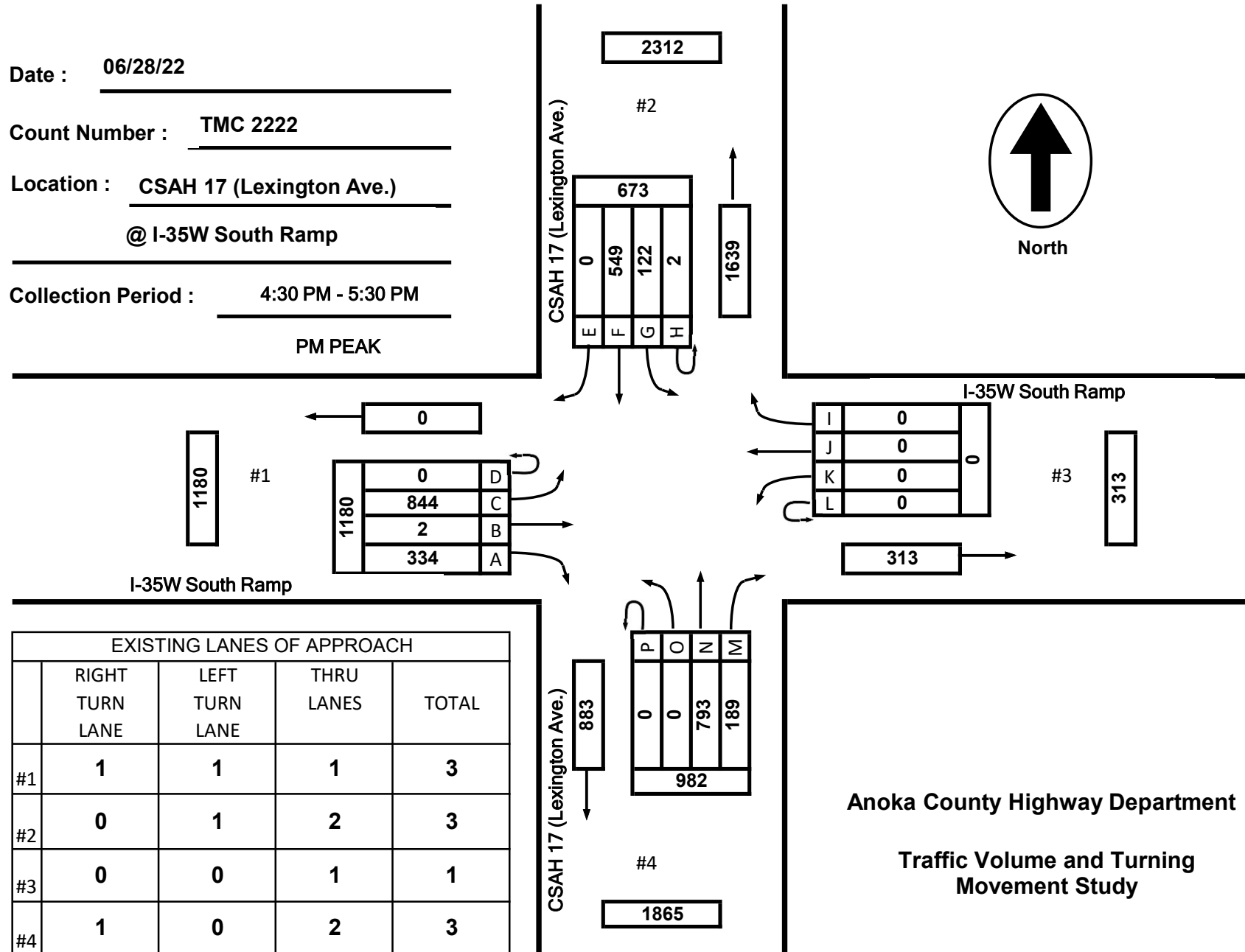
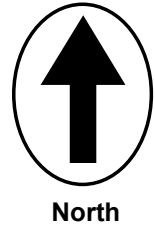


