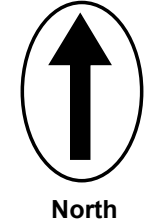


Date: 08/29/24

Count Number: TMC 2474

Location: CSAH 22
@ 194th Ln NW

Collection Period: 24 HR



North

2673

#2

CSAH 22

1021			
17	988	16	0
E	F	G	H

1652

194th Ln Nw

I	17	33
J	3	
K	13	
L	0	

#3

67

34

84

#1

39

45	0	D
	15	C
	4	B
	26	A

194th Ln Nw

P	O	N	M
3	19	1620	14
1656			

#4

2686

CSAH 22

1030

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

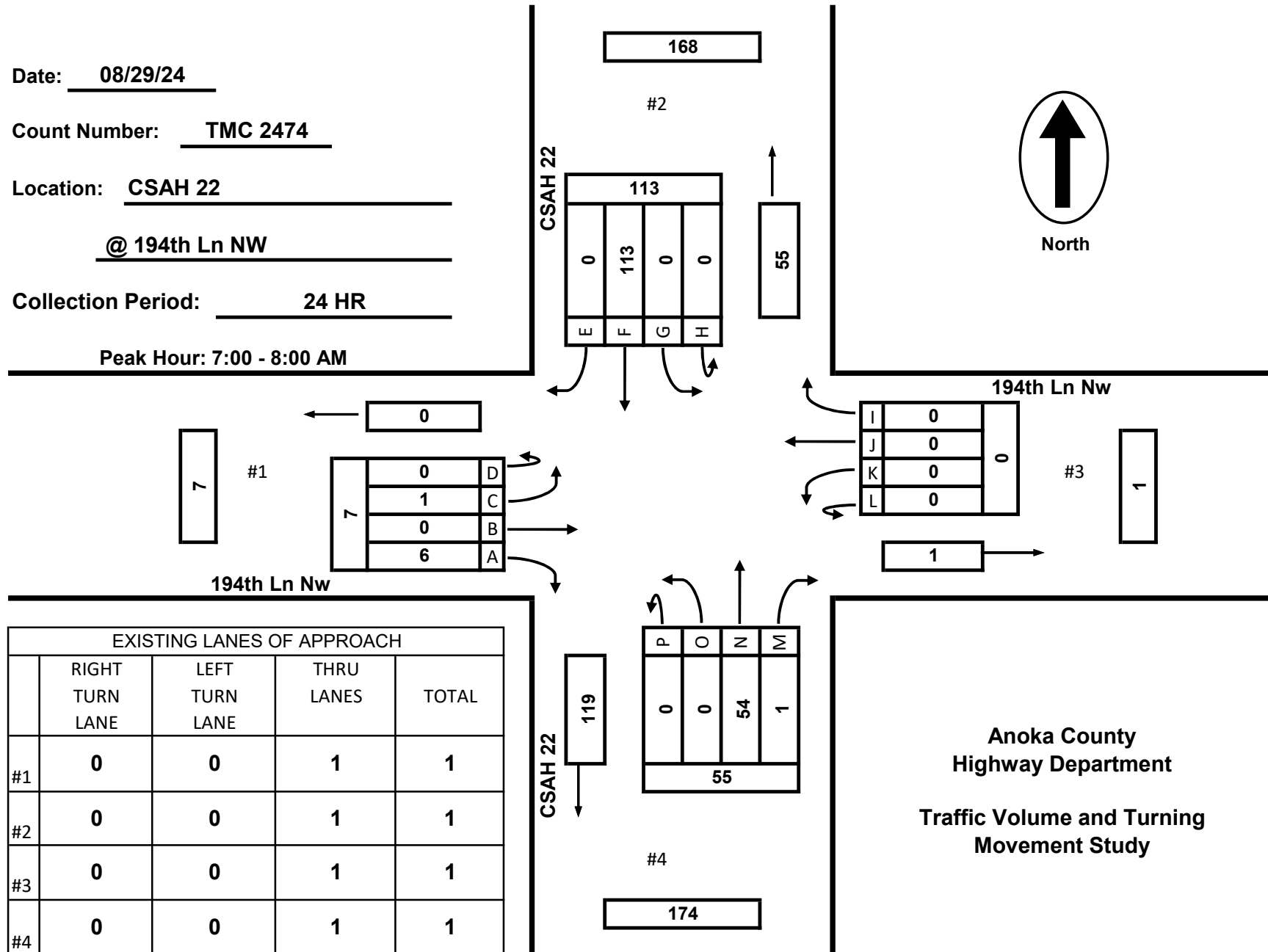
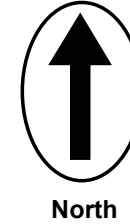
Date: 08/29/24

