

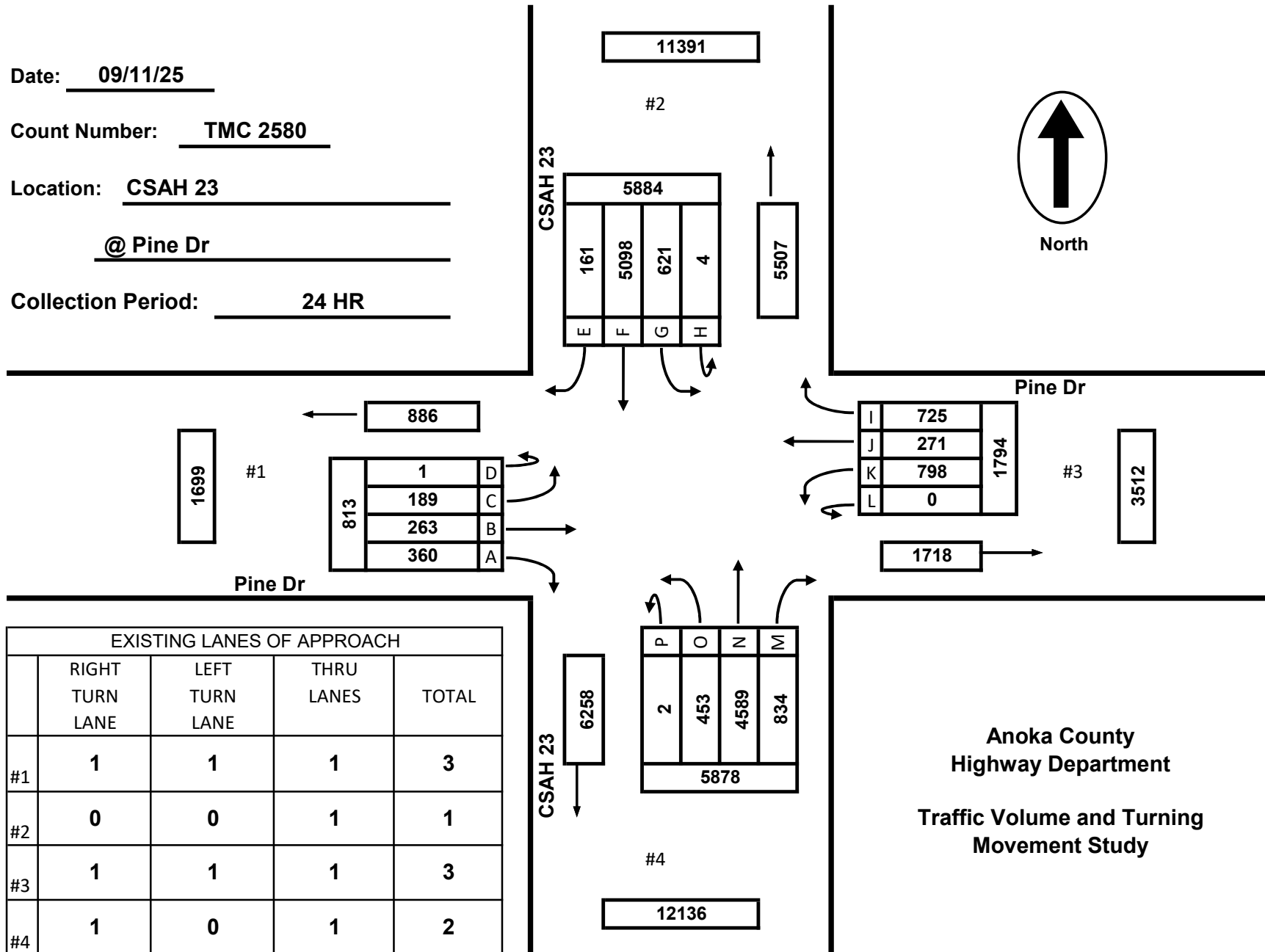
Date: 09/11/25

Count Number: TMC 2580

Location: CSAH 23

@ Pine Dr

Collection Period: 24 HR



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

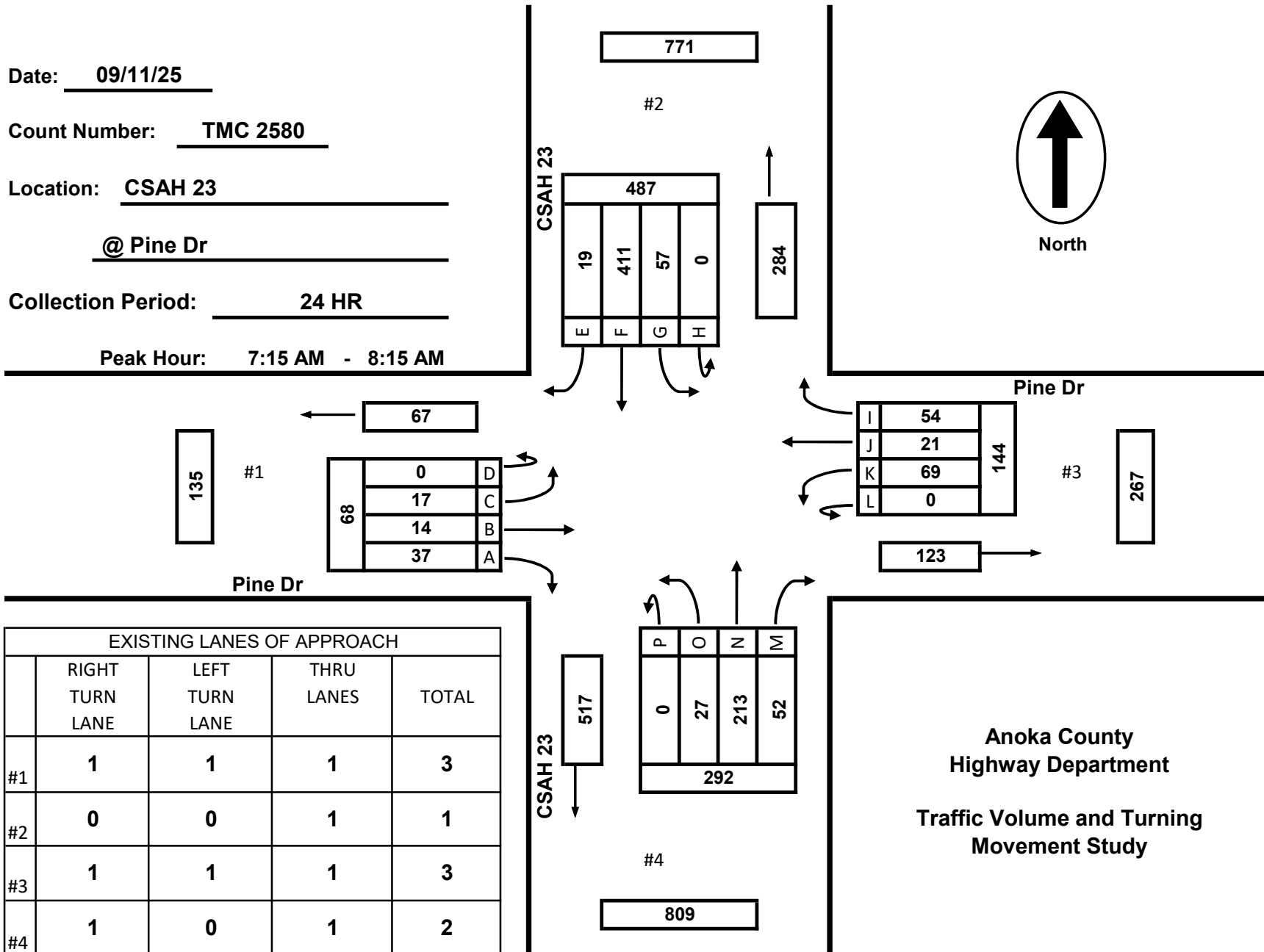
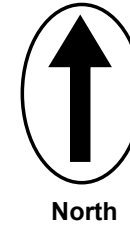
Date: 09/11/25