Date : 06/28/22

Count Number : TMC 2222

Location : CSAH 17 (Lexington Ave.)
@ I-35W South Ramp

Collection Period : 4:30 PM - 5:30 PM
PM PEAK



EXISTING LANES OF APPROACH

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

Anoka County Highway Department
 Traffic Volume and Turning Movement Study



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 1

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave.) Southbound						I-35W South Ramp Westbound						CSAH 17 (Lexington Ave.) Northbound						I-35W South Ramp Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
00:00	0	5	2	0	0	7	0	0	0	0	0	0	2	8	0	0	0	10	3	0	14	0	0	17	0	34	34
00:15	0	8	2	0	0	10	0	0	0	0	0	0	2	7	0	1	0	10	9	0	17	0	0	26	0	46	46
00:30	0	5	2	0	0	7	0	0	0	0	0	0	1	6	0	0	0	7	1	0	12	0	0	13	0	27	27
00:45	0	7	0	0	0	7	0	0	0	0	0	0	0	6	0	0	0	6	1	0	9	0	0	10	0	23	23
Total	0	25	6	0	0	31	0	0	0	0	0	0	5	27	0	1	0	33	14	0	52	0	0	66	0	130	130
01:00	0	6	4	0	0	10	0	0	0	0	0	0	0	4	0	0	0	4	1	0	4	0	0	5	0	19	19
01:15	0	3	3	0	0	6	0	0	0	0	0	0	0	4	0	0	0	4	1	0	7	0	0	8	0	18	18
01:30	0	4	0	0	0	4	0	0	0	0	0	0	1	4	0	0	0	5	0	0	8	0	0	8	0	17	17
01:45	0	1	2	0	0	3	0	0	0	0	0	0	3	0	0	1	0	4	0	0	6	0	0	6	0	13	13
Total	0	14	9	0	0	23	0	0	0	0	0	0	4	12	0	1	0	17	2	0	25	0	0	27	0	67	67
02:00	0	4	0	0	0	4	0	0	0	0	0	0	1	4	0	0	0	5	1	0	5	0	0	6	0	15	15
02:15	0	2	1	0	0	3	0	0	0	0	0	0	2	2	0	0	0	4	0	0	2	0	0	2	0	9	9
02:30	0	2	0	0	0	2	0	0	0	0	0	0	3	7	0	0	0	10	2	0	4	0	0	6	0	18	18
02:45	0	4	1	0	0	5	0	0	0	0	0	0	0	1	0	0	0	1	4	0	0	0	0	4	0	10	10
Total	0	12	2	0	0	14	0	0	0	0	0	0	6	14	0	0	0	20	7	0	11	0	0	18	0	52	52
03:00	0	2	1	0	0	3	0	0	0	0	0	0	2	1	0	0	0	3	2	0	5	0	0	7	0	13	13
03:15	0	2	0	0	0	2	0	0	0	0	0	0	0	6	0	0	0	6	3	0	0	0	0	3	0	11	11
03:30	0	4	1	0	0	5	0	0	0	0	0	0	0	6	0	0	0	6	4	0	5	0	1	9	1	20	21
03:45	0	4	1	0	0	5	0	0	0	0	0	0	0	2	0	0	0	2	4	0	8	0	0	12	0	19	19
Total	0	12	3	0	0	15	0	0	0	0	0	0	2	15	0	0	0	17	13	0	18	0	1	31	1	63	64
04:00	0	0	1	0	0	1	0	0	0	0	0	0	0	5	0	0	0	5	0	0	7	0	0	7	0	13	13
04:15	0	9	1	0	0	10	0	0	0	0	0	0	0	11	0	0	0	11	1	0	2	0	0	3	0	24	24
04:30	1	23	2	0	0	26	0	0	0	0	0	0	1	17	0	0	0	18	2	0	7	0	0	9	0	53	53
04:45	0	25	1	0	0	26	0	0	0	0	0	0	2	14	0	0	0	16	5	0	14	0	0	19	0	61	61
Total	1	57	5	0	0	63	0	0	0	0	0	0	3	47	0	0	0	50	8	0	30	0	0	38	0	151	151
05:00	0	16	4	0	0	20	0	0	0	0	0	0	1	22	0	0	0	23	6	0	3	0	0	9	0	52	52
05:15	0	28	3	0	0	31	0	0	0	0	0	0	3	29	0	0	0	32	11	0	14	0	0	25	0	88	88
05:30	0	35	5	0	0	40	0	0	0	0	0	0	2	27	0	0	0	29	21	1	25	0	0	47	0	116	116
05:45	0	47	6	0	0	53	0	0	0	0	0	0	6	43	0	0	0	49	29	0	51	0	0	80	0	182	182
Total	0	126	18	0	0	144	0	0	0	0	0	0	12	121	0	0	0	133	67	1	93	0	0	161	0	438	438



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 2

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave.) Southbound						I-35W South Ramp Westbound						CSAH 17 (Lexington Ave.) Northbound						I-35W South Ramp Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
06:00	0	48	11	0	0	59	0	0	0	0	0	0	11	31	0	0	0	42	21	0	42	0	0	63	0	164	164
06:15	0	61	8	0	0	69	0	0	0	0	0	0	7	58	0	0	0	65	14	0	60	0	0	74	0	208	208
06:30	0	74	15	0	0	89	0	0	0	0	0	0	11	69	0	0	0	80	22	0	96	0	0	118	0	287	287
06:45	0	90	10	0	0	100	0	0	0	0	0	0	12	78	0	0	0	90	34	0	109	0	1	143	1	333	334
Total	0	273	44	0	0	317	0	0	0	0	0	0	41	236	0	0	0	277	91	0	307	0	1	398	1	992	993
07:00	0	77	15	0	0	92	0	0	0	0	0	0	12	77	0	0	0	89	27	0	79	0	2	106	2	287	289
07:15	0	72	14	0	3	86	0	0	0	0	0	0	15	83	0	1	0	99	23	1	98	0	3	122	6	307	313
07:30	0	77	17	0	0	94	0	0	0	0	0	0	18	108	0	0	0	126	25	0	89	0	2	114	2	334	336
07:45	0	90	13	0	0	103	0	0	0	0	0	0	17	92	0	0	0	109	26	0	97	0	0	123	0	335	335
Total	0	316	59	0	3	375	0	0	0	0	0	0	62	360	0	1	0	423	101	1	363	0	7	465	10	1263	1273
08:00	0	70	20	0	0	90	0	0	0	0	0	0	10	71	0	0	0	81	28	0	116	0	1	144	1	315	316
08:15	0	78	11	0	0	89	0	0	0	0	0	0	15	78	0	0	0	93	26	0	87	0	0	113	0	295	295
08:30	0	96	19	0	0	115	0	0	0	0	0	0	7	111	0	0	0	118	32	0	80	0	1	112	1	345	346
08:45	0	92	20	0	0	112	0	0	0	0	0	0	8	88	0	0	0	96	38	0	93	0	0	131	0	339	339
Total	0	336	70	0	0	406	0	0	0	0	0	0	40	348	0	0	0	388	124	0	376	0	2	500	2	1294	1296
09:00	0	99	10	0	0	109	0	0	0	0	0	0	22	113	0	0	0	135	31	0	73	0	1	104	1	348	349
09:15	0	88	11	0	0	99	0	0	0	0	0	0	18	101	0	0	0	119	33	0	74	0	0	107	0	325	325
09:30	0	75	16	0	0	91	0	0	0	0	0	0	22	107	0	0	0	129	25	1	64	0	0	90	0	310	310
09:45	0	111	13	0	0	124	0	0	0	0	0	0	15	110	0	0	0	125	32	0	84	0	2	116	2	365	367
Total	0	373	50	0	0	423	0	0	0	0	0	0	77	431	0	0	0	508	121	1	295	0	3	417	3	1348	1351
10:00	0	73	17	0	0	90	0	0	0	0	0	0	15	124	0	0	0	139	33	0	71	0	0	104	0	333	333
10:15	0	101	15	0	0	116	0	0	0	0	0	0	15	120	0	0	0	135	37	0	54	0	0	91	0	342	342
10:30	0	105	20	0	0	125	0	0	0	0	0	0	19	130	0	0	0	149	27	0	69	0	0	96	0	370	370
10:45	0	123	24	0	0	147	0	0	0	0	0	0	19	132	0	0	0	151	39	0	72	0	1	111	1	409	410
Total	0	402	76	0	0	478	0	0	0	0	0	0	68	506	0	0	0	574	136	0	266	0	1	402	1	1454	1455
11:00	0	122	22	0	0	144	0	0	0	0	0	0	27	121	0	0	0	148	35	0	93	0	2	128	2	420	422
11:15	0	125	25	1	0	151	0	0	0	0	0	0	19	127	0	0	0	146	32	0	67	0	0	99	0	396	396
11:30	0	119	18	0	0	137	0	0	0	0	0	0	26	164	0	0	0	190	37	0	82	0	0	119	0	446	446
11:45	0	130	25	0	0	155	0	0	0	0	0	0	20	152	0	0	0	172	45	0	101	0	1	146	1	473	474
Total	0	496	90	1	0	587	0	0	0	0	0	0	92	564	0	0	0	656	149	0	343	0	3	492	3	1735	1738
12:00	0	153	24	1	0	178	0	0	0	0	0	0	20	174	0	0	0	194	42	0	91	0	0	133	0	505	505
12:15	0	137	20	0	0	157	0	0	0	0	0	0	28	161	0	0	0	189	54	0	114	0	1	168	1	514	515
12:30	0	113	23	0	0	136	0	0	0	0	1	0	26	160	0	0	0	186	56	0	100	0	0	156	1	478	479



