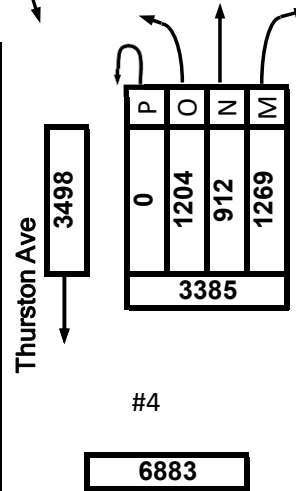
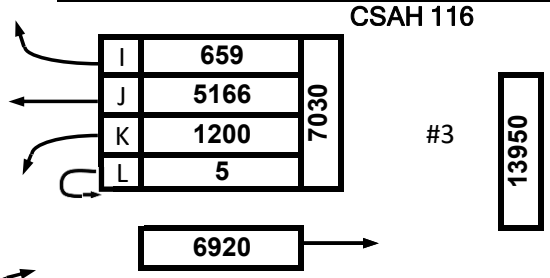
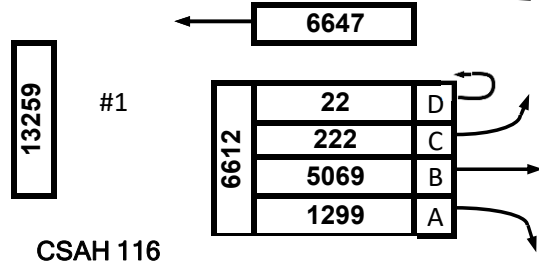
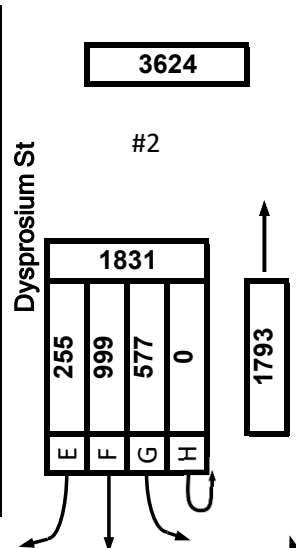
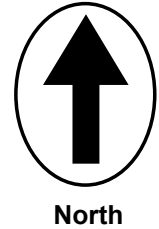


Date : 12/07/23

Count Number : TMC 23105

Location : CSAH 116
@ Thurston Ave

Collection Period : 24 HR



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

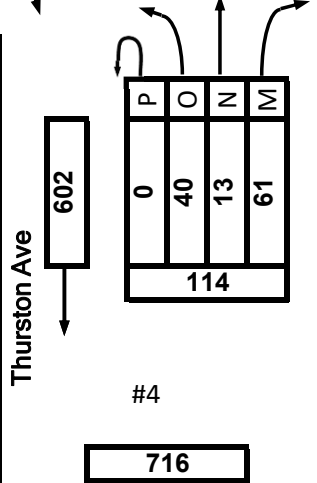
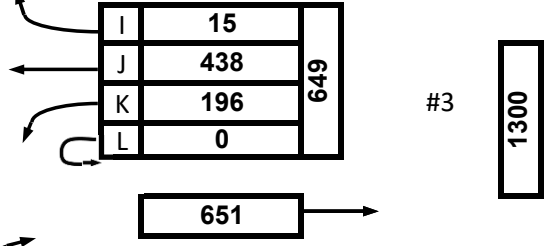
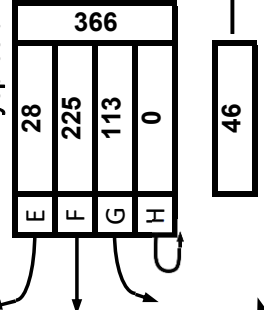
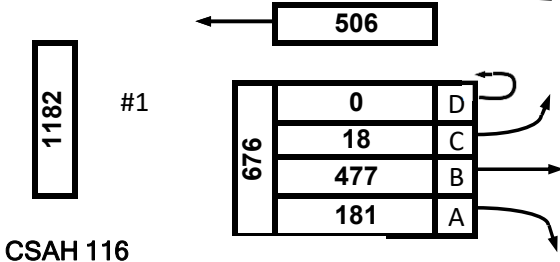
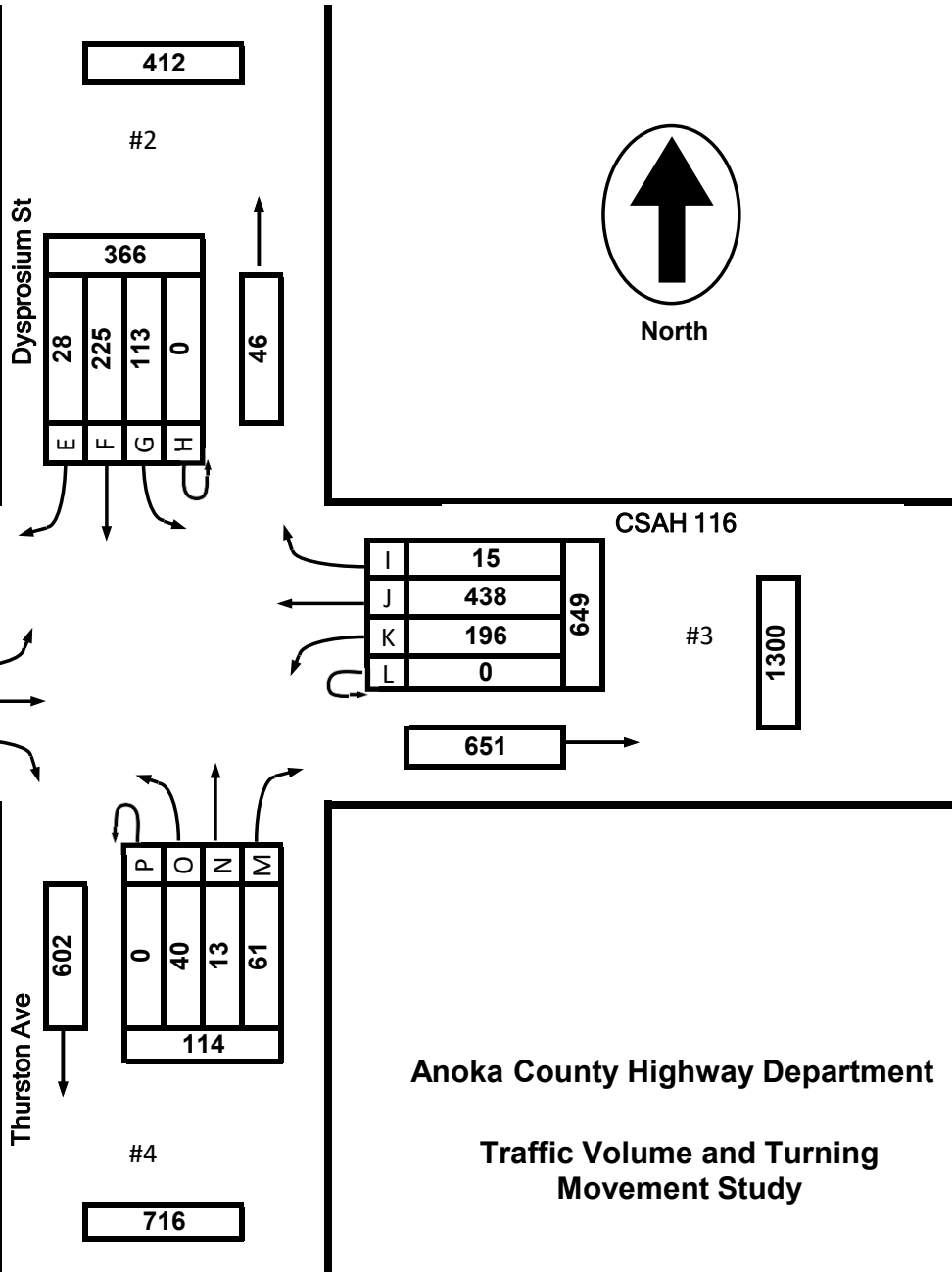
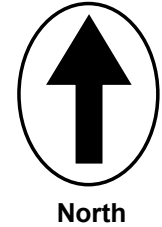
Anoka County Highway Department
 Traffic Volume and Turning Movement Study