Count Number: TMC 2580

Location: CSAH 23
@ Pine Dr

Collection Period: 24 HR

Peak Hour: 7:15 AM - 8:15 AM



Date: 09/11/25

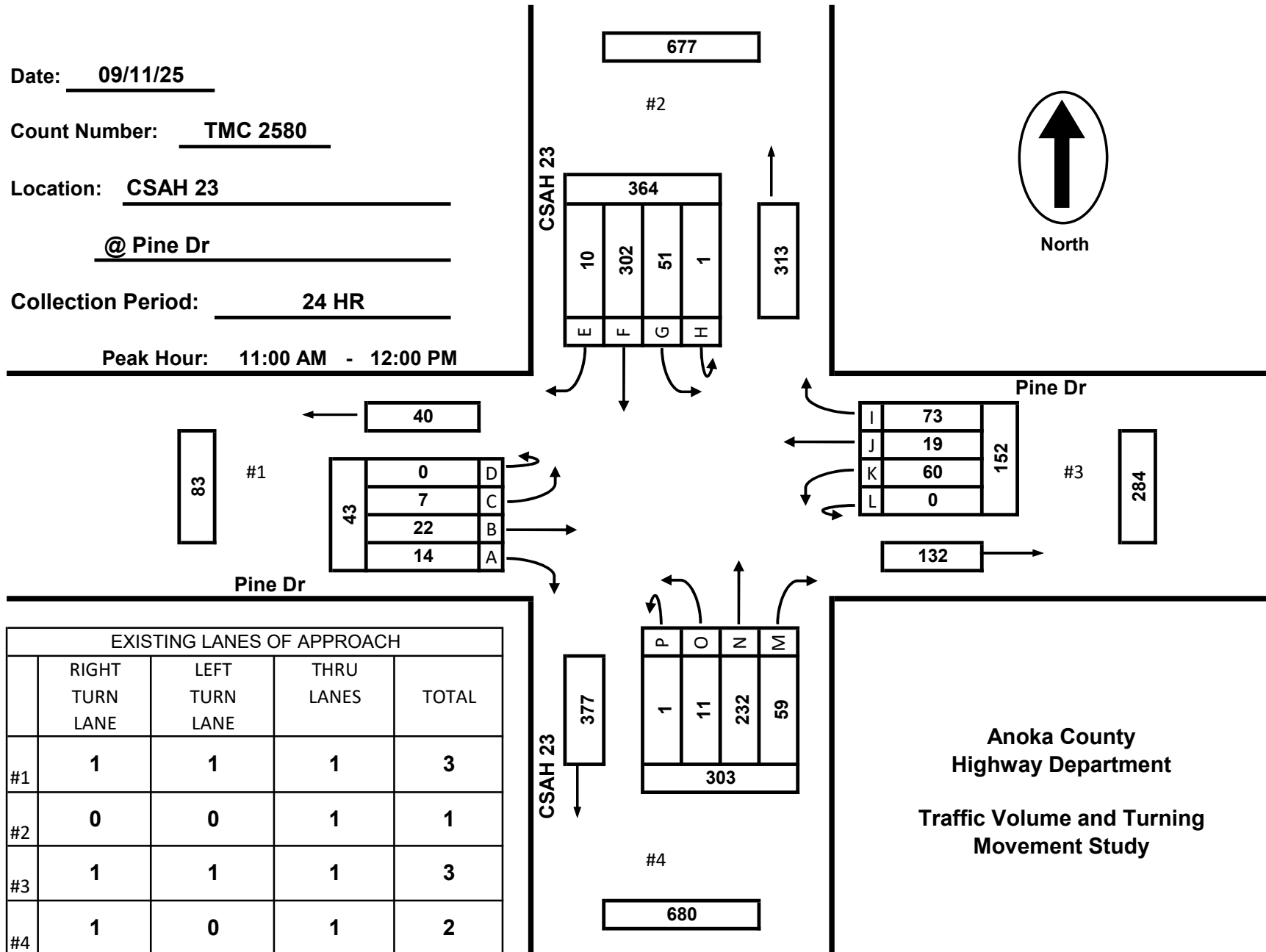
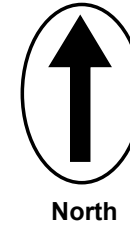
Count Number: TMC 2580

