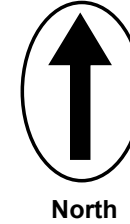


Date: 05/16/24

Count Number: TMC 2440

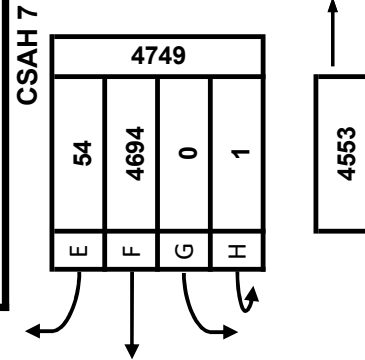
Location: CSAH 7
@ 165th Ave

Collection Period: 24 HR



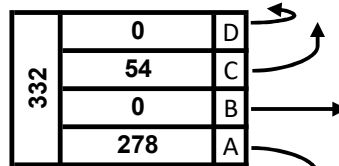
9302

#2



656

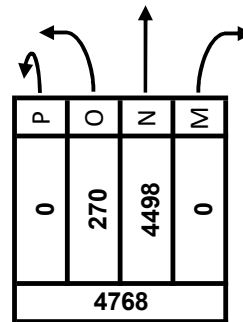
#1



165th Ave

4972

CSAH 7



#4

9740

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	0	0
#4	0	0	1	1

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

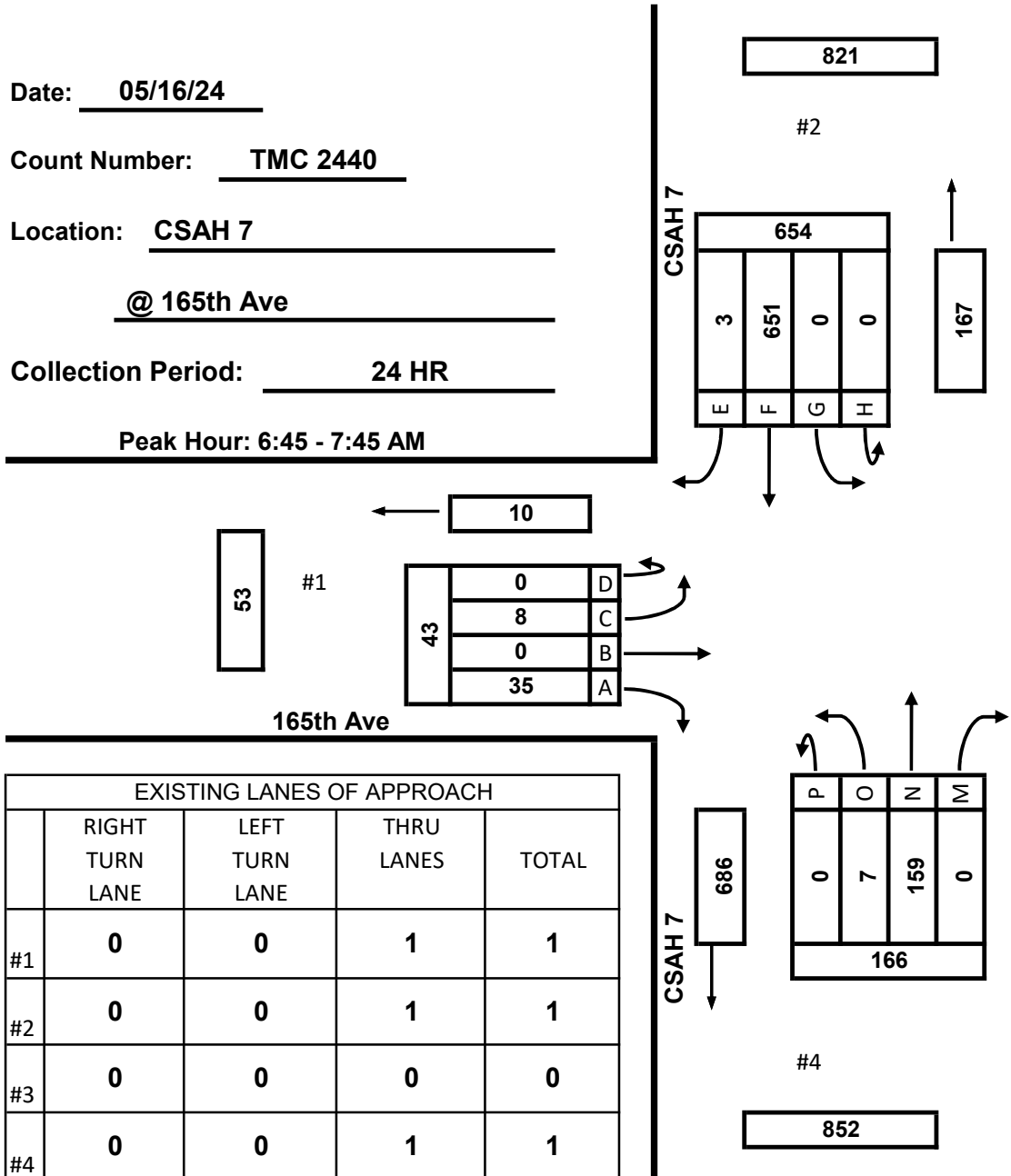
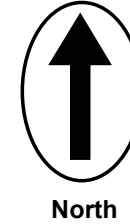
Date: 05/16/24