Date : 12/07/23

Count Number : TMC 23105

Location : CSAH 116
@ Thurston Ave

Collection Period : 7:00 AM - 8:00 AM
AM PEAK



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

Anoka County Highway Department
Traffic Volume and Turning Movement Study

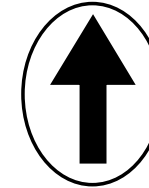
Date : 12/07/23

Count Number : TMC 23105

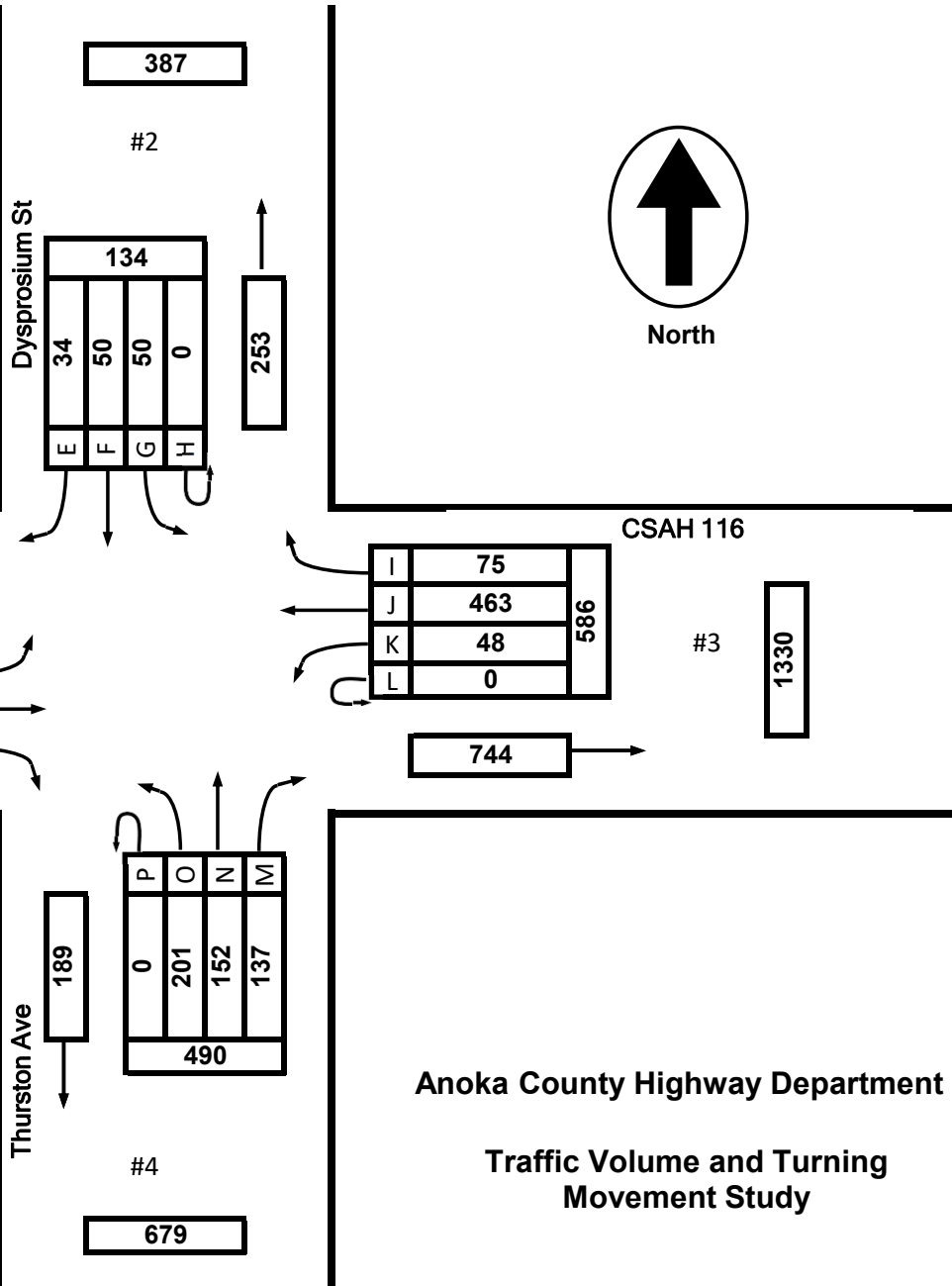
Location : CSAH 116
@ Thurston Ave

Collection Period : 4:00 PM - 5:00 PM

PM PEAK



North



CSAH 116

CSAH 116

Thurston Ave

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

Anoka County Highway Department

Traffic Volume and Turning Movement Study

**TMC 23105 - CSAH 116 @ Thurston Ave
Ramsey MN**

Thursday, December 7, 2023

Time	Southbound Dysprosium St						Westbound CSAH 116						Northbound Thurston Ave						Eastbound CSAH 116						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	1	0	0	1	0	1	2	0	0	3	0	9	4	5	0	18	0	0	4	0	1	4	26
12:15 AM	0	1	0	0	0	1	0	1	4	0	0	5	0	2	1	1	0	4	0	0	3	0	0	3	13
12:30 AM	0	0	0	0	0	0	0	0	2	0	0	2	0	3	1	2	0	6	0	0	3	0	0	3	11
12:45 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	1	2	1	0	4	0	0	2	1	0	3	9
Hourly Total	0	1	1	0	0	2	0	2	9	1	0	12	0	15	8	9	0	32	0	0	12	1	1	13	59
1:00 AM	0	1	1	0	0	2	0	0	3	0	0	3	0	4	0	3	0	7	0	0	4	0	0	4	16
1:15 AM	0	0	1	0	0	1	0	1	1	0	0	2	0	1	0	1	0	2	0	0	6	1	0	7	12
1:30 AM	0	0	1	0	0	1	0	0	1	0	0	1	0	2	0	3	0	5	0	0	6	0	0	6	13
1:45 AM	0	0	1	0	0	1	0	0	2	1	0	3	0	3	1	3	0	7	0	1	2	0	0	3	14
Hourly Total	0	1	4	0	0	5	0	1	7	1	0	9	0	10	1	10	0	21	0	1	18	1	0	20	55
2:00 AM	0	0	1	0	0	1	0	0	2	2	0	4	0	0	1	3	0	4	0	0	14	3	0	17	26
2:15 AM	0	0	0	0	0	0	0	1	2	0	0	3	0	0	0	1	0	1	0	0	5	1	0	6	10
2:30 AM	0	0	1	1	0	2	0	4	0	0	0	4	0	3	1	2	0	6	0	0	2	1	0	3	15
2:45 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	1	0	3	0	0	1	0	0	1	5
