

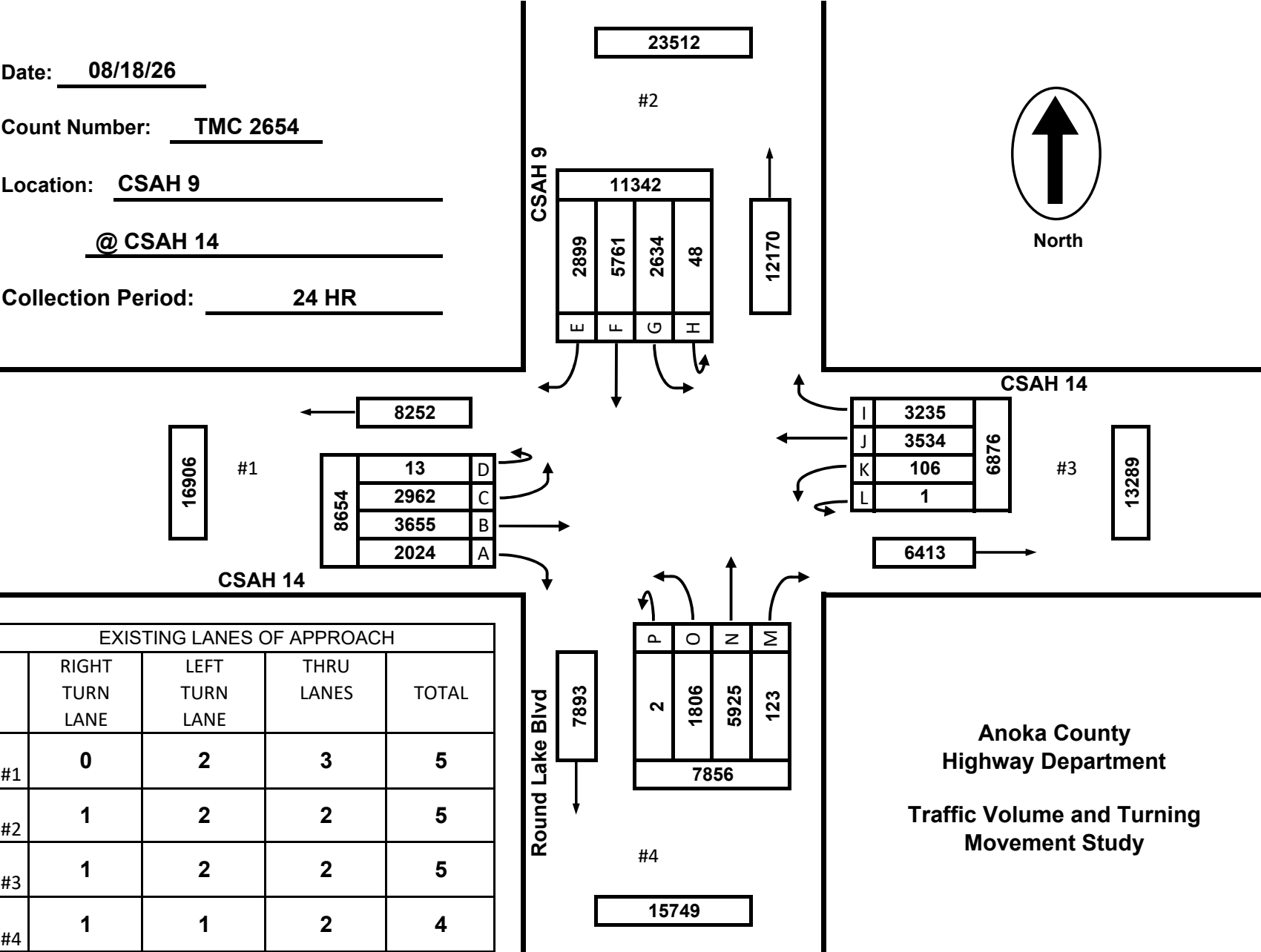
Date: 08/18/26

Count Number: TMC 2654

Location: CSAH 9

@ CSAH 14

Collection Period: 24 HR



Date: 08/18/26

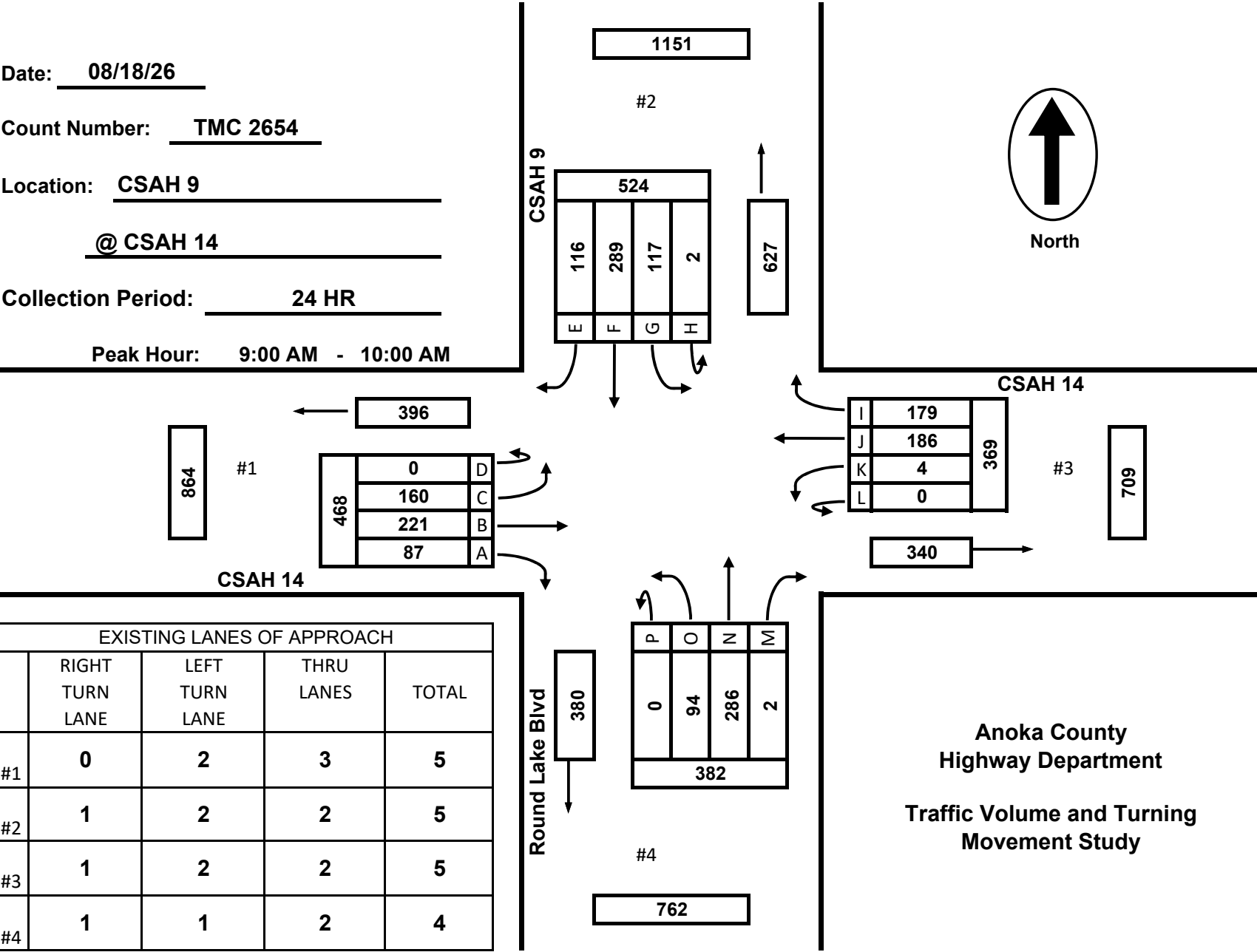
Count Number: TMC 2654

Location: CSAH 9

@ CSAH 14

Collection Period: 24 HR

Peak Hour: 9:00 AM - 10:00 AM



Date: 08/18/26

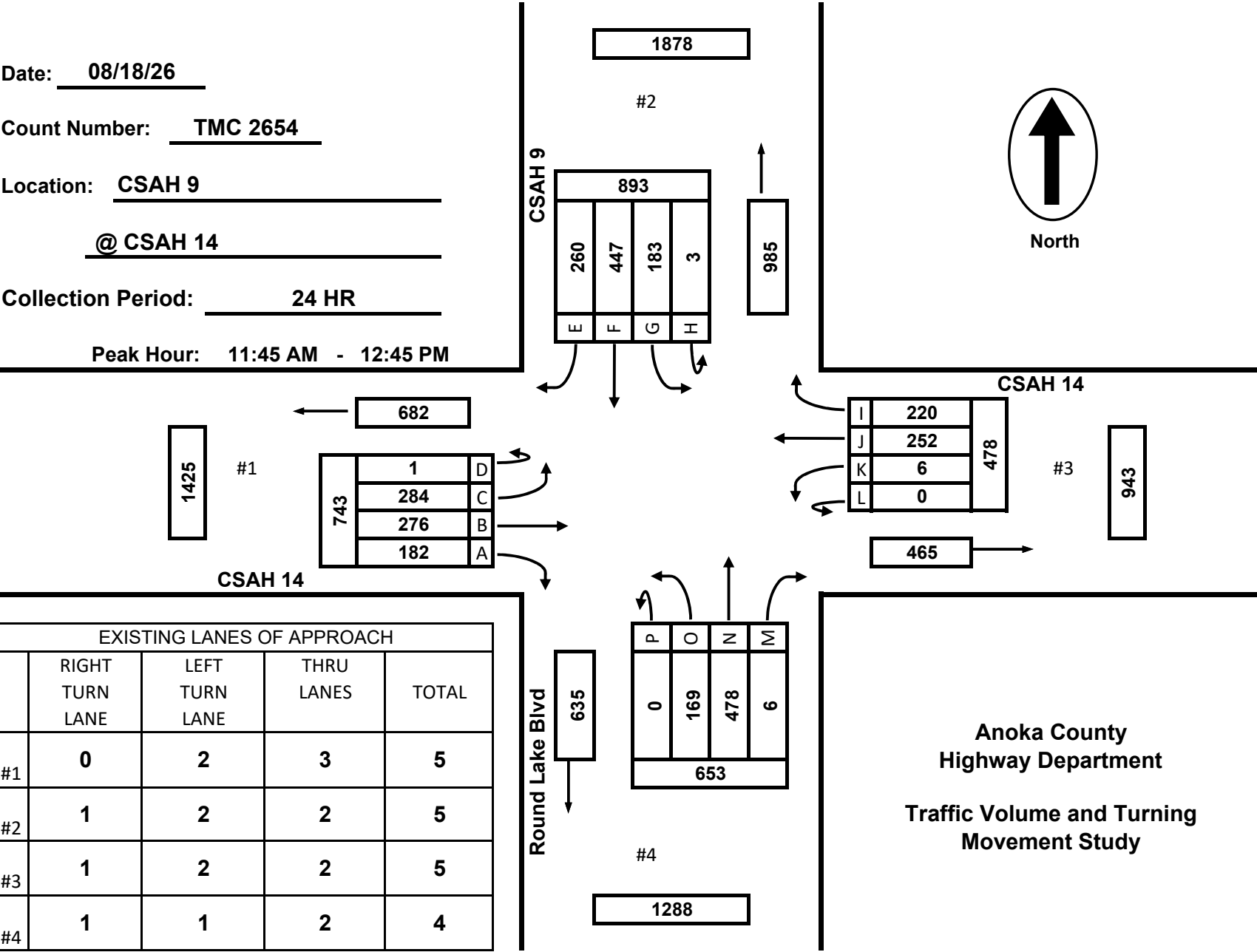
Count Number: TMC 2654

Location: CSAH 9

@ CSAH 14

Collection Period: 24 HR

Peak Hour: 11:45 AM - 12:45 PM



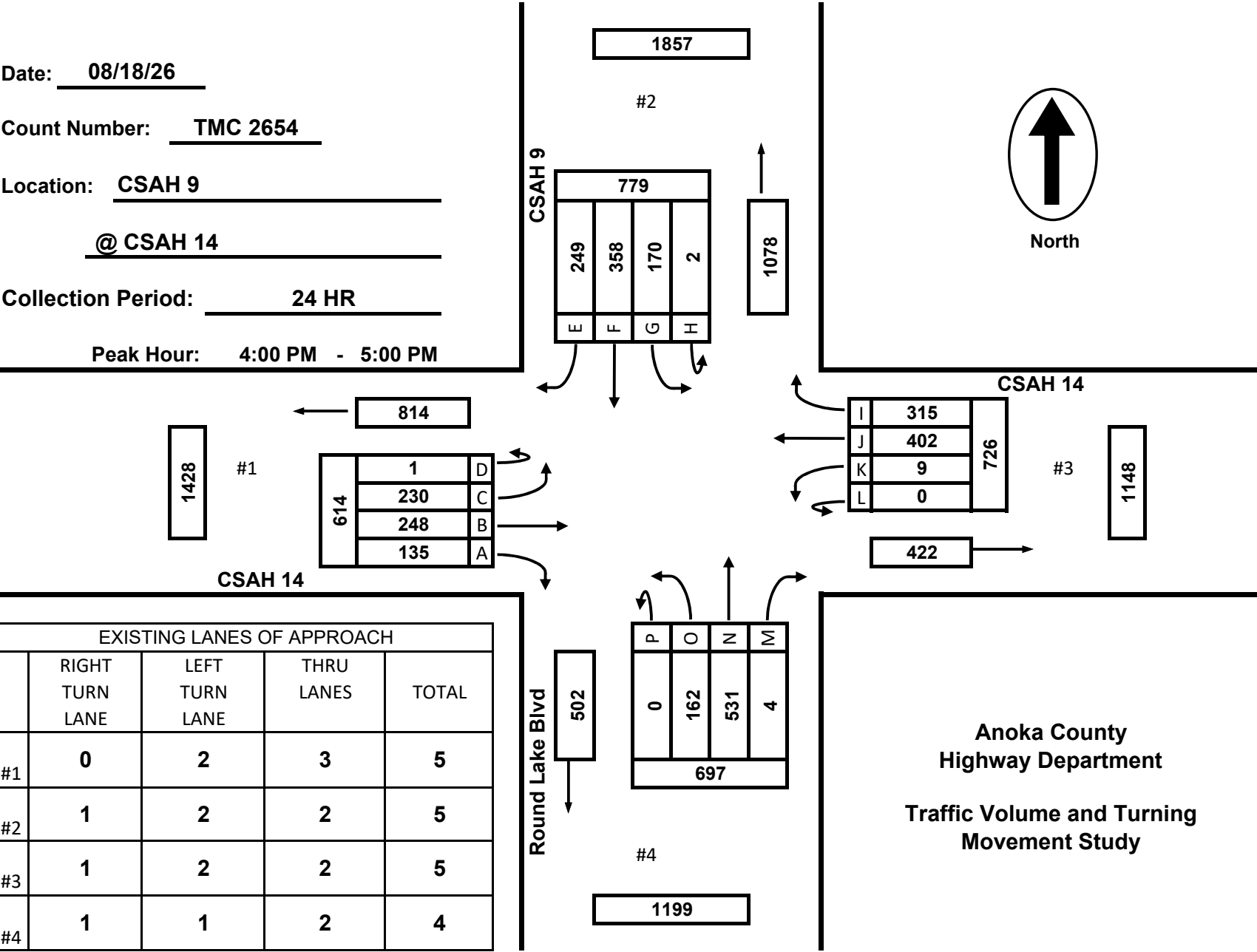
Date: 08/18/26

Count Number: TMC 2654

Location: CSAH 9
@ CSAH 14

Collection Period: 24 HR

Peak Hour: 4:00 PM - 5:00 PM



TMC 2654 - CSAH 9 @ CSAH 14
Coon Rapids MN
Tuesday, August 18, 2026

Time	Southbound CSAH 9						Westbound CSAH 14						Northbound Round Lake Blvd						Eastbound CSAH 14						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	3	9	4	0	16	0	1	3	5	0	9	0	4	8	0	0	12	0	2	5	3	0	10	47
12:15 AM	0	1	14	3	0	18	0	0	1	5	0	6	0	2	5	0	0	7	0	0	0	3	0	3	34
12:30 AM	0	2	5	0	0	7	0	0	1	0	0	1	0	11	19	0	0	30	0	1	5	2	0	8	46
12:45 AM	0	1	4	1	0	6	0	1	4	2	0	7	0	6	12	1	0	19	0	1	2	2	0	5	37
Hourly Total	0	7	32	8	0	47	0	2	9	12	0	23	0	23	44	1	0	68	0	4	12	10	0	26	164