Count Number: TMC 2474

Location: CSAH 22
@ 194th Ln NW

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

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

Date: 08/29/24

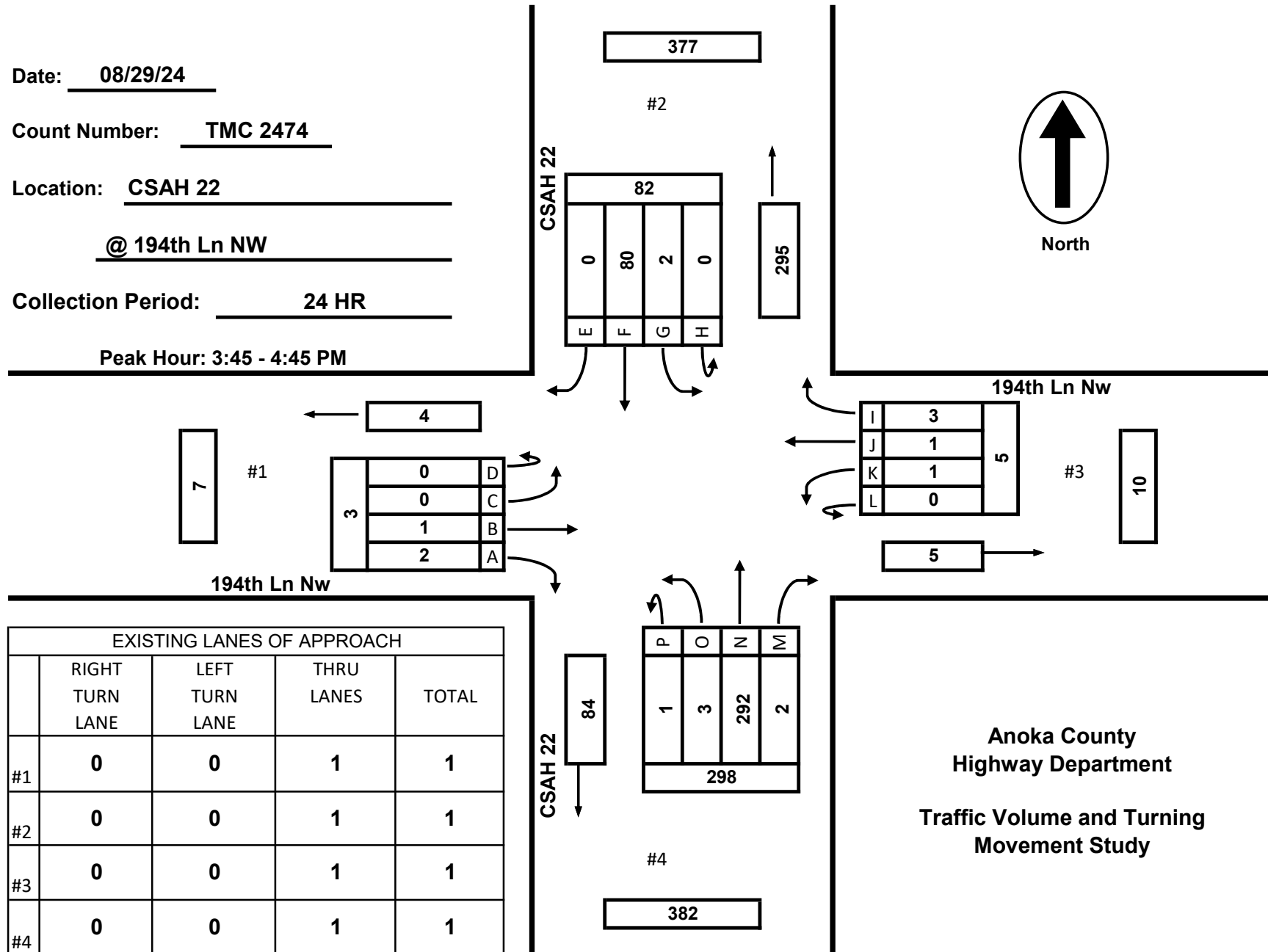
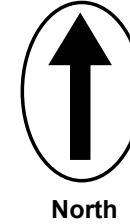
Count Number: TMC 2474