Hourly Total	0	0	2	1	0	3	0	5	5	2	0	12	0	5	2	7	0	14	0	0	22	5	0	27	56
3:00 AM	0	0	0	0	0	0	0	0	5	0	0	5	0	2	0	4	0	6	0	0	3	1	0	4	15
3:15 AM	0	2	0	0	0	2	0	2	0	0	0	2	0	1	2	0	0	3	0	0	3	3	0	6	13
3:30 AM	0	1	1	0	0	2	0	1	3	0	0	4	0	1	1	4	0	6	0	0	3	2	0	5	17
3:45 AM	0	2	2	0	0	4	0	3	2	0	0	5	0	0	1	0	0	1	0	0	2	2	0	4	14
Hourly Total	0	5	3	0	0	8	0	6	10	0	0	16	0	4	4	8	0	16	0	0	11	8	0	19	59
4:00 AM	0	1	1	1	0	3	0	2	4	0	0	6	0	2	0	1	0	3	0	0	3	1	0	4	16
4:15 AM	0	1	4	0	0	5	0	6	5	0	0	11	0	0	1	1	0	2	0	0	4	7	0	11	29
4:30 AM	0	1	3	1	0	5	0	8	28	0	0	36	0	0	0	1	0	1	0	0	3	2	0	5	47
4:45 AM	0	1	7	2	0	10	0	10	25	0	0	35	0	1	2	0	0	3	0	1	6	6	0	13	61
Hourly Total	0	4	15	4	0	23	0	26	62	0	0	88	0	3	3	3	0	9	0	1	16	16	0	33	153
5:00 AM	0	2	9	0	0	11	0	11	18	1	0	30	0	1	0	8	0	9	0	0	14	10	0	24	74
5:15 AM	0	4	17	0	0	21	0	15	18	1	0	34	0	3	0	0	0	3	0	1	17	11	0	29	87
5:30 AM	0	8	14	2	0	24	0	24	43	0	0	67	0	4	0	1	0	5	0	1	29	23	0	53	149
5:45 AM	0	3	21	3	0	27	0	32	52	1	0	85	0	6	0	1	0	7	0	1	17	28	0	46	165
Hourly Total	0	17	61	5	0	83	0	82	131	3	0	216	0	14	0	10	0	24	0	3	77	72	0	152	475
6:00 AM	0	6	22	4	0	32	0	24	34	3	0	61	0	11	1	4	0	16	0	0	39	18	0	57	166
6:15 AM	0	9	29	6	0	44	0	21	40	3	0	64	0	5	0	6	0	11	0	1	58	35	0	94	213
6:30 AM	0	8	31	10	0	49	0	25	56	3	0	84	0	6	2	6	0	14	0	0	68	36	0	104	251
6:45 AM	0	16	45	5	0	66	0	38	80	7	0	125	0	11	3	7	0	21	0	1	108	49	0	158	370
Hourly Total	0	39	127	25	0	191	0	108	210	16	0	334	0	33	6	23	0	62	0	2	273	138	0	413	1000
7:00 AM	0	22	49	9	0	80	0	27	60	2	0	89	0	7	5	11	0	23	0	7	113	35	0	155	347
7:15 AM	0	47	60	9	0	116	0	45	86	3	0	134	0	7	3	12	0	22	0	2	152	58	1	212	484
7:30 AM	0	30	45	4	0	79	0	70	137	2	0	209	0	9	5	18	0	32	0	4	104	54	0	162	482
7:45 AM	0	14	71	6	0	91	0	54	155	8	0	217	0	17	0	20	0	37	0	5	108	34	0	147	492
Hourly Total	0	113	225	28	0	366	0	196	438	15	0	649	0	40	13	61	0	114	0	18	477	181	1	676	1805