1:00 AM	0	2	1	2	0	5	0	0	3	0	0	3	0	2	6	0	0	8	0	0	0	2	0	2	18
1:15 AM	0	1	0	1	0	2	0	0	1	4	0	5	0	1	10	0	0	11	0	3	2	0	0	5	23
1:30 AM	1	1	4	3	0	9	0	0	1	3	0	4	0	2	9	0	0	11	0	3	3	0	0	6	30
1:45 AM	0	1	2	0	0	3	0	0	0	0	0	0	0	0	3	0	0	3	0	1	0	4	0	5	11
Hourly Total	1	5	7	6	0	19	0	0	5	7	0	12	0	5	28	0	0	33	0	7	5	6	0	18	82
2:00 AM	0	2	1	1	0	4	0	0	0	1	0	1	0	1	6	1	0	8	0	1	5	1	0	7	20
2:15 AM	0	2	2	1	1	5	0	0	2	1	0	3	0	4	2	0	0	6	0	0	1	3	0	4	18
2:30 AM	0	1	1	0	0	2	0	0	0	0	1	0	0	1	5	0	0	6	0	0	1	2	0	3	11
2:45 AM	0	2	6	0	0	8	0	0	0	1	0	1	0	0	5	0	0	5	0	1	2	1	0	4	18
Hourly Total	0	7	10	2	1	19	0	0	2	3	1	5	0	6	18	1	0	25	0	2	9	7	0	18	67
3:00 AM	0	1	6	0	0	7	0	0	1	1	0	2	0	0	5	0	0	5	0	0	1	2	0	3	17
3:15 AM	0	3	4	0	0	7	0	0	1	3	0	4	0	1	3	0	0	4	0	2	2	0	0	4	19
3:30 AM	0	1	2	0	0	3	0	0	1	3	0	4	0	0	4	0	0	4	0	1	3	0	0	4	15
3:45 AM	0	1	8	0	0	9	0	1	2	6	0	9	0	2	6	0	0	8	0	2	3	3	0	8	34
Hourly Total	0	6	20	0	0	26	0	1	5	13	0	19	0	3	18	0	0	21	0	5	9	5	0	19	85
4:00 AM	0	2	8	2	0	12	0	1	0	2	0	3	0	1	5	0	0	6	0	3	3	5	0	11	32
4:15 AM	0	3	10	3	0	16	0	0	1	11	0	12	0	4	4	0	0	8	0	1	3	5	0	9	45
4:30 AM	0	5	18	1	0	24	0	1	8	5	0	14	0	4	6	0	0	10	0	5	4	5	0	14	62
4:45 AM	0	5	18	3	0	26	0	0	6	8	0	14	0	3	14	0	0	17	0	4	3	11	0	18	75
