

Date : 12/12AM 12/14AM 12/21/95PM

Count Number : TMC9532

Location : TH 47 (ST FRANCIS BLVD) @

CSAH 116 (INDUSTRY AVE)

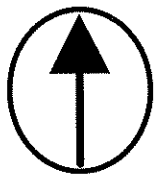
EB CSAH 116

5268

#2

D	550
E	1674
T	482
2706	

2562



North

SB TH 47

10144

#1

A	469
B	3626
C	433
4528	

5616

G	499
H	4330
J	1950
6779	

#3

13098

6319

NB TH 47

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

M	736
L	1630
K	2211
4577	

4093

#4

8670

WB CSAH 116

Anoka County Highway Department  
Traffic Volume and Turning  
Movement Study

ANOKA COUNTY HIGHWAY DEPARTMENT

TRAFFIC ENGINEERING SECTION

TRAFFIC VOLUME AND

TURNING MOVEMENT STUDY

Counter : TDC EIGHT

Counted by JOSIE/DICK

Site : 95320201  
 Start Date: 12/21/95  
 File I.D. : TMC9532  
 Page : 1

Vehicle group 1

Date	TH 47 Southbound				CSAH 116 (INDUSTRY AVE) Westbound				TH 47 Northbound				CSAH 116 (INDUSTRY AVE) Eastbound				Vehicle Total	
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Vehicle Total	Other Total
06:00	2	4	152	34	0	5	29	8	0	2	9	4	0	8	16	3	274	2
06:15	1	4	180	33	0	11	18	16	0	5	13	1	0	9	12	2	304	1
06:30	5	11	162	38	0	11	51	17	0	4	9	8	0	8	24	2	345	5
06:45	2	11	159	69	0	17	55	12	0	5	22	7	3	10	46	2	415	5
Hr Total	10	30	653	174	0	44	153	53	0	16	53	20	3	35	98	9	1338	13
07:00	4	10	126	65	0	18	49	30	0	9	15	11	4	20	69	8	430	8
07:15	7	8	126	83	0	26	50	25	0	10	30	10	3	31	76	8	483	10
07:30	7	9	165	50	0	27	52	26	0	5	32	9	2	9	22	3	409	9
07:45	10	21	151	38	0	16	49	17	0	1	31	8	4	19	19	4	374	14
Hr Total	28	48	568	236	0	87	200	98	0	25	108	38	13	79	186	23	1696	41
08:00	6	7	109	30	0	17	40	12	0	12	34	11	5	15	30	2	319	11
08:15	2	9	107	27	0	10	29	9	0	1	34	10	4	6	18	2	262	6
08:30	7	9	98	31	0	10	24	9	0	5	35	3	5	6	8	4	242	12
08:45	12	11	115	37	0	12	17	4	1	5	38	7	3	11	14	6	277	16
Hr Total	27	36	429	125	0	49	110	34	1	23	141	31	17	38	70	14	1100	45
09:00	15	4	95	44	0	19	26	14	0	11	31	6	2	10	17	3	280	17
09:15	7	12	84	16	0	23	17	11	0	5	35	11	4	10	10	2	236	11
09:30	5	11	68	21	0	9	12	10	0	4	23	8	4	10	14	1	191	9
09:45	6	7	58	13	0	13	13	9	0	3	20	9	1	7	11	2	165	7
Hr Total	33	34	305	94	0	64	68	44	0	23	109	34	11	37	52	8	872	44
10:00	2	8	38	13	0	18	24	7	0	3	18	4	4	6	14	3	156	6
10:15	4	10	57	16	0	11	25	6	0	3	21	7	3	8	12	9	185	7
10:30	3	6	56	20	0	23	9	3	0	3	35	6	3	3	14	4	182	6
10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hr Total	9	24	151	49	0	52	58	16	0	9	74	17	10	17	40	16	523	19
11:00	4	7	64	25	3	23	19	9	1	3	39	5	3	9	18	5	226	11
11:15	5	7	59	27	0	15	16	11	0	8	28	8	2	10	23	7	219	7
11:30	7	10	51	32	0	19	19	12	0	10	29	12	5	9	22	10	235	12
11:45	5	4	65	21	0	21	25	12	0	7	55	9	3	13	25	5	262	8
Hr Total	21	28	239	105	3	78	79	44	1	28	151	34	13	41	88	27	942	38
12:00	6	9	69	20	0	32	21	9	0	11	52	7	3	16	34	4	284	9
12:15	8	12	55	27	0	26	30	10	0	2	37	6	7	8	34	13	260	15
12:30	6	6	62	23	0	16	27	10	0	8	46	4	1	13	20	8	243	7
12:45	8	9	58	27	0	36	17	11	0	9	43	3	2	6	10	3	232	10
Hr Total	28	36	244	97	0	110	95	40	0	30	178	20	13	43	98	28	1019	41