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 3

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave.) Southbound						I-35W South Ramp Westbound						CSAH 17 (Lexington Ave.) Northbound						I-35W South Ramp Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
12:45	0	145	23	0	0	168	0	0	0	0	0	0	29	128	0	0	0	157	52	0	92	0	1	144	1	469	470
Total	0	548	90	1	0	639	0	0	0	0	1	0	103	623	0	0	0	726	204	0	397	0	2	601	3	1966	1969
13:00	0	104	23	0	0	127	0	0	0	0	0	0	34	153	0	0	0	187	41	0	107	0	1	148	1	462	463
13:15	0	154	26	0	0	180	0	0	0	0	0	0	34	150	0	0	0	184	53	1	113	0	2	167	2	531	533
13:30	0	135	31	0	0	166	0	0	0	0	0	0	25	144	0	0	0	169	46	0	99	0	1	145	1	480	481
13:45	0	120	32	1	0	153	0	0	0	0	0	0	34	139	0	0	0	173	61	1	122	0	2	184	2	510	512
Total	0	513	112	1	0	626	0	0	0	0	0	0	127	586	0	0	0	713	201	2	441	0	6	644	6	1983	1989
14:00	0	106	33	1	0	140	0	0	0	0	0	0	35	152	0	0	0	187	70	0	104	0	0	174	0	501	501
14:15	0	121	22	0	0	143	0	0	0	0	0	0	35	164	0	0	0	199	86	0	150	0	0	236	0	578	578
14:30	0	125	32	0	0	157	0	0	0	0	0	0	40	153	0	0	0	193	91	0	159	0	0	250	0	600	600
14:45	0	100	21	0	0	121	0	0	0	0	0	0	43	150	0	0	0	193	81	0	191	0	1	272	1	586	587
Total	0	452	108	1	0	561	0	0	0	0	0	0	153	619	0	0	0	772	328	0	604	0	1	932	1	2265	2266
15:00	0	117	34	0	0	151	0	0	0	0	0	0	51	188	0	0	0	239	67	1	163	0	1	231	1	621	622
15:15	0	121	45	1	0	167	0	0	0	0	0	0	47	169	0	0	0	216	76	2	162	0	0	240	0	623	623
15:30	0	152	44	0	0	196	0	0	0	0	0	0	46	209	0	0	0	255	81	0	170	0	1	251	1	702	703
15:45	0	133	23	0	0	156	0	0	0	0	0	0	38	187	0	0	0	225	76	1	193	0	1	270	1	651	652
Total	0	523	146	1	0	670	0	0	0	0	0	0	182	753	0	0	0	935	300	4	688	0	3	992	3	2597	2600
16:00	0	133	30	0	0	163	0	0	0	0	0	0	45	200	0	0	0	245	65	0	166	0	1	231	1	639	640
16:15	0	148	41	0	0	189	0	0	0	0	0	0	61	176	0	0	0	237	75	0	188	0	1	263	1	689	690
16:30	0	135	39	0	0	174	0	0	0	0	0	0	44	207	0	0	0	251	73	0	237	0	0	310	0	735	735
16:45	0	137	26	1	0	164	0	0	0	0	0	0	54	176	0	0	0	230	80	0	210	0	0	290	0	684	684
Total	0	553	136	1	0	690	0	0	0	0	0	0	204	759	0	0	0	963	293	0	801	0	2	1094	2	2747	2749
17:00	0	143	36	0	0	179	0	0	0	0	0	0	54	189	0	0	0	243	85	0	206	0	2	291	2	713	715
17:15	0	134	21	1	0	156	0	0	0	0	0	0	37	221	0	0	0	258	96	2	191	0	1	289	1	703	704
17:30	0	119	39	0	0	158	0	0	0	0	0	0	49	187	0	0	0	236	61	0	204	0	0	265	0	659	659
17:45	0	89	27	0	0	116	0	0	0	0	0	0	29	192	0	0	0	221	59	0	185	0	2	244	2	581	583
Total	0	485	123	1	0	609	0	0	0	0	0	0	169	789	0	0	0	958	301	2	786	0	5	1089	5	2656	2661
18:00	0	110	21	0	0	131	0	0	0	0	0	0	37	134	0	0	0	171	57	0	144	0	1	201	1	503	504
18:15	0	108	28	0	0	136	0	0	0	0	0	0	33	146	0	0	0	179	49	0	143	0	1	192	1	507	508
18:30	0	112	14	0	0	126	0	0	0	0	0	0	17	131	0	0	0	148	59	0	132	0	3	191	3	465	468
18:45	0	107	23	0	0	130	0	0	0	0	0	0	20	139	0	0	0	159	34	0	105	0	0	139	0	428	428
Total	0	437	86	0	0	523	0	0	0	0	0	0	107	550	0	0	0	657	199	0	524	0	5	723	5	1903	1908