Count Number: TMC 2440

Location: CSAH 7
@ 165th Ave

Collection Period: 24 HR

Peak Hour: 6:45 - 7:45 AM



Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

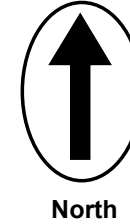
Date: 05/16/24

Count Number: TMC 2440

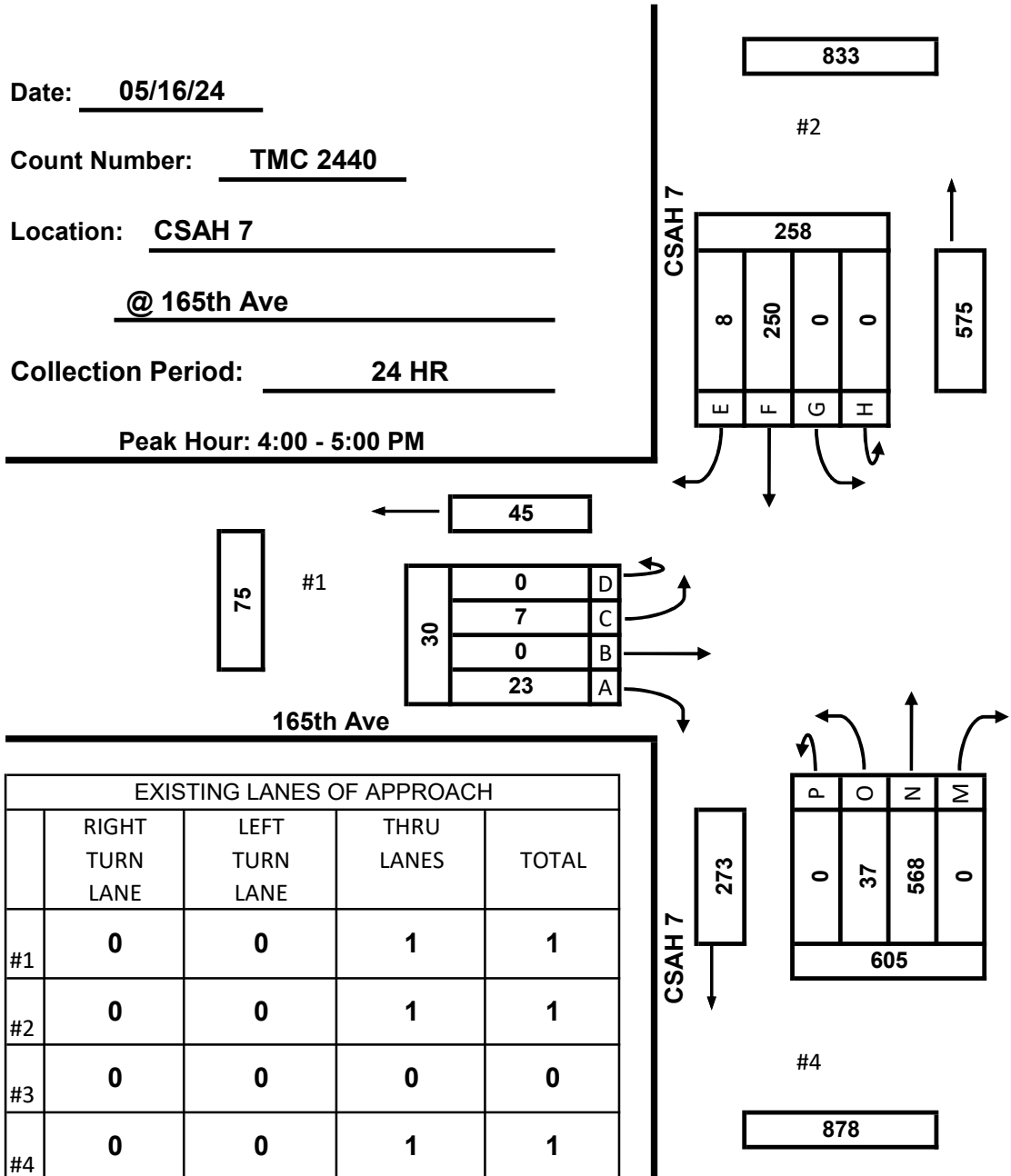
Location: CSAH 7
@ 165th Ave

Collection Period: 24 HR

Peak Hour: 4:00 - 5:00 PM



North



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	0	0
#4	0	0	1	1

Anoka County
 Highway Department
 Traffic Volume and Turning
 Movement Study

**TMC 2440 - CSAH 7 @ 165th Ave
Andover MN
Thursday, May 16, 2024**

Time	Southbound CSAH 7						Westbound 0						Northbound CSAH 7						Eastbound 165th Ave						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	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4	
12:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	1	0	1	0	0	0	0	0	0	11
12:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	6
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Hourly Total	0	0	3	0	0	3	0	0	0	0	0	0	0	2	18	0	0	20	0	0	0	0	1	0	1	0	0	0	0	0	0	24
1:00 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	10
1:15 AM	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	0	4
1:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3
1:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Hourly Total	0	0	8	0	0	8	0	0	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	24
2:00 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	0	1
2:15 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	0	0	0	0	0	0	2
2:30 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	2	0	2	0	0	0	0	0	0	10
2:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Hourly Total	0	0	8	0	0	8	0	0	0	0	0	0	0	1	7	0	0	8	0	0	0	0	2	0	2	0	0	0	0	0	0	18
3:00 AM	0	0	6	0	0	6	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	9
3:15 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	14
