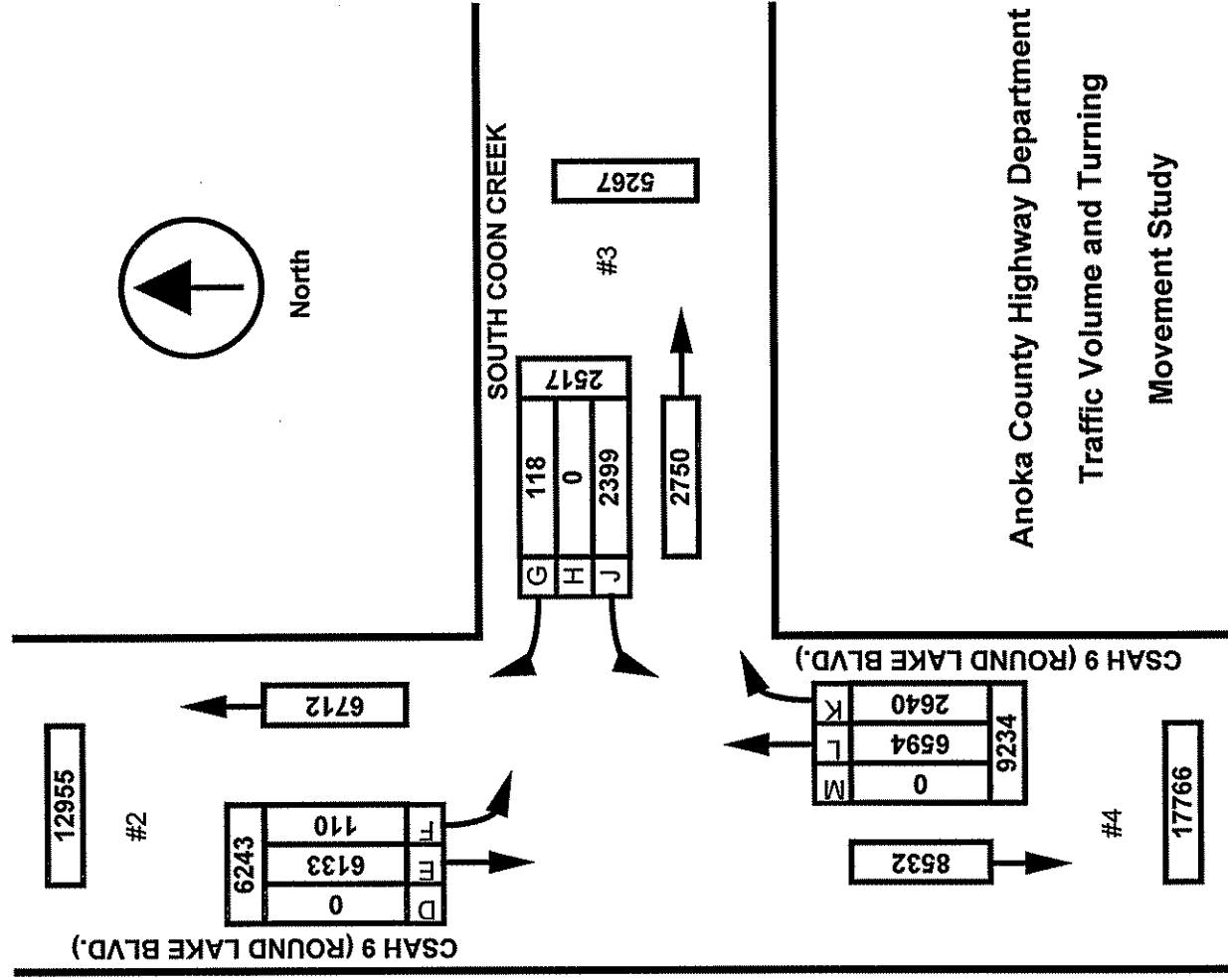


Date : 7/8/99AM 7/6/99PM

Count Number : TMC9909

Location CSAH 9 (ROUND LK BLVD) @

SOUTH COON CREEK DR.