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 4

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Groups Printed- Cars + - Trucks

Start Time	CSAH 17 (Lexington Ave.) Southbound						I-35W South Ramp Westbound						CSAH 17 (Lexington Ave.) Northbound						I-35W South Ramp Eastbound						Exclu. Total	Inclu. Total	Int. Total
	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total	Right	Thru	Left	UTrn	Peds	App. Total			
19:00	0	99	26	0	0	125	0	0	0	0	0	0	28	112	0	0	0	140	40	0	80	0	4	120	4	385	389
19:15	0	109	21	0	0	130	0	0	0	0	0	0	26	98	0	0	0	124	36	0	86	0	1	122	1	376	377
19:30	0	82	27	0	0	109	0	0	0	0	0	0	20	103	0	0	0	123	40	2	83	0	2	125	2	357	359
19:45	0	85	21	0	0	106	0	0	0	0	0	0	18	117	0	0	0	135	38	0	86	0	2	124	2	365	367
Total	0	375	95	0	0	470	0	0	0	0	0	0	92	430	0	0	0	522	154	2	335	0	9	491	9	1483	1492
20:00	0	84	17	0	0	101	0	0	0	0	0	0	23	98	0	0	0	121	23	1	70	0	0	94	0	316	316
20:15	0	83	24	3	0	110	0	0	0	0	0	0	12	117	0	0	0	129	26	0	69	0	0	95	0	334	334
20:30	0	73	17	0	0	90	0	0	0	0	0	0	17	79	0	0	0	96	30	0	86	0	1	116	1	302	303
20:45	0	70	12	0	0	82	0	0	0	0	0	0	8	110	0	0	0	118	24	0	78	0	1	102	1	302	303
Total	0	310	70	3	0	383	0	0	0	0	0	0	60	404	0	0	0	464	103	1	303	0	2	407	2	1254	1256
21:00	0	43	15	0	0	58	0	0	0	0	0	0	12	73	0	0	0	85	19	0	55	0	0	74	0	217	217
21:15	0	49	16	0	0	65	0	0	0	0	0	0	11	51	0	0	0	62	24	0	67	0	0	91	0	218	218
21:30	0	44	17	0	0	61	0	0	0	0	0	0	6	43	0	0	0	49	15	0	63	0	0	78	0	188	188
21:45	0	38	17	0	0	55	0	0	0	0	0	0	6	32	0	0	0	38	18	0	51	0	0	69	0	162	162
Total	0	174	65	0	0	239	0	0	0	0	0	0	35	199	0	0	0	234	76	0	236	0	0	312	0	785	785
22:00	0	45	17	1	0	63	0	0	0	0	0	0	6	44	0	0	0	50	7	0	53	0	0	60	0	173	173
22:15	0	24	9	0	0	33	0	0	0	0	0	0	5	35	0	0	0	40	14	0	56	0	0	70	0	143	143
22:30	0	31	7	0	0	38	0	0	0	0	0	0	7	33	0	0	0	40	13	0	38	0	0	51	0	129	129
22:45	0	18	10	0	0	28	0	0	0	0	0	0	6	26	0	0	0	32	5	0	42	0	0	47	0	107	107
Total	0	118	43	1	0	162	0	0	0	0	0	0	24	138	0	0	0	162	39	0	189	0	0	228	0	552	552
23:00	0	11	4	0	0	15	0	0	0	0	0	0	1	27	0	0	0	28	7	0	32	0	0	39	0	82	82
23:15	0	17	5	0	0	22	0	0	0	0	0	0	3	14	0	0	0	17	5	0	35	0	0	40	0	79	79
23:30	0	19	4	0	0	23	0	0	0	0	0	0	1	14	0	0	0	15	8	0	9	0	0	17	0	55	55
23:45	0	12	2	0	0	14	0	0	0	0	0	0	1	8	0	0	0	9	3	0	20	0	0	23	0	46	46
Total	0	59	15	0	0	74	0	0	0	0	0	0	6	63	0	0	0	69	23	0	96	0	0	119	0	262	262
Grand Total	1	6989	1521	11	3	8522	0	0	0	0	1	0	1674	8594	0	3	0	10271	3054	14	7579	0	53	10647	57	29440	29497
Apprch %	0	82	17.8	0.1			0	0	0	0			16.3	83.7	0	0			28.7	0.1	71.2	0					
Total %	0	23.7	5.2	0		28.9	0	0	0	0	0	0	5.7	29.2	0	0	0	34.9	10.4	0	25.7	0		36.2	0.2	99.8	
Cars +	1	6805	1482	10		8301	0	0	0	0	1		1623	8368	0	3		9994	2984	13	7289	0		10339	0	0	28635
% Cars +	100	97.4	97.4	90.9	100	97.4	0	0	0	0	100	100	97	97.4	0	100	0	97.3	97.7	92.9	96.2	0	100	96.6	0	0	97.1
Trucks	0	184	39	1		224	0	0	0	0	0		51	226	0	0		277	70	1	290	0		361	0	0	862
% Trucks	0	2.6	2.6	9.1	0	2.6	0	0	0	0	0	0	3	2.6	0	0	0	2.7	2.3	7.1	3.8	0	0	3.4	0	0	2.9



