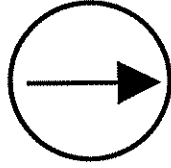


Date : 1/13/99AM 1/14/99PM)

Count Number : TMC9902

Location : CSAH 17 (LEXINGTON AVE) @

CSAH 32 (CR J/85TH AVE)



North

6425

#2

2827	D	91
2279	E	
457	F	

3598

3204

#1

6561

3357	C	140
2373	B	
844	A	

753	G	3958
2337	H	
868	J	

#3

7513

3555

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

776	M	4206
2705	L	
725	K	

#4

8197

3991

Anoka County Highway Department

Traffic Volume and Turning

Movement Study



Anoka County Highway Department  
 Traffic Engineering  
 Traffic Volume and  
 Turning Movement Study

File Name : TMC9902  
 Site Code : 99020101  
 Start Date : 01/13/1999  
 Page : 2

Groups Printed: 1 - Unshifted

Start Time	CSAH 17 (LEXINGTON AVE) Southbound					CSAH 32 (CR J/85TH AVE) Westbound					CSAH 17 (LEXINGTON AVE) Northbound					CSAH 32 (CR J/85TH AVE) Eastbound					Exclu Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
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				
17:00	17	21	9	3	50	1	54	26	2	83	20	160	3	4	187	38	84	10	2	134	11	443	454
17:15	30	23	14	2	69	1	38	22	2	63	19	131	2	5	157	28	113	9	1	151	10	430	440
17:30	12	25	10	1	48	1	42	29	4	76	27	116	2	2	147	33	97	10	2	142	9	404	413
17:45	20	28	11	1	60	1	31	38	0	70	18	102	4	2	126	29	77	4	2	112	5	363	368
Total	79	97	44	7	227	4	165	115	8	292	84	509	11	13	617	128	371	33	7	539	35	1640	1675
18:00	25	33	10	0	68	3	36	20	2	61	7	95	2	4	108	28	85	2	1	116	7	346	353
18:15	15	24	14	1	54	2	38	17	2	59	13	43	4	2	62	19	86	7	1	113	6	282	288
18:30	18	15	9	0	42	0	36	19	3	58	10	51	2	2	65	12	55	4	0	71	5	231	236
18:45	13	18	9	0	40	0	26	14	1	41	8	45	0	1	54	15	52	7	1	75	3	207	210
Total	71	90	42	1	204	5	136	70	8	219	38	234	8	9	289	74	278	20	3	375	21	1066	1087
19:00	13	15	17	0	45	1	23	24	1	49	3	47	2	0	52	25	53	2	1	81	2	225	227
19:15	16	10	5	0	31	1	26	11	0	38	4	27	2	0	33	16	41	7	1	65	1	166	167
19:30	14	13	4	0	31	0	16	16	0	32	8	21	1	0	30	7	35	7	0	49	0	142	142
19:45	8	8	1	0	17	1	20	9	0	30	4	23	2	1	30	13	35	3	0	51	1	127	128
Total	51	46	27	0	124	3	85	60	1	149	19	118	7	1	145	61	164	19	2	246	4	660	664
Grand Total	776	270	725	52	4258	140	237	844	73	3430	457	227	91	76	2903	868	233	753	166	4124	367	1434	1471
Apprch %	18.2	63.5	17.0	1.2		4.1	69.2	24.6	2.1		15.7	78.5	3.1	2.6		21.0	56.7	18.3	4.0				
Total %	5.3	18.4	4.9	0.4	28.9	1.0	16.1	5.7	0.5	23.3	3.1	15.5	0.6	0.5	19.7	5.9	15.9	5.1	1.1	28.0	2.5	97.5	

Major Street Approaches:

Northbound:

CSAH 17 (LEXINGTON AVE)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\tmc9902.war  
 Count Type: IMC. Channel: 0. Count Date: 1/13/99  
 Number of Lanes: 2  
 Approach Speed: 45  
 Total Approach Traffic: 2827

Southbound:

CSAH 17 (LEXINGTON AVE)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\tmc9902.war  
 Count Type: IMC. Channel: 0. Count Date: 1/13/99  
 Number of Lanes: 2  
 Approach Speed: 45  
 Total Approach Traffic: 4206

Minor Street Approaches:

Eastbound:

CSAH 32 (CR J/85TH AVE)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\tmc9902.war  
 Count Type: IMC. Channel: 0. Count Date: 1/13/99  
 Number of Lanes: 2  
 Approach Speed: 50  
 Total Approach Traffic: 3958

Westbound:

CSAH 32 (CR J/85TH AVE)