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

Anoka County Highway Department Traffic Volume & Turning Movement Study

Weather
Counter TDC-8
Printed by Mike and Ryan

File Name : TMC9909
Site Code : 99090101
Start Date : 07/08/1999
Page No : 1

Groups Printed1 - Unshifted

Start Time	CSAH 9 (ROUND LK BLVD) Southbound				SOUTH COON CREEK DR. Westbound				CSAH 9 (ROUND LK BLVD) Northbound				Eastbound				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	Left	Thru	Right	Heavy	Left	Thru	Right	Heavy	Left	Thru	Right	Heavy			
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
06:00	0	172	0	8	15	0	1	0	0	19	5	1	0	0	0	0	9	212	221
06:15	0	166	0	3	21	0	2	0	0	32	10	2	0	0	0	0	5	231	236
06:30	4	212	0	7	30	0	0	1	0	33	15	3	0	0	0	0	11	294	305
06:45	0	170	0	8	51	0	0	0	0	32	18	3	0	0	0	0	11	271	282
Total	4	720	0	26	117	0	3	1	0	116	48	9	0	0	0	0	36	1008	1044
07:00	0	147	0	0	34	0	2	0	0	37	18	2	0	0	0	0	2	238	240
07:15	0	133	0	2	30	0	0	0	0	41	20	4	0	0	0	0	6	224	230
07:30	0	121	0	4	44	0	1	0	0	45	26	3	0	0	0	0	7	237	244
07:45	1	50	0	2	38	0	0	0	0	51	19	3	0	0	0	0	5	159	164
Total	1	451	0	8	146	0	3	0	0	174	83	12	0	0	0	0	20	858	878
08:00	2	121	0	6	21	0	0	0	0	40	14	2	0	0	0	0	8	198	206
08:15	1	102	0	0	20	0	0	0	0	42	15	4	0	0	0	0	4	180	184
08:30	2	102	0	3	19	0	1	0	0	50	23	1	0	0	0	0	4	197	201
08:45	1	102	0	0	35	0	2	0	0	45	14	4	0	0	0	0	4	199	203
Total	6	427	0	9	95	0	3	0	0	177	66	11	0	0	0	0	20	774	794
09:00	2	89	0	0	20	0	1	2	0	38	16	4	0	0	0	0	6	166	172
09:15	3	105	0	5	30	0	1	1	0	44	27	3	0	0	0	0	9	210	219
09:30	2	96	0	3	36	0	1	3	0	60	19	4	0	0	0	0	10	214	224
09:45	3	90	0	3	32	0	1	1	0	57	19	4	0	0	0	0	8	202	210
Total	10	380	0	11	118	0	4	7	0	199	81	15	0	0	0	0	33	792	827
10:00	0	81	0	2	31	0	4	2	0	45	18	3	0	0	0	0	7	179	186
10:15	3	86	0	1	34	0	3	2	0	56	42	1	0	0	0	0	4	224	228
10:30	5	68	0	1	31	0	3	0	0	72	38	1	0	0	0	0	2	217	219
10:45	0	89	0	1	24	0	1	0	0	68	32	3	0	0	0	0	4	214	218
Total	8	324	0	5	120	0	11	4	0	241	130	8	0	0	0	0	17	834	851
11:00	1	84	0	5	31	0	4	0	0	63	42	4	0	0	0	0	9	225	234
11:15	2	90	0	2	37	0	2	4	0	80	23	4	0	0	0	0	10	234	244
11:30	4	92	0	4	34	0	6	0	0	83	35	5	0	0	0	0	9	254	263
11:45	2	86	0	1	20	0	2	1	0	54	34	3	0	0	0	0	5	198	203
Total	9	352	0	12	122	0	14	5	0	280	134	16	0	0	0	0	33	911	944
12:00	3	93	0	3	34	0	2	4	0	46	32	1	0	0	0	0	8	210	218
12:15	4	98	0	5	32	0	4	0	0	69	33	3	0	0	0	0	8	240	248
12:30	4	97	0	5	25	0	2	1	0	84	38	1	0	0	0	0	7	250	257
12:45	1	97	0	1	34	0	2	1	0	82	36	6	0	0	0	0	8	252	260
Total	12	385	0	14	125	0	10	6	0	281	139	11	0	0	0	0	31	952	983
13:00	3	88	0	3	51	0	4	1	0	101	23	7	0	0	0	0	11	270	281
13:15	1	95	0	2	25	0	0	0	0	90	42	3	0	0	0	0	5	253	258
13:30	1	90	0	5	32	0	4	1	0	88	48	5	0	0	0	0	11	263	274
13:45	1	69	0	1	39	0	2	0	0	95	39	2	0	0	0	0	3	245	248
Total	6	342	0	11	147	0	10	2	0	374	152	17	0	0	0	0	30	1031	1061
14:00	4	86	0	3	37	0	3	1	0	109	40	6	0	0	0	0	10	279	289
14:15	1	83	0	4	38	0	0	1	0	84	34	3	0	0	0	0	8	240	248
14:30	1	93	0	2	33	0	1	2	0	105	39	1	0	0	0	0	5	272	277
14:45	1	103	0	2	36	0	0	0	0	130	40	1	0	0	0	0	3	310	313
Total	7	365	0	11	144	0	4	4	0	428	153	11	0	0	0	0	26	1101	1127
15:00	0	88	0	0	27	0	1	2	0	134	40	4	0	0	0	0	6	290	292
15:15	0	97	0	2	40	0	3	0	0	153	46	2	0	0	0	0	4	339	345
15:30	2	89	0	2	32	0	3	0	0	173	55	1	0	0	0	0	3	354	357
15:45	3	80	0	1	35	0	4	0	0	168	49	0	0	0	0	0	1	339	340
Total	5	354	0	5	134	0	11	2	0	628	190	7	0	0	0	0	14	1322	1336