**TMC 23105 - CSAH 116 @ Thurston Ave
Ramsey MN
Thursday, December 7, 2023**

Time	Southbound Dysprosium St						Westbound CSAH 116						Northbound Thurston Ave						Eastbound CSAH 116						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	4	26	3	0	33	0	35	77	8	0	120	0	9	10	10	0	29	0	1	96	37	0	134	316
8:15 AM	0	4	22	3	0	29	0	18	74	7	0	99	0	10	7	13	0	30	0	1	65	35	0	101	259
8:30 AM	0	6	19	5	0	30	0	26	45	5	0	76	0	9	6	9	0	24	0	1	62	28	0	91	221
8:45 AM	0	9	18	2	0	29	0	26	54	5	0	85	0	10	8	19	0	37	0	1	65	17	0	83	234
Hourly Total	0	23	85	13	0	121	0	105	250	25	0	380	0	38	31	51	0	120	0	4	288	117	0	409	1030
9:00 AM	0	8	14	3	0	25	0	17	47	3	0	67	0	11	9	10	0	30	2	2	90	19	0	113	235
9:15 AM	0	3	28	5	0	36	0	8	49	3	0	60	0	7	13	19	0	39	0	3	56	22	0	81	216
9:30 AM	0	8	15	4	0	27	0	20	73	7	0	100	0	8	7	21	0	36	0	2	48	11	0	61	224
9:45 AM	0	10	10	4	0	24	0	12	55	7	0	74	0	9	7	31	0	47	0	0	48	17	0	65	210
Hourly Total	0	29	67	16	0	112	0	57	224	20	0	301	0	35	36	81	0	152	2	7	242	69	0	320	885
10:00 AM	0	4	9	1	0	14	0	5	44	4	0	53	0	10	13	14	0	37	0	1	68	11	0	80	184
10:15 AM	0	4	8	2	0	14	0	12	55	5	0	72	0	4	5	8	0	17	1	4	63	10	0	78	181
10:30 AM	0	8	8	1	0	17	0	11	50	7	0	68	0	12	9	20	0	41	1	1	63	7	0	72	198
10:45 AM	0	9	10	3	0	22	0	12	50	7	0	69	0	14	5	16	0	35	0	5	59	15	0	79	205
Hourly Total	0	25	35	7	0	67	0	40	199	23	0	262	0	40	32	58	0	130	2	11	253	43	0	309	768
11:00 AM	0	11	7	1	0	19	0	18	67	7	0	92	0	10	11	35	0	56	0	2	69	15	1	86	253
11:15 AM	0	8	5	3	0	16	0	19	63	11	0	93	0	14	9	20	0	43	0	3	65	23	0	91	243
11:30 AM	0	5	12	2	0	19	0	33	73	14	0	120	0	22	9	25	0	56	0	4	87	12	1	103	298
11:45 AM	0	10	8	1	0	19	0	45	66	11	0	122	0	14	9	31	0	54	0	3	80	30	0	113	308
Hourly Total	0	34	32	7	0	73	0	115	269	43	0	427	0	60	38	111	0	209	0	12	301	80	2	393	1102
12:00 PM	0	4	9	4	0	17	0	30	76	8	0	114	0	20	16	28	0	64	0	4	70	18	0	92	287
12:15 PM	0	11	13	3	0	27	1	23	69	3	0	96	0	20	9	24	0	53	0	2	63	19	0	84	260
12:30 PM	0	14	16	4	0	34	0	17	93	10	0	120	0	13	14	21	0	48	2	5	54	20	0	81	283
12:45 PM	0	6	6	4	0	16	0	25	66	12	1	103	0	19	7	16	0	42	0	7	77	26	0	110	271
Hourly Total	0	35	44	15	0	94	1	95	304	33	1	433	0	72	46	89	0	207	2	18	264	83	0	367	1101
1:00 PM	0	5	4	1	0	10	0	13	72	10	0	95	0	23	17	25	0	65	0	4	67	19	0	90	260
1:15 PM	0	4	8	2	0	14	1	14	70	10	0	95	0	9	14	21	0	44	0	4	75	17	0	96	249
1:30 PM	0	5	10	1	0	16	0	13	74	10	0	97	0	15	19	19	0	53	1	3	68	24	0	96	262
1:45 PM	0	11	7	1	0	19	0	21	73	7	0	101	0	16	17	38	0	71	0	1	79	17	0	97	288
Hourly Total	0	25	29	5	0	59	1	61	289	37	0	388	0	63	67	103	0	233	1	12	289	77	0	379	1059
2:00 PM	0	8	7	4	0	19	0	20	89	10	0	119	0	29	17	75	0	121	0	1	94	19	0	114	373
2:15 PM	0	10	14	3	0	27	0	20	120	15	0	155	0	17	12	23	0	52	0	2	85	16	0	103	337
2:30 PM	0	15	17	3	0	35	0	24	148	19	0	191	0	26	20	40	0	86	1	3	98	27	0	129	441
2:45 PM	0	9	10	4	0	23	0	19	104	42	0	165	0	25	32	32	0	89	0	3	73	23	0	99	376
Hourly Total	0	42	48	14	0	104	0	83	461	86	0	630	0	97	81	170	0	348	1	9	350	85	0	445	1527
3:00 PM	0	9	12	8	0	29	1	16	130	14	0	161	0	27	47	46	0	120	0	8	98	18	0	124	434
3:15 PM	0	9	10	3	0	22	1	14	88	6	0	109	0	26	26	19	0	71	1	7	101	16	1	125	327
3:30 PM	0	13	10	3	1	26	0	6	119	14	0	139	0	53	37	33	0	123	0	14	186	38	2	238	526
3:45 PM	0	6	13	4	0	23	0	14	96	13	0	123	0	80	30	22	0	132	2	5	96	25	0	128	406
Hourly Total	0	37	45	18	1	100	2	50	433	47	0	532	0	186	140	120	0	446	3	34	481	97	3	615	1693