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 5

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Start Time	CSAH 17 (Lexington Ave.) Southbound					I-35W South Ramp Westbound					CSAH 17 (Lexington Ave.) Northbound					I-35W South Ramp Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
Peak Hour Analysis From 00:00 to 09:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 08:30																					
08:30	0	96	19	0	115	0	0	0	0	0	7	111	0	0	118	32	0	80	0	112	345
08:45	0	92	20	0	112	0	0	0	0	0	8	88	0	0	96	38	0	93	0	131	339
09:00	0	99	10	0	109	0	0	0	0	0	22	113	0	0	135	31	0	73	0	104	348
09:15	0	88	11	0	99	0	0	0	0	0	18	101	0	0	119	33	0	74	0	107	325
Total Volume	0	375	60	0	435	0	0	0	0	0	55	413	0	0	468	134	0	320	0	454	1357
% App. Total	0	86.2	13.8	0		0	0	0	0		11.8	88.2	0	0		29.5	0	70.5	0		
PHF	.000	.947	.750	.000	.946	.000	.000	.000	.000	.000	.625	.914	.000	.000	.867	.882	.000	.860	.000	.866	.975

Peak Hour Analysis From 10:00 to 13:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 13:00																					
13:00	0	104	23	0	127	0	0	0	0	0	34	153	0	0	187	41	0	107	0	148	462
13:15	0	154	26	0	180	0	0	0	0	0	34	150	0	0	184	53	1	113	0	167	531
13:30	0	135	31	0	166	0	0	0	0	0	25	144	0	0	169	46	0	99	0	145	480
13:45	0	120	32	1	153	0	0	0	0	0	34	139	0	0	173	61	1	122	0	184	510
Total Volume	0	513	112	1	626	0	0	0	0	0	127	586	0	0	713	201	2	441	0	644	1983
% App. Total	0	81.9	17.9	0.2		0	0	0	0		17.8	82.2	0	0		31.2	0.3	68.5	0		
PHF	.000	.833	.875	.250	.869	.000	.000	.000	.000	.000	.934	.958	.000	.000	.953	.824	.500	.904	.000	.875	.934

Peak Hour Analysis From 14:00 to 23:45 - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 16:30																					
16:30	0	135	39	0	174	0	0	0	0	0	44	207	0	0	251	73	0	237	0	310	735
16:45	0	137	26	1	164	0	0	0	0	0	54	176	0	0	230	80	0	210	0	290	684
17:00	0	143	36	0	179	0	0	0	0	0	54	189	0	0	243	85	0	206	0	291	713
17:15	0	134	21	1	156	0	0	0	0	0	37	221	0	0	258	96	2	191	0	289	703
Total Volume	0	549	122	2	673	0	0	0	0	0	189	793	0	0	982	334	2	844	0	1180	2835
% App. Total	0	81.6	18.1	0.3		0	0	0	0		19.2	80.8	0	0		28.3	0.2	71.5	0		
PHF	.000	.960	.782	.500	.940	.000	.000	.000	.000	.000	.875	.897	.000	.000	.952	.870	.250	.890	.000	.952	.964



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 1

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 17 (Lexington Ave.) Southbound					I-35W South Ramp Westbound					CSAH 17 (Lexington Ave.) Northbound					I-35W South Ramp Eastbound					Int. Total	
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total		
00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3	3
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3	3
03:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	1	0	2	4	4
03:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	1	0	3	0	0	0	0	0	0	1	0	0	1	1	0	2	0	3	7	7
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
04:30	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	3
04:45	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3	3
Total	0	2	1	0	3	0	0	0	0	0	0	1	0	0	1	0	0	3	0	3	7	7
05:00	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3	4	4
05:15	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	2	2
05:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	2	3	3
05:45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2	2
Total	0	0	1	0	1	0	0	0	0	0	1	2	0	0	3	2	0	5	0	7	11	11
06:00	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	1	0	3	0	4	8	8
06:15	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	5	5
06:30	0	3	0	0	3	0	0	0	0	0	1	0	0	0	1	1	0	7	0	8	12	12
06:45	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	2	0	2	0	4	9	9
Total	0	10	0	0	10	0	0	0	0	0	1	5	0	0	6	4	0	14	0	18	34	34
07:00	0	4	1	0	5	0	0	0	0	0	0	1	0	0	1	0	0	7	0	7	13	13
07:15	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	1	0	8	0	9	13	13
07:30	0	1	1	0	2	0	0	0	0	0	1	4	0	0	5	1	0	11	0	12	19	19
07:45	0	2	0	0	2	0	0	0	0	0	3	4	0	0	7	0	0	5	0	5	14	14
Total	0	9	2	0	11	0	0	0	0	0	4	11	0	0	15	2	0	31	0	33	59	59
08:00	0	2	2	0	4	0	0	0	0	0	1	5	0	0	6	1	0	7	0	8	18	18
08:15	0	3	0	0	3	0	0	0	0	0	1	4	0	0	5	1	0	5	0	6	14	14
08:30	0	4	1	0	5	0	0	0	0	0	0	7	0	0	7	2	0	5	0	7	19	19
08:45	0	6	0	0	6	0	0	0	0	0	0	5	0	0	5	0	0	10	0	10	21	21
Total	0	15	3	0	18	0	0	0	0	0	2	21	0	0	23	4	0	27	0	31	72	72
09:00	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	1	0	5	0	6	15	15