Hourly Total	0	15	54	9	0	78	0	2	15	26	0	43	0	12	29	0	0	41	0	13	13	26	0	52	214
5:00 AM	0	5	18	0	0	23	0	0	4	15	0	19	0	1	12	0	0	13	0	0	3	5	0	8	63
5:15 AM	0	10	20	1	0	31	0	2	10	12	0	24	0	6	17	0	1	23	0	3	17	9	0	29	107
5:30 AM	0	13	22	3	0	38	0	1	20	15	0	36	0	4	13	0	0	17	0	1	13	18	1	32	123
5:45 AM	0	13	41	2	0	56	0	0	19	13	1	32	0	6	16	0	0	22	0	9	19	7	0	35	145
Hourly Total	0	41	101	6	0	148	0	3	53	55	1	111	0	17	58	0	1	75	0	13	52	39	1	104	438
6:00 AM	0	6	36	1	0	43	0	1	14	16	0	31	0	8	33	0	0	41	0	6	15	24	0	45	160
6:15 AM	0	25	43	1	0	69	0	3	21	20	0	44	0	13	39	1	0	53	0	8	38	24	0	70	236
6:30 AM	0	57	59	1	0	117	0	7	24	21	0	52	0	10	35	0	0	45	0	10	66	32	0	108	322
6:45 AM	0	76	66	5	0	147	0	2	36	26	2	64	0	14	45	0	0	59	0	19	77	26	0	122	392
Hourly Total	0	164	204	8	0	376	0	13	95	83	2	191	0	45	152	1	0	198	0	43	196	106	0	345	1110
7:00 AM	0	43	42	5	0	90	0	1	35	32	2	68	0	18	77	4	0	99	0	17	49	19	0	85	342
7:15 AM	0	48	76	10	2	134	0	1	28	40	1	69	0	23	60	0	0	83	0	17	55	22	0	94	380
7:30 AM	0	44	73	4	0	121	0	0	54	46	1	100	0	17	54	2	0	73	0	16	88	32	0	136	430
7:45 AM	0	77	103	10	1	190	0	0	45	33	3	78	0	17	57	2	0	76	0	28	94	25	0	147	491
Hourly Total	0	212	294	29	3	535	0	2	162	151	7	315	0	75	248	8	0	331	0	78	286	98	0	462	1643