Data File: C:\Program Files\JAMAR\PETRA\Data Files\tmc9902.war  
 Count Type: IMC. Channel: 0. Count Date: 1/13/99  
 Number of Lanes: 2  
 Approach Speed: 50  
 Total Approach Traffic: 3357

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 W 15	140	70	112
1	0	0 W 16	140	70	112
2	0	0 W 17	140	70	112
3	0	0 W 18	140	70	112
4	0	0 W 19	140	70	112
5	0	0 W 20	140	70	112
6	777	333 W 7	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
7	916	493 W 3	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
8	715	393 W 4	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
9	347	240 W 10	SIDE 140	SIDE 70	SIDE 112
10	218	149 W 14	SIDE 140	SIDE 70	SIDE 112
11	238	153 W 13	SIDE 140	SIDE 70	SIDE 112
12	282	181 E 11	SIDE 140	SIDE 70	SIDE 112
13	247	155 E 12	SIDE 140	SIDE 70	SIDE 112
14	359	264 E 8	SIDE 140	SIDE 70	SIDE 112
15	537	369 E 6	--BOTH-- 140	SIDE 70	--BOTH-- 112
16	822	521 E 2	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
17	824	532 E 1	--BOTH-- 140	--BOTH-- 70	--BOTH-- 112
18	483	372 E 5	--BOTH-- 140	SIDE 70	SIDE 112
19	268	244 E 9	SIDE 140	SIDE 70	SIDE 112
20	0	0 W 21	140	70	112
21	0	0 W 22	140	70	112
22	0	0 W 23	140	70	112
23	0	0 W 24	140	70	112

## Warrant Summary:

Rural values apply.

## Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 7 hours. Criteria--Main St.: 420; Side St.: See Volume Summary.

## Warrant 2 - Interruption of Continuous Traffic

NOT SATISFIED. Required values reached for 5 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: 1827.

- 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 6 hours. Criteria--Main: 504; Side: See Volume Summary.

## Warrant 9 - Four Hour Volumes

NOT SATISFIED for 7 hours.

