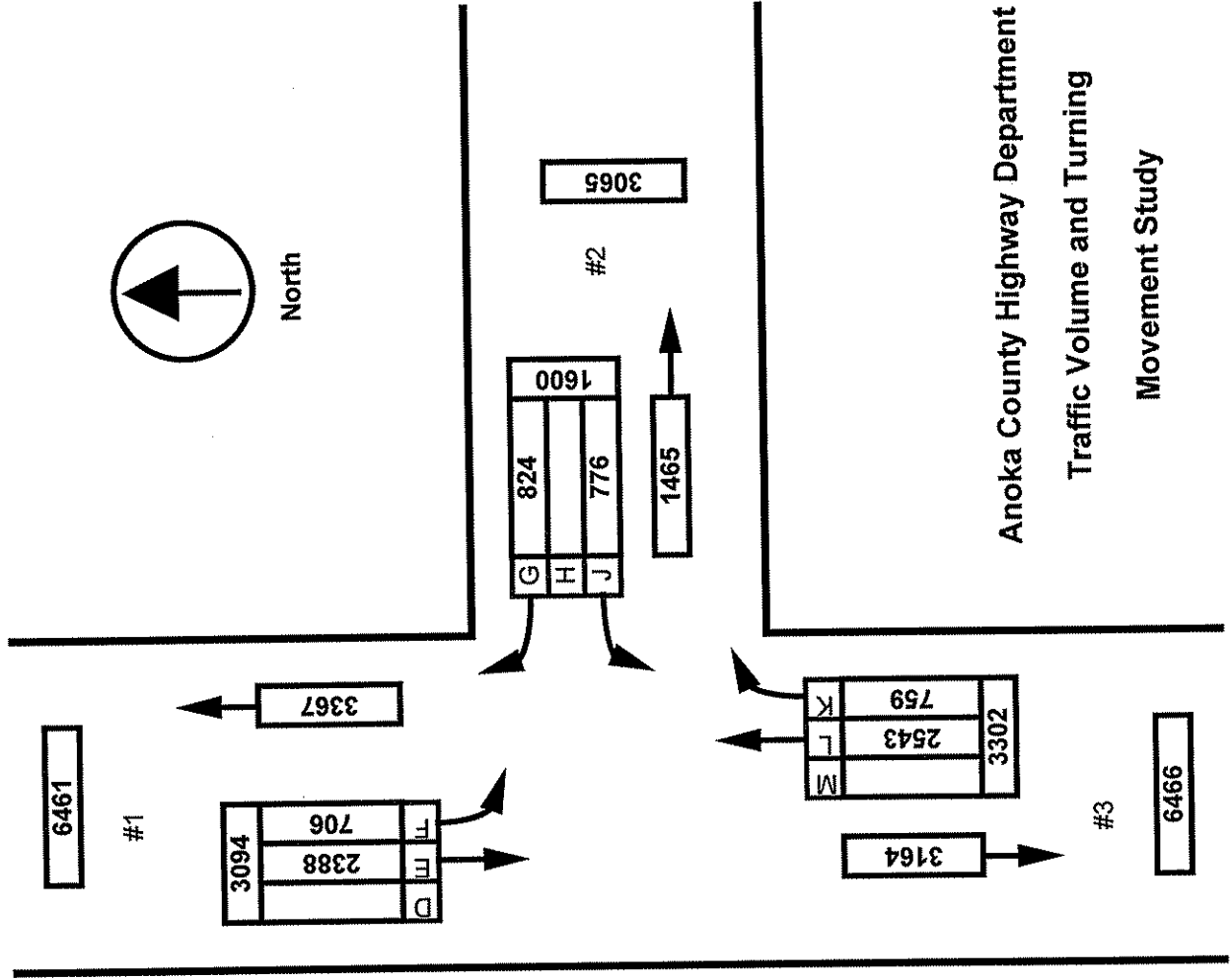


Date : 4/6-4/8/98
 Count Number : TMC9803
 Location CSAH 35 (OLD CENTRAL AVE.)
@ 69TH AVE.



Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

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

PETRA Software

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Jamar Technologies, Inc.

Horsham, PA.

Study Name: TMC9803

Site Code : 98030101

Start Date: 04/06/98

Page : 1

Weather :
 Counted by: Dick, Josie and Randy
 Board # : 1
 Ther :

Vehicle group 1

Start Time	CSAH 35 (Old Central) Southbound			69th Ave. Westbound			CSAH 35 (Old Central) Northbound			Intrvl. Total	Exclude Total	Include Total
	Left	Thru	Other	Left	Right	Other	Thru	Right	Other			
04/06/98												
06:00	3	15	2	7	5	1	23	5	0	61	3	58
06:15	4	18	3	7	16	2	33	2	0	85	5	80
06:30	6	24	2	16	13	3	45	10	1	120	6	114
06:45	5	33	2	16	21	1	59	14	1	152	4	148
Hour	18	90	9	46	55	7	160	31	2	418	18	400
07:00	14	37	3	10	14	1	70	17	0	166	4	162
07:15	8	25	4	19	24	1	82	27	2	192	7	185
07:30	10	31	3	19	31	2	85	45	3	229	8	221
07:45	12	39	6	8	27	2	107	40	4	245	12	233
Hour	44	132	16	56	96	6	344	129	9	832	31	801
08:00	9	42	6	21	26	1	82	57	0	244	7	237
08:15	12	21	4	15	23	1	75	41	4	196	9	187
08:30	9	32	4	13	10	4	64	31	2	169	10	159
08:45	16	29	4	13	25	1	57	18	4	167	9	158
Hour	46	124	18	62	84	7	278	147	10	776	35	741
09:00	14	26	2	13	16	1	31	16	2	121	5	116
09:15	8	22	5	6	10	3	30	10	1	95	9	86
09:30	11	29	3	3	14	0	35	14	2	111	5	106
09:45	11	28	4	5	14	0	41	13	3	119	7	112
Hour	44	105	14	27	54	4	137	53	8	446	26	420
10:00	12	30	5	10	7	1	27	3	0	95	6	89
10:15	9	30	5	7	13	2	46	11	2	125	9	116
10:30	13	32	0	7	10	1	21	6	0	90	1	89
10:45	5	35	2	7	13	1	47	6	3	119	6	113
Hour	39	127	12	31	43	5	141	26	5	429	22	407
11:00	11	51	3	18	17	2	35	4	5	146	10	136
11:15	16	52	4	19	18	2	36	6	2	155	8	147
11:30	26	66	3	18	24	5	42	9	5	198	13	185
11:45	16	62	3	16	24	3	43	7	3	177	9	168
Hour	69	231	13	71	83	12	156	26	15	676	40	636
12:00	17	75	2	14	20	0	50	10	6	194	8	186
12:15	7	57	7	11	15	1	53	7	2	160	10	150
12:30	19	38	3	8	18	1	63	15	2	167	6	161
12:45	16	41	2	7	24	1	55	12	1	159	4	155
Hour	59	211	14	40	77	3	221	44	11	680	28	652

PETRA Software

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Horsham, PA.

Study Name: TMC9803

Site Code : 98030101

Start Date: 04/06/98

Page : 2

Weather :
 Counted by: Dick, Josie and Randy
 Board # : 1
 Ther :