Anoka County Highway Department
Traffic Volume & Turning Movement Study

File Name : TMC9909
Site Code : 99090101
Start Date : 07/08/1999
Page No : 2

Groups Printed1 - Unshifted

Start Time	CSAH 9 (ROUND LK BLVD) Southbound				SOUTH COON CREEK DR. Westbound				CSAH 9 (ROUND LK BLVD) Northbound				Eastbound				Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	Left	Thru	Right	Heavy	Left	Thru	Right	Heavy	Left	Thru	Right	Heavy			
Factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
16:00	1	78	0	1	44	0	3	3	0	187	63	5	0	0	0	0	9	376	385
16:15	1	108	0	1	41	0	5	0	0	215	86	6	0	0	0	0	7	456	463
16:30	1	92	0	1	34	0	1	1	0	195	92	8	0	0	0	0	10	415	425
16:45	1	91	0	1	46	0	1	0	0	205	68	2	0	0	0	0	3	412	415
Total	4	369	0	4	165	0	10	4	0	802	309	21	0	0	0	0	29	1659	1688
17:00	3	91	0	3	55	0	1	2	0	201	85	6	0	0	0	0	11	436	447
17:15	1	100	0	1	53	0	1	2	0	222	75	1	0	0	0	0	4	452	456
17:30	3	88	0	0	45	0	0	0	0	242	85	6	0	0	0	0	6	463	469
17:45	3	129	0	0	38	0	3	1	0	210	83	6	0	0	0	0	7	466	473
Total	10	408	0	4	191	0	5	5	0	875	328	19	0	0	0	0	28	1817	1845
18:00	0	88	0	3	76	0	6	1	0	192	64	2	0	0	0	0	6	426	432
18:15	2	104	0	0	64	0	2	0	0	202	59	1	0	0	0	0	1	433	434
18:30	4	102	0	0	49	0	2	2	0	160	70	2	0	0	0	0	4	387	391
18:45	1	69	0	0	55	0	1	0	0	176	67	2	0	0	0	0	2	369	371
Total	7	363	0	3	244	0	11	3	0	730	260	7	0	0	0	0	13	1615	1628
19:00	3	76	0	0	47	0	2	0	0	133	49	2	0	0	0	0	2	310	312
19:15	1	93	0	2	67	0	1	0	0	112	50	0	0	0	0	0	2	324	326
19:30	2	81	0	0	45	0	1	0	0	99	37	1	0	0	0	0	1	265	266
19:45	1	78	0	1	27	0	1	2	0	112	52	1	0	0	0	0	4	271	275
Total	7	328	0	3	186	0	5	2	0	456	188	4	0	0	0	0	9	1170	1179
20:00	1	69	0	0	35	0	3	0	0	104	54	1	0	0	0	0	1	266	267
20:15	3	70	0	0	63	0	4	1	0	103	45	0	0	0	0	0	1	288	289
20:30	1	76	0	0	65	0	0	1	0	128	60	2	0	0	0	0	3	330	333
20:45	1	66	0	0	42	0	0	0	0	107	53	1	0	0	0	0	1	269	270
Total	6	281	0	0	205	0	7	2	0	442	212	4	0	0	0	0	6	1153	1159
21:00	1	77	0	2	39	0	3	0	0	89	39	0	0	0	0	0	2	248	250
21:15	2	70	0	1	39	0	3	0	0	104	50	1	0	0	0	0	2	268	270
21:30	2	81	0	0	31	0	1	0	0	112	37	1	0	0	0	0	1	264	265
21:45	3	56	0	0	31	0	0	0	0	86	41	0	0	0	0	0	0	217	217
Total	8	284	0	3	140	0	7	0	0	391	167	2	0	0	0	0	5	997	1002
Grand Total	110	6133	0	129	2399	0	118	47	0	6594	2640	174	0	0	0	0	350	17994	18344
Apprch %	1.8	98.2	0.0		95.3	0.0	4.7		0.0	71.4	28.6		0.0	0.0	0.0		1.9	98.1	
Total %	0.6	34.1	0.0		13.3	0.0	0.7		0.0	36.6	14.7		0.0	0.0	0.0				