Location: CSAH 22

@ 194th Ln NW

Collection Period: 24 HR

Peak Hour: 3:45 - 4:45 PM



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

Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

**TMC 2474 - CSAH 22 @ 194th Ln NW
Nowthen MN
Thursday, August 29, 2024**

Time	Southbound CSAH 22						Westbound 194th Ln NW						Northbound CSAH 22						Eastbound 194th Ln NW						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	2	0	0	2	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	5
12:15 AM	0	0	0	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	0	0	1
12:30 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	0	0	0	0	0
12:45 AM	0	0	0	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	0	0	1
Hourly Total	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	7
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
1:15 AM	0	0	0	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	0	0	1
1:30 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	0	0	0	0	0
1:45 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	0	0	0	0	0	1
Hourly Total	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4
2:00 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	0	0	0	0	0
2:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
2:30 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	0	0	0	0	0	1
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	0	0	0	0	0
Hourly Total	0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3:00 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	0	0	0	0	0
3:15 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	0	0	0	0	0	1
3:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
3:45 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	0	0	0	0	0	1
Hourly Total	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
4:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
4:15 AM	0	0	7	0	0	7	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	10
4:30 AM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	6
Hourly Total	0	0	18	0	0	18	0	1	0	0	0	1	0	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	26
5:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5
5:15 AM	0	0	7	0	0	7	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	10
5:30 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	1	0	1	0	0	0	0	0	0	19
5:45 AM	0	0	16	0	0	16	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	19
Hourly Total	0	0	38	0	0	38	0	1	0	0	0	1	0	0	13	0	0	13	0	0	0	1	0	1	0	0	0	0	0	0	53
6:00 AM	0	0	11	0	0	11	0	1	0	0	0	1	0	0	11	0	0	11	0	0	0	1	0	1	0	0	0	0	0	0	24
6:15 AM	0	0	29	0	0	29	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	37
6:30 AM	0	0	27	0	0	27	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	1	0	1	0	0	0	0	0	0	35
6:45 AM	0	0	18	0	0	18	0	0	0	0	0	0	0	0	13	0	0	13	0	1	0	0	0	1	0	0	0	0	0	0	32
Hourly Total	0	0	85	0	0	85	0	1	0	0	0	1	0	0	39	0	0	39	0	1	0	2	0	3	0	0	0	0	0	0	128
7:00 AM	0	0	28	0	0	28	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	41
7:15 AM	0	0	34	0	0	34	0	0	0	0	0	0	0	0	15	0	0	15	0	1	0	1	0	2	0	0	0	0	0	0	51
7:30 AM	0	0	24	0	0	24	0	0	0	0	0	0	0	0	15	1	0	16	0	0	0	2	0	2	0	0	0	0	0	0	42