TMC 2654 - CSAH 9 @ CSAH 14
Coon Rapids MN
Tuesday, August 18, 2026

Time	Southbound CSAH 9						Westbound CSAH 14						Northbound Round Lake Blvd						Eastbound CSAH 14						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	36	72	8	2	116	0	1	35	39	0	75	0	14	41	2	0	57	0	19	67	26	0	112	360
8:15 AM	0	44	62	11	0	117	0	2	36	50	0	88	0	11	55	1	0	67	0	30	62	23	0	115	387
8:30 AM	0	42	65	15	0	122	0	0	28	36	0	64	0	18	67	2	0	87	0	29	58	23	0	110	383
8:45 AM	0	34	81	26	1	141	0	2	38	52	0	92	0	18	74	1	0	93	0	30	71	24	0	125	451
Hourly Total	0	156	280	60	3	496	0	5	137	177	0	319	0	61	237	6	0	304	0	108	258	96	0	462	1581
9:00 AM	0	28	69	23	0	120	0	1	34	36	0	71	0	26	76	0	0	102	0	44	38	18	0	100	393
9:15 AM	1	39	68	34	1	142	0	1	45	47	1	93	0	28	66	1	0	95	0	33	57	24	0	114	444
9:30 AM	0	24	78	25	3	127	0	1	54	47	1	102	0	22	67	1	0	90	0	33	51	21	0	105	424
9:45 AM	1	26	74	34	0	135	0	1	53	49	0	103	0	18	77	0	0	95	0	50	75	24	0	149	482
Hourly Total	2	117	289	116	4	524	0	4	186	179	2	369	0	94	286	2	0	382	0	160	221	87	0	468	1743
10:00 AM	0	34	65	37	0	136	0	1	51	37	1	89	0	23	68	0	0	91	0	40	46	28	0	114	430
10:15 AM	1	51	75	31	3	158	0	1	52	51	0	104	0	33	64	2	0	99	1	39	60	20	0	120	481
10:30 AM	2	32	86	30	0	150	0	2	54	62	0	118	0	17	103	2	0	122	0	47	53	28	0	128	518
10:45 AM	0	52	100	43	0	195	0	1	70	46	0	117	0	31	107	4	1	142	0	51	58	28	1	137	591
Hourly Total	3	169	326	141	3	639	0	5	227	196	1	428	0	104	342	8	1	454	1	177	217	104	1	499	2020
11:00 AM	0	41	101	46	0	188	0	1	65	55	0	121	0	24	95	6	0	125	0	52	61	32	0	145	579
11:15 AM	0	27	96	55	0	178	0	4	66	54	1	124	0	34	104	1	0	139	0	76	53	29	0	158	599
11:30 AM	0	48	100	52	0	200	0	0	47	64	1	111	0	29	108	4	0	141	0	69	47	43	0	159	611
11:45 AM	1	49	106	62	0	218	0	2	66	48	2	116	0	49	114	2	0	165	0	88	62	48	0	198	697
Hourly Total	1	165	403	215	0	784	0	7	244	221	4	472	0	136	421	13	0	570	0	285	223	152	0	660	2486
12:00 PM	2	42	105	74	0	223	0	1	68	70	0	139	0	47	126	2	0	175	1	64	71	39	0	175	712
12:15 PM	0	53	114	54	0	221	0	2	58	56	0	116	0	41	128	0	0	169	0	69	67	51	0	187	693
12:30 PM	0	39	122	70	1	231	0	1	60	46	1	107	0	32	110	2	0	144	0	63	76	44	0	183	665
12:45 PM	2	56	118	81	1	257	0	1	61	55	1	117	0	40	99	2	0	141	2	74	70	34	0	180	695
Hourly Total	4	190	459	279	2	932	0	5	247	227	2	479	0	160	463	6	0	629	3	270	284	168	0	725	2765
1:00 PM	1	43	103	70	1	217	0	2	60	52	1	114	0	35	103	2	0	140	0	65	69	33	0	167	638
1:15 PM	2	51	119	68	0	240	0	6	62	70	0	138	0	39	84	5	0	128	0	72	62	33	0	167	673
1:30 PM	5	41	115	63	0	224	0	2	58	54	0	114	0	45	89	3	0	137	0	50	58	29	0	137	612
1:45 PM	9	49	99	77	0	234	0	1	56	51	0	108	0	41	103	4	0	148	0	63	58	44	0	165	655
Hourly Total	17	184	436	278	1	915	0	11	236	227	1	474	0	160	379	14	0	553	0	250	247	139	0	636	2578
2:00 PM	0	48	99	62	0	209	0	3	71	52	0	126	0	27	117	4	0	148	0	50	72	42	1	164	647
2:15 PM	1	37	128	73	1	239	0	2	87	59	0	148	0	35	107	2	0	144	0	51	67	31	0	149	680
2:30 PM	0	45	109	56	0	210	0	3	67	56	0	126	0	26	104	4	0	134	0	65	74	46	0	185	655
2:45 PM	0	53	94	67	1	214	0	0	72	43	1	115	0	41	149	1	0	191	0	68	66	29	0	163	683
Hourly Total	1	183	430	258	2	872	0	8	297	210	1	515	0	129	477	11	0	617	0	234	279	148	1	661	2665
3:00 PM	0	41	110	55	0	206	0	2	83	62	1	147	0	44	157	2	1	203	2	51	49	30	1	132	688
3:15 PM	1	26	110	71	1	208	0	3	72	68	1	143	0	41	132	6	0	179	0	52	63	30	0	145	675
3:30 PM	2	47	93	46	2	188	0	1	97	101	0	199	0	26	128	4	0	158	0	50	62	36	0	148	693
3:45 PM	0	36	115	69	2	220	0	0	87	97	3	184	0	29	119	3	0	151	1	58	67	34	0	160	715
Hourly Total	3	150	428	241	5	822	0	6	339	328	5	673	0	140	536	15	1	691	3	211	241	130	1	585	2771