ANOKA COUNTY HIGHWAY DEPARTMENT  
 TRAFFIC ENGINEERING SECTION  
 TRAFFIC VOLUME AND  
 TURNING MOVEMENT STUDY

Site : 95320201  
 Start Date: 12/21/95  
 File I.D. : TMC9532  
 Page : 2

Counter : TDC EIGHT  
 Counted by JOSIE/DICK

Vehicle group 1

Date 12/21/95	TH 47 Southbound				CSAH 116 (INDUSTRY AVE) Westbound				TH 47 Northbound				CSAH 116 (INDUSTRY AVE) Eastbound				Vehicle		
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Total	Other	Total
13:00	5	9	53	29	0	21	21	10	10	0	11	37	7	2	4	25	6	233	7
13:15	4	6	47	33	0	34	16	10	10	0	2	40	6	2	7	16	10	227	6
13:30	4	7	40	22	0	36	19	4	4	0	7	64	8	3	3	13	6	229	7
13:45	6	8	57	25	0	26	19	8	8	0	6	41	2	1	7	16	6	221	7
Hr Total	19	30	197	109	0	117	75	32	32	0	26	182	23	8	21	70	28	910	27
14:00	4	6	71	28	0	29	13	10	10	0	8	64	8	2	6	29	10	282	6
14:15	3	7	68	21	0	56	53	21	21	0	2	66	6	5	6	22	8	336	8
14:30	4	18	70	25	0	70	40	26	26	2	21	62	7	5	13	30	10	392	11
14:45	9	2	59	34	2	39	21	14	14	0	10	83	8	2	7	39	12	328	13
Hr Total	20	33	268	108	2	194	127	71	71	2	41	275	29	14	32	120	40	1338	38
15:00	5	10	68	29	0	41	24	13	13	0	6	87	11	4	13	35	7	344	9
15:15	8	14	70	30	0	65	38	20	20	0	4	101	14	1	6	34	11	407	9
15:30	5	8	77	40	0	62	25	12	12	0	11	121	8	5	17	54	19	454	10
15:45	9	8	65	54	0	70	42	20	20	1	12	147	8	3	15	45	13	499	13
Hr Total	27	40	280	153	0	238	129	65	65	1	33	456	41	13	51	168	50	1704	41
16:00	10	11	56	45	0	72	34	14	14	0	18	148	7	3	20	58	19	502	13
16:15	7	14	63	44	0	98	37	25	25	0	22	122	18	5	15	56	28	542	12
16:30	7	9	69	48	0	64	41	13	13	0	16	157	9	1	10	56	13	505	8
16:45	4	6	65	40	2	65	34	11	11	0	12	160	15	2	19	64	13	504	8
Hr Total	28	40	253	177	2	299	146	63	63	0	68	587	49	11	64	234	73	2053	41
17:00	2	14	73	41	0	81	43	12	12	0	18	107	11	3	10	56	16	482	5
17:15	1	12	77	45	3	93	41	10	10	0	16	132	10	1	13	58	18	525	5
17:30	1	11	62	30	0	95	38	16	16	0	13	152	12	0	7	42	21	499	1
17:45	4	7	63	58	0	97	43	18	18	0	10	120	10	0	6	47	11	490	4
Hr Total	8	44	275	174	3	366	165	56	56	0	57	511	43	4	36	203	66	1996	15
18:00	1	12	60	42	0	90	37	20	20	0	11	143	16	2	11	37	20	499	3
18:15	0	12	74	48	0	93	42	24	24	1	19	120	6	0	7	43	9	497	1
18:30	3	10	70	41	0	71	25	12	12	0	9	125	7	0	7	35	15	427	3
18:45	1	5	69	52	0	62	29	16	16	0	14	94	7	0	7	29	19	403	1
Hr Total	5	39	273	183	0	316	133	72	72	1	53	482	36	2	32	144	63	1826	8
19:00	2	7	60	48	0	56	25	16	16	0	13	75	4	0	7	25	4	340	2
19:15	1	13	48	41	0	42	22	10	10	0	5	97	6	0	8	38	6	336	1
19:30	1	9	56	43	0	48	23	13	13	0	8	78	3	0	6	16	13	316	1
19:45	0	8	31	34	0	51	22	9	9	0	11	69	5	0	3	24	14	281	0
Hr Total	4	37	195	166	0	197	92	48	48	0	37	319	18	0	24	103	37	1273	4