Location: CSAH 23

@ Pine Dr

Collection Period: 24 HR

Peak Hour: 11:00 AM - 12:00 PM



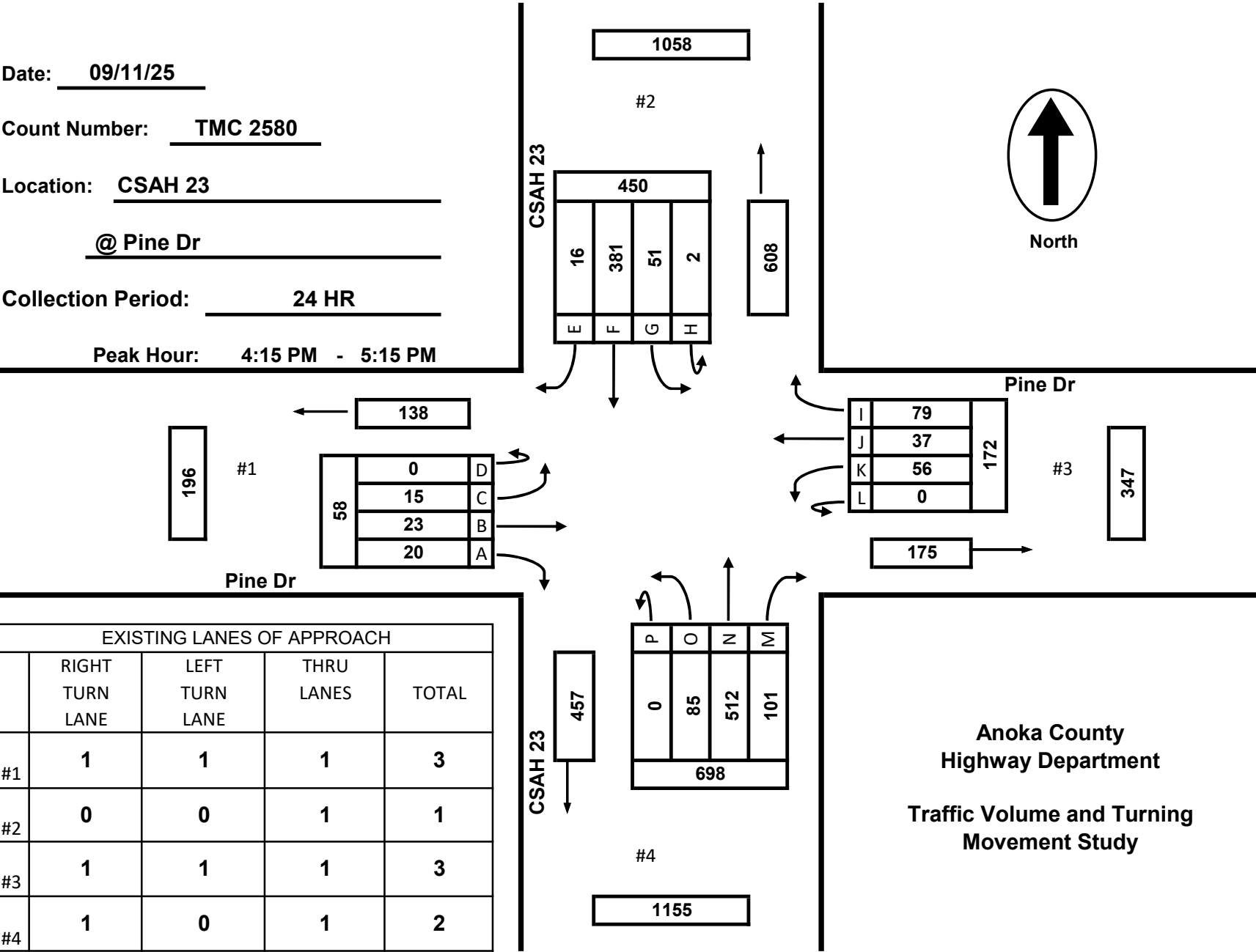
Date: 09/11/25

Count Number: TMC 2580

Location: CSAH 23
@ Pine Dr

Collection Period: 24 HR

Peak Hour: 4:15 PM - 5:15 PM



Anoka County
Highway Department
Traffic Volume and Turning
Movement Study

TMC 2580 - CSAH 23 @ Pine Dr
Circle Pines MN
Thursday, September 11, 2025

Time	Southbound CSAH 23						Westbound Pine Dr						Northbound CSAH 23						Eastbound Pine 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	6	0	0	6	0	0	0	0	0	0	0	2	3	2	0	7	0	0	0	0	0	0	13
12:15 AM	0	0	6	1	0	7	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	0	0	0	13
12:30 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	7
12:45 AM	0	0	3	0	0	3	0	1	0	0	0	1	0	0	4	0	0	4	0	1	0	0	0	1	9
Hourly Total	0	0	17	1	0	18	0	1	0	0	0	1	0	3	17	2	0	22	0	1	0	0	0	1	42
1:00 AM	0	0	4	0	0	4	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	7
1:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	5	0	0	6	0	0	0	1	0	1	8
1:30 AM	0	0	3	0	0	3	0	1	0	0	0	1	0	0	4	1	0	5	0	0	0	0	0	0	9
1:45 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	6
Hourly Total	0	0	10	0	0	10	0	2	0	0	0	2	0	2	14	1	0	17	0	0	0	1	0	1	30
2:00 AM	0	0	3	0	0	3	0	0	0	1	0	1	0	0	2	0	0	2	0	0	0	0	0	0	6
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	0	6	0	0	0	0	0	0	6
2:30 AM	0	0	4	0	0	4	0	0	0	1	0	1	0	0	1	0	0	1	0	0	1	0	0	1	7
2:45 AM	0	0	4	0	0	4	0	1	0	0	0	1	0	0	1	1	0	2	0	0	0	0	0	0	7
Hourly Total	0	0	11	0	0	11	0	1	0	2	0	3	0	1	7	3	0	11	0	0	1	0	0	1	26
3:00 AM	0	0	1	0	0	1	0	1	0	2	0	3	0	0	1	1	0	2	0	0	0	0	0	0	6
3:15 AM	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
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	1	0	2	5
3:45 AM	0	0	8	0	0	8	0	1	0	0	0	1	0	0	2	0	0	2	0	1	0	1	0	2	13
Hourly Total	0	0	11	0	0	11	0	2	0	2	0	4	0	0	8	1	0	9	0	2	0	2	0	4	28
4:00 AM	0	0	7	0	0	7	0	3	1	0	0	4	0	0	2	0	0	2	0	0	0	0	0	0	13
4:15 AM	0	0	12	0	0	12	0	2	0	0	0	2	0	0	1	0	0	1	0	0	0	1	0	1	16
4:30 AM	0	1	20	0	0	21	0	1	0	1	0	2	0	0	5	1	0	6	0	1	1	1	0	3	32
4:45 AM	0	0	23	0	0	23	0	1	2	1	0	4	0	1	4	0	0	5	0	0	0	1	0	1	33
Hourly Total	0	1	62	0	0	63	0	7	3	2	0	12	0	1	12	1	0	14	0	1	1	3	0	5	94
5:00 AM	0	1	28	0	0	29	0	1	0	1	0	2	0	0	3	0	0	3	0	3	0	4	0	7	41
5:15 AM	0	2	40	0	0	42	0	14	2	0	0	16	0	0	10	1	0	11	0	1	1	3	0	5	74
5:30 AM	0	1	54	0	0	55	0	5	1	2	0	8	0	0	10	1	0	11	0	2	1	6	0	9	83
5:45 AM	0	2	52	1	0	55	0	11	0	2	0	13	0	1	10	5	0	16	0	1	0	6	0	7	91
Hourly Total	0	6	174	1	0	181	0	31	3	5	0	39	0	1	33	7	0	41	0	7	2	19	0	28	289
6:00 AM	0	4	57	0	0	61	0	10	0	2	0	12	0	0	8	4	0	12	0	2	0	3	0	5	90
6:15 AM	0	3	61	2	0	66	0	4	1	6	0	11	0	0	26	4	0	30	0	1	2	5	0	8	115
6:30 AM	0	4	91	1	0	96	0	13	3	9	0	25	0	2	33	5	0	40	0	0	3	14	0	17	178
6:45 AM	0	10	98	0	0	108	0	18	4	8	0	30	0	5	38	5	0	48	0	4	3	16	0	23	209
Hourly Total	0	21	307	3	0	331	0	45	8	25	0	78	0	7	105	18	0	130	0	7	8	38	0	53	592
7:00 AM	0	5	97	2	0	104	0	14	5	4	0	23	0	7	37	12	0	56	0	5	3	11	0	19	202
7:15 AM	0	7	89	2	0	98	0	15	3	8	0	26	0	5	43	6	0	54	0	2	4	11	0	17	195
7:30 AM	0	7	93	10	0	110	0	14	8	16	0	38	0	15	62	10	1	87	0	4	3	13	0	20	255
7:45 AM	0	21	124	4	0	149	0	23	5	10	0	38	0	6	66	19	1	91	0	8	5	9	0	22	300
Hourly Total	0	40	403	18	0	461	0	66	21	38	0	125	0	33	208	47	2	288	0	19	15	44	0	78	952