TMC 2654 - CSAH 9 @ CSAH 14
Coon Rapids MN
Tuesday, August 18, 2026

Time	Southbound CSAH 9						Westbound CSAH 14						Northbound Round Lake Blvd						Eastbound CSAH 14						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	1	37	79	54	0	171	0	1	104	71	1	176	0	39	128	0	0	167	0	49	68	35	0	152	666
4:15 PM	0	46	98	70	1	214	0	2	105	87	0	194	0	43	123	2	0	168	1	60	59	26	0	146	722
4:30 PM	0	41	93	53	1	187	0	4	96	88	3	188	0	45	139	0	0	184	0	56	56	28	0	140	699
4:45 PM	1	46	88	72	1	207	0	2	97	69	1	168	0	35	141	2	0	178	0	65	65	46	0	176	729
Hourly Total	2	170	358	249	3	779	0	9	402	315	5	726	0	162	531	4	0	697	1	230	248	135	0	614	2816
5:00 PM	0	33	102	76	1	211	1	1	77	62	0	141	0	28	115	3	0	146	0	65	65	34	0	164	662
5:15 PM	0	45	106	64	0	215	0	0	67	61	0	128	0	30	124	4	0	158	0	48	57	45	0	150	651
5:30 PM	0	51	142	70	0	263	0	1	66	72	0	139	0	32	137	2	0	171	0	56	57	53	0	166	739
5:45 PM	0	35	114	57	0	206	0	1	49	54	0	104	0	25	105	0	0	130	1	63	50	39	0	153	593
Hourly Total	0	164	464	267	1	895	1	3	259	249	0	512	0	115	481	9	0	605	1	232	229	171	0	633	2645
6:00 PM	1	56	99	54	1	210	0	0	51	43	3	94	0	22	111	2	0	135	1	66	49	32	0	148	587
6:15 PM	2	39	83	47	0	171	0	2	56	49	0	107	0	26	72	1	0	99	0	67	55	50	0	172	549
6:30 PM	1	34	85	58	0	178	0	3	41	34	0	78	0	18	65	1	0	84	0	63	53	24	0	140	480
6:45 PM	0	45	79	55	0	179	0	0	42	29	0	71	0	29	90	1	0	120	0	58	45	27	0	130	500
Hourly Total	4	174	346	214	1	738	0	5	190	155	3	350	0	95	338	5	0	438	1	254	202	133	0	590	2116
7:00 PM	0	37	71	58	0	166	0	2	47	36	1	85	0	31	92	1	0	124	1	38	42	28	0	109	484
7:15 PM	0	23	60	50	0	133	0	1	40	37	0	78	1	39	81	0	0	121	1	44	44	29	0	118	450
7:30 PM	1	26	91	43	3	161	0	1	38	46	4	85	0	20	83	3	0	106	0	31	33	27	0	91	443
7:45 PM	1	25	63	51	0	140	0	1	30	25	1	56	0	11	56	2	1	69	0	42	32	21	0	95	360
Hourly Total	2	111	285	202	3	600	0	5	155	144	6	304	1	101	312	6	1	420	2	155	151	105	0	413	1737
8:00 PM	1	27	60	52	0	140	0	2	32	34	1	68	0	18	63	3	0	84	0	39	30	22	0	91	383
8:15 PM	0	23	73	47	0	143	0	0	29	31	1	60	0	17	76	1	2	94	0	36	34	19	1	89	386
8:30 PM	0	25	65	37	1	127	0	0	34	34	1	68	1	16	55	1	0	73	0	35	33	14	0	82	350
8:45 PM	3	28	58	44	0	133	0	1	23	14	0	38	0	14	62	1	0	77	0	25	28	8	0	61	309
Hourly Total	4	103	256	180	1	543	0	3	118	113	3	234	1	65	256	6	2	328	0	135	125	63	1	323	1428
9:00 PM	1	17	57	26	1	101	0	1	29	22	1	52	0	20	41	1	0	62	0	26	21	18	0	65	280
9:15 PM	1	17	38	27	0	83	0	0	19	14	0	33	0	13	37	0	0	50	1	21	21	11	0	54	220
9:30 PM	1	20	38	16	0	75	0	1	20	14	6	35	0	11	25	0	0	36	0	15	10	10	0	35	181
9:45 PM	0	12	24	22	0	58	0	1	6	15	2	22	0	8	18	1	0	27	0	6	20	12	0	38	145
Hourly Total	3	66	157	91	1	317	0	3	74	65	9	142	0	52	121	2	0	175	1	68	72	51	0	192	826
10:00 PM	0	16	24	15	1	55	0	1	9	14	1	24	0	6	15	1	0	22	0	3	12	9	0	24	125
10:15 PM	0	12	24	5	1	41	0	0	11	8	1	19	0	6	27	0	0	33	0	6	8	8	0	22	115
10:30 PM	0	11	14	4	0	29	0	2	15	8	0	25	0	4	13	0	0	17	0	6	16	7	0	29	100
10:45 PM	0	10	15	5	0	30	0	0	5	5	0	10	0	10	17	1	0	28	0	6	9	2	0	17	85
Hourly Total	0	49	77	29	2	155	0	3	40	35	2	78	0	26	72	2	0	100	0	21	45	26	0	92	425
11:00 PM	0	9	9	6	1	24	0	0	6	17	0	23	0	7	19	0	0	26	0	3	11	9	0	23	96
11:15 PM	0	7	8	1	0	16	0	0	12	6	0	18	0	8	21	0	0	29	0	2	7	3	0	12	75
11:30 PM	1	8	18	1	0	28	0	1	14	18	1	33	0	2	26	0	0	28	0	1	8	2	0	11	100
11:45 PM	0	2	10	3	0	15	0	0	5	3	0	8	0	3	12	3	0	18	0	1	5	5	0	11	52
Hourly Total	1	26	45	11	1	83	0	1	37	44	1	82	0	20	78	3	0	101	0	7	31	19	0	57	323
DAILY TOTAL	48	2634	5761	2899	37	11342	1	106	3534	3235	56	6876	2	1806	5925	123	6	7856	13	2962	3655	2024	5	8654	34728
Cars	48	2619	5706	2887	12	11260	1	104	3516	3209	22	6830	2	1778	5861	122	4	7763	13	2953	3627	1993	3	8586	34439
Heavy Vehicles	0	15	55	12	25	82	0	2	18	26	34	46	0	28	64	1	2	93	0	9	28	31	2	68	289
Heavy Vehicle %	0.00%	0.57%	0.95%	0.41%	67.57%	0.72%	0.00%	1.89%	0.51%	0.80%	60.71%	0.67%	0.00%	1.55%	1.08%	0.81%	33.33%	1.18%	0.00%	0.30%	0.77%	1.53%	40.00%	0.79%	0.83%

TMC 2654 - CSAH 9 @ CSAH 14
Coon Rapids MN
Tuesday, August 18, 2026
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	
9:00 AM	0	28	69	23	0	120	0	1	34	36	0	71	0	26	76	0	0	102	0	44	38	18	0	100	393
9:15 AM	1	39	68	34	1	142	0	1	45	47	1	93	0	28	66	1	0	95	0	33	57	24	0	114	444
9:30 AM	0	24	78	25	3	127	0	1	54	47	1	102	0	22	67	1	0	90	0	33	51	21	0	105	424
9:45 AM	1	26	74	34	0	135	0	1	53	49	0	103	0	18	77	0	0	95	0	50	75	24	0	149	482
Peak Hour Total	2	117	289	116	4	524	0	4	186	179	2	369	0	94	286	2	0	382	0	160	221	87	0	468	1743
Peak Hour Heavy Vehicles	0	3	8	2	4	13	0	0	4	6	2	10	0	5	5	0	4	10	0	3	0	5	0	8	41
Peak Hour Heavy Vehicles % PHF	0.00%	2.56%	2.77%	1.72%	100.00%	2.48%	0.00%	0.00%	2.15%	3.35%	100.00%	2.71%	0.00%	5.32%	1.75%	0.00%	0.00%	2.62%	0.00%	1.88%	0.00%	5.75%	0.00%	1.71%	2.35%
	0.500	0.750	0.926	0.853	0.333	0.923	0.000	1.000	0.861	0.913	0.500	0.896	0.000	0.839	0.929	0.500	0.000	0.936	0.000	0.800	0.737	0.906	0.000	0.785	0.904

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	
11:45 AM	1	49	106	62	0	218	0	2	66	48	2	116	0	49	114	2	0	165	0	88	62	48	0	198	697
12:00 PM	2	42	105	74	0	223	0	1	68	70	0	139	0	47	126	2	0	175	1	64	71	39	0	175	712
12:15 PM	0	53	114	54	0	221	0	2	58	56	0	116	0	41	128	0	0	169	0	69	67	51	0	187	693
12:30 PM	0	39	122	70	1	231	0	1	60	46	1	107	0	32	110	2	0	144	0	63	76	44	0	183	665
Peak Hour Total	3	183	447	260	1	893	0	6	252	220	3	478	0	169	478	6	0	653	1	284	276	182	0	743	2767
Peak Hour Heavy Vehicles	0	1	6	1	1	8	0	0	1	2	1	3	0	1	5	0	1	6	0	0	2	4	0	6	23
Peak Hour Heavy Vehicles % PHF	0.00%	0.55%	1.34%	0.38%	100.00%	0.90%	0.00%	0.00%	0.40%	0.91%	33.33%	0.63%	0.00%	0.59%	1.05%	0.00%	0.00%	0.92%	0.00%	0.00%	0.72%	2.20%	0.00%	0.81%	0.83%
	0.375	0.863	0.916	0.878	0.250	0.966	0.000	0.750	0.926	0.786	0.375	0.860	0.000	0.862	0.934	0.750	0.000	0.933	0.250	0.807	0.908	0.892	0.000	0.938	0.972