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 2

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 17 (Lexington Ave.) Southbound					I-35W South Ramp Westbound					CSAH 17 (Lexington Ave.) Northbound					I-35W South Ramp Eastbound					Int. Total
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	
09:15	0	4	1	0	5	0	0	0	0	0	1	1	0	0	2	3	0	4	0	7	14
09:30	0	6	0	0	6	0	0	0	0	0	1	8	0	0	9	0	0	5	0	5	20
09:45	0	5	1	0	6	0	0	0	0	0	2	4	0	0	6	1	0	7	0	8	20
Total	0	18	2	0	20	0	0	0	0	0	4	19	0	0	23	5	0	21	0	26	69
10:00	0	2	3	0	5	0	0	0	0	0	2	3	0	0	5	2	0	11	0	13	23
10:15	0	4	0	0	4	0	0	0	0	0	1	6	0	0	7	1	0	4	0	5	16
10:30	0	2	0	0	2	0	0	0	0	0	2	5	0	0	7	3	0	6	0	9	18
10:45	0	6	3	0	9	0	0	0	0	0	1	8	0	0	9	0	0	7	0	7	25
Total	0	14	6	0	20	0	0	0	0	0	6	22	0	0	28	6	0	28	0	34	82
11:00	0	8	0	0	8	0	0	0	0	0	2	3	0	0	5	5	0	8	0	13	26
11:15	0	7	2	0	9	0	0	0	0	0	0	5	0	0	5	4	0	6	0	10	24
11:30	0	2	1	0	3	0	0	0	0	0	3	5	0	0	8	0	0	1	0	1	12
11:45	0	3	2	0	5	0	0	0	0	0	1	11	0	0	12	1	0	4	0	5	22
Total	0	20	5	0	25	0	0	0	0	0	6	24	0	0	30	10	0	19	0	29	84
12:00	0	5	0	0	5	0	0	0	0	0	1	6	0	0	7	2	0	6	0	8	20
12:15	0	5	2	0	7	0	0	0	0	0	0	4	0	0	4	2	0	10	0	12	23
12:30	0	6	2	0	8	0	0	0	0	0	2	2	0	0	4	2	0	7	0	9	21
12:45	0	5	1	0	6	0	0	0	0	0	1	4	0	0	5	1	0	4	0	5	16
Total	0	21	5	0	26	0	0	0	0	0	4	16	0	0	20	7	0	27	0	34	80
13:00	0	1	1	0	2	0	0	0	0	0	1	7	0	0	8	1	0	8	0	9	19
13:15	0	10	2	0	12	0	0	0	0	0	6	6	0	0	12	3	0	5	0	8	32
13:30	0	8	1	0	9	0	0	0	0	0	1	8	0	0	9	3	0	4	0	7	25
13:45	0	2	1	0	3	0	0	0	0	0	1	2	0	0	3	1	0	8	0	9	15
Total	0	21	5	0	26	0	0	0	0	0	9	23	0	0	32	8	0	25	0	33	91
14:00	0	3	1	0	4	0	0	0	0	0	2	3	0	0	5	5	0	5	0	10	19
14:15	0	6	1	0	7	0	0	0	0	0	1	5	0	0	6	1	0	7	0	8	21
14:30	0	3	2	0	5	0	0	0	0	0	1	6	0	0	7	2	0	3	0	5	17
14:45	0	2	1	0	3	0	0	0	0	0	0	10	0	0	10	0	0	2	0	2	15
Total	0	14	5	0	19	0	0	0	0	0	4	24	0	0	28	8	0	17	0	25	72
15:00	0	3	2	0	5	0	0	0	0	0	1	4	0	0	5	0	0	7	0	7	17
15:15	0	3	1	1	5	0	0	0	0	0	1	1	0	0	2	1	1	5	0	7	14
15:30	0	3	0	0	3	0	0	0	0	0	0	8	0	0	8	1	0	5	0	6	17
15:45	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	2	0	1	0	3	12
Total	0	13	3	1	17	0	0	0	0	0	2	18	0	0	20	4	1	18	0	23	60
16:00	0	6	0	0	6	0	0	0	0	0	1	7	0	0	8	0	0	3	0	3	17
16:15	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	1	0	4	0	5	13
16:30	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	7	0	7	11
16:45	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	11	0	12	15
Total	0	10	0	0	10	0	0	0	0	0	1	18	0	0	19	2	0	25	0	27	56
17:00	0	1	0	0	1	0	0	0	0	0	3	1	0	0	4	0	0	2	0	2	7
17:15	0	3	0	0	3	0	0	0	0	0	2	5	0	0	7	0	0	2	0	2	12
17:30	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	1	0	1	0	2	5
17:45	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	1	0	3	0	4	8
Total	0	6	0	0	6	0	0	0	0	0	5	11	0	0	16	2	0	8	0	10	32
18:00	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	4
18:15	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	4	0	4	7
18:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	3	0	3	4
18:45	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3
Total	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	0	0	9	0	9	18



Anoka County Highway Department

Traffic Engineering Section

Traffic Volume and Turning Movement Study

File Name : TMC 2222
 Site Code :
 Start Date : 06/28/2022
 Page No : 3

Weather: Warm & Sunny
 CountCAM 3
 Study Conducted By: Sam

Groups Printed- Trucks

Start Time	CSAH 17 (Lexington Ave.) Southbound					I-35W South Ramp Westbound					CSAH 17 (Lexington Ave.) Northbound					I-35W South Ramp Eastbound					Int. Total					
	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total	Right	Thru	Left	UTrn	App. Total						
19:00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	2	0	0	0	0	0	3
19:15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
19:30	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	3
19:45	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	0
Total	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	3	0	1	0	4	0	0	0	0	0	8
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
20:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
20:30	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	5
20:45	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0	2
Total	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	0	0	6	0	6	0	0	0	0	0	9
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	0
21:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	0
21:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
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	0
22:15	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	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	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	0
23:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	2
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	0
23:45	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	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	2
Grand Total	0	184	39	1	224	0	0	0	0	0	51	226	0	0	277	70	1	290	0	361	0	0	0	0	0	862
Apprch %	0	82.1	17.4	0.4		0	0	0	0		18.4	81.6	0	0		19.4	0.3	80.3	0		0	0	0	0	0	
Total %	0	21.3	4.5	0.1	26	0	0	0	0	0	5.9	26.2	0	0	32.1	8.1	0.1	33.6	0	41.9	0	0	0	0	0	

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 06/28/2022

Signal Warrants - Summary

Major Street Approaches

Northbound: CSAH 17 (Lexington Ave.)