TMC 2580 - CSAH 23 @ Pine Dr
Circle Pines MN
Thursday, September 11, 2025

Time	Southbound CSAH 23						Westbound Pine Dr						Northbound CSAH 23						Eastbound Pine 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	22	105	3	0	130	0	17	5	20	1	42	0	1	42	17	0	60	0	3	2	4	0	9	241
8:15 AM	0	13	90	1	0	104	0	12	6	6	0	24	0	2	48	6	0	56	0	1	3	2	0	6	190
8:30 AM	0	8	84	0	0	92	0	16	3	6	0	25	0	3	34	4	0	41	0	5	5	12	0	22	180
8:45 AM	0	10	71	2	0	83	0	13	5	14	0	32	0	5	63	14	0	82	0	4	0	9	0	14	211
Hourly Total	0	53	350	6	0	409	0	58	19	46	1	123	0	11	187	41	0	239	0	14	10	27	0	51	822
9:00 AM	0	9	108	2	0	119	0	13	3	14	0	30	0	2	48	8	0	58	0	6	4	8	0	18	225
9:15 AM	0	12	91	0	0	103	0	11	4	16	0	31	0	4	63	19	0	86	0	2	6	4	0	12	232
9:30 AM	0	12	78	1	0	91	0	17	0	13	0	30	0	7	47	5	0	59	0	4	5	7	0	16	196
9:45 AM	0	17	60	2	0	79	0	10	4	9	0	23	0	6	43	11	0	60	0	2	1	5	0	8	170
Hourly Total	0	50	337	5	0	392	0	51	11	52	0	114	0	19	201	43	0	263	0	14	16	24	0	54	823
10:00 AM	0	5	57	2	0	64	0	13	6	13	0	32	0	4	51	14	0	69	0	2	7	2	0	11	176
10:15 AM	0	13	68	0	0	81	0	13	4	9	0	26	0	4	54	14	0	72	0	2	6	5	0	13	192
10:30 AM	0	12	55	0	0	67	0	17	1	14	0	32	0	2	48	12	0	62	0	0	3	1	0	4	165
10:45 AM	0	16	52	2	0	70	0	8	8	9	0	25	0	2	63	13	0	78	0	1	3	2	0	6	179
Hourly Total	0	46	232	4	0	282	0	51	19	45	0	115	0	12	216	53	0	281	0	5	19	10	0	34	712
11:00 AM	0	15	68	3	0	86	0	27	4	20	0	51	0	2	52	15	0	69	0	2	4	6	0	12	218
11:15 AM	0	12	73	2	0	87	0	13	2	19	0	34	0	4	58	13	0	75	0	4	5	1	0	10	206
11:30 AM	0	13	80	4	0	97	0	7	7	22	0	36	0	2	60	14	0	76	0	0	7	2	0	9	218
11:45 AM	1	11	81	1	0	94	0	13	6	12	0	31	1	3	62	17	0	83	0	1	6	5	0	12	220
Hourly Total	1	51	302	10	0	364	0	60	19	73	0	152	1	11	232	59	0	303	0	7	22	14	0	43	862
12:00 PM	0	11	66	1	0	78	0	17	3	11	0	31	0	5	51	18	0	74	0	1	4	2	0	7	190
12:15 PM	0	8	80	5	0	93	0	29	2	12	0	43	0	1	56	8	4	65	0	3	5	5	0	13	214
12:30 PM	0	11	69	2	0	82	0	11	7	19	0	37	0	5	73	12	0	90	0	0	3	3	0	6	215
12:45 PM	0	15	62	1	1	78	0	16	5	12	0	33	0	4	79	14	0	97	0	2	4	4	0	10	218
Hourly Total	0	45	277	9	1	331	0	73	17	54	0	144	0	15	259	52	4	326	0	6	16	14	0	36	837
1:00 PM	0	7	70	4	0	81	0	15	3	16	0	34	0	5	66	12	0	83	0	5	1	5	0	11	209
1:15 PM	0	15	69	1	0	85	0	14	2	9	0	25	0	7	73	20	0	100	0	1	3	2	0	6	216
1:30 PM	0	8	65	0	0	73	0	6	2	13	0	21	0	2	77	13	0	92	0	1	4	3	0	8	194
1:45 PM	0	7	75	5	1	87	0	14	3	13	0	30	0	5	71	8	0	84	0	2	1	2	0	5	206
Hourly Total	0	37	279	10	1	326	0	49	10	51	0	110	0	19	287	53	0	359	0	9	9	12	0	30	825
2:00 PM	0	8	75	4	0	87	0	14	4	12	0	30	1	4	58	11	0	74	0	3	6	6	0	15	206
2:15 PM	0	10	75	2	1	87	0	17	2	12	0	31	0	10	90	16	0	116	0	5	4	7	0	16	250
2:30 PM	0	10	77	5	0	92	0	13	3	17	0	33	0	12	77	15	0	104	0	2	2	9	0	13	242
2:45 PM	0	16	80	2	1	98	0	9	8	17	0	34	0	8	97	22	1	127	0	19	9	19	0	47	306
Hourly Total	0	44	307	13	2	364	0	53	17	58	0	128	1	34	322	64	1	421	0	29	21	41	0	91	1004
3:00 PM	0	15	106	3	1	124	0	14	6	16	0	36	0	7	109	14	0	130	0	4	8	3	0	15	305
3:15 PM	0	14	90	2	0	106	0	11	4	18	0	33	0	15	107	12	0	134	0	2	10	5	0	17	290
3:30 PM	0	7	78	3	0	88	0	10	6	18	0	34	0	22	117	15	0	154	0	6	3	8	0	17	293
3:45 PM	0	12	120	8	0	140	0	11	6	12	0	29	0	13	119	15	0	147	0	3	7	6	0	16	332
Hourly Total	0	48	394	16	1	458	0	46	22	64	0	132	0	57	452	56	0	565	0	15	28	22	0	65	1220