7:45 AM	0	0	27	0	0	27	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	3	0	3	0	0	0	0	0	0	41
Hourly Total	0	0	113	0	0	113	0	0	0	0	0	0	0	0	54	1	0	55	0	1	0	6	0	7	0	0	0	0	0	0	175

TMC 2474 - CSAH 22 @ 194th Ln NW
Nowthen MN
Thursday, August 29, 2024

Time	Southbound CSAH 22						Westbound 194th Ln NW						Northbound CSAH 22						Eastbound 194th Ln NW						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	0	20	0	0	20	0	0	0	0	0	0	0	0	20	0	0	0	0	0	1	0	0	1	41	
8:15 AM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	26	
8:30 AM	0	0	12	0	0	12	0	1	0	1	0	2	0	0	9	0	0	0	9	0	0	0	0	0	23	
8:45 AM	0	0	13	1	0	14	0	0	0	0	0	0	0	0	10	0	0	0	10	0	0	0	0	0	24	
Hourly Total	0	0	56	1	0	57	0	1	0	1	0	2	0	0	54	0	0	0	54	0	1	0	0	0	1	114
9:00 AM	0	1	16	0	0	17	0	0	0	0	0	0	0	0	14	0	0	0	14	0	1	0	0	0	1	32
9:15 AM	0	1	18	1	0	20	0	0	1	1	0	2	0	0	14	2	0	0	16	0	1	0	0	0	1	39
9:30 AM	0	0	18	2	0	20	0	0	0	0	0	0	0	0	11	0	0	0	11	0	1	1	1	0	3	34
9:45 AM	0	0	14	1	0	15	0	1	0	1	0	2	0	0	14	0	0	0	14	0	0	0	0	0	0	31
Hourly Total	0	2	66	4	0	72	0	1	1	2	0	4	0	0	53	2	0	0	55	0	3	1	1	0	5	136
10:00 AM	0	1	11	1	0	13	0	2	0	1	0	3	0	0	22	1	0	0	23	0	0	0	10	0	10	49
10:15 AM	0	1	12	0	0	13	0	1	0	1	0	2	0	0	20	0	0	0	20	0	0	0	1	0	1	36
10:30 AM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	14	0	0	0	14	0	0	0	0	0	0	25
10:45 AM	0	0	13	0	0	13	0	0	0	0	0	0	0	1	22	0	0	0	23	0	0	1	0	0	1	37
Hourly Total	0	2	47	1	0	50	0	3	0	2	0	5	0	1	78	1	0	0	80	0	0	1	11	0	12	147
11:00 AM	0	0	9	0	0	9	0	0	0	1	0	1	0	0	20	0	0	0	20	0	0	0	0	0	0	30
11:15 AM	0	0	16	0	0	16	0	0	0	0	0	0	1	0	16	0	0	0	17	0	0	0	0	0	0	33
11:30 AM	0	0	15	0	0	15	0	0	0	0	0	0	0	0	18	0	0	0	18	0	0	0	0	0	0	33
11:45 AM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	13	0	0	0	13	0	1	0	0	0	1	21
Hourly Total	0	0	47	0	0	47	0	0	0	1	0	1	1	0	67	0	0	0	68	0	1	0	0	0	1	117
12:00 PM	0	0	12	1	0	13	0	0	0	0	0	0	0	0	20	0	0	0	20	0	0	0	0	0	0	33
12:15 PM	0	2	13	0	0	15	0	1	0	0	0	1	0	0	18	0	0	0	18	0	0	0	0	0	0	34
12:30 PM	0	0	13	0	0	13	0	0	0	0	0	0	0	1	29	0	0	0	30	0	0	0	0	0	0	43
12:45 PM	0	1	20	0	0	21	0	0	0	0	0	0	0	2	12	0	0	0	14	0	0	0	0	0	0	35
Hourly Total	0	3	58	1	0	62	0	1	0	0	0	1	0	3	79	0	0	0	82	0	0	0	0	0	0	145
1:00 PM	0	1	14	0	0	15	0	0	0	1	0	1	0	1	25	1	0	0	27	0	0	0	0	0	0	43
1:15 PM	0	1	12	0	0	13	0	0	0	1	0	1	0	0	18	0	0	0	18	0	0	0	0	0	0	32
1:30 PM	0	0	12	2	0	14	0	0	0	1	0	1	0	0	27	0	0	0	27	0	1	0	0	0	1	43
1:45 PM	0	0	21	1	0	22	0	0	1	0	0	1	0	0	27	0	0	0	27	0	0	0	0	0	0	50
Hourly Total	0	2	59	3	0	64	0	0	1	3	0	4	0	1	97	1	0	0	99	0	1	0	0	0	1	168
2:00 PM	0	0	19	0	0	19	0	0	0	0	0	0	0	1	25	1	0	0	27	0	3	0	2	0	5	51
2:15 PM	0	0	21	0	0	21	0	0	0	0	0	0	0	0	34	1	0	0	35	0	0	0	0	0	0	56
2:30 PM	0	1	24	0	0	25	0	1	0	1	0	2	1	0	38	0	0	0	39	0	0	1	0	0	1	67
2:45 PM	0	0	21	0	0	21	0	0	0	0	0	0	0	0	29	0	0	0	29	0	0	0	0	0	0	50
Hourly Total	0	1	85	0	0	86	0	1	0	1	0	2	1	1	126	2	0	0	130	0	3	1	2	0	6	224
3:00 PM	0	0	19	0	0	19	0	0	0	1	0	1	0	1	55	1	0	0	57	0	2	0	0	0	2	79
3:15 PM	0	1	15	1	0	17	0	0	0	1	0	1	0	1	66	1	0	0	68	0	0	0	0	0	0	86
3:30 PM	0	2	16	0	0	18	0	0	0	1	0	1	0	0	61	0	0	0	61	0	0	0	0	0	0	80
3:45 PM	0	0	25	0	0	25	0	1	0	0	0	1	1	2	79	1	0	0	83	0	0	0	0	0	0	109
Hourly Total	0	3	75	1	0	79	0	1	0	3	0	4	1	4	261	3	0	0	269	0	2	0	0	0	2	354