ANOKA COUNTY HIGHWAY DEPARTMENT  
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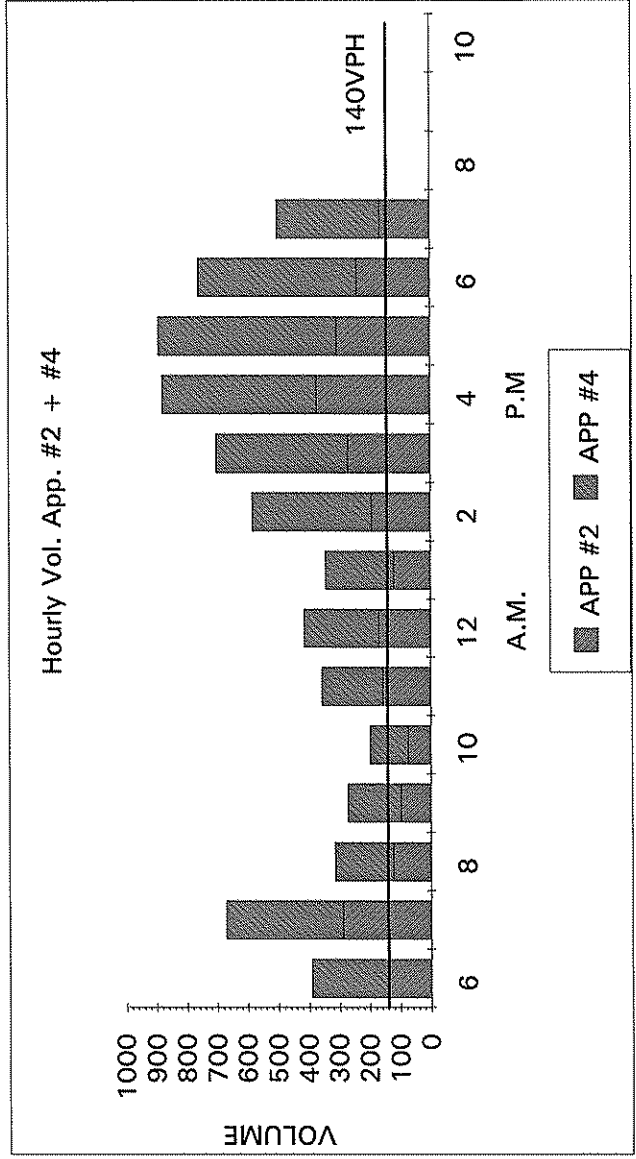
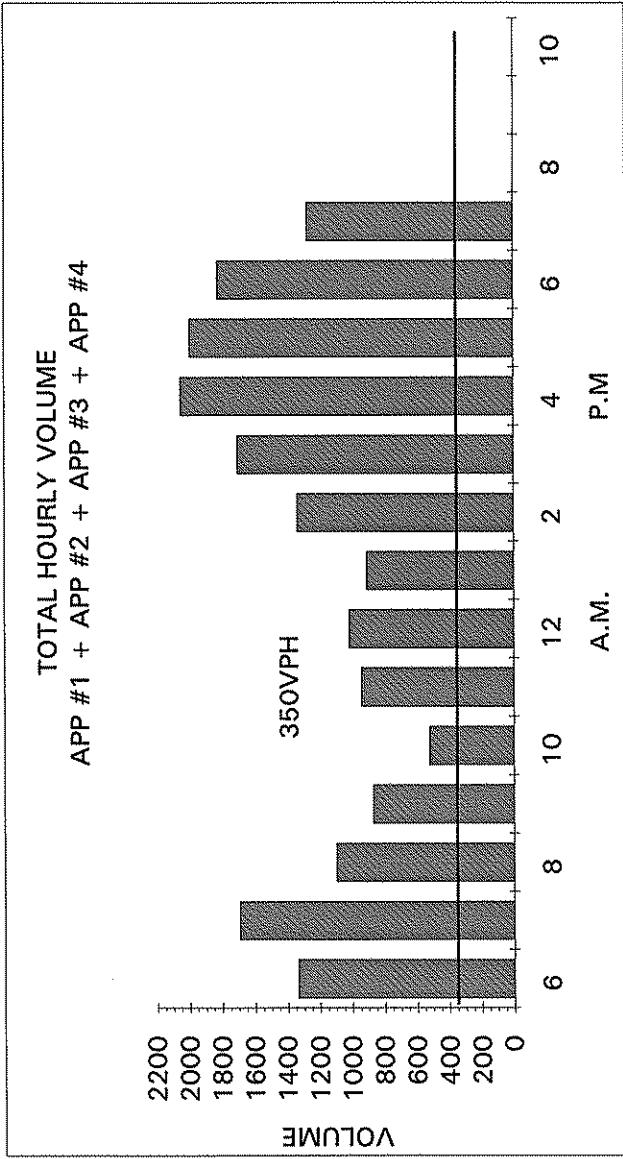
Vehicle group 1