Number of Lanes : 2+

Total Approach Volume: 10,271

Southbound: CSAH 17 (Lexington Ave.)

Number of Lanes :2+

Total Approach Volume: 8,522

Minor Street Approaches

Eastbound: I-35W South Ramp

Number of Lanes :1

Total Approach Volume: 10,647

Westbound: I-35W South Ramp

Number of Lanes :1

Total Approach Volume: 0

Warrant Summary (Rural Values Apply)

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

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

Required volumes reached for 16 hours, 8 are needed

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

Required volumes reached for 15 hours, 8 are needed

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

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

Required 1B volumes reached for 16 hours, 8 are needed

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

Number of hours (17) volumes exceed minimum >= minimum required (4).

Warrant 3 - Peak Hour.....Satisfied

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

Number of one hour periods (61) 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:

Study Date : 06/28/2022

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

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 = **1**

Volume Requirements

Rural Factor of 70 % applied
Veh/Hr Major = **420**

Veh/Hr Minor = **105**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 17 (Lexington Ave.)					I-35W South Ramp		
15:45 - 16:45	958	+	682	=	1640	1074	0	Yes
16:45 - 17:45	967	+	657	=	1624	1135	0	Yes
14:45 - 15:45	903	+	635	=	1538	994	0	Yes
11:45 - 12:45	741	+	626	=	1367	603	0	Yes
13:45 - 14:45	752	+	593	=	1345	844	0	Yes
12:45 - 13:45	697	+	641	=	1338	604	0	Yes
17:45 - 18:45	719	+	509	=	1228	828	0	Yes
10:45 - 11:45	635	+	579	=	1214	457	0	Yes
18:45 - 19:45	546	+	494	=	1040	506	0	Yes
09:45 - 10:45	548	+	455	=	1003	407	0	Yes
08:45 - 09:45	479	+	411	=	890	432	0	Yes
19:45 - 20:45	481	+	407	=	888	429	0	Yes
07:45 - 08:45	401	+	397	=	798	492	0	Yes
06:45 - 07:45	404	+	372	=	776	485	0	Yes
20:45 - 21:45	314	+	266	=	580	345	0	Yes
05:45 - 06:45	236	+	270	=	506	335	0	Yes
05:30 - 06:30	185	+	221	=	406	264	0	No
21:45 - 22:45	168	+	189	=	357	250	0	No
05:15 - 06:15	152	+	183	=	335	215	0	No
22:00 - 23:00	162	+	162	=	324	228	0	No
05:00 - 06:00	133	+	144	=	277	161	0	No
22:15 - 23:15	140	+	114	=	254	207	0	No
22:30 - 23:30	117	+	103	=	220	177	0	No
04:45 - 05:45	100	+	117	=	217	100	0	No
04:30 - 05:30	89		103		192	62	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 06/28/2022

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

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 = **1**

Volume Requirements

Rural Factor of 70 % applied
 Veh/Hr Major = **630**
 Veh/Hr Minor = **53**

Time	Major Road				Total	Minor Road		Met?
	Major NB	+	Major SB	=		Minor EB	Minor WB	
	CSAH 17 (Lexington Ave.)					I-35W South Ramp		
16:15 - 17:15	961	+	706	=	1667	1154	0	Yes
15:15 - 16:15	941	+	682	=	1623	992	0	Yes
17:15 - 18:15	886	+	561	=	1447	999	0	Yes
14:15 - 15:15	824	+	572	=	1396	989	0	Yes
13:15 - 14:15	713	+	639	=	1352	670	0	Yes
11:15 - 12:15	702	+	621	=	1323	497	0	Yes
12:15 - 13:15	719	+	588	=	1307	616	0	Yes
18:15 - 19:15	626	+	517	=	1143	642	0	Yes
10:15 - 11:15	583	+	532	=	1115	426	0	Yes
19:15 - 20:15	503	+	446	=	949	465	0	Yes
09:15 - 10:15	512	+	404	=	916	417	0	Yes
08:15 - 09:15	442	+	425	=	867	460	0	Yes
07:15 - 08:15	415	+	373	=	788	503	0	Yes
20:15 - 21:15	428	+	340	=	768	387	0	Yes
06:15 - 07:15	324	+	350	=	674	441	0	Yes
06:00 - 07:00	277	+	317	=	594	398	0	No
05:45 - 06:45	236	+	270	=	506	335	0	No
21:15 - 22:15	199	+	244	=	443	298	0	No
05:30 - 06:30	185	+	221	=	406	264	0	No
21:30 - 22:30	177	+	212	=	389	277	0	No
21:45 - 22:45	168	+	189	=	357	250	0	No
05:15 - 06:15	152	+	183	=	335	215	0	No
22:00 - 23:00	162	+	162	=	324	228	0	No
05:00 - 06:00	133	+	144	=	277	161	0	No
22:15 - 23:15	140		114		254	207	0	No

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 06/28/2022

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

17 hours meet 1A minimums.
16 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 17 (Lexington Ave.)

