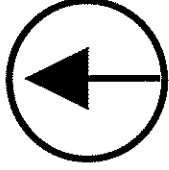


Date : 1/14, 1/17/97AM 1/13, 1/15/97PM

Count Number : TMC9710

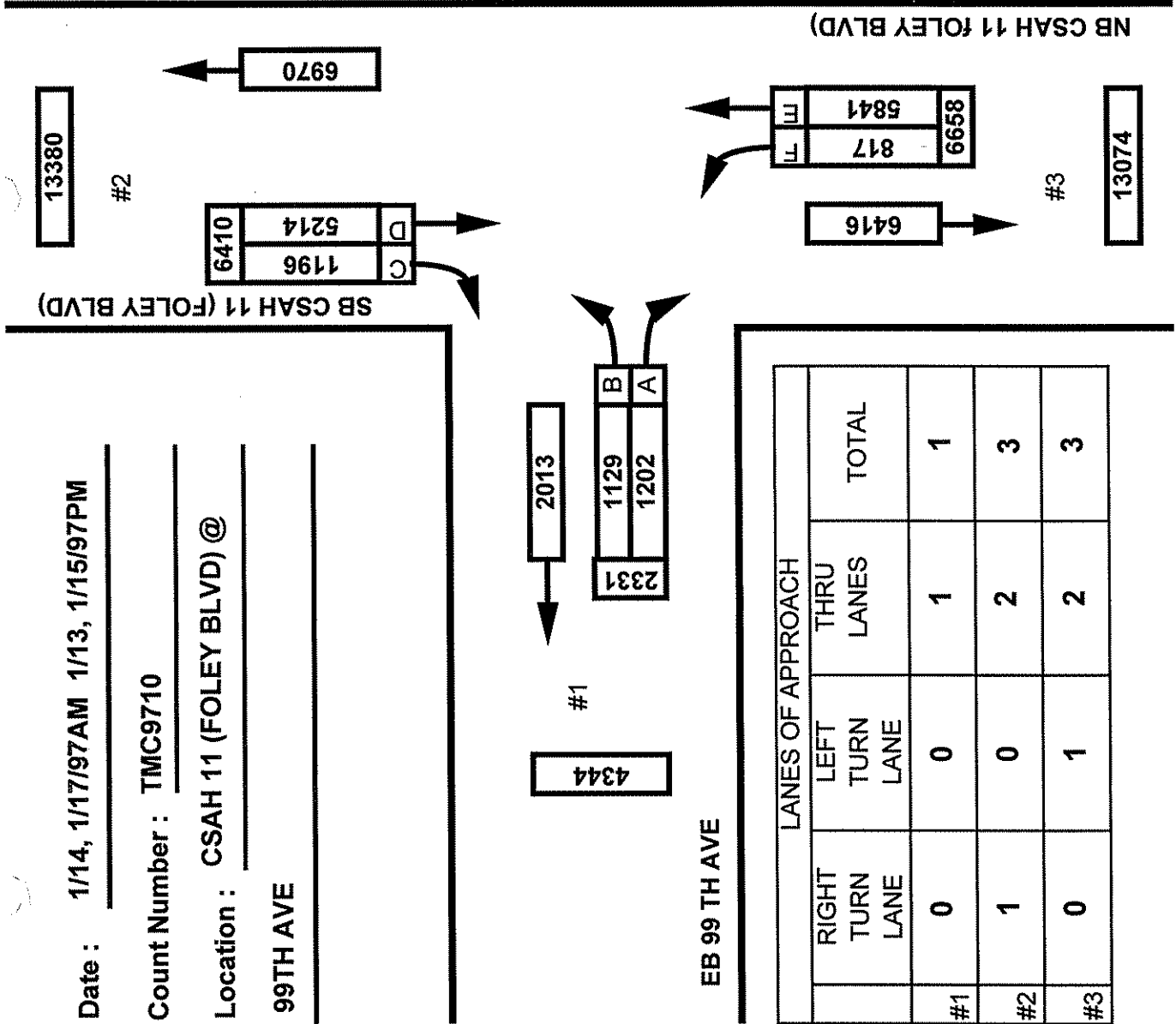
Location : CSAH 11 (FOLEY BLVD) @

99TH AVE



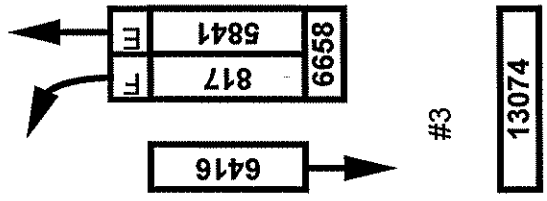
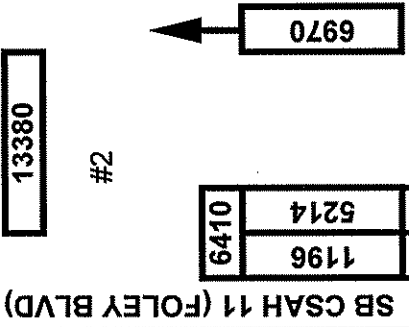
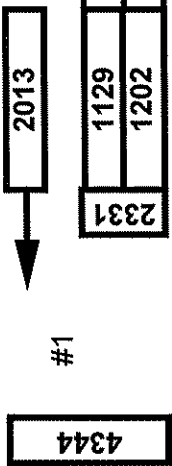
North

Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study



EB 99 TH AVE

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



Weather :  
 Counted by: Chuck  
 Board # : 1  
 Other :

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Study Name: TMC9710  
 Site Code : 97100102  
 Start Date: 01/14/97  
 Page : 1

Vehicle group 1

Start Time	CSAH 11 (Foley Blvd) Southbound			CSAH 11 (Foley Blvd) Northbound			99th Ave Eastbound			Intrvl. Total	Exclude Total	Include Total
	Thru	Right	Other	Left	Thru	Other	Left	Right	Other			
01/14/97												
06:00	205	7	1	0	19	1	10	26	0	269	2	267
06:15	251	9	2	3	33	0	17	33	1	349	3	346
06:30	276	18	5	4	54	1	17	47	1	423	7	416
06:45	267	17	3	9	43	1	20	57	3	420	7	413
Hour	999	51	11	16	149	3	64	163	5	1461	19	1442
07:00	257	11	3	10	39	3	19	41	1	384	7	377
07:15	287	7	1	5	44	2	20	60	1	427	4	423