TH 47 Southbound	CSAH 116 (INDUSTRY AVE) Westbound			TH 47 Northbound			CSAH 116 (INDUSTRY AVE) Eastbound			Vehicle Total	Other Total					
	Right	Thru	Left	Right	Thru	Left	Other	Right	Thru			Left				
499	4330	1950	10	2211	1630	736	6	469	3626	433	132	550	1674	482	18590	415

\*TOTAL\* 267 499 4330 1950 10 2211 1630 736 6 469 3626 433 132 550 1674 482 18590 415

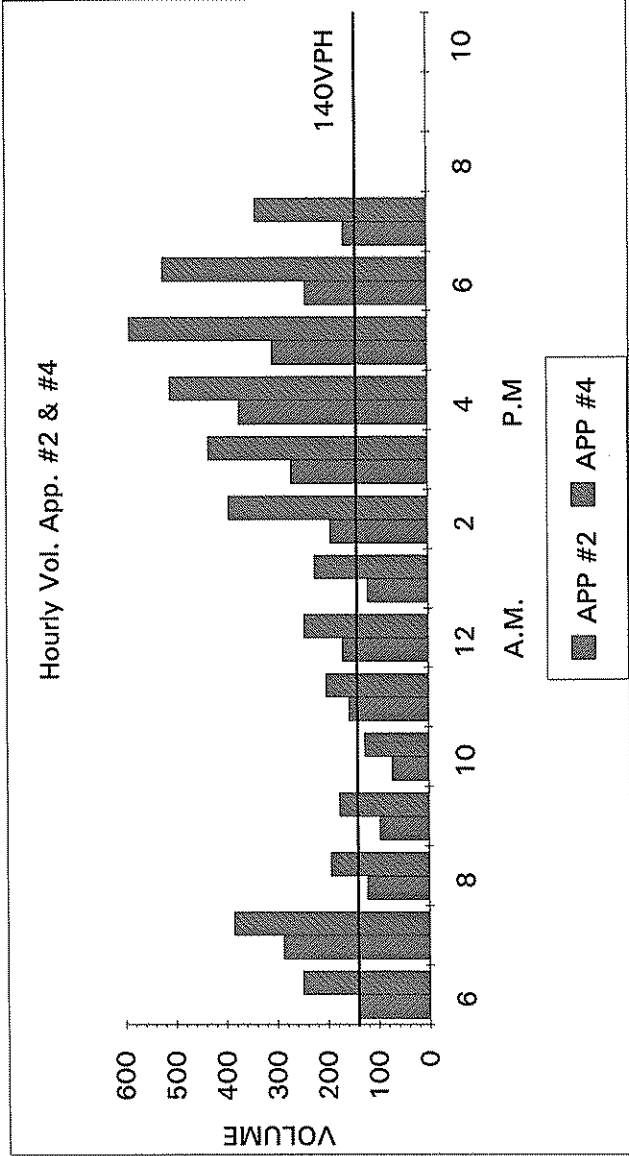
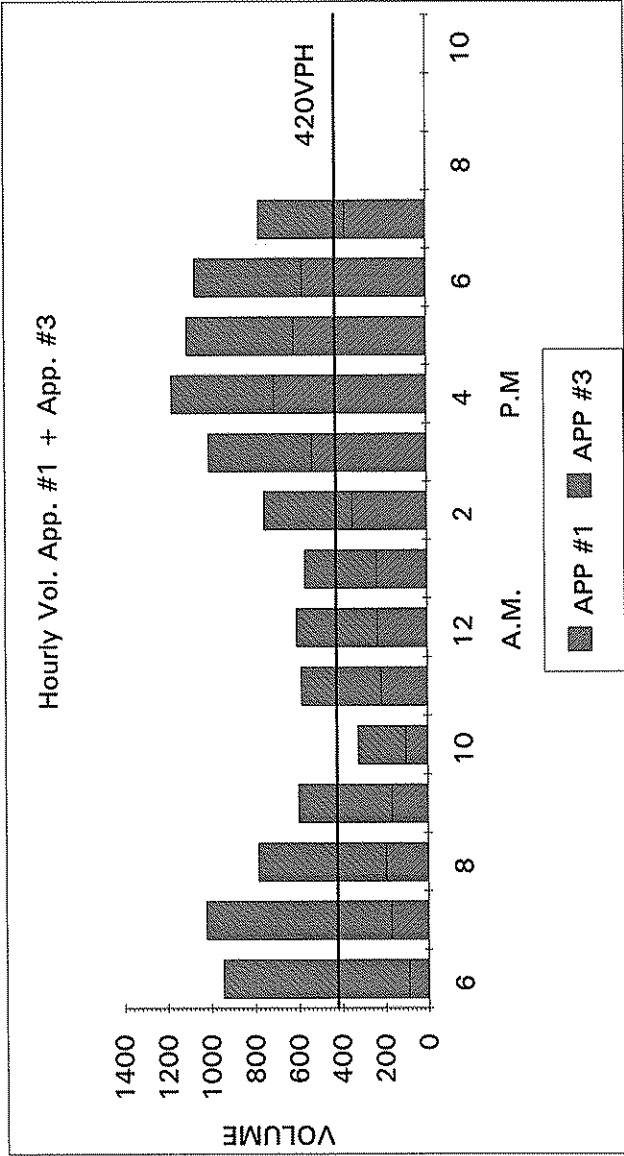
Date 12/21/95