Major Street Approaches:

Northbound:

CSAH 9 (ROUND LK BLVD)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9909.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 8/99
 Number of Lanes: 2
 Approach Speed: 45
 Total Approach Traffic: 9234

Southbound:

CSAH 9 (ROUND LK BLVD)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9909.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 8/99
 Number of Lanes: 1
 Approach Speed: 45
 Total Approach Traffic: 6243

Minor Street Approaches:

Eastbound:

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9909.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 8/99
 Number of Lanes: 1
 Approach Speed: 0
 Total Approach Traffic: 0

Westbound:

SOUTH COON CREEK DR.

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC9909.war
 Count Type: IMC. Channel: 0. Count Date: 7/ 8/99
 Number of Lanes: 1
 Approach Speed: 30
 Total Approach Traffic: 2517

Analysis of 8-Hour Volume Warrants (Criteria refers to high volume side street for that hour):

Hour Begin	Main (Total)	Side			Warrant 1		Warrant 2		Warrant 3	
		Vol.	Dir.	Rank	Meets?	Criteria	Meets?	Criteria	Meets?	Criteria
0	0	0	W	17		105		52		84
1	0	0	W	18		105		52		84
2	0	0	W	19		105		52		84
3	0	0	W	20		105		52		84
4	0	0	W	21		105		52		84
5	0	0	W	22		105		52		84
6	888	120	W	15	--BOTH--	105	--BOTH--	52	--BOTH--	84
7	709	149	W	7	--BOTH--	105	--BOTH--	52	--BOTH--	84
8	676	98	W	16	MAIN	105	--BOTH--	52	--BOTH--	84
9	670	122	W	14	--BOTH--	105	--BOTH--	52	--BOTH--	84
10	703	131	W	13	--BOTH--	105	--BOTH--	52	--BOTH--	84
11	775	136	W	11	--BOTH--	105	--BOTH--	52	--BOTH--	84
12	817	135	W	12	--BOTH--	105	--BOTH--	52	--BOTH--	84
13	874	157	W	6	--BOTH--	105	--BOTH--	52	--BOTH--	84
14	953	148	W	8	--BOTH--	105	--BOTH--	52	--BOTH--	84
15	1177	145	W	10	--BOTH--	105	--BOTH--	52	--BOTH--	84
16	1484	175	W	5	--BOTH--	105	--BOTH--	52	--BOTH--	84
17	1621	196	W	3	--BOTH--	105	--BOTH--	52	--BOTH--	84
18	1360	255	W	1	--BOTH--	105	--BOTH--	52	--BOTH--	84
19	979	191	W	4	--BOTH--	105	--BOTH--	52	--BOTH--	84
20	941	212	W	2	--BOTH--	105	--BOTH--	52	--BOTH--	84
21	850	147	W	9	--BOTH--	105	--BOTH--	52	--BOTH--	84
22	0	0	W	23		105		52		84
23	0	0	W	24		105		52		84

Warrant Summary:

Rural values apply.

Warrant 1 - Minimum Vehicular Volumes

SATISFIED for 15 hours. Criteria--Main St.: 420; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

SATISFIED for 16 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. Ped volumes too low. Criteria--190 Peds in peak hour, 100 peds in 4th high hour.

Warrant 4 - School Crossing

NOT APPLICABLE. Gap data has not been defined.

Warrant 5 - Progressive Movement

NOT SATISFIED. Adjacent signals closer than 1000 feet and/or not part of coordinated system.

Warrant 6 - Accident Experience

NOT SATISFIED. 0 correctable accidents is fewer than required 5.

Correctable Accidents: 0; Right Angle Accidents: 0; Left Turn Accidents: 0; Other Accidents: 0.

