 - 16:15	221	+	92	=	313	110	63	No
17:00 - 18:00	196	+	89	=	285	95	65	No
06:45 - 07:45	64	+	213	=	277	37	100	No
15:00 - 16:00	186	+	88	=	274	102	53	No
07:00 - 08:00	57	+	214	=	271	39	106	No
07:15 - 08:15	65		202		267	52	95	No