TMC9532 STOP WARRANT STUDY

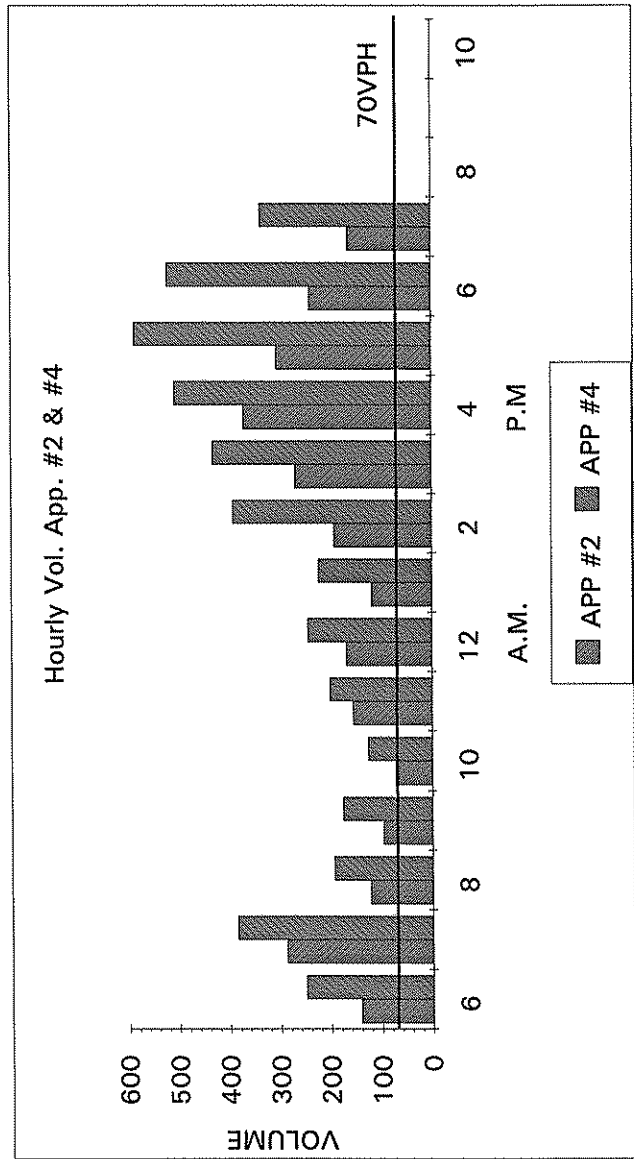
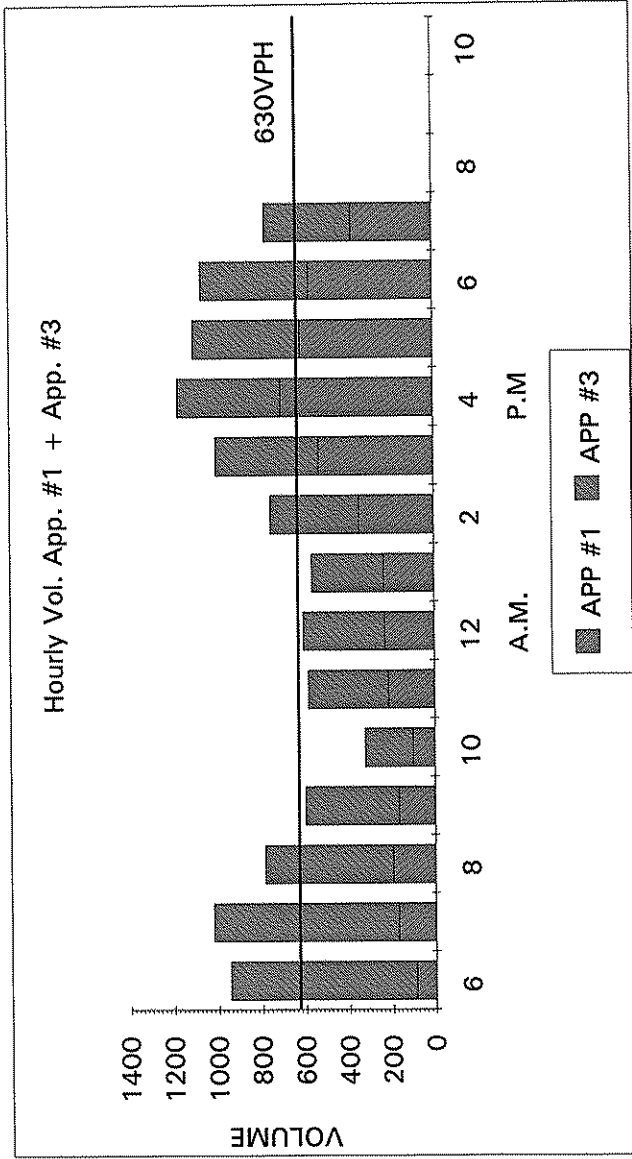