3:30 AM	0	0	12	0	0	12	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	1	0	1	0	0	0	0	0	0	17
3:45 AM	0	0	25	0	0	25	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Hourly Total	0	0	55	0	0	55	0	0	0	0	0	0	0	1	10	0	0	11	0	0	0	0	1	0	1	0	0	0	0	0	0	67
4:00 AM	0	0	20	0	0	20	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	2	0	2	0	0	0	0	0	0	26
4:15 AM	0	0	26	0	0	26	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	29
4:30 AM	0	0	32	0	0	32	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	2	0	2	0	0	0	0	0	0	36
4:45 AM	0	0	38	1	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	3	0	0	0	0	0	0	42
Hourly Total	0	0	116	1	0	117	0	0	0	0	0	0	0	0	9	0	0	9	0	2	0	0	5	0	7	0	0	0	0	0	0	133
5:00 AM	0	0	57	0	0	57	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	62
5:15 AM	0	0	89	0	0	89	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	1	0	1	0	0	0	0	0	0	96
5:30 AM	0	0	111	0	0	111	0	0	0	0	0	0	0	0	11	0	2	11	0	0	0	0	5	2	5	0	0	0	0	0	0	127
5:45 AM	0	0	98	0	0	98	0	0	0	0	0	0	0	0	12	0	0	12	0	0	0	0	4	0	4	0	0	0	0	0	0	114
Hourly Total	0	0	355	0	0	355	0	0	0	0	0	0	0	0	34	0	2	34	0	0	0	0	10	2	10	0	0	0	0	0	0	399
6:00 AM	0	0	137	0	0	137	0	0	0	0	0	0	0	0	17	0	0	17	0	0	0	0	2	0	2	0	0	0	0	0	0	156
6:15 AM	0	0	140	0	0	140	0	0	0	0	0	0	0	0	25	0	0	25	0	2	0	0	5	0	7	0	0	0	0	0	0	172
6:30 AM	0	0	180	0	0	180	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0	6	0	6	0	0	0	0	0	0	210
6:45 AM	0	0	165	1	0	166	0	0	0	0	0	0	0	0	34	0	0	34	0	1	0	0	3	0	4	0	0	0	0	0	0	204
Hourly Total	0	0	622	1	0	623	0	0	0	0	0	0	0	0	100	0	0	100	0	3	0	0	16	0	19	0	0	0	0	0	0	742
7:00 AM	0	0	159	0	0	159	0	0	0	0	0	0	0	0	29	0	0	29	0	2	0	0	9	0	11	0	0	0	0	0	0	199
7:15 AM	0	0	161	1	0	162	0	0	0	0	0	0	0	5	47	0	0	52	0	2	0	0	15	0	17	0	0	0	0	0	0	231
7:30 AM	0	0	166	1	0	167	0	0	0	0	0	0	0	2	49	0	0	51	0	3	0	0	8	0	11	0	0	0	0	0	0	229
7:45 AM	0	0	117	0	0	117	0	0	0	0	0	0	0	4	40	0	0	44	0	0	0	0	4	0	4	0	0	0	0	0	0	165
Hourly Total	0	0	603	2	0	605	0	0	0	0	0	0	0	11	165	0	0	176	0	7	0	0	36	0	43	0	0	0	0	0	0	824