TMC 2580 - CSAH 23 @ Pine Dr
Circle Pines MN
Thursday, September 11, 2025

Time	Southbound CSAH 23						Westbound Pine Dr						Northbound CSAH 23						Eastbound Pine 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	14	96	4	0	114	0	12	10	13	0	35	0	17	126	15	0	158	0	3	9	6	0	18	325
4:15 PM	0	16	80	4	0	100	0	7	7	26	0	40	0	15	123	21	0	159	0	3	4	6	0	13	312
4:30 PM	1	12	98	4	0	115	0	15	10	19	0	44	0	26	133	27	0	186	0	5	4	7	0	16	361
4:45 PM	0	12	96	5	0	113	0	15	13	20	0	48	0	20	122	25	0	167	0	4	9	3	0	16	344
Hourly Total	1	54	370	17	0	442	0	49	40	78	0	167	0	78	504	88	0	670	0	15	26	22	0	63	1342
5:00 PM	1	11	107	3	0	122	0	19	7	14	0	40	0	24	134	28	0	186	0	3	6	4	0	13	361
5:15 PM	0	11	97	5	0	113	0	10	8	15	0	33	0	10	116	21	1	147	0	3	8	4	0	15	308
5:30 PM	0	15	87	6	0	108	0	12	5	13	0	30	0	18	114	19	0	151	1	6	1	4	0	12	301
5:45 PM	0	11	93	2	0	106	0	16	4	11	0	31	0	11	103	19	3	133	0	2	8	3	0	13	283
Hourly Total	1	48	384	16	0	449	0	57	24	53	0	134	0	63	467	87	4	617	1	14	23	15	0	53	1253
6:00 PM	0	7	91	5	0	103	0	11	6	16	0	33	0	11	116	16	0	143	0	2	6	10	0	18	297
6:15 PM	0	5	76	4	0	85	0	9	3	6	0	18	0	2	88	16	0	106	0	2	4	1	0	7	216
6:30 PM	0	8	79	2	0	89	0	12	2	8	0	22	0	9	76	8	0	93	0	5	1	0	0	6	210
6:45 PM	0	6	74	0	0	80	0	3	2	6	0	11	0	10	93	10	0	113	0	0	4	8	0	12	216
Hourly Total	0	26	320	11	0	357	0	35	13	36	0	84	0	32	373	50	0	455	0	9	15	19	0	43	939
7:00 PM	0	6	61	0	0	67	0	6	5	4	0	15	0	8	74	10	0	92	0	1	4	5	0	10	184
7:15 PM	0	3	65	3	0	71	0	5	2	2	0	9	0	4	78	6	0	88	0	2	4	6	0	12	180
7:30 PM	1	5	47	4	0	57	0	10	0	5	0	15	0	5	54	9	0	68	0	2	2	1	0	5	145
7:45 PM	0	3	71	1	0	75	0	4	3	4	0	11	0	5	50	8	0	63	0	1	5	2	0	8	157
Hourly Total	1	17	244	8	0	270	0	25	10	15	0	50	0	22	256	33	0	311	0	6	15	14	0	35	666
8:00 PM	0	7	39	1	2	47	0	6	6	4	0	16	0	4	50	9	0	63	0	0	1	0	0	1	127
8:15 PM	0	3	39	1	0	43	0	5	1	1	0	7	0	6	42	13	0	61	0	0	3	4	0	7	118
8:30 PM	0	4	34	0	0	38	0	3	2	6	0	11	0	3	48	6	0	57	0	2	5	5	0	12	118
8:45 PM	0	4	32	1	0	37	0	3	1	6	0	10	0	4	42	9	0	55	0	0	3	3	0	6	108
Hourly Total	0	18	144	3	2	165	0	17	10	17	0	44	0	17	182	37	0	236	0	2	12	12	0	26	471
9:00 PM	0	5	28	3	0	36	0	2	0	2	0	4	0	3	33	11	0	47	0	1	0	2	0	3	90
9:15 PM	0	2	20	2	0	24	0	2	1	2	0	5	0	1	33	4	0	38	0	2	3	3	0	8	75
9:30 PM	0	4	25	1	0	30	0	3	1	0	0	4	0	1	29	7	0	37	0	1	0	0	0	1	72
9:45 PM	0	1	11	0	0	12	0	2	1	3	0	6	0	2	30	5	0	37	0	2	1	1	0	4	59
Hourly Total	0	12	84	6	0	102	0	9	3	7	0	19	0	7	125	27	0	159	0	6	4	6	0	16	296
10:00 PM	0	0	13	1	0	14	0	3	1	2	0	6	0	4	28	1	0	33	0	0	0	0	0	0	53
10:15 PM	0	0	18	0	0	18	0	3	1	0	0	4	0	1	34	2	0	37	0	0	0	0	0	0	59
10:30 PM	0	1	12	1	0	14	0	1	0	0	0	1	0	1	16	5	0	22	0	1	0	1	0	2	39
10:45 PM	0	1	4	1	0	6	0	0	0	0	0	0	0	0	9	0	0	9	0	0	0	0	0	0	15
Hourly Total	0	2	47	3	0	52	0	7	2	2	0	11	0	6	87	8	0	101	0	1	0	1	0	2	166
11:00 PM	0	0	4	1	0	5	0	1	0	0	0	1	0	1	10	2	0	13	0	0	0	0	0	0	19
11:15 PM	0	1	8	0	0	9	0	1	0	0	0	1	0	0	10	0	0	10	0	0	0	0	0	0	20
11:30 PM	0	1	13	0	0	14	0	1	0	0	0	1	0	1	7	0	0	8	0	0	0	0	0	0	23
11:45 PM	0	0	7	0	0	7	0	0	0	0	0	0	0	0	8	1	0	9	0	0	0	0	0	0	16
Hourly Total	0	2	32	1	0	35	0	3	0	0	0	3	0	2	35	3	0	40	0	0	0	0	0	0	78
DAILY TOTAL	4	621	5098	161	7	5884	0	798	271	725	1	1794	2	453	4589	834	11	5878	1	189	263	360	0	813	14369
Cars	4	609	4957	155	6	5725	0	784	270	703	0	1757	2	444	4457	810	8	5713	1	187	262	358	0	808	14003
Heavy Vehicles	0	12	141	6	1	159	0	14	1	22	1	37	0	9	132	24	3	165	0	2	1	2	0	5	366
Heavy Vehicle %	0.00%	1.93%	2.77%	3.73%	14.29%	2.70%	0.00%	1.75%	0.37%	3.03%	100.00%	2.06%	0.00%	1.99%	2.88%	2.88%	27.27%	2.81%	0.00%	1.06%	0.38%	0.56%	0.00%	0.62%	2.55%