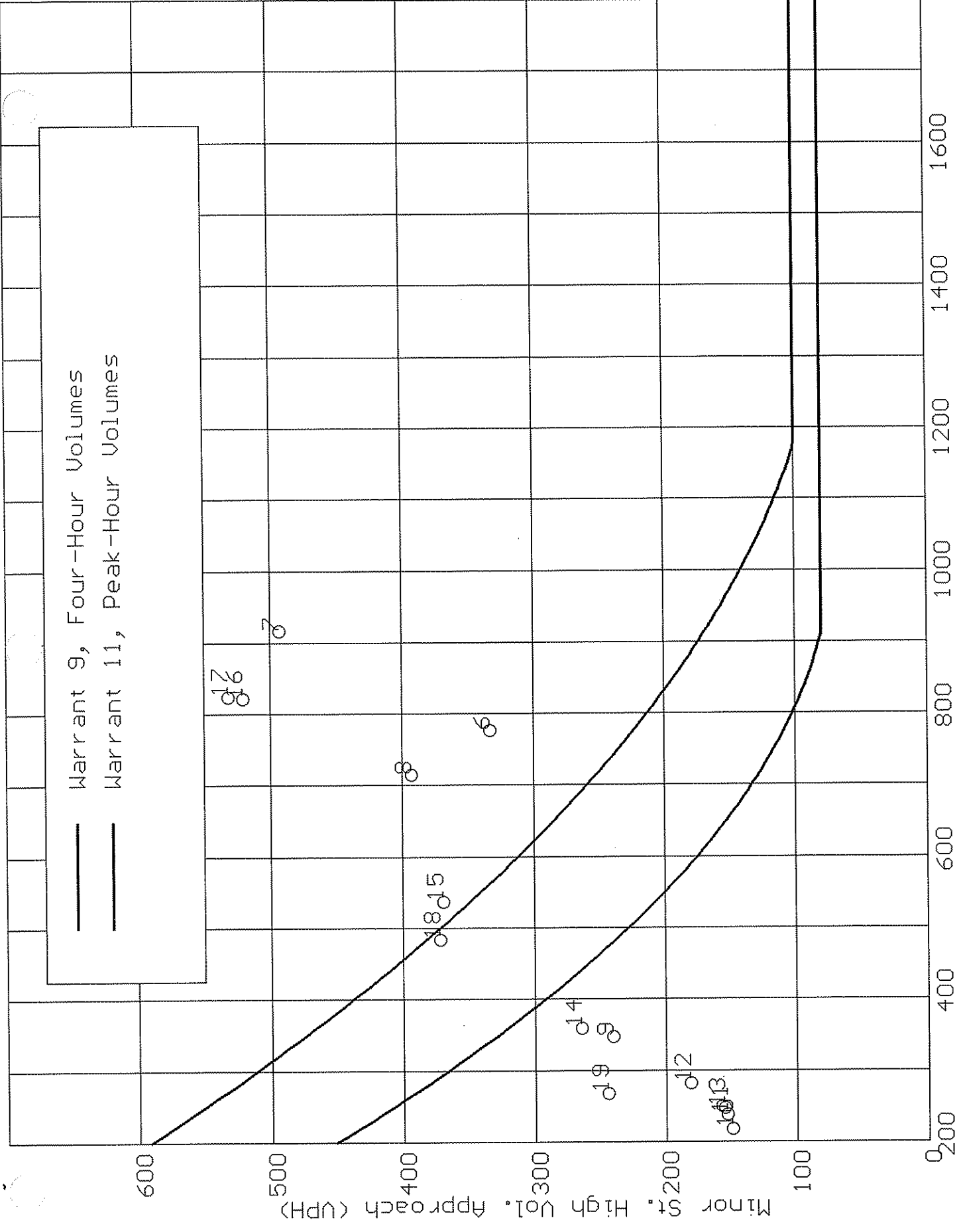
## Warrant 10 - Peak Hour Delay

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

Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 150.

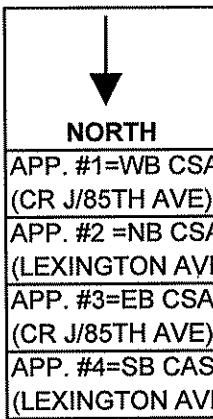
## Warrant 11 - Peak Hour Volume

SATISFIED for 7 hours.



Warrant 9, Four-Hour Volumes  
 Warrant 11, Peak-Hour Volumes

Major St. Total of Both Approaches (UPH)



COUNT LOCATION:

CSAH 17 (LEXINGTON AVE) @

DATE:

1/13/99

CSAH 32 (CRJ/85TH AVE)

APP. #2

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

APP. #1

APP. #3

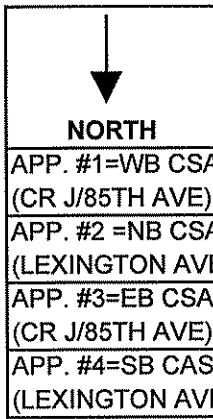
A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.

APP. #4

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	2		2
6:15-6:30						7		1
6:30-6:45						3		3
6:45-7:00						7		4
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>29</b>
7:00-7:15						7		2
7:15-7:30						4		7
7:30-7:45						1		2
7:45-8:00						9		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>34</b>
8:00-8:15						11		6
8:15-8:30						7		3
8:30-8:45						11		5
8:45-9:00						6		5
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>54</b>
9:00-9:15						4		8
9:15-9:30						7		1
9:30-9:45						6		2
9:45-10:00						11		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>40</b>
10:00-10:15		1			1	2		1
10:15-10:30						7		1
10:30-10:45						11		
10:45-11:00						9		
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>31</b>
11:00-11:15						5		2
11:15-11:30						6		
11:30-11:45						11		
11:45-12:00						3		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>27</b>
12:00-12:15						3		3
12:15-12:30						2		1
12:30-12:45						3		2
12:45-1:00						12		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>27</b>
1:00-1:15						3		1
1:15-1:30						5		
1:30-1:45						3		
1:45-2:00						12		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>24</b>

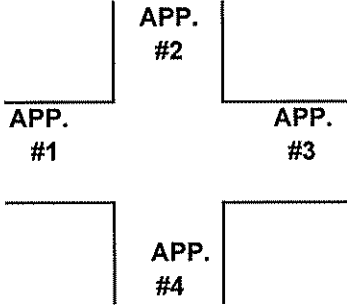


**COUNT LOCATION:**

CSAH 17 (LEXINGTON AVE) @  
CSAH 32 (CRJ/85TH AVE)

**DATE:**

1/14/99



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						8	1	1
2:15-2:30						3		5
2:30-2:45						7		3
2:45-3:00						1		3
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>32</b>
3:00-3:15						7		5
3:15-3:30						9		5
3:30-3:45						8		2
3:45-4:00						12		16
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>64</b>
4:00-4:15						5		3
4:15-4:30						3		3
4:30-4:45						9		1
4:45-5:00						5		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>31</b>
5:00-5:15						10		1
5:15-5:30						8		1
5:30-5:45						5		4
5:45-6:00						3		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>34</b>
6:00-6:15						5		2
6:15-6:30						3		2
6:30-6:45						3		2
6:45-7:00						2		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>20</b>
7:00-7:15						2		
7:15-7:30						1		
7:30-7:45								
7:45-8:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>4</b>
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		