**TMC 2440 - CSAH 7 @ 165th Ave
Andover MN
Thursday, May 16, 2024**

Time	Southbound CSAH 7						Westbound 0						Northbound CSAH 7						Eastbound 165th Ave						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	75	0	0	75	0	0	0	0	0	0	0	3	35	0	0	38	0	1	0	7	0	8	121
8:15 AM	0	0	116	1	0	117	0	0	0	0	0	0	0	0	26	0	0	26	0	2	0	5	0	7	150
8:30 AM	0	0	91	1	0	92	0	0	0	0	0	0	0	1	22	0	0	23	0	0	0	5	0	5	120
8:45 AM	0	0	87	1	0	88	0	0	0	0	0	0	0	1	26	0	0	27	0	0	0	4	0	4	119
Hourly Total	0	0	369	3	0	372	0	0	0	0	0	0	0	5	109	0	0	114	0	3	0	21	0	24	510
9:00 AM	0	0	62	0	0	62	0	0	0	0	0	0	0	4	34	0	0	38	0	1	0	4	0	5	105
9:15 AM	0	0	61	0	0	61	0	0	0	0	0	0	0	1	30	0	0	31	0	0	0	3	0	3	95
9:30 AM	0	0	76	0	0	76	0	0	0	0	0	0	0	1	42	0	0	43	0	1	0	3	0	4	123
9:45 AM	0	0	49	3	0	52	0	0	0	0	0	0	0	3	39	0	0	42	0	1	0	6	0	7	101
Hourly Total	0	0	248	3	0	251	0	0	0	0	0	0	0	9	145	0	0	154	0	3	0	16	0	19	424
10:00 AM	0	0	56	0	0	56	0	0	0	0	0	0	0	2	38	0	0	40	0	0	0	2	0	2	98
10:15 AM	0	0	59	0	0	59	0	0	0	0	0	0	0	3	34	0	0	37	0	1	0	2	0	3	99
10:30 AM	0	0	51	1	0	52	0	0	0	0	0	0	0	3	25	0	0	28	0	1	0	5	0	6	86
10:45 AM	0	0	49	1	0	50	0	0	0	0	0	0	0	0	47	0	0	47	0	2	0	2	0	4	101
Hourly Total	0	0	215	2	0	217	0	0	0	0	0	0	0	8	144	0	0	152	0	4	0	11	0	15	384
11:00 AM	0	0	62	1	0	63	0	0	0	0	0	0	0	3	48	0	0	51	0	0	0	3	0	3	117
11:15 AM	0	0	52	1	0	53	0	0	0	0	0	0	0	1	45	0	0	46	0	0	0	4	0	4	103
11:30 AM	0	0	52	1	0	53	0	0	0	0	0	0	0	4	54	0	0	58	0	0	0	3	0	3	114
11:45 AM	0	0	61	0	0	61	0	0	0	0	0	0	0	2	49	0	0	51	0	0	0	8	0	8	120
Hourly Total	0	0	227	3	0	230	0	0	0	0	0	0	0	10	196	0	0	206	0	0	0	18	0	18	454
12:00 PM	0	0	41	1	0	42	0	0	0	0	0	0	0	2	55	0	0	57	0	0	0	6	0	6	105
12:15 PM	0	0	51	1	0	52	0	0	0	0	0	0	0	5	55	0	0	60	0	0	0	3	2	3	115
12:30 PM	0	0	60	0	0	60	0	0	0	0	0	0	0	6	57	0	0	63	0	0	0	7	0	7	130
12:45 PM	0	0	54	0	0	54	0	0	0	0	0	0	0	4	47	0	0	51	0	0	0	4	0	4	109
Hourly Total	0	0	206	2	0	208	0	0	0	0	0	0	0	17	214	0	0	231	0	0	0	20	2	20	459
1:00 PM	0	0	51	0	0	51	0	0	0	0	0	0	0	3	45	0	0	48	0	0	0	1	0	1	100
1:15 PM	0	0	43	2	0	45	0	0	0	0	0	0	0	1	63	0	0	64	0	0	0	3	0	3	112
1:30 PM	0	0	50	1	0	51	0	0	0	0	0	0	0	7	66	0	0	73	0	0	0	3	0	3	127
1:45 PM	0	0	64	3	0	67	0	0	0	0	0	0	0	8	78	0	0	86	0	0	0	7	0	7	160
Hourly Total	0	0	208	6	0	214	0	0	0	0	0	0	0	19	252	0	0	271	0	0	0	14	0	14	499
2:00 PM	0	0	46	0	0	46	0	0	0	0	0	0	0	8	89	0	0	97	0	4	0	4	0	8	151
2:15 PM	0	0	56	0	0	56	0	0	0	0	0	0	0	7	83	0	0	90	0	1	0	4	0	5	151
2:30 PM	0	0	51	0	0	51	0	0	0	0	0	0	0	8	99	0	0	107	0	1	0	7	0	8	166
2:45 PM	0	0	52	2	0	54	0	0	0	0	0	0	0	6	120	0	0	126	0	1	0	7	0	8	188
Hourly Total	0	0	205	2	0	207	0	0	0	0	0	0	0	29	391	0	0	420	0	7	0	22	0	29	656
3:00 PM	1	0	67	0	0	68	0	0	0	0	0	0	0	6	116	0	0	122	0	1	0	5	0	6	196
3:15 PM	0	0	53	1	0	54	0	0	0	0	0	0	0	9	139	0	0	148	0	0	0	6	0	6	208
3:30 PM	0	0	61	0	0	61	0	0	0	0	0	0	0	4	128	0	0	132	0	1	0	4	0	5	198
3:45 PM	0	0	65	0	0	65	0	0	0	0	0	0	0	6	122	0	0	128	0	1	0	3	0	4	197
Hourly Total	1	0	246	1	0	248	0	0	0	0	0	0	0	25	505	0	0	530	0	3	0	18	0	21	799