TMC 2580 - CSAH 23 @ Pine Dr
Circle Pines MN
Thursday, September 11, 2025
AM Peak Hour (00:00 to 10:00)

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	
7:15 AM	0	7	89	2	0	98	0	15	3	8	0	26	0	5	43	6	0	54	0	2	4	11	0	17	195
7:30 AM	0	7	93	10	0	110	0	14	8	16	0	38	0	15	62	10	1	87	0	4	3	13	0	20	255
7:45 AM	0	21	124	4	0	149	0	23	5	10	0	38	0	6	66	19	1	91	0	8	5	9	0	22	300
8:00 AM	0	22	105	3	0	130	0	17	5	20	1	42	0	1	42	17	0	60	0	3	2	4	0	9	241
Peak Hour Total	0	57	411	19	0	487	0	69	21	54	1	144	0	27	213	52	2	292	0	17	14	37	0	68	991
Peak Hour Heavy Vehicles	0	6	16	3	0	25	0	1	0	2	1	3	0	2	13	2	0	17	0	1	0	0	0	1	46
Peak Hour Heavy Vehicles % PHF	0.00%	10.53%	3.89%	15.79%	0.00%	5.13%	0.00%	1.45%	0.00%	3.70%	100.00%	2.08%	0.00%	7.41%	6.10%	3.85%	0.00%	5.82%	0.00%	5.88%	0.00%	0.00%	0.00%	1.47%	4.64%
	0.000	0.648	0.829	0.475	0.000	0.817	0.000	0.750	0.656	0.675	0.250	0.857	0.000	0.450	0.807	0.684	0.500	0.802	0.000	0.531	0.700	0.712	0.000	0.773	0.826

Mid Peak Hour (10:00 - 14:00)

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	
11:00 AM	0	15	68	3	0	86	0	27	4	20	0	51	0	2	52	15	0	69	0	2	4	6	0	12	218
11:15 AM	0	12	73	2	0	87	0	13	2	19	0	34	0	4	58	13	0	75	0	4	5	1	0	10	206
11:30 AM	0	13	80	4	0	97	0	7	7	22	0	36	0	2	60	14	0	76	0	0	7	2	0	9	218
11:45 AM	1	11	81	1	0	94	0	13	6	12	0	31	1	3	62	17	0	83	0	1	6	5	0	12	220
Peak Hour Total	1	51	302	10	0	364	0	60	19	73	0	152	1	11	232	59	0	303	0	7	22	14	0	43	862
Peak Hour Heavy Vehicles	0	0	9	1	0	10	0	1	0	5	0	6	0	0	10	4	0	14	0	0	1	1	0	2	32
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	2.98%	10.00%	0.00%	2.75%	0.00%	1.67%	0.00%	6.85%	0.00%	3.95%	0.00%	0.00%	4.31%	6.78%	0.00%	4.62%	0.00%	0.00%	4.55%	7.14%	0.00%	4.65%	3.71%
	0.250	0.850	0.932	0.625	0.000	0.938	0.000	0.556	0.679	0.830	0.000	0.745	0.250	0.688	0.935	0.868	0.000	0.913	0.000	0.438	0.786	0.583	0.000	0.896	0.980