Vehicle group 1

Start Time	CSAH 35 (Old Central) Southbound			69th Ave. Westbound			CSAH 35 (Old Central) Northbound			Intrvl. Total	Exclude Total	Include Total
	Left	Thru	Other	Left	Right	Other	Thru	Right	Other			
13:00	16	44	5	9	13	1	66	11	1	166	7	159
13:15	7	32	4	13	11	0	56	12	2	137	6	131
13:30	9	29	2	6	16	2	34	10	3	111	7	104
13:45	8	39	3	11	12	1	48	10	1	133	5	128
Hour	40	144	14	39	52	4	204	43	7	547	25	522
14:00	3	43	0	17	10	3	42	7	3	128	6	122
14:15	15	49	6	10	12	2	47	11	1	153	9	144
14:30	19	53	1	11	22	0	52	11	2	171	3	168
14:45	12	55	6	11	17	0	57	10	3	171	9	162
Hour	49	200	13	49	61	5	198	39	9	623	27	596
15:00	21	83	2	16	16	2	51	15	4	210	8	202
15:15	17	68	2	14	17	2	54	21	5	200	9	191
15:30	16	53	1	14	18	0	41	9	1	153	2	151
15:45	19	70	5	9	24	2	50	17	2	198	9	189
Hour	73	274	10	53	75	6	196	62	12	761	28	733
16:00	36	79	3	29	23	3	59	19	1	252	7	245
16:15	20	69	2	25	18	2	61	15	3	215	7	208
16:30	40	106	1	34	19	4	62	23	2	291	7	284
16:45	27	77	0	28	16	0	81	16	2	247	2	245
Hour	123	331	6	116	76	9	263	73	8	1005	23	982
17:00	45	135	5	55	20	0	56	24	2	342	7	335
17:15	23	116	2	45	13	1	67	24	1	292	4	288
17:30	13	85	0	43	23	0	59	20	2	245	2	243
17:45	21	83	1	43	12	1	63	18	3	245	5	240
Hour	102	419	8	186	68	2	245	86	8	1124	18	1106
Total	706	2388	147	776	824	70	2543	759	104	8317	321	7996
% Apr.	21.7	73.6	4.5	46.4	49.3	4.1	74.6	22.2	3.0	-	-	-
% Int.	8.4	28.7	1.7	9.3	9.9	0.8	30.5	9.1	1.2	-	-	-

Major Street Approaches:

Northbound:

CSAH 35 (Old Central)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9803.PDF
 Count Type: IMC. Channel: 0. Count Date: 4/ 6/98
 Number of Lanes: 1
 Approach Speed: 40
 Total Approach Traffic: 3302

Southbound:

CSAH 35 (Old Central)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9803.PDF
 Count Type: IMC. Channel: 0. Count Date: 4/ 6/98
 Number of Lanes: 1
 Approach Speed: 40
 Total Approach Traffic: 3094

Minor Street Approaches:

Eastbound:

69th Ave.

Data File: C:\APPS\PETRA2\DATAFILE\TMC9803.PDF
 Count Type: IMC. Channel: 0. Count Date: 4/ 6/98
 Number of Lanes: 1
 Approach Speed: 0
 Total Approach Traffic: 0

Westbound:

69th Ave.

Data File: C:\APPS\PETRA2\DATAFILE\TMC9803.PDF
 Count Type: IMC. Channel: 0. Count Date: 4/ 6/98
 Number of Lanes: 2
 Approach Speed: 0
 Total Approach Traffic: 1600

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

Hour	Main (Total)	Side			Warrant 1		Warrant 2		Warrant 8	
		Vol.	Dir.	Rank	Meets?	Criteria	Meets?	Criteria	Meets?	Criteria
0	0	0	W	13		200		100		160
1	0	0	W	14		200		100		160
2	0	0	W	15		200		100		160
3	0	0	W	16		200		100		160
4	0	0	W	17		200		100		160
5	0	0	W	18		200		100		160
6	299	101	W	9		200	SIDE	100		160
7	649	152	W	4	MAIN	200	SIDE	100	MAIN	160
8	595	146	W	5	MAIN	200	SIDE	100		160
9	339	81	W	11		200		100		160
10	333	74	W	12		200		100		160
11	482	154	W	3		200	SIDE	100		160
12	535	117	W	7	MAIN	200	SIDE	100		160
13	431	91	W	10		200		100		160
14	486	110	W	8		200	SIDE	100		160
15	605	128	W	6	MAIN	200	SIDE	100	MAIN	160
16	790	192	W	2	MAIN	200	--BOTH--	100	--BOTH--	160
17	852	254	W	1	--BOTH--	200	--BOTH--	100	--BOTH--	160
18	0	0	W	19		200		100		160
19	0	0	W	20		200		100		160
20	0	0	W	21		200		100		160
21	0	0	W	22		200		100		160
22	0	0	W	23		200		100		160
23	0	0	W	24		200		100		160

Warrant Summary:

Urban values apply.

Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 1 hours. Criteria--Main St.: 500; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

NOT SATISFIED. Required values reached for 2 hours. Criteria--Main St.: 750; 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: 1106.

- 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 2 hours. Criteria--Main: 600; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

NOT SATISFIED. Required values reached for 2 hours.

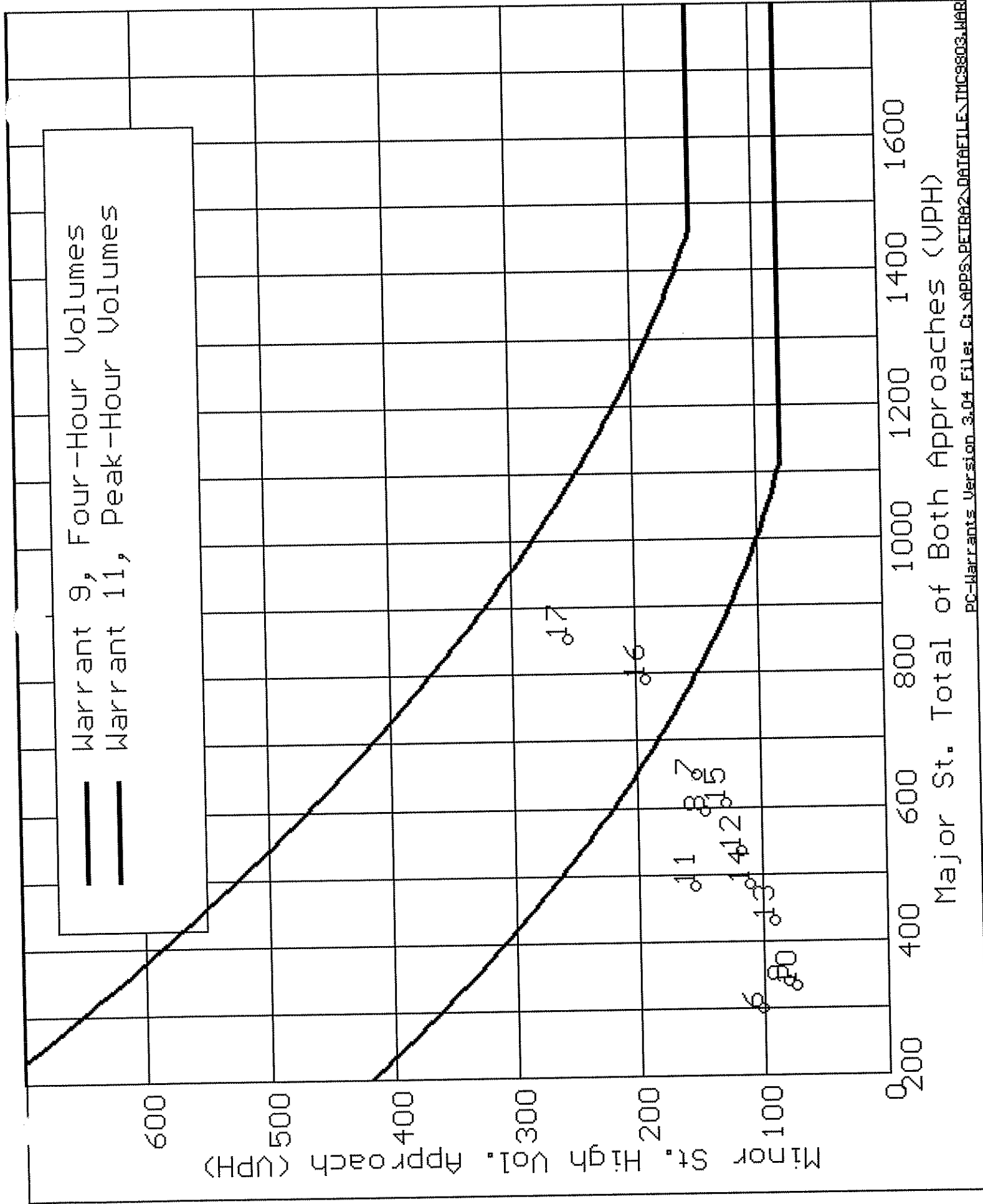
Warrant 10 - Peak Hour Delay

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

NOT SATISFIED.