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	
4:00 PM	1	37	79	54	0	171	0	1	104	71	1	176	0	39	128	0	0	167	0	49	68	35	0	152	666
4:15 PM	0	46	98	70	1	214	0	2	105	87	0	194	0	43	123	2	0	168	1	60	59	26	0	146	722
4:30 PM	0	41	93	53	1	187	0	4	96	88	3	188	0	45	139	0	0	184	0	56	56	28	0	140	699
4:45 PM	1	46	88	72	1	207	0	2	97	69	1	168	0	35	141	2	0	178	0	65	65	46	0	176	729
Peak Hour Total	2	170	358	249	3	779	0	9	402	315	5	726	0	162	531	4	0	697	1	230	248	135	0	614	2816
Peak Hour Heavy Vehicles	0	1	2	2	0	5	0	0	2	3	2	5	0	0	3	0	0	3	0	0	4	0	0	4	17
Peak Hour Heavy Vehicles % PHF	0.00%	0.59%	0.56%	0.80%	0.00%	0.64%	0.00%	0.00%	0.50%	0.95%	40.00%	0.69%	0.00%	0.00%	0.56%	0.00%	0.00%	0.43%	0.00%	0.00%	1.61%	0.00%	0.00%	0.65%	0.60%
	0.500	0.924	0.913	0.865	0.750	0.910	0.000	0.563	0.957	0.895	0.417	0.936	0.000	0.900	0.941	0.500	0.000	0.947	0.250	0.885	0.912	0.734	0.000	0.872	0.966

Total Vehicles On Leg			23512		
Vehicles Entering Intersection		11342	Vehicles Exiting Intersection		12170
Southbound					
Cars	2887	5706	2619	48	12
Heavy	12	55	15	0	25
Total	2899	5761	2634	48	37

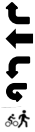


Total Vehicles on Leg	Vehicles Entering Intersection	Eastbound	Cars	Heavy	Total
16906	8654		3	2	5
			13	0	13
			2953	9	2962
	Vehicles Exiting Intersection		3627	28	3655
	8252		1993	31	2024



Daily Volumes

Cars	Heavy	Total	Westbound	Vehicles Entering Intersection	Total Vehicles on Leg
3209	26	3235		6876	13289
3516	18	3534			
104	2	106			
1	0	1		Vehicles Exiting Intersection	
22	34	56		6413	



Cars	4	2	1778	5861	122
Heavy	2	0	28	64	1
Total	6	2	1806	5925	123
Northbound					
Vehicles Entering Intersection			Vehicles Exiting Intersection		
7856			7893		
Total Vehicles On Leg			15749		



TMC 2654 - CSAH 9 @ CSAH 14
Coon Rapids MN
Tuesday, August 18, 2026

Time	Southbound Heavy CSAH 9						Westbound Heavy CSAH 14						Northbound Heavy Round Lake Blvd						Eastbound Heavy CSAH 14						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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	2
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	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	2
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	1	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
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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 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
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
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
Hourly 'Heavy Vehicles'	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	1	0	0	0	0	0	0	2
4:00 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	2
4:15 AM	0	1	2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
4:30 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	1
4:45 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	1
Hourly 'Heavy Vehicles'	0	1	3	1	0	5	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	7
5:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 AM	0	1	1	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	0	1	5
5:30 AM	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	2
Hourly 'Heavy Vehicles'	0	2	2	0	0	4	0	0	0	1	0	1	0	1	3	0	0	4	0	0	1	0	1	1	10
6:00 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3
6:15 AM	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3
6:30 AM	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
6:45 AM	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	2
Hourly 'Heavy Vehicles'	0	0	5	0	0	5	0	1	0	0	1	1	0	0	1	0	0	1	0	0	1	1	0	2	9
7:00 AM	0	0	0	1	0	1	0	0	1	0	1	1	0	0	4	0	0	4	0	0	1	1	0	2	8
7:15 AM	0	1	0	0	1	1	0	0	0	0	1	0	0	1	2	0	0	3	0	0	0	0	0	0	4
7:30 AM	0	0	2	0	0	2	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	2	0	2	5
7:45 AM	0	0	0	1	1	1	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	1	0	1	4
Hourly 'Heavy Vehicles'	0	1	2	2	2	5	0	0	1	0	4	1	0	2	8	0	0	10	0	0	1	4	0	5	21

TMC 2654 - CSAH 9 @ CSAH 14 Coon Rapids MN Tuesday, August 18, 2026																										
Time	Southbound Heavy CSAH 9						Westbound Heavy CSAH 14						Northbound Heavy Round Lake Blvd						Eastbound Heavy CSAH 14						VEHICLE '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'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'		
8:00 AM	0	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	1	3
8:15 AM	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	3
8:30 AM	0	1	2	0	0	3	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	1	0	0	1	6
8:45 AM	0	0	0	1	1	1	0	0	0	1	0	1	0	2	0	0	0	0	2	0	0	2	1	0	3	7
Hourly 'Heavy Vehicles'	0	2	3	1	2	6	0	0	1	1	0	2	0	2	4	0	0	0	6	0	1	3	1	0	5	19
9:00 AM	0	0	2	1	0	3	0	0	0	2	0	2	0	1	0	0	0	0	1	0	3	0	1	0	4	10
9:15 AM	0	0	2	0	1	2	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	2	0	2	6
9:30 AM	0	2	1	1	3	4	0	0	0	0	1	0	0	3	3	0	0	0	6	0	0	0	2	0	2	12
9:45 AM	0	1	3	0	0	4	0	0	4	2	0	6	0	1	2	0	0	0	3	0	0	0	0	0	0	13
Hourly 'Heavy Vehicles'	0	3	8	2	4	13	0	0	4	6	2	10	0	5	5	0	0	0	10	0	3	0	5	0	8	41
10:00 AM	0	0	1	0	0	1	0	0	1	1	1	2	0	0	2	0	0	0	2	0	0	1	3	0	4	9
10:15 AM	0	0	2	0	3	2	0	0	0	1	0	1	0	4	2	0	0	0	6	0	0	0	1	0	0	10
10:30 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	2	4	0	0	0	6	0	0	1	0	0	1	8
10:45 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	3	0	0	0	3	0	0	2	2	0	4	9
Hourly 'Heavy Vehicles'	0	0	4	0	3	4	0	0	2	3	1	5	0	6	11	0	0	0	17	0	0	4	6	0	10	36
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	4	0	1	1	0	0	2	6	
11:15 AM	0	0	1	0	0	1	0	0	0	1	0	1	0	0	2	0	0	2	0	1	0	1	0	2	6	
11:30 AM	0	1	1	0	0	2	0	0	0	1	0	1	0	2	1	0	0	3	0	0	0	2	0	0	2	8
11:45 AM	0	0	2	0	0	2	0	0	1	1	1	2	0	0	2	0	0	0	2	0	0	1	0	0	1	7
Hourly 'Heavy Vehicles'	0	1	4	0	0	5	0	0	1	3	1	4	0	4	6	1	0	0	11	0	2	2	3	0	7	27
12:00 PM	0	0	1	0	0	1	0	0	0	1	0	1	0	0	2	0	0	0	2	0	0	1	1	0	2	6
12:15 PM	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3
12:30 PM	0	1	2	0	1	3	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	2	0	0	2	7
12:45 PM	0	0	0	1	1	1	0	0	0	0	1	0	0	2	0	0	0	0	2	0	1	1	0	0	2	5
Hourly 'Heavy Vehicles'	0	1	4	2	2	7	0	0	0	1	1	1	0	3	3	0	0	0	6	0	1	2	4	0	7	21
1:00 PM	0	0	1	0	1	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	1	0	1	4
1:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	2	0	0	2	4
1:30 PM	0	0	0	1	0	1	0	0	0	3	0	3	0	0	2	0	0	0	2	0	1	2	0	0	3	9
1:45 PM	0	0	0	0	0	0	0	0	2	0	0	2	0	0	2	0	0	0	2	0	1	0	1	0	2	6
Hourly 'Heavy Vehicles'	0	0	2	1	1	3	0	0	2	3	0	5	0	1	6	0	0	0	7	0	2	2	4	0	8	23
2:00 PM	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	3
2:15 PM	0	1	1	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	3
2:30 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	2	1	0	3	6
2:45 PM	0	0	3	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4
Hourly 'Heavy Vehicles'	0	2	5	0	1	7	0	0	1	0	0	1	0	0	5	0	0	0	5	0	0	2	1	0	3	16
3:00 PM	0	1	1	0	0	2	0	1	1	0	0	2	0	0	2	0	0	0	2	0	0	1	0	0	1	7
3:15 PM	0	0	2	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
3:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
3:45 PM	0	0	5	0	2	5	0	0	0	1	2	1	0	0	1	0	0	0	1	0	0	1	0	0	1	8
Hourly 'Heavy Vehicles'	0	1	8	0	3	9	0	1	2	1	2	4	0	0	4	0	0	0	4	0	0	2	0	0	2	19