Minor Road I-35W South Ramp

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1A?
15:30 - 16:30	962	+	704	=	1666	1015	0	Yes
16:30 - 17:30	982	+	673	=	1655	1180	0	Yes
14:30 - 15:30	841	+	596	=	1437	993	0	Yes
11:30 - 12:30	745	+	627	=	1372	566	0	Yes
17:30 - 18:30	807	+	541	=	1348	902	0	Yes
13:30 - 14:30	728	+	602	=	1330	739	0	Yes
12:30 - 13:30	714	+	611	=	1325	615	0	Yes
10:30 - 11:30	594	+	567	=	1161	434	0	Yes
18:30 - 19:30	571	+	511	=	1082	572	0	Yes
09:30 - 10:30	528	+	421	=	949	401	0	Yes
19:30 - 20:30	508	+	426	=	934	438	0	Yes
08:30 - 09:30	468	+	435	=	903	454	0	Yes

Time	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	Met1B?
15:45 - 16:45	958	+	682	=	1640	1074	0	Yes
16:45 - 17:45	967	+	657	=	1624	1135	0	Yes
14:45 - 15:45	903	+	635	=	1538	994	0	Yes
11:45 - 12:45	741	+	626	=	1367	603	0	Yes
13:45 - 14:45	752	+	593	=	1345	844	0	Yes
12:45 - 13:45	697	+	641	=	1338	604	0	Yes
17:45 - 18:45	719	+	509	=	1228	828	0	Yes
10:45 - 11:45	635	+	579	=	1214	457	0	Yes
18:45 - 19:45	546	+	494	=	1040	506	0	Yes
09:45 - 10:45	548	+	455	=	1003	407	0	Yes
08:45 - 09:45	479	+	411	=	890	432	0	Yes
19:45 - 20:45	481	+	407	=	888	429	0	Yes

ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 06/28/2022

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.

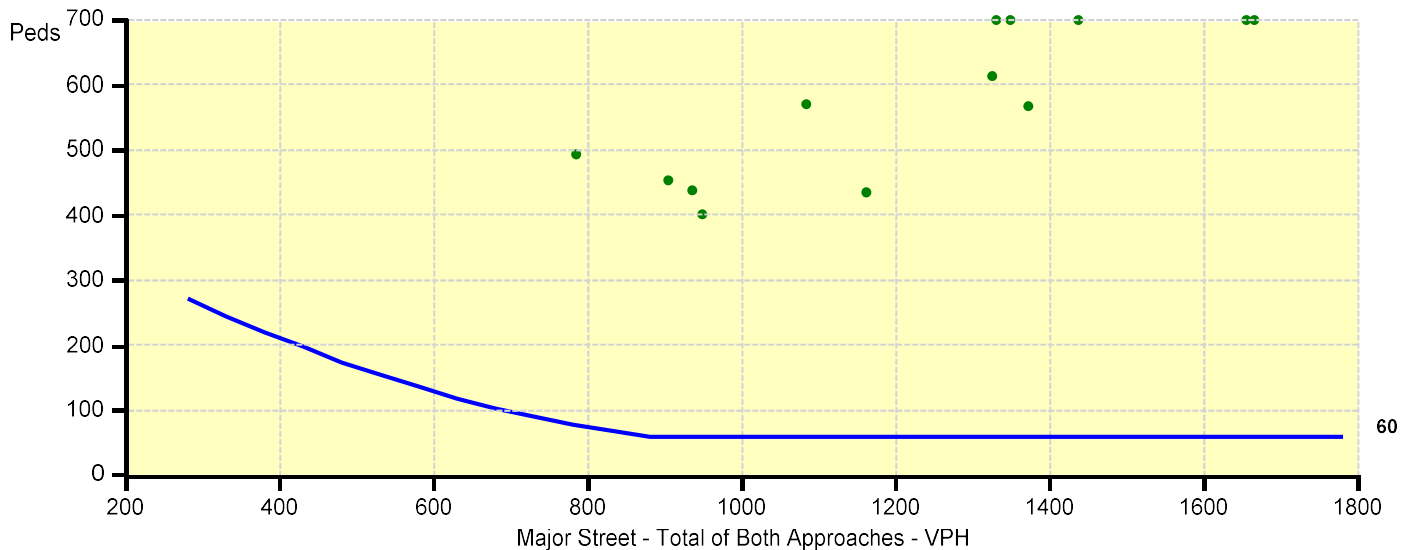
Summary

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 = **1**

Time	Major Road CSAH 17 (Lexington Ave.)					Minor Road I-35W South Ramp		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
15:30 - 16:30	962	+	704	=	1666	1015	0	Yes
16:30 - 17:30	982	+	673	=	1655	1180	0	Yes
14:30 - 15:30	841	+	596	=	1437	993	0	Yes
11:30 - 12:30	745	+	627	=	1372	566	0	Yes
17:30 - 18:30	807	+	541	=	1348	902	0	Yes
13:30 - 14:30	728	+	602	=	1330	739	0	Yes
12:30 - 13:30	714	+	611	=	1325	615	0	Yes
10:30 - 11:30	594	+	567	=	1161	434	0	Yes
18:30 - 19:30	571	+	511	=	1082	572	0	Yes
09:30 - 10:30	528	+	421	=	949	401	0	Yes
19:30 - 20:30	508	+	426	=	934	438	0	Yes
08:30 - 09:30	468		435		903	454	0	Yes



ANOKA COUNTY HIGHWAY

PC-WARRANTS

TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name:

Study Date : 06/28/2022

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

62 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					Minor Road		Met?
	Major NB	+	Major SB	=	Total	Minor EB	Minor WB	
	CSAH 17 (Lexington Ave.)					I-35W South Ramp		
16:15 - 17:15	961	+	706	=	1667	1154	0	Yes
15:30 - 16:30	962	+	704	=	1666	1015	0	Yes
16:30 - 17:30	982	+	673	=	1655	1180	0	Yes
16:00 - 17:00	963	+	690	=	1653	1094	0	Yes
15:45 - 16:45	958	+	682	=	1640	1074	0	Yes
16:45 - 17:45	967	+	657	=	1624	1135	0	Yes
15:15 - 16:15	941	+	682	=	1623	992	0	Yes
15:00 - 16:00	935	+	670	=	1605	992	0	Yes
17:00 - 18:00	958	+	609	=	1567	1089	0	Yes
14:45 - 15:45	903	+	635	=	1538	994	0	Yes
17:15 - 18:15	886	+	561	=	1447	999	0	Yes
14:30 - 15:30	841		596		1437	993	0	Yes