07:30	166	12	3	1	41	0	25	42	1	291	4	287
07:45	205	11	5	10	46	4	20	44	4	349	13	336
Hour	915	41	12	26	170	9	84	187	7	1451	28	1423
08:00	166	10	7	7	45	2	17	27	1	282	10	272
08:15	123	13	6	8	29	2	17	27	1	226	9	217
08:30	123	11	3	4	36	4	18	14	0	213	7	206
08:45	86	15	6	2	30	5	24	19	4	191	15	176
Hour	498	49	22	21	140	13	76	87	6	912	41	871
09:00	86	12	1	4	37	3	21	22	4	190	8	182
09:15	50	11	0	9	30	5	13	15	3	136	8	128
09:30	67	19	1	7	32	4	8	26	1	165	6	159
09:45	63	17	2	6	23	3	10	10	2	136	7	129
Hour	266	59	4	26	122	15	52	73	10	627	29	598
10:00	55	13	6	3	33	3	16	12	2	143	11	132
10:15	52	12	2	6	41	3	10	10	3	139	8	131
10:30	57	12	2	8	39	2	6	16	2	144	6	138
10:45	54	16	6	5	44	5	17	13	3	163	14	149
Hour	218	53	16	22	157	13	49	51	10	589	39	550
11:00	51	12	2	14	45	3	15	11	3	156	8	148
11:15	55	17	2	8	51	6	19	10	0	168	8	160
11:30	41	17	1	11	47	2	20	12	0	151	3	148
11:45	51	15	2	10	49	4	19	13	1	164	7	157
Hour	198	61	7	43	192	15	73	46	4	639	26	613
12:00	49	15	3	9	63	2	14	14	2	171	7	164
12:15	48	16	2	11	62	2	17	7	2	167	6	161
12:30	48	17	2	7	46	0	16	16	1	153	3	150
12:45	56	21	4	5	68	2	16	20	0	192	6	186
Hour	201	69	11	32	239	6	63	57	5	683	22	661