**TMC 2474 - CSAH 22 @ 194th Ln NW
Nowthen MN
Thursday, August 29, 2024**

Time	Southbound CSAH 22						Westbound 194th Ln NW						Northbound CSAH 22						Eastbound 194th Ln NW						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	1	23	0	0	24	0	0	1	0	0	1	0	0	66	0	0	0	66	0	0	1	0	0	1	92
4:15 PM	0	1	21	0	0	22	0	0	0	3	0	3	0	1	70	1	0	72	0	0	0	1	0	1	98	
4:30 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	77	0	0	77	0	0	0	1	0	1	89	
4:45 PM	0	0	15	0	0	15	0	0	0	0	0	0	0	1	65	0	0	66	0	0	0	0	0	0	81	
Hourly Total	0	2	70	0	0	72	0	0	1	3	0	4	0	2	278	1	0	281	0	0	1	2	0	3	360	
5:00 PM	0	0	11	1	0	12	0	0	0	0	0	0	0	1	58	0	0	59	0	1	0	0	0	1	72	
5:15 PM	0	0	14	1	0	15	0	0	0	0	0	0	0	0	46	1	0	47	0	0	0	0	0	0	62	
5:30 PM	0	0	8	0	0	8	0	0	0	0	0	0	0	3	39	1	0	43	0	0	0	0	0	0	51	
5:45 PM	0	0	9	0	0	9	0	0	0	0	0	0	0	1	29	1	0	31	0	0	0	1	0	1	41	
Hourly Total	0	0	42	2	0	44	0	0	0	0	0	0	0	5	172	3	0	180	0	1	0	1	0	2	226	
6:00 PM	0	0	14	1	0	15	0	0	0	0	0	0	0	1	27	0	0	28	0	0	0	0	0	0	43	
6:15 PM	0	0	14	1	0	15	0	0	0	1	0	1	0	1	28	0	0	29	0	0	0	0	0	0	45	
6:30 PM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	23	0	0	23	0	0	0	0	0	0	32	
6:45 PM	0	0	5	0	0	5	0	2	0	0	0	2	0	0	16	0	0	16	0	1	0	0	0	1	24	
Hourly Total	0	0	42	2	0	44	0	2	0	1	0	3	0	2	94	0	0	96	0	1	0	0	0	1	144	
7:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	14	
7:15 PM	0	0	14	0	0	14	0	0	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	34	
7:30 PM	0	1	4	0	0	5	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	14	
7:45 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	14	
Hourly Total	0	1	25	0	0	26	0	0	0	0	0	0	0	0	50	0	0	50	0	0	0	0	0	0	76	
8:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	14	
8:15 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	17	
8:30 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0	21	
8:45 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	14	
Hourly Total	0	0	19	0	0	19	0	0	0	0	0	0	0	0	47	0	0	47	0	0	0	0	0	0	66	
9:00 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	9	
9:15 PM	0	0	9	0	0	9	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	16	
9:30 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	11	
9:45 PM	0	0	5	0	0	5	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	9	
Hourly Total	0	0	23	0	0	23	0	0	0	0	0	0	0	0	22	0	0	22	0	0	0	0	0	0	45	
10:00 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	
10:15 PM	0	0	2	1	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	
10:30 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	
10:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	
Hourly Total	0	0	7	1	0	8	0	0	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	18	
11:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	
11:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	3	
11:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	4	
11:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	4	
Hourly Total	0	0	6	0	0	6	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	15	
DAILY TOTAL	0	16	988	17	0	1021	0	13	3	17	0	33	3	19	1620	14	0	1656	0	15	4	26	0	45	2755	
Cars	0	14	807	13	0	834	0	11	2	17	0	30	3	18	1423	13	0	1457	0	14	4	18	0	36	2357	
Heavy Vehicles	0	2	181	4	0	187	0	2	1	0	0	3	0	1	197	1	0	199	0	1	0	8	0	9	398	
Heavy Vehicle %	0.00%	12.50%	18.32%	23.53%	0.00%	18.32%	0.00%	15.38%	33.33%	0.00%	0.00%	9.09%	0.00%	5.26%	12.16%	7.14%	0.00%	12.02%	0.00%	6.67%	0.00%	30.77%	0.00%	20.00%	14.45%	

TMC 2474 - CSAH 22 @ 194th Ln NW

Nowthen MN

Thursday, August 29, 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	0	28	0	0	28	0	0	0	0	0	0	0	0	13	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	41
7:15 AM	0	0	34	0	0	34	0	0	0	0	0	0	0	0	15	0	0	15	0	1	0	1	0	2	0	0	0	2	0	2	51
7:30 AM	0	0	24	0	0	24	0	0	0	0	0	0	0	0	15	1	0	16	0	0	0	2	0	2	0	0	0	3	0	3	42
7:45 AM	0	0	27	0	0	27	0	0	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	0	0	0	3	0	3	41
Peak Hour Total PHF	0.000	0.000	113	0.000	0.000	113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.900	0.250	0.000	0.859	0.000	0.250	0.000	0.500	0.000	0.583	0.000	0.250	0.000	0.500	0.000	0.583	175

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							
3:45 PM	0	0	25	0	0	25	0	1	0	0	0	1	1	2	79	1	0	83	0	0	0	0	0	0	0	0	0	0	0	0	109
4:00 PM	0	1	23	0	0	24	0	0	1	0	0	1	0	0	66	0	0	66	0	0	1	0	0	1	0	0	0	1	0	1	92
4:15 PM	0	1	21	0	0	22	0	0	0	3	0	3	0	1	70	1	0	72	0	0	0	1	0	1	0	0	0	1	0	1	98
4:30 PM	0	0	11	0	0	11	0	0	0	0	0	0	0	0	77	0	0	77	0	0	0	1	0	1	0	0	0	1	0	1	89
Peak Hour Total PHF	0.000	0.500	0.800	0.000	0.000	0.820	0.000	0.250	0.250	0.250	0.000	0.417	0.250	0.375	0.924	0.500	0.000	0.898	0.000	0.000	0.250	0.500	0.000	0.750	0.000	0.000	0.250	0.500	0.000	0.750	388

Total Vehicles On Leg				2673			
Vehicles Entering Intersection		1021		Vehicles Exiting Intersection		1652	
Southbound							
Cars	13	807	14	0	0		
Heavy	4	181	2	0	0		
Total	17	988	16	0	0		

Total Vehicles on Leg 84	Eastbound	Cars	Heavy	Total	Daily Volumes
		0	0	0	
		0	0	0	
		14	1	15	
		4	0	4	
18	8	26			

Total Vehicles on Leg 67	Westbound	Cars	Heavy	Total
		17	0	17
		2	1	3
		11	2	13
		0	0	0
0	0	0		

Total Vehicles On Leg				2686			
Vehicles Entering Intersection		1656		Vehicles Exiting Intersection		1030	
Northbound							
Cars	0	3	18	1423	13		
Heavy	0	0	1	197	1		
Total	0	3	19	1620	14		