TH 47 (ST FRANCIS BLVD) @ CSAH 116 (INDUSTRY AVE)

TMC9532 SIGNAL WARRANT 1 STUDY



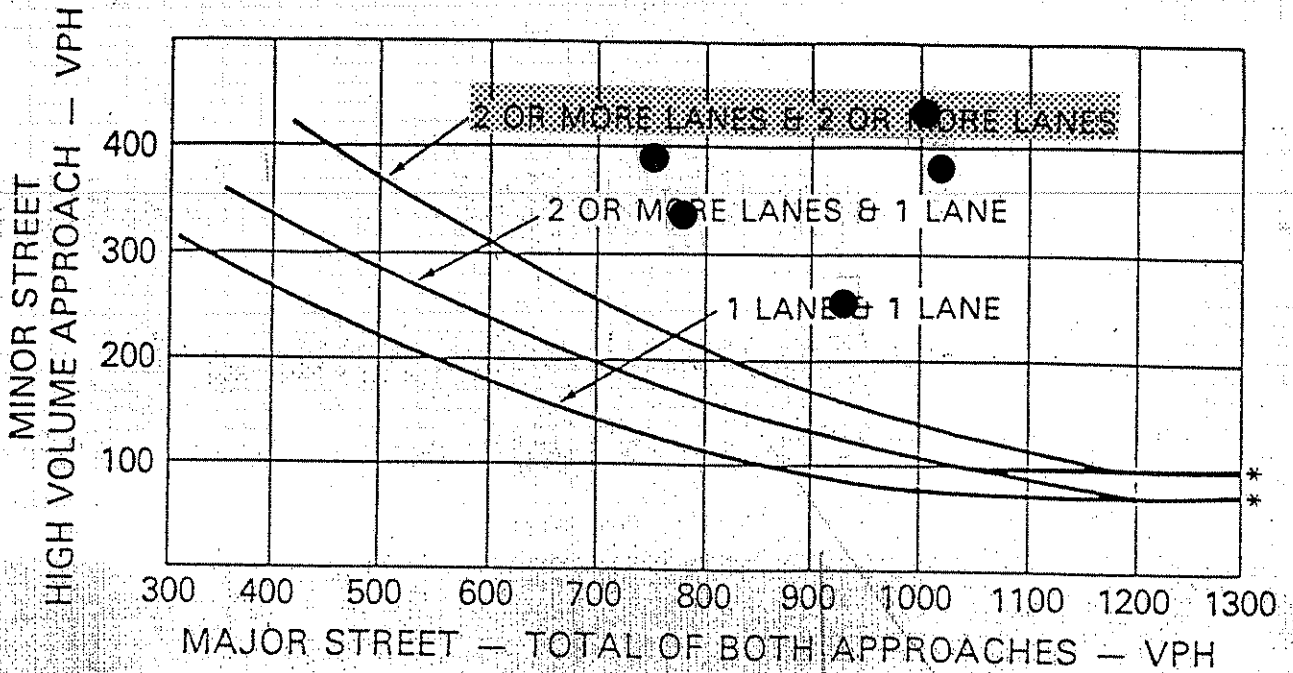
TMC9532 SIGNAL WARRANT 2 STUDY



TH 47 (ST FRANCIS BLVD) @ CSAH 116 (INDUSTRY AVE)