Weather :  
 Counted by: Chuck  
 Board # : 1  
 Other :

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Study Name: TMC9710  
 Site Code : 97100102  
 Start Date: 01/14/97  
 Page : 2

Vehicle group 1

Start Time	CSAH 11 (Foley Blvd) Southbound			CSAH 11 (Foley Blvd) Northbound			99th Ave Eastbound			Intrvl. Total	Exclude Total	Include Total
	Thru	Right	Other	Left	Thru	Other	Left	Right	Other			
13:00	62	18	5	4	42	3	14	15	3	166	11	155
13:15	55	20	3	20	54	0	17	15	2	186	5	181
13:30	60	24	5	9	70	1	32	18	2	221	8	213
13:45	55	22	7	7	73	1	17	18	1	201	9	192
Hour	232	84	20	40	239	5	80	66	8	774	33	741
14:00	62	22	6	8	76	8	15	12	2	211	16	195
14:15	66	17	3	6	94	3	23	16	4	232	10	222
14:30	65	15	5	13	104	10	19	23	4	258	19	239
14:45	58	24	1	28	122	6	17	21	0	277	7	270
Hour	251	78	15	55	396	27	74	72	10	978	52	926
15:00	60	22	4	15	122	5	23	23	4	278	13	265
15:15	80	24	3	19	126	1	46	23	4	326	8	318
15:30	80	29	6	16	178	2	30	29	0	370	8	362
15:45	79	34	2	30	187	2	25	11	2	372	6	366
Hour	299	109	15	80	613	10	124	86	10	1346	35	1311
16:00	59	35	4	31	238	5	24	18	3	417	12	405
16:15	86	23	3	37	258	3	16	11	6	443	12	431
16:30	67	33	2	32	253	1	13	16	2	419	5	414
16:45	70	38	0	23	292	4	14	18	0	459	4	455
Hour	282	129	9	123	1041	13	67	63	11	1738	33	1705
17:00	80	33	2	35	308	1	16	21	0	496	3	493
17:15	62	38	1	33	300	0	17	16	2	469	3	466
17:30	64	23	0	37	261	3	28	23	1	440	4	436
17:45	75	32	0	27	213	1	14	19	0	381	1	380
Hour	281	126	3	132	1082	5	75	79	3	1786	11	1775
18:00	61	34	1	16	207	3	27	18	1	368	5	363
18:15	61	21	0	13	150	1	15	14	0	275	1	274
18:30	47	23	0	20	117	0	25	21	0	253	0	253
18:45	40	17	0	12	110	0	15	19	0	213	0	213
Hour	209	95	1	61	584	4	82	72	1	1109	6	1103
19:00	56	29	2	10	91	0	19	18	1	226	3	223
19:15	39	20	0	11	59	0	21	11	0	161	0	161
19:30	35	11	1	7	50	0	13	7	0	124	1	123
19:45	40	14	1	14	43	1	23	9	0	145	2	143
Hour	170	74	4	42	243	1	76	45	1	656	6	650

Weather :  
 Counted by: Chuck  
 Board # : 1  
 Other :

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Study Name: TMC9710  
 Site Code : 97100102  
 Start Date: 01/14/97  
 Page : 3