**TMC 2440 - CSAH 7 @ 165th Ave
Andover MN
Thursday, May 16, 2024**

Time	Southbound CSAH 7						Westbound 0						Northbound CSAH 7						Eastbound 165th Ave						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	0	61	1	0	62	0	0	0	0	0	0	0	10	138	0	0	148	0	1	0	4	0	5	215	
4:15 PM	0	0	71	3	0	74	0	0	0	0	0	0	0	9	127	0	0	136	0	1	0	3	0	4	214	
4:30 PM	0	0	53	4	0	57	0	0	0	0	0	0	0	8	148	0	0	156	0	2	0	9	0	11	224	
4:45 PM	0	0	65	0	0	65	0	0	0	0	0	0	0	10	155	0	0	165	0	3	0	7	0	10	240	
Hourly Total	0	0	250	8	0	258	0	0	0	0	0	0	0	37	568	0	0	605	0	7	0	23	0	30	893	
5:00 PM	0	0	48	2	0	50	0	0	0	0	0	0	0	7	123	0	0	130	0	1	0	4	0	5	185	
5:15 PM	0	0	64	0	0	64	0	0	0	0	0	0	0	7	133	0	0	140	0	4	0	3	0	7	211	
5:30 PM	0	0	75	1	0	76	0	0	0	0	0	0	0	3	122	0	0	125	0	0	0	2	0	2	203	
5:45 PM	0	0	52	2	0	54	0	0	0	0	0	0	0	7	110	0	0	117	0	0	0	4	0	4	175	
Hourly Total	0	0	239	5	0	244	0	0	0	0	0	0	0	24	488	0	0	512	0	5	0	13	0	18	774	
6:00 PM	0	0	44	1	0	45	0	0	0	0	0	0	0	5	99	0	0	104	0	0	0	5	0	5	154	
6:15 PM	0	0	48	1	0	49	0	0	0	0	0	0	0	3	102	0	0	105	0	2	0	6	0	8	162	
6:30 PM	0	0	50	2	0	52	0	0	0	0	0	0	0	7	89	0	0	96	0	1	0	4	0	5	153	
6:45 PM	0	0	32	0	0	32	0	0	0	0	0	0	0	5	68	0	0	73	0	0	0	2	0	2	107	
Hourly Total	0	0	174	4	0	178	0	0	0	0	0	0	0	20	358	0	0	378	0	3	0	17	0	20	576	
7:00 PM	0	0	32	0	0	32	0	0	0	0	0	0	0	5	62	0	0	67	0	1	0	1	0	2	101	
7:15 PM	0	0	39	1	0	40	0	0	0	0	0	0	0	4	78	0	0	82	0	0	0	2	2	2	124	
7:30 PM	0	0	44	2	0	46	0	0	0	0	0	0	0	5	55	0	0	60	0	0	0	0	0	0	106	
7:45 PM	0	0	29	1	0	30	0	0	0	0	0	0	0	2	76	0	0	78	0	0	0	1	0	1	109	
Hourly Total	0	0	144	4	0	148	0	0	0	0	0	0	0	16	271	0	0	287	0	1	0	4	2	5	440	
8:00 PM	0	0	20	0	0	20	0	0	0	0	0	0	0	4	68	0	0	72	0	0	0	2	0	2	94	
8:15 PM	0	0	25	0	0	25	0	0	0	0	0	0	0	4	52	0	0	56	0	0	0	0	0	0	81	
8:30 PM	0	0	23	0	0	23	0	0	0	0	0	0	0	2	39	0	0	41	0	1	0	0	0	1	65	
8:45 PM	0	0	28	2	0	30	0	0	0	0	0	0	0	6	66	0	0	72	0	0	0	1	0	1	103	
Hourly Total	0	0	96	2	0	98	0	0	0	0	0	0	0	16	225	0	0	241	0	1	0	3	0	4	343	
9:00 PM	0	0	13	1	0	14	0	0	0	0	0	0	0	5	33	0	0	38	0	1	0	1	0	2	54	
9:15 PM	0	0	11	2	0	13	0	0	0	0	0	0	0	3	29	0	0	32	0	0	0	0	0	0	45	
9:30 PM	0	0	12	0	0	12	0	0	0	0	0	0	0	2	32	0	0	34	0	0	0	0	0	0	46	
9:45 PM	0	0	15	1	0	16	0	0	0	0	0	0	0	1	19	0	0	20	0	0	0	0	0	0	36	
Hourly Total	0	0	51	4	0	55	0	0	0	0	0	0	0	11	113	0	0	124	0	1	0	1	0	2	181	
10:00 PM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	26	0	0	26	0	0	0	1	0	1	35	
10:15 PM	0	0	9	0	0	9	0	0	0	0	0	0	0	2	32	0	0	34	0	0	0	1	0	1	44	
10:30 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	3	22	0	0	25	0	1	0	1	0	2	33	
10:45 PM	0	0	9	0	0	9	0	0	0	0	0	0	0	3	15	0	0	18	0	1	0	1	0	2	29	
Hourly Total	0	0	32	0	0	32	0	0	0	0	0	0	0	8	95	0	0	103	0	2	0	4	0	6	141	
11:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	20	0	0	20	0	1	0	0	0	1	23	
11:15 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	22	0	0	23	0	0	0	0	0	0	26	
11:30 PM	0	0	6	0	0	6	0	0	0	0	0	0	0	0	14	0	0	14	0	0	0	1	0	1	21	
11:45 PM	0	0	3	1	0	4	0	0	0	0	0	0	0	0	9	0	0	9	0	1	0	1	0	2	15	
Hourly Total	0	0	14	1	0	15	0	0	0	0	0	0	0	1	65	0	0	66	0	2	0	2	0	4	85	
DAILY TOTAL	1	0	4694	54	0	4749	0	0	0	0	0	0	0	270	4498	0	2	4768	0	54	0	278	6	332	9849	
Cars	1	0	4550	45	0	4596	0	0	0	0	0	0	0	266	4360	0	2	4626	0	53	0	266	6	319	9541	
Heavy Vehicles	0	0	144	9	0	153	0	0	0	0	0	0	0	4	138	0	0	142	0	1	0	12	0	13	308	
Heavy Vehicle %	0.00%	0.00%	3.07%	16.67%	0.00%	3.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.48%	3.07%	0.00%	0.00%	2.98%	0.00%	1.85%	0.00%	4.32%	0.00%	3.92%	3.13%