Warrant 7 - Systems Warrant

NOT SATISFIED. At least one street has no major approaches. Peak hour total entering volume: 1817.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

SATISFIED for 16 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 15 hours.

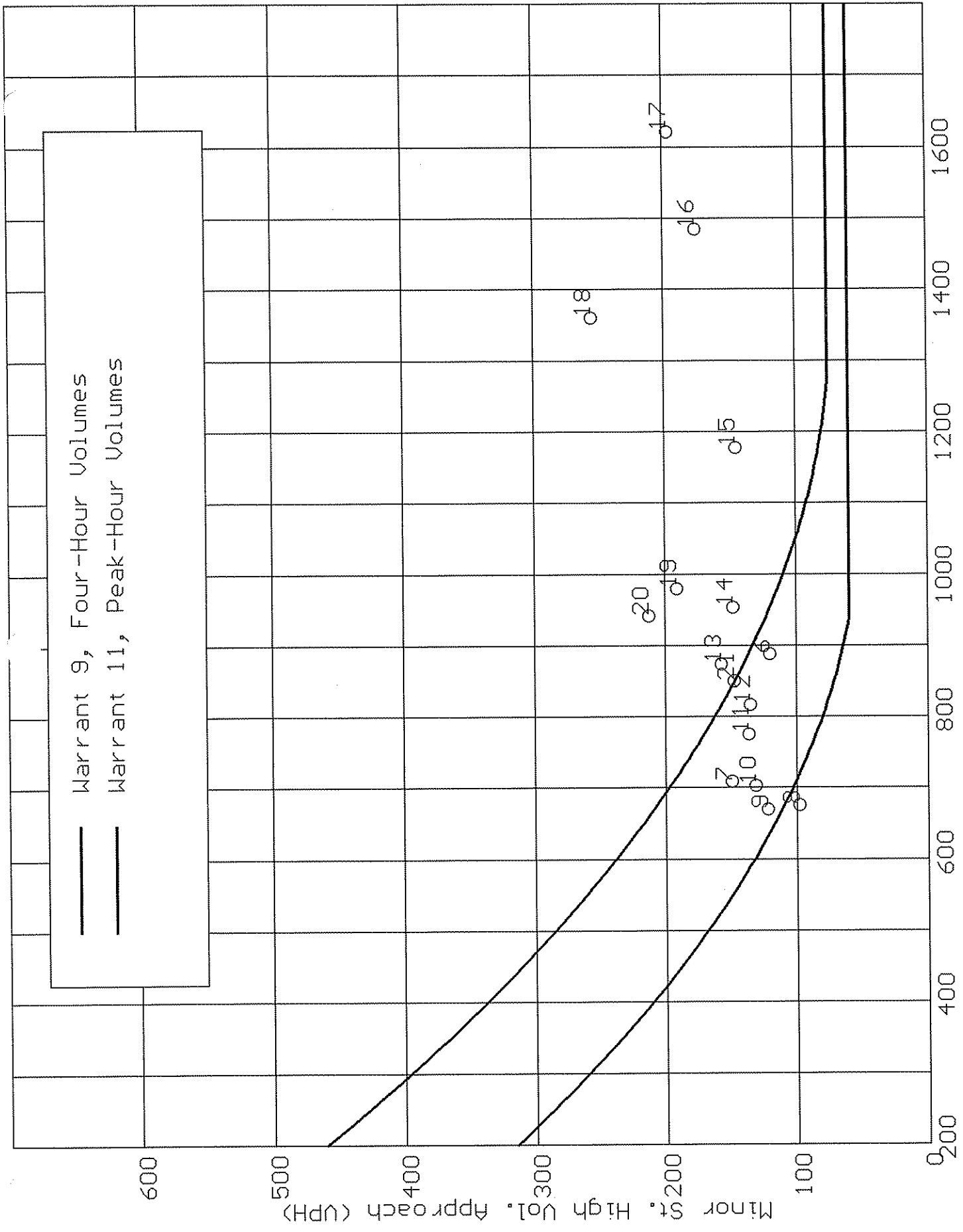
Warrant 10 - Peak Hour Delay

NOT APPLICABLE. Volume requirements satisfied, but side street peak hour delay not defined.

Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

Warrant 11 - Peak Hour Volume

SATISFIED for 9 hours.



Major St. Total of Both Approaches (UPH)



COUNT LOCATION: CSAH 9 (ROUND LK BLVD) @
SOUTH COON CREEK DR.