PM Peak Hour (14:00 - 24:00)

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	16	80	4	0	100	0	7	7	26	0	40	0	15	123	21	0	159	0	3	4	6	0	13	312
4:30 PM	1	12	98	4	0	115	0	15	10	19	0	44	0	26	133	27	0	186	0	5	4	7	0	16	361
4:45 PM	0	12	96	5	0	113	0	15	13	20	0	48	0	20	122	25	0	167	0	4	9	3	0	16	344
5:00 PM	1	11	107	3	0	122	0	19	7	14	0	40	0	24	134	28	0	186	0	3	6	4	0	13	361
Peak Hour Total	2	51	381	16	0	450	0	56	37	79	0	172	0	85	512	101	0	698	0	15	23	20	0	58	1378
Peak Hour Heavy Vehicles	0	0	9	0	0	9	0	0	0	1	0	1	0	0	14	1	0	15	0	0	0	0	0	0	25
Peak Hour Heavy Vehicles % PHF	0.00%	0.00%	2.36%	0.00%	0.00%	2.00%	0.00%	0.00%	0.00%	1.27%	0.00%	0.58%	0.00%	0.00%	2.73%	0.99%	0.00%	2.15%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.81%
	0.500	0.797	0.890	0.800	0.000	0.922	0.000	0.737	0.712	0.760	0.000	0.896	0.000	0.817	0.955	0.902	0.000	0.938	0.000	0.750	0.639	0.714	0.000	0.906	0.954

Total Vehicles On Leg			11391		
Vehicles Entering Intersection 5884			Vehicles Exiting Intersection 5507		
Southbound					
Cars	155	4957	609	4	6
Heavy	6	141	12	0	1
Total	161	5098	621	4	7



Total Vehicles on Leg 1699	Vehicles Entering Intersection 813	Eastbound	Cars	Heavy	Total
	Vehicles Exiting Intersection 886		0	0	0
			1	0	1
			187	2	189
			262	1	263
			358	2	360



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection 1794	Total Vehicles on Leg 3512
703	22	725			
270	1	271			
784	14	798			
0	0	0			
0	1	1		Vehicles Exiting Intersection 1718	



Cars	8	2	444	4457	810
Heavy	3	0	9	132	24
Total	11	2	453	4589	834
Northbound					
Vehicles Entering Intersection 5878			Vehicles Exiting Intersection 6258		
Total Vehicles On Leg			12136		



TMC 2580 - CSAH 23 @ Pine Dr
Circle Pines MN
Thursday, September 11, 2025

Time	Southbound Heavy CSAH 23						Westbound Heavy Pine Dr						Northbound Heavy CSAH 23						Eastbound Heavy Pine 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12:15 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	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	
12:45 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	
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
1:00 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	
1:15 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	
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	
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	
Hourly 'Heavy Vehicles'	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	
2:00 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	
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	
2:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
2:45 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	1	
Hourly 'Heavy Vehicles'	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	1	0	1	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	
3:15 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	
3:30 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	
3:45 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	
Hourly 'Heavy Vehicles'	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	
4:00 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	
4:15 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	
4:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	2	
4:45 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	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	2
5:00 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	
5:15 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	1	
5:30 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	1	
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	2	
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	0	0	4
6:00 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	1	
6:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	5	
6:30 AM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3	0	0	3	0	0	0	0	0	0	4	
6:45 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	0	5	
Hourly 'Heavy Vehicles'	0	0	2	0	0	2	0	0	1	0	0	1	0	1	11	0	0	12	0	0	0	0	0	0	0	15
7:00 AM	0	0	4	0	0	4	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	5	
7:15 AM	0	0	8	0	0	8	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	11	
7:30 AM	0	0	4	1	0	5	0	0	0	1	0	1	0	2	1	0	0	3	0	0	0	0	0	0	9	
7:45 AM	0	1	1	1	0	3	0	1	0	1	0	2	0	0	5	2	0	7	0	1	0	0	0	1	13	
Hourly 'Heavy Vehicles'	0	1	17	2	0	20	0	1	0	2	0	3	0	3	9	2	0	14	0	1	0	0	0	1	38	