TMC 2654 - CSAH 9 @ CSAH 14
Coon Rapids MN
Tuesday, August 18, 2026

Time	Southbound Heavy CSAH 9						Westbound Heavy CSAH 14						Northbound Heavy Round Lake Blvd						Eastbound Heavy CSAH 14						VEHICLE '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'	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach 'Heavy Vehicles'	
4:00 PM	0	0	1	0	0	1	0	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	3
4:15 PM	0	0	0	1	0	1	0	0	2	0	0	2	0	0	1	0	0	0	1	0	0	3	0	0	7
4:30 PM	0	1	1	0	0	2	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	4
4:45 PM	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	3
Hourly 'Heavy Vehicles'	0	1	2	2	0	5	0	0	2	3	2	5	0	0	3	0	0	0	3	0	0	4	0	0	17
5:00 PM	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
5:15 PM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
5:30 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
5:45 PM	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 'Heavy Vehicles'	0	0	0	1	0	1	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	4
6:00 PM	0	0	1	0	1	1	0	0	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	2
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	2
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
6:45 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
Hourly 'Heavy Vehicles'	0	0	1	0	1	1	0	0	1	0	3	1	0	0	1	0	0	0	1	0	0	1	0	0	4
7:00 PM	0	0	0	0	0	0	0	0	0	0	1	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	1	0	0	1
7:30 PM	0	0	1	0	1	1	0	0	0	0	2	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	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Hourly 'Heavy Vehicles'	0	0	1	0	1	1	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	1	0	1	2
8:00 PM	0	0	0	0	0	0	0	0	0	0	1	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	1	0	0	0	0	0	1	0	0	0	0	1	1	0	1
8:30 PM	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	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	1
Hourly 'Heavy Vehicles'	0	0	1	0	1	1	0	0	0	0	3	0	0	0	1	0	1	1	0	0	0	1	1	1	3
9:00 PM	0	0	0	0	1	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	1	0	0	0	1	0	0	0	0	0	0	1
9:30 PM	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	1	0	0	0	0	0	1
9:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	0	0	7	0	0	2	0	0	0	0	2	0	0	1	0	0	3
10:00 PM	0	0	0	0	1	0	0	0	0	0	1	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	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1
10:30 PM	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
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
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	0	1	2	1	0	0	1	0	0	0	1	0	0	0	0	0	2
11:00 PM	0	0	0	0	1	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
11:30 PM	0	0	0	0	0	0	0	0	0	0	1	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
Hourly 'Heavy Vehicles'	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY 'Heavy Vehicles'	0	15	55	12	25	82	0	2	18	26	34	46	0	28	64	1	2	93	0	9	28	31	2	68	289

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2654

Study Date : 09/03/2026

Signal Warrants - Summary

Major Street Approaches

Northbound: Round Lake Blvd

Number of Lanes : 2+

Total Approach Volume: 7,856

Southbound: CSAH 9

Number of Lanes :2+

Total Approach Volume: 11,342

Minor Street Approaches

Eastbound: CSAH 14

Number of Lanes :2+

Total Approach Volume: 8,654

Westbound: CSAH 14

Number of Lanes :2+

Total Approach Volume: 3,641

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 17 hours, 8 are needed

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

Required volumes reached for 16 hours, 8 are needed

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

Required 1A volumes reached for 18 hours, 8 are needed

Required 1B volumes reached for 17 hours, 8 are needed

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

Number of hours (15) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....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.....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 2654

Study Date : 09/03/2026

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

17 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 = **2 or more**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **252**

Veh/Hr Minor = **84**

Major Road						Minor Road			
Round Lake Blvd						CSAH 14			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
14:15 - 15:15	672	+	869	=	1541	629	316	Yes	
12:15 - 13:15	594	+	926	=	1520	717	245	Yes	
16:15 - 17:15	676	+	819	=	1495	626	385	Yes	
17:15 - 18:15	594	+	894	=	1488	617	235	Yes	
13:15 - 14:15	561	+	907	=	1468	633	259	Yes	
15:15 - 16:15	655	+	787	=	1442	605	365	Yes	
11:15 - 12:15	620	+	819	=	1439	690	254	Yes	
10:15 - 11:15	488	+	691	=	1179	530	246	Yes	
18:15 - 19:15	427	+	694	=	1121	551	193	Yes	
19:15 - 20:15	380	+	574	=	954	395	145	Yes	
09:15 - 10:15	371	+	540	=	911	482	207	Yes	
07:15 - 08:15	289	+	561	=	850	489	164	Yes	
08:15 - 09:15	349	+	500	=	849	450	141	Yes	
20:15 - 21:15	306	+	504	=	810	297	117	Yes	
06:15 - 07:15	256	+	423	=	679	385	129	Yes	
21:15 - 22:15	135	+	271	=	406	151	57	Yes	
05:15 - 06:15	103	+	168	=	271	141	67	Yes	
22:15 - 23:15	104	+	124	=	228	91	39	No	
05:00 - 06:00	75	+	148	=	223	104	56	No	
22:45 - 23:45	111	+	98	=	209	63	38	No	
22:30 - 23:30	100	+	99	=	199	81	40	No	
04:45 - 05:45	70	+	118	=	188	87	43	No	
23:00 - 00:00	101	+	83	=	184	57	38	No	
04:30 - 05:30	63	+	104	=	167	69	31	No	
04:15 - 05:15	48		89		137	49	20	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2654

Study Date : 09/03/2026

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

16 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 = **2 or more**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **378**

Veh/Hr Minor = **42**

Major Road						Minor Road			
Round Lake Blvd						CSAH 14			
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?	
16:45 - 17:45	653	+	896	=	1549	656	312	Yes	
14:45 - 15:45	731	+	816	=	1547	588	330	Yes	
11:45 - 12:45	653	+	893	=	1546	743	258	Yes	
12:45 - 13:45	546	+	938	=	1484	651	252	Yes	
13:45 - 14:45	574	+	892	=	1466	663	290	Yes	
15:45 - 16:45	670	+	792	=	1462	598	399	Yes	
10:45 - 11:45	547	+	761	=	1308	599	254	Yes	
17:45 - 18:45	448	+	765	=	1213	613	203	Yes	
18:45 - 19:45	471	+	639	=	1110	448	171	Yes	
09:45 - 10:45	407	+	579	=	986	511	215	Yes	
08:45 - 09:45	380	+	530	=	910	444	176	Yes	
19:45 - 20:45	320	+	550	=	870	357	128	Yes	
07:45 - 08:45	287	+	545	=	832	484	147	Yes	
06:45 - 07:45	314	+	492	=	806	437	157	Yes	
20:45 - 21:45	225	+	392	=	617	215	94	Yes	
05:45 - 06:45	161	+	285	=	446	258	89	Yes	
05:30 - 06:30	133	+	206	=	339	182	79	No	
21:45 - 22:45	99	+	183	=	282	113	45	No	
05:15 - 06:15	103	+	168	=	271	141	67	No	
22:00 - 23:00	100	+	155	=	255	92	43	No	
22:15 - 23:15	104	+	124	=	228	91	39	No	
05:00 - 06:00	75	+	148	=	223	104	56	No	
22:45 - 23:45	111	+	98	=	209	63	38	No	
22:30 - 23:30	100	+	99	=	199	81	40	No	
04:45 - 05:45	70		118		188	87	43	No	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2654