Vehicle group 1

Start Time	CSAH 11 (Foley Blvd) Southbound			CSAH 11 (Foley Blvd) Northbound			99th Ave Eastbound			Intrvl. Total	Exclude Total	Include Total
	Thru	Right	Other	Left	Thru	Other	Left	Right	Other			
20:00	23	17	0	16	69	0	10	16	0	151	0	151
20:15	23	17	1	10	66	2	17	9	0	145	3	142
20:30	26	18	0	16	71	0	18	3	0	152	0	152
20:45	20	12	0	10	42	0	8	3	0	95	0	95
Hour	92	64	1	52	248	2	53	31	0	543	3	540
21:00	23	16	0	11	47	0	10	4	1	112	1	111
21:15	23	11	0	10	63	1	13	10	0	131	1	130
21:30	36	14	0	14	51	0	5	4	0	124	0	124
21:45	21	13	0	11	65	0	9	6	0	125	0	125
Hour	103	54	0	46	226	1	37	24	1	492	2	490
Total	5214	1196	151	817	5841	142	1129	1202	92	15784	385	15399
% Apr.	79.4	18.2	2.3	12.0	85.8	2.0	46.5	49.6	3.7	-	-	-
% Int.	33.0	7.5	0.9	5.1	37.0	0.8	7.1	7.6	0.5	-	-	-

Major Street Approaches:

Northbound:

CSAH 11 (Foley Blvd)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9710.PDF  
 Count Type: IMC. Channel: 0. Count Date: 1/14/97  
 Number of Lanes: 2  
 Approach Speed: 40  
 Total Approach Traffic: 6688

Southbound:

CSAH 11 (Foley Blvd)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9710.PDF  
 Count Type: IMC. Channel: 0. Count Date: 1/14/97  
 Number of Lanes: 2  
 Approach Speed: 40  
 Total Approach Traffic: 6430

Minor Street Approaches:

Eastbound:

99th Ave

Data File: C:\APPS\PETRA2\DATAFILE\TMC9710.PDF  
 Count Type: IMC. Channel: 0. Count Date: 1/14/97  
 Number of Lanes: 1  
 Approach Speed: 0  
 Total Approach Traffic: 2334

Westbound:

Data File: C:\APPS\PETRA2\DATAFILE\TMC9710.PDF  
 Count Type: IMC. Channel: 0. Count Date: 1/14/97  
 Number of Lanes: 1  
 Approach Speed: 0  
 Total Approach Traffic: 0

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

Hour	Main	Side			Warrant 1		Warrant 2		Warrant 8	
Begin	(Total)	Vol.	Dir.	Rank	Meets?	Criteria	Meets?	Criteria	Meets?	Criteria
0	0	0	E	17		150		75		120
1	0	0	E	18		150		75		120
2	0	0	E	19		150		75		120
3	0	0	E	20		150		75		120
4	0	0	E	21		150		75		120
5	0	0	E	22		150		75		120
6	1217	228	E	2	--BOTH--	150	--BOTH--	75	--BOTH--	120
7	1155	271	E	1	--BOTH--	150	--BOTH--	75	--BOTH--	120
8	711	163	E	4	--BOTH--	150	SIDE	75	SIDE	120
9	476	125	E	10		150	SIDE	75	SIDE	120
10	452	100	E	14		150	SIDE	75		120
11	498	120	E	13		150	SIDE	75	SIDE	120
12	547	121	E	11		150	SIDE	75	SIDE	120
13	599	146	E	7		150	SIDE	75	SIDE	120
14	783	146	E	8	MAIN	150	SIDE	75	--BOTH--	120
15	1104	210	E	3	--BOTH--	150	--BOTH--	75	--BOTH--	120
16	1580	130	E	9	MAIN	150	--BOTH--	75	--BOTH--	120
17	1622	154	E	5	--BOTH--	150	--BOTH--	75	--BOTH--	120
18	952	154	E	6	--BOTH--	150	--BOTH--	75	--BOTH--	120
19	531	121	E	12		150	SIDE	75	SIDE	120
20	460	84	E	15		150	SIDE	75		120
21	431	61	E	16		150		75		120
22	0	0	E	23		150		75		120
23	0	0	E	24		150		75		120

## Warrant Summary:

Urban values apply.

## Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 6 hours. Criteria--Main St.: 600; Side St.: See Volume Summary.

## Warrant 2 - Interruption of Continuous Traffic

NOT SATISFIED. Required values reached for 6 hours. Criteria--Main St.: 900; 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: 1776.