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2474

Study Date : 09/03/2024

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 22

Number of Lanes : 1

Total Approach Volume: 1,656

Southbound: CSAH 22

Number of Lanes : 1

Total Approach Volume: 1,021

Minor Street Approaches

Eastbound: 194th Ln NW

Number of Lanes : 1

Total Approach Volume: 45

Westbound: 194th Ln NW

Number of Lanes : 1

Total Approach Volume: 33

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 0 hours, 8 are needed

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

Required volumes reached for 0 hours, 8 are needed

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

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

Required 1B volumes reached for 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 2474

Study Date : 09/03/2024

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 = **1**
Number of Minor Lanes = **1**

Volume Requirements

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

Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	298	+	82	=	380	3	5	No
15:30 - 16:30	282	+	89	=	371	2	6	No
15:15 - 16:15	278	+	84	=	362	1	4	No
16:00 - 17:00	281	+	72	=	353	3	4	No
15:00 - 16:00	269	+	79	=	348	2	4	No
16:15 - 17:15	274	+	60	=	334	3	3	No
16:30 - 17:30	249	+	53	=	302	2	0	No
14:45 - 15:45	215	+	75	=	290	2	3	No
14:30 - 15:30	193	+	82	=	275	3	4	No
16:45 - 17:45	215	+	50	=	265	1	0	No
14:15 - 15:15	160	+	86	=	246	3	3	No
17:00 - 18:00	180	+	44	=	224	2	0	No
14:00 - 15:00	130	+	86	=	216	6	2	No
13:45 - 14:45	128	+	87	=	215	6	3	No
17:15 - 18:15	149	+	47	=	196	1	0	No
13:30 - 14:30	116	+	76	=	192	6	2	No
17:30 - 18:30	131	+	47	=	178	1	1	No
07:00 - 08:00	55	+	113	=	168	7	0	No
13:15 - 14:15	99	+	68	=	167	6	3	No
07:15 - 08:15	62	+	105	=	167	8	0	No
13:00 - 14:00	99	+	64	=	163	1	4	No
06:45 - 07:45	57	+	104	=	161	5	0	No
17:45 - 18:45	111	+	48	=	159	1	1	No
06:30 - 07:30	48	+	107	=	155	4	0	No
12:15 - 13:15	89		64		153	0	2	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2474

Study Date : 09/03/2024

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 = **1**
 Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **525**
 Veh/Hr Minor = **52**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	298	+	82	=	380	3	5	No
15:30 - 16:30	282	+	89	=	371	2	6	No
15:15 - 16:15	278	+	84	=	362	1	4	No
16:00 - 17:00	281	+	72	=	353	3	4	No
15:00 - 16:00	269	+	79	=	348	2	4	No
16:15 - 17:15	274	+	60	=	334	3	3	No
16:30 - 17:30	249	+	53	=	302	2	0	No
14:45 - 15:45	215	+	75	=	290	2	3	No
14:30 - 15:30	193	+	82	=	275	3	4	No
16:45 - 17:45	215	+	50	=	265	1	0	No
14:15 - 15:15	160	+	86	=	246	3	3	No
17:00 - 18:00	180	+	44	=	224	2	0	No
14:00 - 15:00	130	+	86	=	216	6	2	No
13:45 - 14:45	128	+	87	=	215	6	3	No
17:15 - 18:15	149	+	47	=	196	1	0	No
13:30 - 14:30	116	+	76	=	192	6	2	No
17:30 - 18:30	131	+	47	=	178	1	1	No
07:00 - 08:00	55	+	113	=	168	7	0	No
13:15 - 14:15	99	+	68	=	167	6	3	No
07:15 - 08:15	62	+	105	=	167	8	0	No
13:00 - 14:00	99	+	64	=	163	1	4	No
06:45 - 07:45	57	+	104	=	161	5	0	No
17:45 - 18:45	111	+	48	=	159	1	1	No
06:30 - 07:30	48	+	107	=	155	4	0	No
12:15 - 13:15	89		64		153	0	2	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2474

Study Date : 09/03/2024

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 0 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 = **1**
Number of Minor Lanes = **1**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **280 420**

Veh/Hr Minor = **84 42**

Major Road CSAH 22

Minor Road 194th Ln NW

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:45 - 16:45	298	+	82	=	380	3	5	No
15:30 - 16:30	282	+	89	=	371	2	6	No
15:15 - 16:15	278	+	84	=	362	1	4	No
16:00 - 17:00	281	+	72	=	353	3	4	No
15:00 - 16:00	269	+	79	=	348	2	4	No
16:15 - 17:15	274	+	60	=	334	3	3	No
16:30 - 17:30	249	+	53	=	302	2	0	No
14:45 - 15:45	215	+	75	=	290	2	3	No
14:30 - 15:30	193	+	82	=	275	3	4	No
16:45 - 17:45	215	+	50	=	265	1	0	No
14:15 - 15:15	160	+	86	=	246	3	3	No
17:00 - 18:00	180		44		224	2	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	298	+	82	=	380	3	5	No
15:30 - 16:30	282	+	89	=	371	2	6	No
15:15 - 16:15	278	+	84	=	362	1	4	No
16:00 - 17:00	281	+	72	=	353	3	4	No
15:00 - 16:00	269	+	79	=	348	2	4	No
16:15 - 17:15	274	+	60	=	334	3	3	No
16:30 - 17:30	249	+	53	=	302	2	0	No
14:45 - 15:45	215	+	75	=	290	2	3	No
14:30 - 15:30	193	+	82	=	275	3	4	No
16:45 - 17:45	215	+	50	=	265	1	0	No
14:15 - 15:15	160	+	86	=	246	3	3	No
17:00 - 18:00	180		44		224	2	0	No

ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2474

Study Date : 09/03/2024

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.