**TMC 23105 - CSAH 116 @ Thurston Ave
Ramsey MN**

Thursday, December 7, 2023

Time	Southbound Dysprosium St						Westbound CSAH 116						Northbound Thurston Ave						Eastbound CSAH 116						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	12	10	6	0	28	0	13	116	23	0	152	0	62	38	30	0	130	3	8	127	23	1	161	471
4:15 PM	0	21	10	9	0	40	0	12	133	12	0	157	0	37	33	26	0	96	1	7	134	17	0	159	452
4:30 PM	0	1	20	11	0	32	0	11	91	23	0	125	0	56	45	53	0	154	2	6	156	32	0	196	507
4:45 PM	0	16	10	8	0	34	0	12	123	17	0	152	0	46	36	28	0	110	0	5	140	19	0	164	460
Hourly Total	0	50	50	34	0	134	0	48	463	75	0	586	0	201	152	137	0	490	6	26	557	91	1	680	1890
5:00 PM	0	9	7	8	0	24	1	12	113	22	0	148	0	37	35	29	0	101	0	12	120	12	0	144	417
5:15 PM	0	14	15	6	0	35	0	9	135	20	0	164	0	29	28	22	0	79	0	7	102	18	1	127	405
5:30 PM	0	4	16	15	0	35	0	16	118	22	0	156	0	34	22	22	0	78	0	6	83	10	0	99	368
5:45 PM	0	5	7	6	0	18	0	11	88	18	0	117	0	25	23	13	0	61	1	6	86	5	0	98	294
Hourly Total	0	32	45	35	0	112	1	48	454	82	0	585	0	125	108	86	0	319	1	31	391	45	1	468	1484
6:00 PM	0	12	9	1	0	22	0	4	89	12	0	105	0	17	19	13	0	49	1	1	68	13	0	83	259
6:15 PM	0	3	13	3	0	19	0	11	80	16	0	107	0	16	14	11	0	41	0	2	70	12	0	84	251
6:30 PM	0	2	8	4	0	14	0	3	71	12	0	86	0	14	10	7	0	31	0	4	81	7	0	92	223
6:45 PM	0	4	4	4	0	12	0	0	59	4	0	63	0	12	11	7	0	30	0	3	48	3	0	54	159
Hourly Total	0	21	34	12	0	67	0	18	299	44	0	361	0	59	54	38	0	151	1	10	267	35	0	313	892
7:00 PM	0	11	4	5	0	20	0	3	48	7	0	58	0	9	9	6	0	24	0	1	51	8	0	60	162
7:15 PM	0	2	4	1	0	7	0	5	56	5	0	66	0	7	9	10	0	26	0	4	39	1	0	44	143
7:30 PM	0	1	3	1	0	5	0	6	43	10	0	59	0	6	5	4	0	15	0	1	40	4	0	45	124
7:45 PM	0	4	0	2	0	6	0	4	59	8	0	71	0	7	3	2	0	12	0	5	42	2	0	49	138
Hourly Total	0	18	11	9	0	38	0	18	206	30	0	254	0	29	26	22	0	77	0	11	172	15	0	198	567
8:00 PM	0	1	2	1	0	4	0	6	42	10	0	58	0	7	10	6	0	23	0	1	35	2	0	38	123
8:15 PM	0	7	4	2	0	13	0	6	47	5	0	58	0	8	6	13	0	27	0	0	25	3	0	28	126
8:30 PM	0	5	7	0	0	12	0	1	37	6	0	44	0	10	3	6	0	19	0	1	49	4	0	54	129
8:45 PM	0	0	0	1	0	1	0	1	39	6	0	46	0	6	6	1	0	13	0	1	27	1	0	29	89
Hourly Total	0	13	13	4	0	30	0	14	165	27	0	206	0	31	25	26	0	82	0	3	136	10	0	149	467
9:00 PM	0	1	4	0	0	5	0	1	37	1	0	39	0	10	3	4	0	17	0	1	24	1	0	26	87
9:15 PM	0	3	3	0	0	6	0	3	62	12	0	77	0	2	3	8	0	13	0	1	22	4	0	27	123
9:30 PM	0	2	3	0	0	5	0	5	25	11	0	41	0	3	5	4	0	12	2	1	30	0	0	33	91
9:45 PM	0	2	3	1	0	6	0	5	36	5	0	46	0	4	5	4	0	13	0	0	12	2	0	14	79
Hourly Total	0	8	13	1	0	22	0	14	160	29	0	203	0	19	16	20	0	55	2	3	88	7	0	100	380
10:00 PM	0	2	1	0	0	3	0	3	23	6	0	32	0	5	7	8	0	20	1	0	9	6	0	16	71
10:15 PM	0	0	1	0	0	1	0	1	9	1	0	11	0	4	4	1	0	9	0	0	15	2	1	17	38
10:30 PM	0	1	2	1	0	4	0	2	24	3	0	29	0	3	6	5	0	14	0	3	17	5	0	25	72
10:45 PM	0	1	4	0	0	5	0	0	13	1	0	14	0	4	2	0	0	6	0	1	12	3	0	16	41
Hourly Total	0	4	8	1	0	13	0	6	69	11	0	86	0	16	19	14	0	49	1	4	53	16	1	74	222
11:00 PM	0	1	0	0	0	1	0	0	15	3	0	18	0	2	1	4	0	7	0	0	12	2	0	14	40
11:15 PM	0	0	1	0	0	1	0	1	13	3	0	17	0	0	2	2	0	4	0	1	7	1	0	9	31
11:30 PM	0	0	0	1	0	1	0	1	13	1	0	15	0	1	0	6	0	7	0	1	11	3	0	15	38
11:45 PM	0	0	1	0	0	1	0	0	8	2	0	10	0	6	1	0	0	7	0	0	1	1	0	2	20
Hourly Total	0	1	2	1	0	4	0	2	49	9	0	60	0	9	4	12	0	25	0	2	31	7	0	40	129
DAILY TOTAL	0	577	999	255	1	1831	5	1200	5166	659	1	7030	0	1204	912	1269	0	3385	22	222	5069	1299	10	6612	18858
Cars	0	559	970	247	0	1776	5	1141	5021	651	0	6818	0	1147	893	1213	0	3253	22	216	4931	1213	5	6382	18229
Heavy Vehicles	0	18	29	8	1	55	0	59	145	8	1	212	0	57	19	56	0	132	0	6	138	86	5	230	629
Heavy Vehicle %	0.00%	3.12%	2.90%	3.14%	100.00%	3.00%	0.00%	4.92%	2.81%	1.21%	100.00%	3.02%	0.00%	4.73%	2.08%	4.41%	0.00%	3.90%	0.00%	2.70%	2.72%	6.62%	50.00%	3.48%	3.34%