- 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

NOT SATISFIED. Required values reached for 7 hours. Criteria--Main: 720; Side: See Volume Summary.

## Warrant 9 - Four Hour Volumes

SATISFIED for 6 hours.

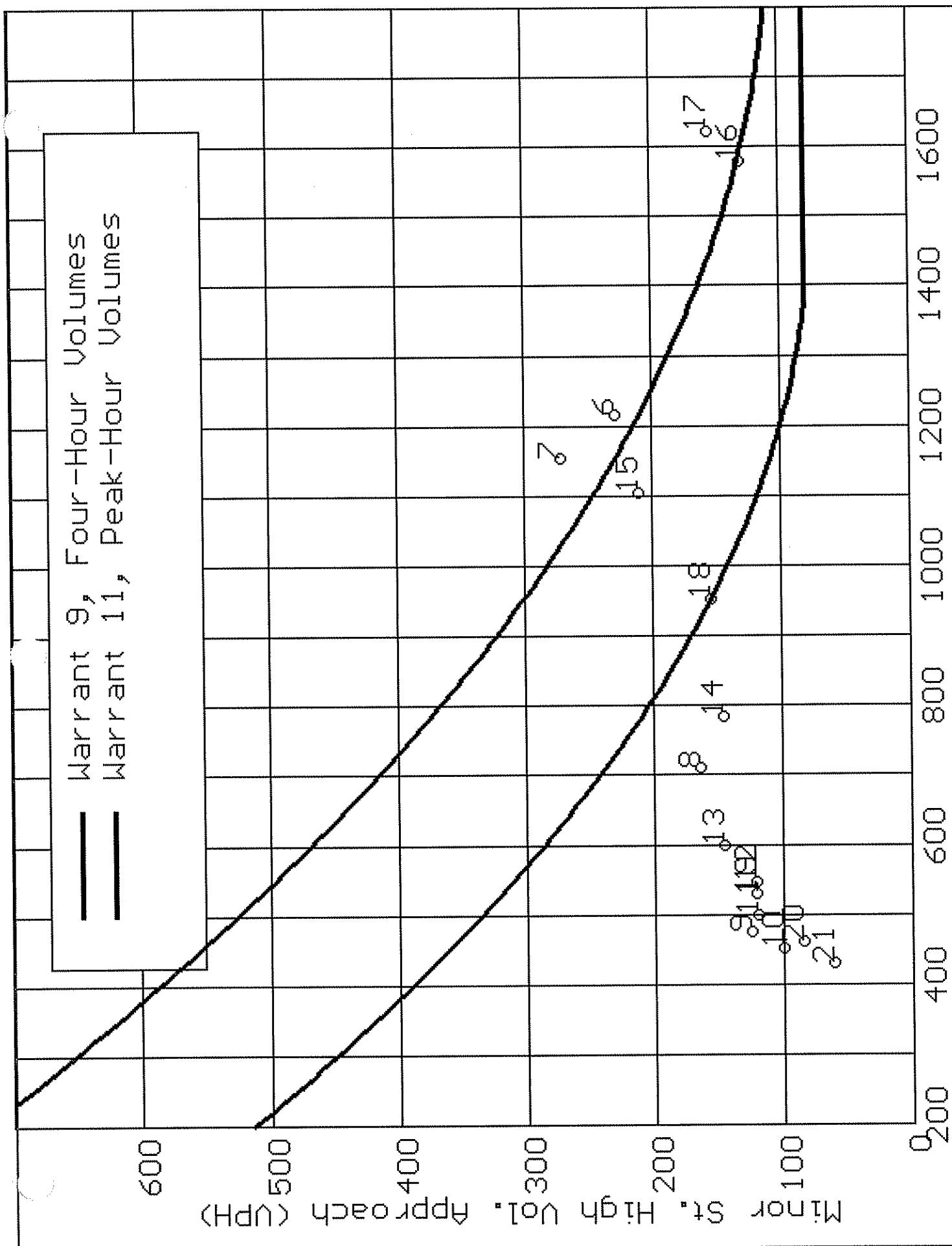
## Warrant 10 - Peak Hour Delay

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

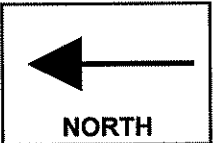
Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

## Warrant 11 - Peak Hour Volume

SATISFIED for 4 hours.