Major St. Total of Both Approaches (UPH)


NORTH

APP. #1=SB CSAH 35 (OLD CENTRAL AVE)
APP. #2 =WB 69TH AVE.
APP. #3=NB CSAH 35 (OLD CENTRAL AVE)

COUNT LOCATION:

CSAH 35 (OLD CENTRAL AVE.) @
69th AVE.

DATE:

4/7/98-4/8/98

APP.
#1

APP.
#2

APP.
#3

- 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			2		2	1		2
6:15-6:30						4		1
6:30-6:45			1	1	2	3		4
6:45-7:00		2	1		3	2		2
HOURLY TOTAL					7	HOURLY TOTAL		19
7:00-7:15		2	1		3	2		1
7:15-7:30			1	1	2	2		4
7:30-7:45			1	1	2	5		4
7:45-8:00			3		3	8		3
HOURLY TOTAL					10	HOURLY TOTAL		29
8:00-8:15				1	1	3		1
8:15-8:30			1	1	2	5		4
8:30-8:45						6		4
8:45-9:00		1			1	6		1
HOURLY TOTAL					4	HOURLY TOTAL		30
9:00-9:15						2		4
9:15-9:30			1		1	9		
9:30-9:45						4		
9:45-10:00						3		2
HOURLY TOTAL					1	HOURLY TOTAL		24
10:00-10:15				1	1	6		
10:15-10:30						7		2
10:30-10:45						1		
10:45-11:00				1	1	5		1
HOURLY TOTAL					2	HOURLY TOTAL		22
11:00-11:15						8		2
11:15-11:30						8		
11:30-11:45		1				11		2
11:45-12:00						6		3
HOURLY TOTAL						HOURLY TOTAL		40
12:00-12:15			1		1	6		2
12:15-12:30		3	7		10	8		2
12:30-12:45				1	1	5		1
12:45-1:00		3		1	4	3		1
HOURLY TOTAL					16	HOURLY TOTAL		28
1:00-1:15						6	1	1
1:15-1:30						5	1	
1:30-1:45				1	1	7		
1:45-2:00						3		2
HOURLY TOTAL					1	HOURLY TOTAL		26



NORTH

APP. #1=SB CSAH 35
(OLD CENTRAL AVE)
APP. #2 =WB 69TH AVE.
APP. #3=NB CSAH 35
(OLD CENTRAL AVE)

COUNT LOCATION:

CSAH 35 (OLD CENTRAL AVE.) @
69th AVE.

DATE:

4/6/98

APP.
#1

APP.
#2

APP.
#3

- 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		1			1	6		
2:15-2:30		2	1		3	9		2
2:30-2:45						3		2
2:45-3:00		1			1	7		
HOURLY TOTAL					5	HOURLY TOTAL		29
3:00-3:15			2	1	3	2		6
3:15-3:30						4	1	4
3:30-3:45						1		1
3:45-4:00						5		5
HOURLY TOTAL					3	HOURLY TOTAL		29
4:00-4:15		1			1	5		1
4:15-4:30						3		2
4:30-4:45			1		1	5		2
4:45-5:00				1	1	1		1
HOURLY TOTAL					3	HOURLY TOTAL		20
5:00-5:15						4		3
5:15-5:30				1	1	2		2
5:30-5:45						1		1
5:45-6:00			1		1	1		4
HOURLY TOTAL					2	HOURLY TOTAL		18
6:00-6:15								
6:15-6:30								
6:30-6:45								
6:45-7:00								
HOURLY TOTAL						HOURLY TOTAL		
7:00-7:15								
7:15-7:30								
7:30-7:45								
7:45-8:00								
HOURLY TOTAL						HOURLY TOTAL		
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		