# FIGURE 4-6. PEAK HOUR VOLUME WARRANT

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



\*NOTE: 100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

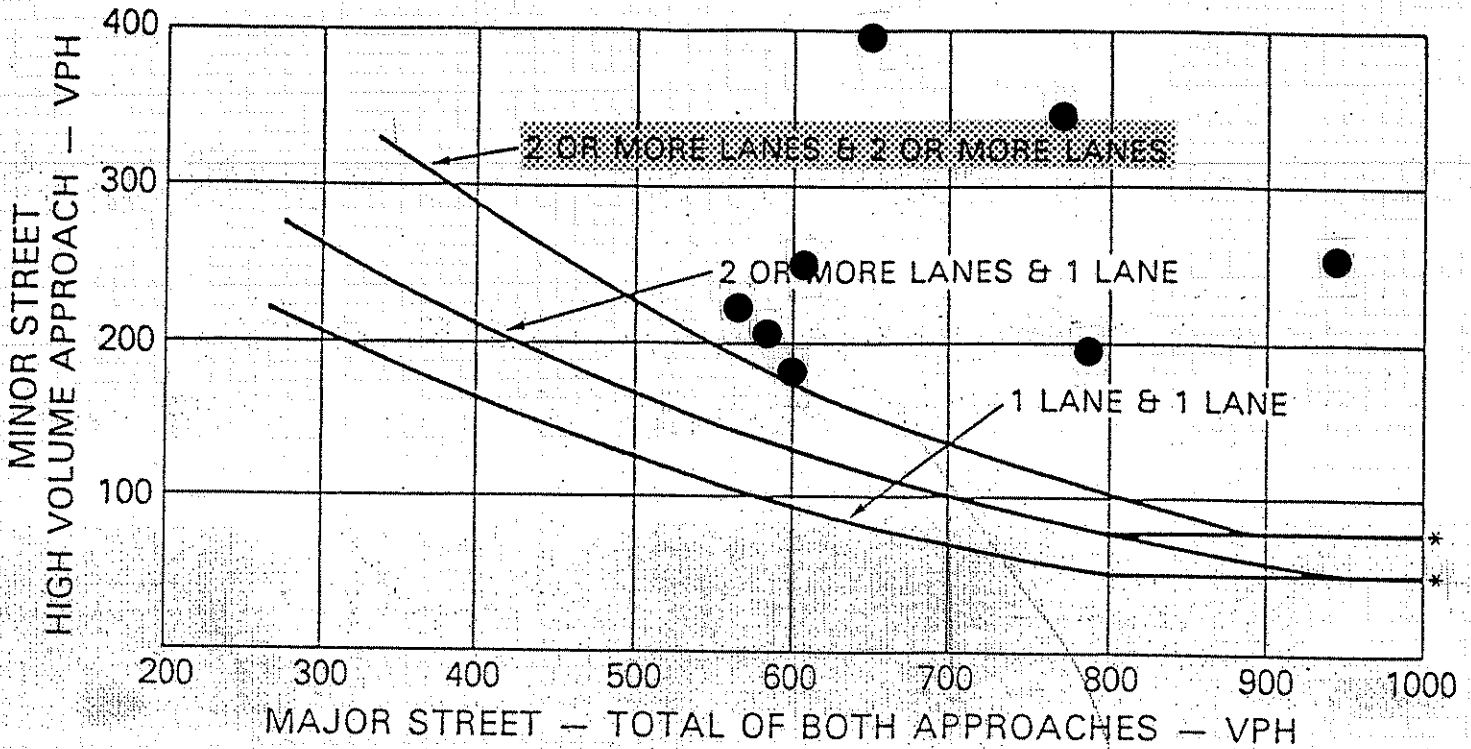
★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
● 6-7 am	946	250
● 7-8 am	1023	385
8-9 am	785	193
9-10 am	599	176
10-11 am	324	126
11-12 pm	585	201
12-1 pm	605	245
1-2 pm	567	224
● 2-3 pm	754	392
● 3-4 pm	1003	432
★ 4-5 pm	1174	508
★ 5-6 pm	1104	587
★ 6-7 pm	1066	521
● 7-8 pm	772	337
8-9 pm	0	0
9-10 pm	0	0

TH 47 (ST FRANCIS BLVD) @ CSAH 116 (INDUSTRY AVE)