**TMC 23105 - CSAH 116 @ Thurston Ave
Ramsey MN
Thursday, December 7, 2023
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	22	49	9	0	80	0	27	60	2	0	89	0	7	5	11	0	23	0	7	113	35	0	155	347
7:15 AM	0	47	60	9	0	116	0	45	86	3	0	134	0	7	3	12	0	22	0	2	152	58	1	212	484
7:30 AM	0	30	45	4	0	79	0	70	137	2	0	209	0	9	5	18	0	32	0	4	104	54	0	162	482
7:45 AM	0	14	71	6	0	91	0	54	155	8	0	217	0	17	0	20	0	37	0	5	108	34	0	147	492
Peak Hour Total	0	113	225	28	0	366	0	196	438	15	0	649	0	40	13	61	0	114	0	18	477	181	1	676	1805
PHF	0.000	0.601	0.792	0.778	0.000	0.789	0.000	0.700	0.706	0.469	0.000	0.748	0.000	0.588	0.650	0.763	0.000	0.770	0.000	0.643	0.785	0.780	0.250	0.797	0.917

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	12	10	6	0	28	0	13	116	23	0	152	0	62	38	30	0	130	3	8	127	23	1	161	471
4:15 PM	0	21	10	9	0	40	0	12	133	12	0	157	0	37	33	26	0	96	1	7	134	17	0	159	452
4:30 PM	0	1	20	11	0	32	0	11	91	23	0	125	0	56	45	53	0	154	2	6	156	32	0	196	507
4:45 PM	0	16	10	8	0	34	0	12	123	17	0	152	0	46	36	28	0	110	0	5	140	19	0	164	460
Peak Hour Total	0	50	50	34	0	134	0	48	463	75	0	586	0	201	152	137	0	490	6	26	557	91	1	680	1890
PHF	0.000	0.595	0.625	0.773	0.000	0.838	0.000	0.923	0.870	0.815	0.000	0.933	0.000	0.810	0.844	0.646	0.000	0.795	0.500	0.813	0.893	0.711	0.250	0.867	0.932

Total Vehicles On Leg				3624	
Vehicles Entering Intersection		1831	Vehicles Exiting Intersection		1793
Southbound					
Cars	247	970	559	0	0
Heavy	8	29	18	0	1
Total	255	999	577	0	1



Total Vehicles on Leg 13259	Vehicles Entering Intersection 6612	Eastbound	Cars	Heavy	Total
			5	5	10
	22		0	22	
	216		6	222	
	4931		138	5069	
Vehicles Exiting Intersection 6647			1213	86	1299



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 7030	Total Vehicles on Leg 13950
651	8	659			
5021	145	5166			
1141	59	1200			
5	0	5			
0	1	1	Vehicles Exiting Intersection 6920		



Cars	0	0	1147	893	1213
Heavy	0	0	57	19	56
Total	0	0	1204	912	1269
Northbound					
Vehicles Entering Intersection			3385		
Vehicles Exiting Intersection			3498		
Total Vehicles On Leg			6883		



Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound						
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	
12/7/2023	0:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0:15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	2:30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	
	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
	3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4:30	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	4:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	5:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	1	0	0	
	5:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	5:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
	5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
	6:00	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
	6:15	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	
	6:30	0	1	0	0	0	0	0	0	2	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	
	6:45	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	3	4	0	0	
	7:00	0	7	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	7	4	0	0	
	7:15	0	1	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	
	7:30	0	0	0	0	0	0	0	5	7	1	0	0	0	2	0	1	0	0	0	0	1	1	0	0	
	7:45	0	1	2	0	0	0	0	2	5	0	0	0	0	1	0	6	0	0	0	0	1	4	4	0	0
	8:00	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	0	0	6	3	0	0	
	8:15	0	0	1	0	0	0	0	1	1	0	0	0	0	1	1	2	0	0	0	0	5	2	0	0	
	8:30	0	0	0	0	0	0	0	3	3	0	0	0	0	2	0	1	0	0	0	0	3	0	0	0	
	8:45	0	0	2	0	0	0	0	1	4	0	0	0	0	1	0	2	0	0	0	0	2	0	0	0	
	9:00	0	1	0	0	0	0	0	0	4	1	0	0	0	0	1	1	0	0	0	0	5	2	0	0	
	9:15	0	0	8	0	0	0	0	0	2	1	0	0	0	1	2	2	0	0	0	0	2	2	0	0	
	9:30	0	0	1	0	0	0	0	4	4	0	0	0	0	1	0	2	0	0	0	0	2	1	0	0	
	9:45	0	0	0	0	0	0	0	4	3	0	0	0	0	1	0	4	0	0	0	0	2	1	0	0	
	10:00	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	1	1	0	0
	10:15	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	
	10:30	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	3	0	0	0	
	10:45	0	0	0	1	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
	11:00	0	0	0	0	0	0	0	2	2	0	0	0	0	1	0	4	0	0	0	0	2	2	0	0	
	11:15	0	0	0	1	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	2	3	0	0	
	11:30	0	1	1	0	0	0	0	1	2	1	0	0	0	2	0	2	0	0	0	0	0	2	1	0	
	11:45	0	0	0	0	0	0	0	2	5	0	0	0	0	2	1	0	0	0	0	0	4	4	0	0	