**TMC 2440 - CSAH 7 @ 165th Ave
Andover MN
Thursday, May 16, 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	
6:45 AM	0	0	165	1	0	166	0	0	0	0	0	0	0	0	34	0	0	34	0	1	0	3	0	4	204
7:00 AM	0	0	159	0	0	159	0	0	0	0	0	0	0	0	29	0	0	29	0	2	0	9	0	11	199
7:15 AM	0	0	161	1	0	162	0	0	0	0	0	0	0	5	47	0	0	52	0	2	0	15	0	17	231
7:30 AM	0	0	166	1	0	167	0	0	0	0	0	0	0	2	49	0	0	51	0	3	0	8	0	11	229
Peak Hour Total	0	0	651	3	0	654	0	0	0	0	0	0	0	7	159	0	0	166	0	8	0	35	0	43	863
PHF	0.000	0.000	0.980	0.750	0.000	0.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.350	0.811	0.000	0.000	0.798	0.000	0.667	0.000	0.583	0.000	0.632	0.934

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	
4:00 PM	0	0	61	1	0	62	0	0	0	0	0	0	0	10	138	0	0	148	0	1	0	4	0	5	215
4:15 PM	0	0	71	3	0	74	0	0	0	0	0	0	0	9	127	0	0	136	0	1	0	3	0	4	214
4:30 PM	0	0	53	4	0	57	0	0	0	0	0	0	0	8	148	0	0	156	0	2	0	9	0	11	224
4:45 PM	0	0	65	0	0	65	0	0	0	0	0	0	0	10	155	0	0	165	0	3	0	7	0	10	240
Peak Hour Total	0	0	250	8	0	258	0	0	0	0	0	0	0	37	568	0	0	605	0	7	0	23	0	30	893
PHF	0.000	0.000	0.880	0.500	0.000	0.872	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.925	0.916	0.000	0.000	0.917	0.000	0.583	0.000	0.639	0.000	0.682	0.930

Total Vehicles On Leg				9302			
Vehicles Entering Intersection				4749			
Vehicles Exiting Intersection				4553			
Southbound							
Cars	45	4550	0	1	0		
Heavy	9	144	0	0	0		
Total	54	4694	0	1	0		

Total Vehicles on Leg 656	Eastbound	Cars	6	0	6
		Heavy	0	0	0
		Total	6	0	6
		Vehicles Entering Intersection	332		
		Vehicles Exiting Intersection	324		

Total Vehicles on Leg 0	Westbound	Cars	0	0	0
		Heavy	0	0	0
		Total	0	0	0
		Vehicles Entering Intersection	0		
		Vehicles Exiting Intersection	0		

Total Vehicles on Leg 9740	Northbound	Cars	2	0	266	4360	0
		Heavy	0	0	4	138	0
		Total	2	0	270	4498	0
		Vehicles Entering Intersection	4768				
		Vehicles Exiting Intersection	4972				