TMC 2580 - CSAH 23 @ Pine Dr
Circle Pines MN
Thursday, September 11, 2025

Time	Southbound Heavy CSAH 23						Westbound Heavy Pine Dr						Northbound Heavy CSAH 23						Eastbound Heavy Pine Dr						VEHICLE 'Heavy Vehicles'
	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	<i>Vehicle Approach 'Heavy Vehicles'</i>	
8:00 AM	0	5	3	1	0	9	0	0	0	0	1	0	0	0	4	0	0	4	0	0	0	0	0	0	13
8:15 AM	0	0	4	0	0	4	0	1	0	1	0	2	0	0	0	2	0	2	0	0	0	0	0	0	8
8:30 AM	0	2	3	0	0	5	0	0	0	1	0	1	0	0	1	2	0	3	0	0	0	0	0	0	9
8:45 AM	0	0	6	0	0	6	0	4	0	1	0	5	0	0	3	1	0	4	0	0	0	0	0	0	15
Hourly 'Heavy Vehicles'	0	7	16	1	0	24	0	5	0	3	1	8	0	0	8	5	0	13	0	0	0	0	0	0	45
9:00 AM	0	0	4	0	0	4	0	0	0	1	0	1	0	0	4	0	0	4	0	0	0	0	0	0	9
9:15 AM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	8	1	0	9	0	0	0	0	0	0	12
9:30 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	6
9:45 AM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	9	0	0	9	0	0	0	3	0	3	0	0	17	2	0	19	0	0	0	0	0	0	31
10:00 AM	0	0	6	0	0	6	0	1	0	0	0	1	0	0	2	2	0	4	0	0	0	0	0	0	11
10:15 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0	4
10:30 AM	0	1	1	0	0	2	0	1	0	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	5
10:45 AM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	5
Hourly 'Heavy Vehicles'	0	1	11	0	0	12	0	2	0	0	0	2	0	0	7	4	0	11	0	0	0	0	0	0	25
11:00 AM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	2	2	0	4	0	0	0	0	0	0	7
11:15 AM	0	0	4	1	0	5	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	7
11:30 AM	0	0	2	0	0	2	0	0	0	1	0	1	0	0	3	1	0	4	0	0	1	0	0	1	8
11:45 AM	0	0	1	0	0	1	0	1	0	2	0	3	0	0	4	1	0	5	0	0	0	1	0	1	10
Hourly 'Heavy Vehicles'	0	0	9	1	0	10	0	1	0	5	0	6	0	0	10	4	0	14	0	0	1	1	0	2	32
12:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	2
12:15 PM	0	0	2	1	0	3	0	1	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	1	6
12:30 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	9	1	0	10	0	0	0	0	0	0	13
12:45 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	7
Hourly 'Heavy Vehicles'	0	0	9	1	0	10	0	1	0	1	0	2	0	0	14	1	0	15	0	1	0	0	0	1	28
1:00 PM	0	1	4	0	0	5	0	1	0	1	0	2	0	1	1	0	0	2	0	0	0	0	0	0	9
1:15 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	2	4	0	0	6	0	0	0	0	0	0	8
1:30 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	5
1:45 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	1	13	0	0	14	0	1	0	1	0	2	0	4	6	0	0	10	0	0	0	0	0	0	26
2:00 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	4
2:15 PM	0	0	4	1	0	5	0	1	0	1	0	2	0	0	1	1	0	2	0	0	0	0	0	0	9
2:30 PM	0	0	4	0	0	4	0	0	0	1	0	1	0	0	3	0	0	3	0	0	0	0	0	0	8
2:45 PM	0	1	4	0	0	5	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	6
Hourly 'Heavy Vehicles'	0	1	14	1	0	16	0	1	0	2	0	3	0	0	6	2	0	8	0	0	0	0	0	0	27
3:00 PM	0	0	7	0	1	7	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	9
3:15 PM	0	0	3	0	0	3	0	1	0	1	0	2	0	0	2	0	0	2	0	0	0	0	0	0	7
3:30 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	10
3:45 PM	0	0	4	0	0	4	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	6
Hourly 'Heavy Vehicles'	0	0	18	0	1	18	0	2	0	1	0	3	0	0	11	0	0	11	0	0	0	0	0	0	32

TMC 2580 - CSAH 23 @ Pine Dr
Circle Pines MN
Thursday, September 11, 2025

	Southbound Heavy CSAH 23						Westbound Heavy Pine Dr						Northbound Heavy CSAH 23						Eastbound Heavy Pine Dr						VEHICLE 'Heavy Vehicles'	
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'		
4:00 PM	0	0	5	0	0	5	0	0	0	1	0	1	0	0	10	0	0	0	10	0	0	0	1	0	1	17
4:15 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	11
4:30 PM	0	0	3	0	0	3	0	0	0	1	0	1	0	0	2	1	0	3	3	0	0	0	0	0	0	7
4:45 PM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	2	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	0	13	0	0	13	0	0	0	2	0	2	0	0	22	1	0	23	0	0	0	1	0	1	39	
5:00 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	0	3
5:15 PM	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
5:30 PM	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
5:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	3	1	0	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	0	4	0	0	4	0	0	0	0	0	0	0	0	3	0	3	3	0	0	0	0	0	0	0	7
6:00 PM	0	1	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3
6:15 PM	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
6:30 PM	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
6:45 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	1	2	0	0	3	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	5
7:00 PM	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
7:15 PM	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
7:30 PM	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
7:45 PM	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	2
Hourly 'Heavy Vehicles'	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	3
8:00 PM	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
8:15 PM	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	1
8:30 PM	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	1
8:45 PM	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
Hourly 'Heavy Vehicles'	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	3
9:00 PM	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
9:15 PM	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
9:30 PM	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
9:45 PM	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 'Heavy Vehicles'	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
10:00 PM	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
10:15 PM	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
10:30 PM	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
10:45 PM	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 'Heavy Vehicles'	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
11:00 PM	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
11:15 PM	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
11:30 PM	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
11:45 PM	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 'Heavy Vehicles'	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
DAILY 'Heavy Vehicles'	0	12	141	6	1	159	0	14	1	22	1	37	0	9	132	24	3	165	0	2	1	2	0	5	366	

Traffic Signal Warrant Analysis

Warrants 1 - 3 (Volume Warrants)

TMC	2580
Date	09/11/2025
Intersection Geometrics	Signal

Intersection Information			
Major Street (N/S Road)	CSAH 23	Minor Street (E/W Road)	Pine Dr.
Analyzed with	2 or more approach lanes	Analyzed with	1 Approach Lane
Total Approach Volume	11762 vehicles	Total Approach Volume	1882 vehicles
Total Ped/Bike Volume	18 crossings	Total Ped/Bike Volume	1 crossings
Right turn reduction of	0 percent applied	Right turn reduction of	100% applied for WB

No high speed or isolated community reduction applied to the Volume Warrant thresholds.

Warrant 1, Eight Hour Vehicular Volume			
	Condition A	Condition B	Condition A+B*
Condition Satisfied?	Not Satisfied	Satisfied	Not Satisfied
Required values reached for	0 hours	10 hours	4 (Cond. A) & 12 (Cond. B)
Criteria - Major Street (veh/hr)	420	630	336 (Cond. A) & 504 (Cond. B)
Criteria - Minor Street (veh/hr)	105	53	84 (Cond. A) & 42 (Cond. B)

* Should be applied only after an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems.

Warrant 2, Four Hour Vehicular Volume	
Condition Satisfied?	Satisfied
Required values reached for	4 hours
Criteria	See Figure Below

Warrant 3, Peak Hour Vehicular Volume		
	Condition A	Condition B
Condition Satisfied?	Not Examined	Satisfied
Required values reached for		1 hour
Criteria - Total Approach Volume (veh in one hour)		See Figure Below
Criteria - Minor Street High Side Volume (veh in one hour)		
Criteria - Minor Street High Side Delay (veh-hrs)		

Figure 4C-2 (Warrant 2 - 70% Factor) & Figure 4C-4 (Warrant 3 - 70% Factor)