DATE: 7/8/99

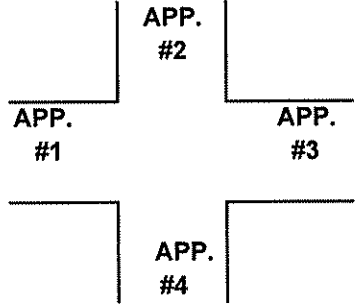
NORTH

APP. #1= SB CSAH 9
(ROUND LK BLVD)

APP. #2 =WB SOUTH
COON CREEK DR.

APP. #3=NB CSAH 9
(ROUND LK BLVD)

APP. #4=EB SOUTH
COON CREEK DR.



HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT

A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.

B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.

C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM						7	1	1
6:15-6:30						5		
6:30-6:45						10		1
6:45-7:00						8		3
HOURLY TOTAL						HOURLY TOTAL		36
7:00-7:15						2		
7:15-7:30						6		
7:30-7:45						7		
7:45-8:00						3		1
HOURLY TOTAL						HOURLY TOTAL		19
8:00-8:15						7	2	
8:15-8:30						5		
8:30-8:45						2		
8:45-9:00						4		
HOURLY TOTAL						HOURLY TOTAL		20
9:00-9:15						5		1
9:15-9:30						10		
9:30-9:45						8		1
9:45-10:00						8		
HOURLY TOTAL						HOURLY TOTAL		33
10:00-10:15						7		
10:15-10:30						4		
10:30-10:45						2		
10:45-11:00						4		
HOURLY TOTAL						HOURLY TOTAL		17
11:00-11:15						9		
11:15-11:30						8		1
11:30-11:45			2		2	7		
11:45-12:00						4		
HOURLY TOTAL					2	HOURLY TOTAL		29
12:00-12:15						6		2
12:15-12:30		2			2	9		
12:30-12:45						5	1	1
12:45-1:00						6	1	1
HOURLY TOTAL					2	HOURLY TOTAL		32
1:00-1:15						11		1
1:15-1:30						4	1	
1:30-1:45						9		
1:45-2:00						3		
HOURLY TOTAL						HOURLY TOTAL		29



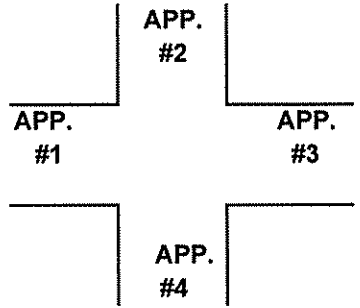
COUNT LOCATION:

CSAH 9 (ROUND LK BLVD) @
SOUTH COON CREEK DR.

DATE:

7/6/99

NORTH
 APP. #1= SB CSAH 9
 (ROUND LK BLVD)
 APP. #2 =WB SOUTH
 COON CREEK DR.
 APP. #3=NB CSAH 9
 (ROUND LK BLVD)
 APP. #4=EB SOUTH
 COON CREEK DR.



HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
 A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
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 C. BUSES- A HEAVY VEHICLE INVOLVED IN THE TRANSPORTATION OF GROUPS OF PEOPLE.

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
2:00-2:15PM						8	1	
2:15-2:30						7		
2:30-2:45						6		
2:45-3:00						3		
HOURLY TOTAL						HOURLY TOTAL		25
3:00-3:15						4	1	1
3:15-3:30						2	1	
3:30-3:45						1	1	1
3:45-4:00						1		
HOURLY TOTAL						HOURLY TOTAL		13
4:00-4:15						8		
4:15-4:30						7		
4:30-4:45						10		
4:45-5:00						3		
HOURLY TOTAL						HOURLY TOTAL		28
5:00-5:15						7		
5:15-5:30						4		
5:30-5:45						5		
5:45-6:00						5	1	
HOURLY TOTAL						HOURLY TOTAL		22
6:00-6:15						4		
6:15-6:30						1		
6:30-6:45						4		
6:45-7:00						2		
HOURLY TOTAL						HOURLY TOTAL		11
7:00-7:15						2		
7:15-7:30						2		
7:30-7:45						1		
7:45-8:00						4		
HOURLY TOTAL						HOURLY TOTAL		9
8:00-8:15						1		
8:15-8:30						1		
8:30-8:45						1		
8:45-9:00						1		
HOURLY TOTAL						HOURLY TOTAL		4
9:00-9:15						2		
9:15-9:30						1	1	
9:30-9:45							1	
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		5