Daily Volumes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2440

Study Date : 05/21/2024

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 7

Number of Lanes : 1

Total Approach Volume: 4,768

Southbound: CSAH 7

Number of Lanes : 1

Total Approach Volume: 4,749

Minor Street Approaches

Eastbound: 165th Ave

Number of Lanes : 1

Total Approach Volume: 332

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 1 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 2440

Study Date : 05/21/2024

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	
16:00 - 17:00	605	+	258	=	863	30	0	No
16:15 - 17:15	587	+	246	=	833	30	0	No
16:30 - 17:30	591	+	236	=	827	33	0	No
15:45 - 16:45	568	+	258	=	826	24	0	No
06:45 - 07:45	166	+	654	=	820	43	0	No
16:45 - 17:45	560	+	255	=	815	24	0	No
15:30 - 16:30	544	+	262	=	806	18	0	No
06:30 - 07:30	139	+	667	=	806	38	0	No
15:15 - 16:15	556	+	242	=	798	20	0	No
07:00 - 08:00	176	+	605	=	781	43	0	No
15:00 - 16:00	530	+	248	=	778	21	0	No
14:45 - 15:45	528	+	237	=	765	25	0	No
06:15 - 07:15	112	+	645	=	757	28	0	No
17:00 - 18:00	512	+	244	=	756	18	0	No
14:30 - 15:30	503	+	227	=	730	28	0	No
17:15 - 18:15	486	+	239	=	725	18	0	No
06:00 - 07:00	100	+	623	=	723	19	0	No
07:15 - 08:15	185	+	521	=	706	40	0	No
17:30 - 18:30	451	+	224	=	675	19	0	No
14:15 - 15:15	445	+	229	=	674	27	0	No
07:30 - 08:30	159	+	476	=	635	30	0	No
05:45 - 06:45	78	+	555	=	633	19	0	No
14:00 - 15:00	420	+	207	=	627	29	0	No
17:45 - 18:45	422	+	200	=	622	22	0	No
13:45 - 14:45	380		220		600	28	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2440

Study Date : 05/21/2024

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	
16:00 - 17:00	605	+	258	=	863	30	0	No
16:15 - 17:15	587	+	246	=	833	30	0	No
16:30 - 17:30	591	+	236	=	827	33	0	No
15:45 - 16:45	568	+	258	=	826	24	0	No
06:45 - 07:45	166	+	654	=	820	43	0	No
16:45 - 17:45	560	+	255	=	815	24	0	No
15:30 - 16:30	544	+	262	=	806	18	0	No
06:30 - 07:30	139	+	667	=	806	38	0	No
15:15 - 16:15	556	+	242	=	798	20	0	No
07:00 - 08:00	176	+	605	=	781	43	0	No
15:00 - 16:00	530	+	248	=	778	21	0	No
14:45 - 15:45	528	+	237	=	765	25	0	No
06:15 - 07:15	112	+	645	=	757	28	0	No
17:00 - 18:00	512	+	244	=	756	18	0	No
14:30 - 15:30	503	+	227	=	730	28	0	No
17:15 - 18:15	486	+	239	=	725	18	0	No
06:00 - 07:00	100	+	623	=	723	19	0	No
07:15 - 08:15	185	+	521	=	706	40	0	No
17:30 - 18:30	451	+	224	=	675	19	0	No
14:15 - 15:15	445	+	229	=	674	27	0	No
07:30 - 08:30	159	+	476	=	635	30	0	No
05:45 - 06:45	78	+	555	=	633	19	0	No
14:00 - 15:00	420	+	207	=	627	29	0	No
17:45 - 18:45	422	+	200	=	622	22	0	No
13:45 - 14:45	380		220		600	28	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2440

Study Date : 05/21/2024

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 1 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 7

Minor Road 165th Ave

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
16:00 - 17:00	605	+	258	=	863	30	0	No
16:15 - 17:15	587	+	246	=	833	30	0	No
16:30 - 17:30	591	+	236	=	827	33	0	No
15:45 - 16:45	568	+	258	=	826	24	0	No
06:45 - 07:45	166	+	654	=	820	43	0	No
16:45 - 17:45	560	+	255	=	815	24	0	No
06:30 - 07:30	139	+	667	=	806	38	0	No
15:30 - 16:30	544	+	262	=	806	18	0	No
15:15 - 16:15	556	+	242	=	798	20	0	No
07:00 - 08:00	176	+	605	=	781	43	0	No
15:00 - 16:00	530	+	248	=	778	21	0	No
14:45 - 15:45	528	+	237	=	765	25	0	No

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
06:45 - 07:45	166	+	654	=	820	43	0	Yes
16:00 - 17:00	605	+	258	=	863	30	0	No
16:15 - 17:15	587	+	246	=	833	30	0	No
16:30 - 17:30	591	+	236	=	827	33	0	No
15:45 - 16:45	568	+	258	=	826	24	0	No
16:45 - 17:45	560	+	255	=	815	24	0	No
06:30 - 07:30	139	+	667	=	806	38	0	No
15:30 - 16:30	544	+	262	=	806	18	0	No
15:15 - 16:15	556	+	242	=	798	20	0	No
15:00 - 16:00	530	+	248	=	778	21	0	No
14:45 - 15:45	528	+	237	=	765	25	0	No
06:15 - 07:15	112	+	645	=	757	28	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2440

Study Date : 05/21/2024

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.