Heavy Vehicles

Date	Time	Southbound						Westbound						Northbound						Eastbound						
		U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	EB Bicycles in Crosswalk	WB Bicycles in Crosswalk	U Turns	Left Turns	Straight Through	Right Turns	NB Bicycles in Crosswalk	SB Bicycles in Crosswalk	
12/7/2023	12:00	0	0	2	0	0	0	0	2	4	0	0	0	0	0	2	1	0	0	0	0	1	2	0	0	
	12:15	0	0	0	0	0	0	0	0	4	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	
	12:30	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0
	12:45	0	0	0	1	0	0	0	4	3	0	1	0	0	0	1	0	3	0	0	0	2	3	2	0	0
	13:00	0	0	0	0	0	0	0	1	4	0	0	0	0	0	5	0	1	0	0	0	0	3	0	0	0
	13:15	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	0	0	0	0	5	0	0	0
	13:30	0	0	1	0	0	0	0	1	5	0	0	0	0	0	1	0	0	0	0	0	0	5	1	0	0
	13:45	0	0	0	0	0	0	0	3	4	0	0	0	0	0	2	2	1	0	0	0	0	2	1	0	0
	14:00	0	0	1	0	0	0	0	2	5	0	0	0	0	0	1	0	6	0	0	0	0	7	5	0	0
	14:15	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0	2	3	0	0
	14:30	0	0	2	0	0	0	0	2	10	1	0	0	0	0	2	1	0	0	0	0	0	2	3	0	0
	14:45	0	2	0	0	0	0	0	0	6	0	0	0	0	0	3	1	1	0	0	0	0	1	0	0	0
	15:00	0	0	1	0	0	0	0	0	7	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0
	15:15	0	0	0	0	0	0	0	1	3	1	0	0	0	0	1	2	0	0	0	0	0	2	1	0	1
	15:30	0	1	0	1	1	0	0	0	1	1	0	0	0	0	2	1	1	0	0	0	0	6	1	1	0
	15:45	0	0	0	1	0	0	0	0	3	1	0	0	0	0	0	1	0	0	0	0	1	1	2	0	0
	16:00	0	1	0	0	0	0	0	1	4	0	0	0	0	0	0	1	0	0	0	0	0	2	0	1	0
	16:15	0	2	0	1	0	0	0	1	3	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0
	16:30	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	4	3	0	0
	16:45	0	0	1	0	0	0	0	0	4	0	0	0	0	0	2	0	0	0	0	0	0	4	3	0	0
	17:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
	17:15	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0
	17:30	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	2	0	0
	17:45	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18:00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	18:30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	18:45	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	19:00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
	19:15	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
	19:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	19:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	20:00	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
	20:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	20:30	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
	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
	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
	21:15	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	21:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	21:45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	0	0	0
	22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23:00	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
	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
	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
	23:45	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 23105

Study Date : 12/22/2023

Signal Warrants - Summary

Major Street Approaches

Eastbound: CSAH 116

Number of Lanes : 2+

Total Approach Volume: 6,612

Westbound: CSAH 116

Number of Lanes : 2+

Total Approach Volume: 7,030

Minor Street Approaches

Northbound: Thurston Ave

Number of Lanes : 1

Total Approach Volume: 3,385

Southbound: Dysprosium St

Number of Lanes : 1

Total Approach Volume: 1,831

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 14 hours, 8 are needed

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

Required volumes reached for 11 hours, 8 are needed

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

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

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

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

Number of hours (13) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (46) volumes exceed minimum >= required (1). Delay data not evaluated.

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

Volumes exceed minimums for at least one hour period.

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

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

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

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

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

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

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 23105

Study Date : 12/22/2023

Warrant 1A - Minimum Volumes

Description

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

Summary

14 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **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 EB	+	Major WB	=		Minor NB	Minor SB	
15:30 - 16:30	686	+	571	=	1257	481	117	Yes
16:30 - 17:30	631	+	589	=	1220	444	125	Yes
07:30 - 08:30	544	+	645	=	1189	128	232	Yes
14:30 - 15:30	477	+	626	=	1103	366	109	Yes
06:30 - 07:30	629	+	432	=	1061	80	311	Yes
13:30 - 14:30	410	+	472	=	882	297	81	Yes
17:30 - 18:30	364	+	485	=	849	229	94	Yes
11:30 - 12:30	392	+	452	=	844	227	82	Yes
12:30 - 13:30	377	+	413	=	790	199	74	Yes
08:30 - 09:30	368	+	288	=	656	130	120	Yes
10:30 - 11:30	328	+	322	=	650	175	74	Yes
09:30 - 10:30	284	+	299	=	583	137	79	Yes
05:30 - 06:30	250	+	277	=	527	39	127	Yes
18:30 - 19:30	250	+	273	=	523	111	53	Yes
05:15 - 06:15	185	+	247	=	432	31	104	No
19:30 - 20:30	160	+	246	=	406	77	28	No
19:45 - 20:45	169	+	231	=	400	81	35	No
05:00 - 06:00	152	+	216	=	368	24	83	No
20:00 - 21:00	149	+	206	=	355	82	30	No
20:30 - 21:30	136	+	206	=	342	62	24	No
20:15 - 21:15	137	+	187	=	324	76	31	No
20:45 - 21:45	115	+	203	=	318	55	17	No
21:00 - 22:00	100	+	203	=	303	55	22	No
21:15 - 22:15	90	+	196	=	286	58	20	No
04:45 - 05:45	119		166		285	20	66	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 23105

Study Date : 12/22/2023

Warrant 1B - Interruption of Continuous Traffic

Description

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

Summary

11 one hour periods meet minimums.
Warrant IS met.

Site Data Required

Rural Settings Apply = **True**
 Number of Major Lanes = **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 EB	+	Major WB	=		Minor NB	Minor SB	
07:00 - 08:00	676	+	649	=	1325	114	366	Yes
15:30 - 16:30	686	+	571	=	1257	481	117	Yes
16:30 - 17:30	631	+	589	=	1220	444	125	Yes
14:30 - 15:30	477	+	626	=	1103	366	109	Yes
13:30 - 14:30	410	+	472	=	882	297	81	Yes
17:30 - 18:30	364	+	485	=	849	229	94	Yes
11:30 - 12:30	392	+	452	=	844	227	82	Yes
12:30 - 13:30	377	+	413	=	790	199	74	Yes
08:00 - 09:00	409	+	380	=	789	120	121	Yes
06:00 - 07:00	413	+	334	=	747	62	191	Yes
10:30 - 11:30	328	+	322	=	650	175	74	Yes
09:00 - 10:00	320	+	301	=	621	152	112	No
10:15 - 11:15	315	+	301	=	616	149	72	No
05:45 - 06:45	301	+	294	=	595	48	152	No
09:30 - 10:30	284	+	299	=	583	137	79	No
09:15 - 10:15	287	+	287	=	574	159	101	No
10:00 - 11:00	309	+	262	=	571	130	67	No
09:45 - 10:45	295	+	267	=	562	142	69	No
05:30 - 06:30	250	+	277	=	527	39	127	No
18:30 - 19:30	250	+	273	=	523	111	53	No
19:00 - 20:00	198	+	254	=	452	77	38	No
18:45 - 19:45	203	+	246	=	449	95	44	No
05:15 - 06:15	185	+	247	=	432	31	104	No
19:15 - 20:15	176	+	254	=	430	76	22	No
19:30 - 20:30	160		246		406	77	28	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 23105

Study Date : 12/22/2023

Warrant 1C Combination of Warrants

Description

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

Summary

14 hours meet 1A minimums.
14 hours meet 1B minimums.
Warrant IS 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 116