**FIGURE 4-8. FOUR HOUR VOLUME WARRANT**  
 (COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



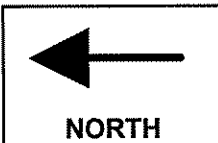
\*NOTE: 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 60 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
● 6-7 am	946	250
★ 7-8 am	1023	385
● 8-9 am	785	193
● 9-10 am	599	176
● 10-11 am	324	126
● 11-12 pm	585	201
● 12-1 pm	605	245
● 1-2 pm	567	224
● 2-3 pm	754	392
★ 3-4 pm	1003	432
★ 4-5 pm	1174	508
★ 5-6 pm	1104	587
★ 6-7 pm	1066	521
● 7-8 pm	772	337
● 8-9 pm	0	0
● 9-10 pm	0	0

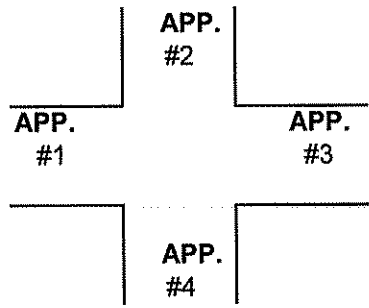
**TH 47 (ST FRANCIS BLVD) @ CSAH 116 (INDUSTRY AVE)**



**COUNT LOCATION:** CSAH 116 (INDUSTRY AVE) @  
TH 47 (ST FRANCIS BLVD)

**DATE:** 12/12/95  
12/14/95

**NORTH**  
APP. #1= SB TH 47  
(ST FRANCIS BLVD)  
APP. #2= WB CSAH 116  
(INDUSTRY AVE)  
APP. #3= NB TH 47  
(ST FRANCIS BLVD)  
APP. #4= EB CSAH 116  
(INDUSTRY 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
6:00-6:15AM						3		
6:15-6:30						1		5
6:30-6:45						5		2
6:45-7:00						7		7
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>30</b>
7:00-7:15						10		10
7:15-7:30						3		12
7:30-7:45						6		14
7:45-8:00						5		9
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>69</b>
8:00-8:15						14		10
8:15-8:30						11		7
8:30-8:45						14		8
8:45-9:00						14		5
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>83</b>
9:00-9:15						9		15
9:15-9:30						15		6
9:30-9:45				2	2	12		
9:45-10:00						18		
<b>HOURLY TOTAL</b>					<b>2</b>	<b>HOURLY TOTAL</b>		<b>75</b>
10:00-10:15						11		1
10:15-10:30						15		
10:30-10:45						9		
10:45-11:00						18		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>54</b>
11:00-11:15						10		
11:15-11:30						10		
11:30-11:45						16		4
11:45-12:00						9		10
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>59</b>
12:00-12:15	2				2	13		9
12:15-12:30						16		2
12:30-12:45						5		8
12:45-1:00						16		4
<b>HOURLY TOTAL</b>					<b>2</b>	<b>HOURLY TOTAL</b>		<b>73</b>
1:00-1:15						10		1
1:15-1:30						8		2
1:30-1:45						11		2
1:45-2:00						12		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>48</b>

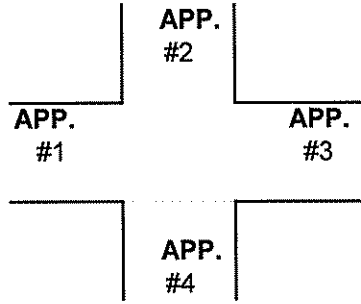


**NORTH**

APP. #1= SB TH 47  
(ST FRANCIS BLVD)  
APP. #2= WB CSAH 116  
(INDUSTRY AVE)  
APP. #3= NB TH 47  
(ST FRANCIS BLVD)  
APP. #4= EB CSAH 116  
(INDUSTRY AVE)

**COUNT LOCATION:** CSAH 116 (INDUSTRY AVE) @  
TH 47 (ST FRANCIS BLVD)

**DATE:** 12/14/95  
12/21/95



- 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						14		2
2:15-2:30						14		9
2:30-2:45						14		11
2:45-3:00						6		8
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>78</b>
3:00-3:15						11		9
3:15-3:30						13	1	4
3:30-3:45						9		8
3:45-4:00						9		14
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>78</b>
4:00-4:15						10		10
4:15-4:30						13		8
4:30-4:45				1	1	2		8
4:45-5:00						6		3
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>60</b>
5:00-5:15						7		
5:15-5:30						5		
5:30-5:45								3
5:45-6:00						4		3
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>22</b>
6:00-6:15						4		
6:15-6:30						1		
6:30-6:45						6		
6:45-7:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>12</b>
7:00-7:15						3		
7:15-7:30						3		
7:30-7:45						1	1	
7:45-8:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>8</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>		