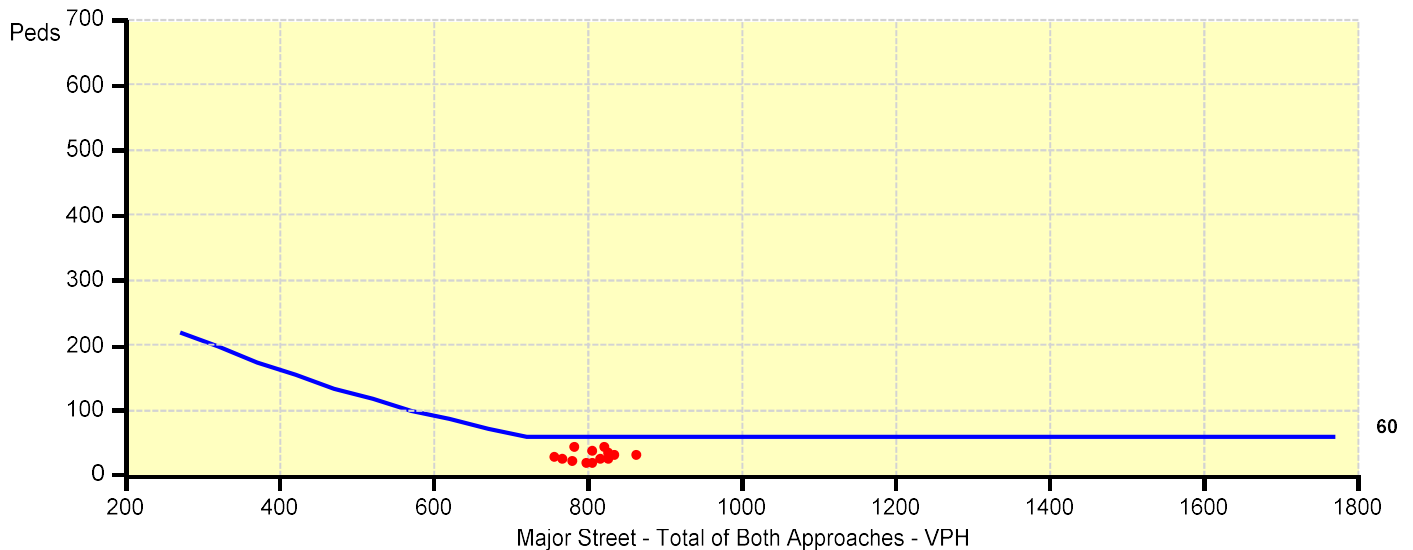
Summary

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 7				Total	Minor Road 165th Ave		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	605	+	258	=	863	30	0	No
16:15 - 17:15	587	+	246	=	833	30	0	No
16:30 - 17:30	591	+	236	=	827	33	0	No
15:45 - 16:45	568	+	258	=	826	24	0	No
06:45 - 07:45	166	+	654	=	820	43	0	No
16:45 - 17:45	560	+	255	=	815	24	0	No
15:30 - 16:30	544	+	262	=	806	18	0	No
06:30 - 07:30	139	+	667	=	806	38	0	No
15:15 - 16:15	556	+	242	=	798	20	0	No
07:00 - 08:00	176	+	605	=	781	43	0	No
15:00 - 16:00	530	+	248	=	778	21	0	No
14:45 - 15:45	528		237		765	25	0	No



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2440

Study Date : 05/21/2024

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 7				Total	Minor Road 165th Ave		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
16:00 - 17:00	605	+	258	=	863	30	0	No
16:15 - 17:15	587	+	246	=	833	30	0	No
16:30 - 17:30	591	+	236	=	827	33	0	No
15:45 - 16:45	568	+	258	=	826	24	0	No
06:45 - 07:45	166	+	654	=	820	43	0	No
16:45 - 17:45	560	+	255	=	815	24	0	No
15:30 - 16:30	544	+	262	=	806	18	0	No
06:30 - 07:30	139	+	667	=	806	38	0	No
15:15 - 16:15	556	+	242	=	798	20	0	No
07:00 - 08:00	176	+	605	=	781	43	0	No
15:00 - 16:00	530	+	248	=	778	21	0	No
14:45 - 15:45	528		237		765	25	0	No