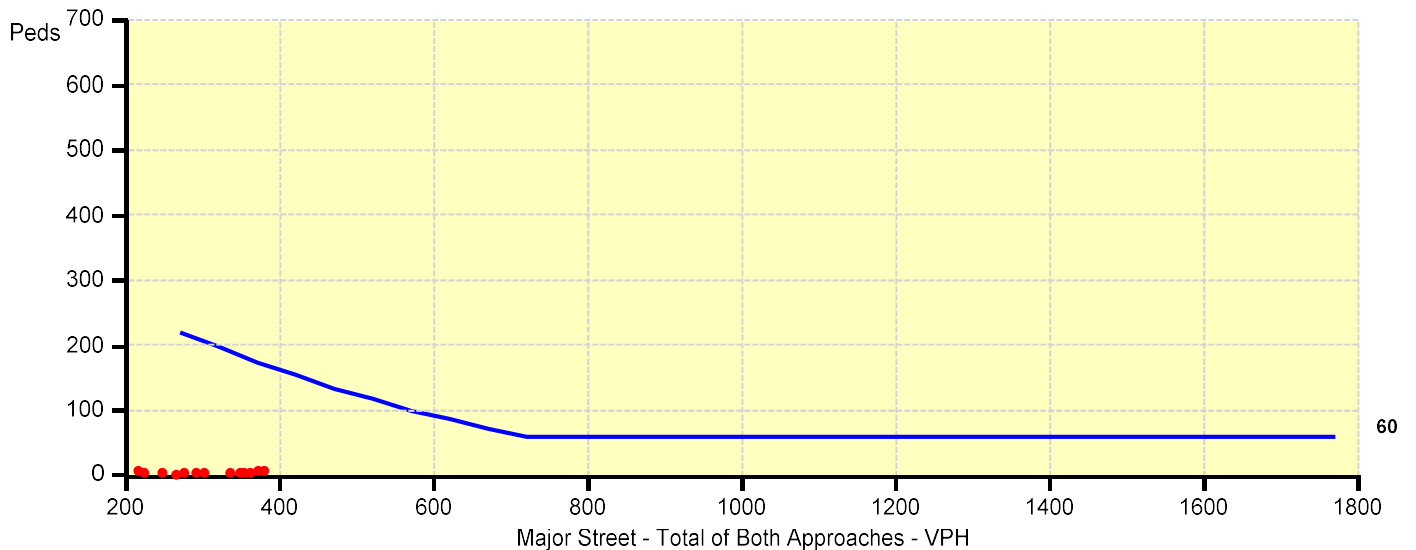
Summary

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

Site Data Required

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

Time	Major Road CSAH 22				Total	Minor Road 194th Ln NW		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
15:45 - 16:45	298	+	82	=	380	3	5	No
15:30 - 16:30	282	+	89	=	371	2	6	No
15:15 - 16:15	278	+	84	=	362	1	4	No
16:00 - 17:00	281	+	72	=	353	3	4	No
15:00 - 16:00	269	+	79	=	348	2	4	No
16:15 - 17:15	274	+	60	=	334	3	3	No
16:30 - 17:30	249	+	53	=	302	2	0	No
14:45 - 15:45	215	+	75	=	290	2	3	No
14:30 - 15:30	193	+	82	=	275	3	4	No
16:45 - 17:45	215	+	50	=	265	1	0	No
14:15 - 15:15	160	+	86	=	246	3	3	No
17:00 - 18:00	180		44		224	2	0	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2474

Study Date : 09/03/2024

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.