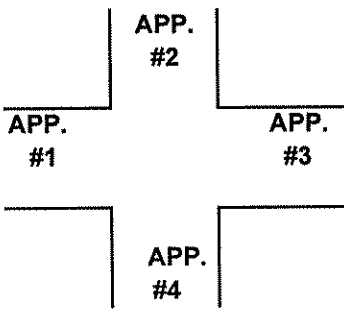
Major St. Total of Both Approaches (UPH)



**COUNT LOCATION:** CSAH 11 (FOLEY BLVD) @  
99TH AVE/99TH LANE

**DATE:** 1/13 & 1/15/97

APP. #1=SB CSAH 11  
(FOLEY BLVD)  
APP. #2 =WB 99TH LANE  
  
APP. #3=NB CSAH 11  
(FOLEY BLVD)  
APP. #4=EB 99TH AVE



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

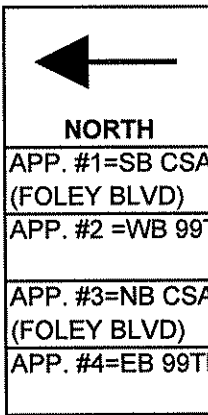
A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.

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.

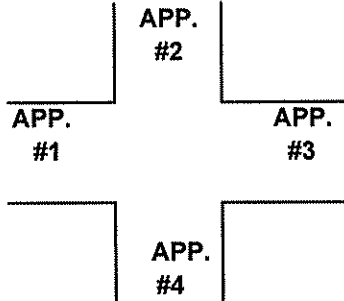
TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
2:00-2:15PM						13		3
2:15-2:30						7		3
2:30-2:45						13		6
2:45-3:00						5		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>52</b>
3:00-3:15						10		3
3:15-3:30						4		4
3:30-3:45						3		5
3:45-4:00						1		4
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>34</b>
4:00-4:15						3		9
4:15-4:30						5	1	6
4:30-4:45						1		4
4:45-5:00						4		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>33</b>
5:00-5:15						4		
5:15-5:30						3		1
5:30-5:45						3		
5:45-6:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>12</b>
6:00-6:15						4		1
6:15-6:30						1		
6:30-6:45								
6:45-7:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>6</b>
7:00-7:15						3		
7:15-7:30								
7:30-7:45						1		
7:45-8:00						2		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>6</b>
8:00-8:15								
8:15-8:30						3		
8:30-8:45								
8:45-9:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>3</b>
9:00-9:15						1		
9:15-9:30								1
9:30-9:45								
9:45-10:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>2</b>





**COUNT LOCATION:** CSAH 11 (FOLEY BLVD) @  
99TH AVE/99TH LANE

**DATE:** 1/14 & 1/1797



- 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						1		1
6:15-6:30						3		
6:30-6:45						7		
6:45-7:00						2		5
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>19</b>
7:00-7:15						4		3
7:15-7:30						3		1
7:30-7:45						3		1
7:45-8:00						2		10
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>27</b>
8:00-8:15						7		3
8:15-8:30						7		2
8:30-8:45						4		3
8:45-9:00						8		8
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>42</b>
9:00-9:15						5		3
9:15-9:30						7		1
9:30-9:45						6		
9:45-10:00						6		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>29</b>
10:00-10:15						11		
10:15-10:30						7		1
10:30-10:45						5		1
10:45-11:00						16		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>41</b>
11:00-11:15						8		
11:15-11:30						8		
11:30-11:45						3		
11:45-12:00						7		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>26</b>
12:00-12:15						6		1
12:15-12:30						5		1
12:30-12:45						1		3
12:45-1:00						5		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>22</b>
1:00-1:15						9		2
1:15-1:30						5		
1:30-1:45						7		1
1:45-2:00						8		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>33</b>