Study Date : 09/03/2026

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

18 hours meet 1A minimums.
17 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 = **2 or more**

Volume Requirements

Rural Factor of 70% applied
Warrant 1A 1B
Veh/Hr Major = **202 302**

Veh/Hr Minor = **67 34**

Major Road						Minor Road				
Round Lake Blvd						CSAH 14				
Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1A?
12:00 - 13:00	629	+	932	=	1561	725		252		Yes
15:00 - 16:00	691	+	822	=	1513	585		345		Yes
17:00 - 18:00	605	+	895	=	1500	633		263		Yes
14:00 - 15:00	617	+	872	=	1489	661		305		Yes
16:00 - 17:00	697	+	779	=	1476	614		411		Yes
13:00 - 14:00	553	+	915	=	1468	636		247		Yes
11:00 - 12:00	570	+	784	=	1354	660		251		Yes
18:00 - 19:00	438	+	738	=	1176	590		195		Yes
10:00 - 11:00	454	+	639	=	1093	499		232		Yes
19:00 - 20:00	420	+	600	=	1020	413		160		Yes
09:00 - 10:00	382	+	524	=	906	468		190		Yes
20:00 - 21:00	328		543		871	323		121		Yes

Time	Major NB	+	Major SB	=	Total	Minor EB		Minor WB		Met1B?
14:30 - 15:30	707	+	838	=	1545	625		302		Yes
11:30 - 12:30	650	+	862	=	1512	719		244		Yes
12:30 - 13:30	553	+	945	=	1498	697		253		Yes
16:30 - 17:30	666	+	820	=	1486	630		345		Yes
13:30 - 14:30	577	+	906	=	1483	615		280		Yes
15:30 - 16:30	644	+	793	=	1437	606		397		Yes
17:30 - 18:30	535	+	850	=	1385	639		226		Yes
10:30 - 11:30	528	+	711	=	1239	568		263		Yes
18:30 - 19:30	449	+	656	=	1105	497		176		Yes
19:30 - 20:30	353	+	584	=	937	366		133		Yes
09:30 - 10:30	375	+	556	=	931	488		214		Yes
08:30 - 09:30	377		525		902	449		149		Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2654

Study Date : 09/03/2026

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.

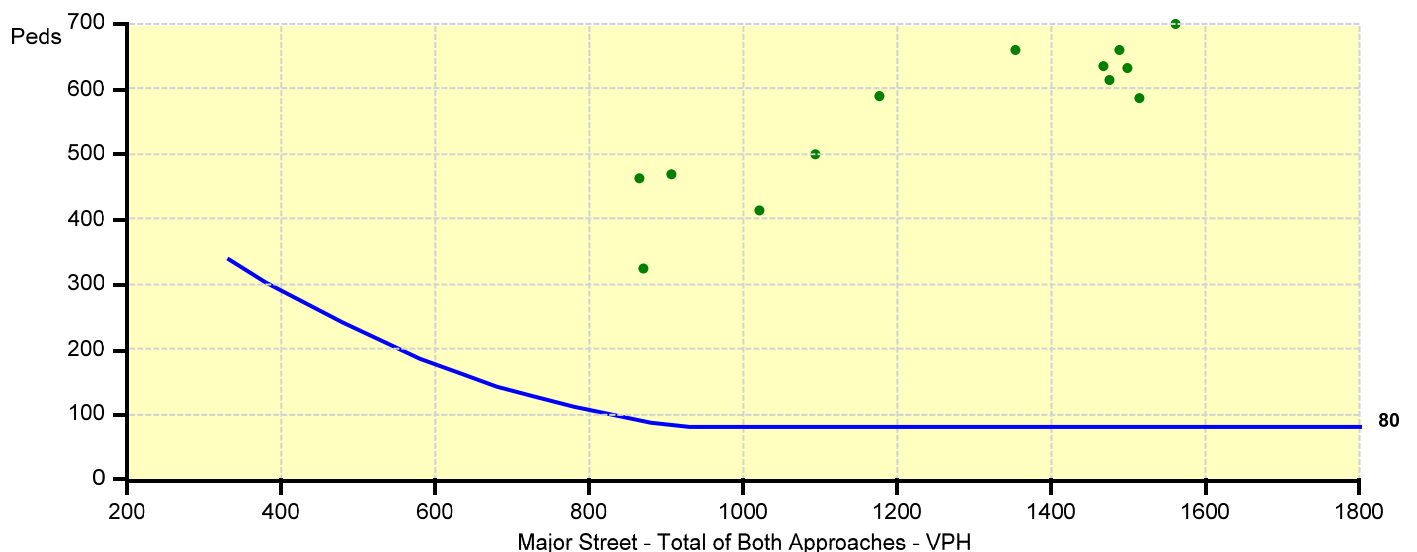
Summary

15 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 = **2 or more**

Major Road Round Lake Blvd						Minor Road CSAH 14		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
12:00 - 13:00	629	+	932	=	1561	725	252	Yes
15:00 - 16:00	691	+	822	=	1513	585	345	Yes
17:00 - 18:00	605	+	895	=	1500	633	263	Yes
14:00 - 15:00	617	+	872	=	1489	661	305	Yes
16:00 - 17:00	697	+	779	=	1476	614	411	Yes
13:00 - 14:00	553	+	915	=	1468	636	247	Yes
11:00 - 12:00	570	+	784	=	1354	660	251	Yes
18:00 - 19:00	438	+	738	=	1176	590	195	Yes
10:00 - 11:00	454	+	639	=	1093	499	232	Yes
19:00 - 20:00	420	+	600	=	1020	413	160	Yes
09:00 - 10:00	382	+	524	=	906	468	190	Yes
20:00 - 21:00	328	+	543	=	871	323	121	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name: TMC 2654

Study Date : 09/03/2026

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

59 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 = **2 or more**

Major Road						Minor Road		
Round Lake Blvd						CSAH 14		
Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met?
12:00 - 13:00	629	+	932	=	1561	725	252	Yes
16:45 - 17:45	653	+	896	=	1549	656	312	Yes
14:45 - 15:45	731	+	816	=	1547	588	330	Yes
11:45 - 12:45	653	+	893	=	1546	743	258	Yes
14:30 - 15:30	707	+	838	=	1545	625	302	Yes
14:15 - 15:15	672	+	869	=	1541	629	316	Yes
12:15 - 13:15	594	+	926	=	1520	717	245	Yes
15:00 - 16:00	691	+	822	=	1513	585	345	Yes
11:30 - 12:30	650	+	862	=	1512	719	244	Yes
17:00 - 18:00	605	+	895	=	1500	633	263	Yes
12:30 - 13:30	553	+	945	=	1498	697	253	Yes
16:15 - 17:15	676	+	819	=	1495	626	385	Yes