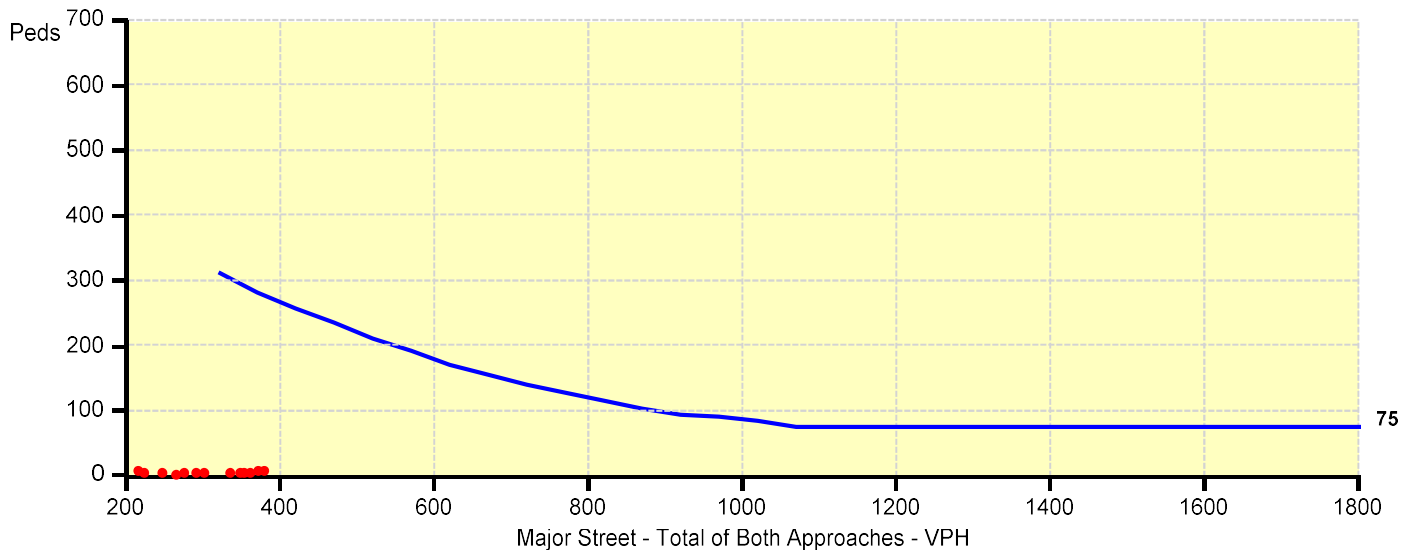
Summary

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

Site Data Required

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

Time	Major Road CSAH 22					Minor Road 194th Ln NW		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
15:45 - 16:45	298	+	82	=	380	3	5	No
15:30 - 16:30	282	+	89	=	371	2	6	No
15:15 - 16:15	278	+	84	=	362	1	4	No
16:00 - 17:00	281	+	72	=	353	3	4	No
15:00 - 16:00	269	+	79	=	348	2	4	No
16:15 - 17:15	274	+	60	=	334	3	3	No
16:30 - 17:30	249	+	53	=	302	2	0	No
14:45 - 15:45	215	+	75	=	290	2	3	No
14:30 - 15:30	193	+	82	=	275	3	4	No
16:45 - 17:45	215	+	50	=	265	1	0	No
14:15 - 15:15	160	+	86	=	246	3	3	No
17:00 - 18:00	180		44		224	2	0	No



ANOKA COUNTY HIGHWAY

PC - WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2474

Study Date : 09/03/2024

Multiway Stop Warrants - Summary

Major Street Approaches

Northbound: CSAH 22
 Number of Lanes : 1
 Total Approach Volume: 1,656

Southbound: CSAH 22
 Number of Lanes : 1
 Total Approach Volume: 1,021

Minor Street Approaches

Eastbound: 194th Ln NW
 Number of Lanes : 1
 Total Approach Volume: 45

Westbound: 194th Ln NW
 Number of Lanes : 1
 Total Approach Volume: 33

Warrant Summary (Rural Values Apply)

Criteria A - Interim Measure	Not Evaluated
If traffic signals are justified, stop signs can be installed as an interim measure.	
Criteria B - Crash Experience	Not Satisfied
Number of crashes (-1) is less than minimum required (5).	
Criteria C - Minimum Volumes and Delays	Not Satisfied
Average of 8 highest hours is less than volume criteria.	
Criteria D - 80% of Volumes, Delays, and Crashes	Not Satisfied
Number of crashes (-1) is less than minimum required (4). Average of 8 highest hours is less than volume criteria.	

Criteria C Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:45 - 16:45	380	220.3	8	06.9	210	140	No
14:45 - 15:45	290		5				
16:45 - 17:45	265		1				
13:45 - 14:45	215		9				
07:00 - 08:00	168		7				
17:45 - 18:45	159		2				
12:15 - 13:15	153		2				
09:15 - 10:15	132		21				
10:45 - 11:45	131		2				
06:00 - 07:00	124		4				
08:00 - 09:00	111		3				
18:45 - 19:45	83		3				

Criteria D Volume Summary

Time	Major Total	Major Avg	Minor Total	Minor Avg	Major Crit	Minor Crit	Meets?
15:45 - 16:45	380	220.3	8	06.9	240	160	No
14:45 - 15:45	290		5				
16:45 - 17:45	265		1				
13:45 - 14:45	215		9				
07:00 - 08:00	168		7				
17:45 - 18:45	159		2				
12:15 - 13:15	153		2				
09:15 - 10:15	132		21				
10:45 - 11:45	131		2				
06:00 - 07:00	124		4				
08:00 - 09:00	111		3				
18:45 - 19:45	83		3				