Minor Road Thurston Ave

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1A?
07:15 - 08:15	655	+	680	=	1335	120	319	Yes
16:15 - 17:15	663	+	582	=	1245	461	130	Yes
15:15 - 16:15	652	+	523	=	1175	456	99	Yes
14:15 - 15:15	455	+	672	=	1127	347	114	Yes
17:15 - 18:15	407	+	542	=	949	267	110	Yes
06:15 - 07:15	511	+	362	=	873	69	239	Yes
11:15 - 12:15	399	+	449	=	848	217	71	Yes
13:15 - 14:15	403	+	412	=	815	289	68	Yes
12:15 - 13:15	365	+	414	=	779	208	87	Yes
08:15 - 09:15	388	+	327	=	715	121	113	Yes
10:15 - 11:15	315	+	301	=	616	149	72	Yes
18:15 - 19:15	290		314		604	126	65	Yes

Time	Major EB	+	Major WB	=	Total	Minor NB	Minor SB	Met1B?
15:30 - 16:30	686	+	571	=	1257	481	117	Yes
16:30 - 17:30	631	+	589	=	1220	444	125	Yes
07:30 - 08:30	544	+	645	=	1189	128	232	Yes
14:30 - 15:30	477	+	626	=	1103	366	109	Yes
06:30 - 07:30	629	+	432	=	1061	80	311	Yes
13:30 - 14:30	410	+	472	=	882	297	81	Yes
17:30 - 18:30	364	+	485	=	849	229	94	Yes
11:30 - 12:30	392	+	452	=	844	227	82	Yes
12:30 - 13:30	377	+	413	=	790	199	74	Yes
08:30 - 09:30	368	+	288	=	656	130	120	Yes
10:30 - 11:30	328	+	322	=	650	175	74	Yes
09:30 - 10:30	284		299		583	137	79	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 23105

Study Date : 12/22/2023

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.

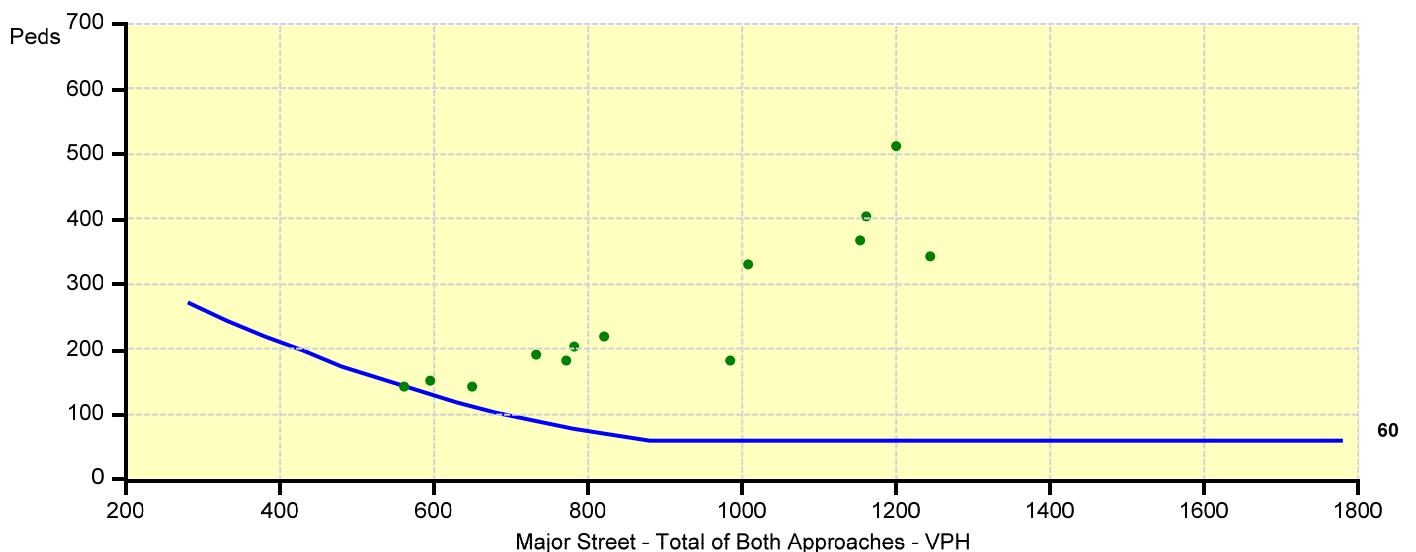
Summary

13 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 116				Total	Minor Road Thurston Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
06:45 - 07:45	687	+	557	=	1244	98	341	Yes
15:45 - 16:45	644	+	557	=	1201	512	123	Yes
14:45 - 15:45	586	+	574	=	1160	403	100	Yes
16:45 - 17:45	534	+	620	=	1154	368	128	Yes
13:45 - 14:45	443	+	566	=	1009	330	100	Yes
07:45 - 08:45	473	+	512	=	985	120	183	Yes
11:45 - 12:45	370	+	452	=	822	219	97	Yes
12:45 - 13:45	392	+	390	=	782	204	56	Yes
17:45 - 18:45	357	+	415	=	772	182	73	Yes
10:45 - 11:45	359	+	374	=	733	190	76	Yes
08:45 - 09:45	338	+	312	=	650	142	117	Yes
05:45 - 06:45	301		294		595	48	152	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 23105

Study Date : 12/22/2023

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

37 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 116				Total	Minor Road Thurston Ave		Met?
	Major EB	+	Major WB	=		Minor NB	Minor SB	
07:15 - 08:15	655	+	680	=	1335	120	319	Yes
07:00 - 08:00	676	+	649	=	1325	114	366	Yes
16:00 - 17:00	680	+	586	=	1266	490	134	Yes
15:30 - 16:30	686	+	571	=	1257	481	117	Yes
16:15 - 17:15	663	+	582	=	1245	461	130	Yes
06:45 - 07:45	687	+	557	=	1244	98	341	Yes
16:30 - 17:30	631	+	589	=	1220	444	125	Yes
15:45 - 16:45	644	+	557	=	1201	512	123	Yes
07:30 - 08:30	544	+	645	=	1189	128	232	Yes
15:15 - 16:15	652	+	523	=	1175	456	99	Yes
14:45 - 15:45	586	+	574	=	1160	403	100	Yes
16:45 - 17:45	534		620		1154	368	128	Yes

