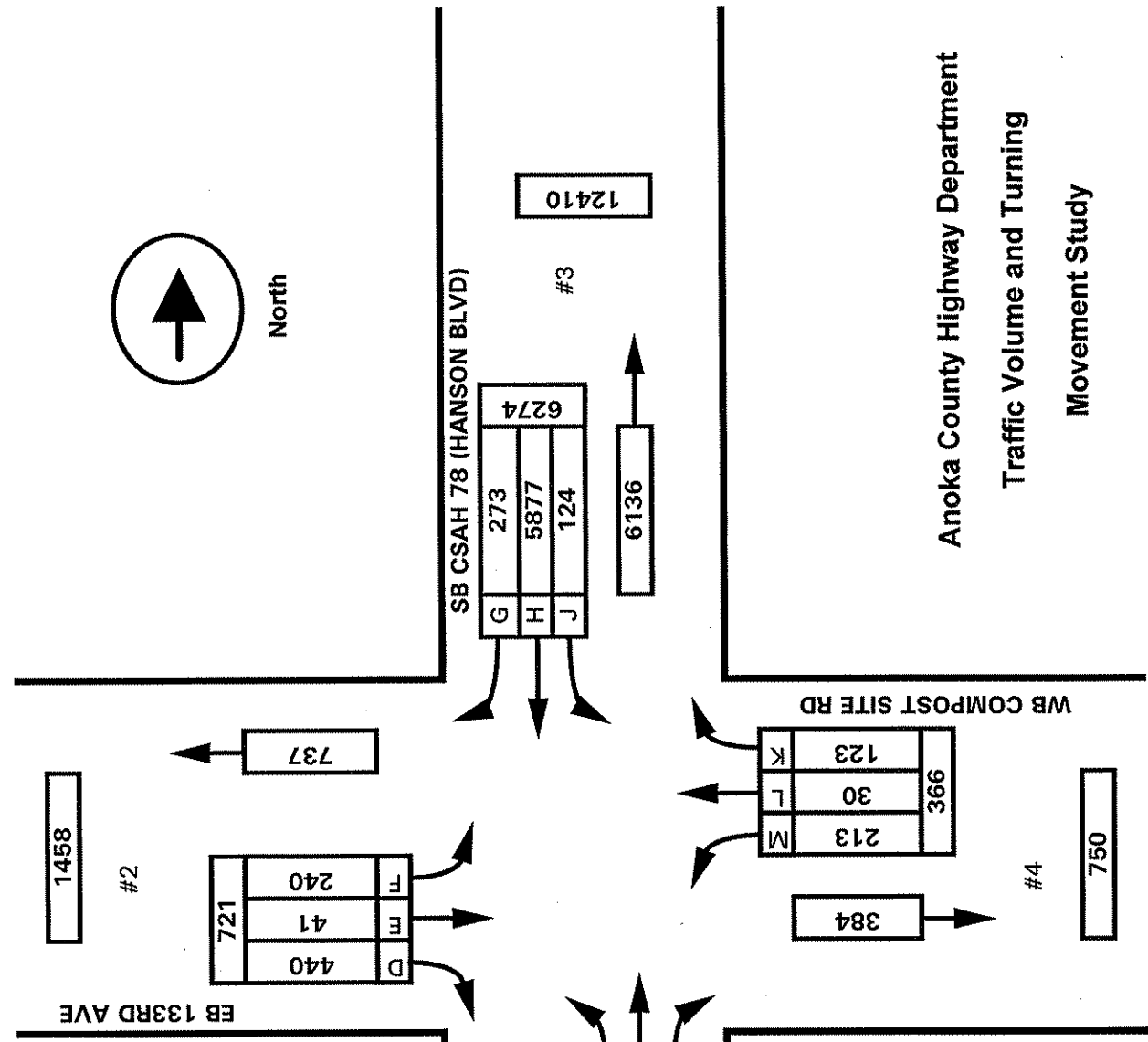
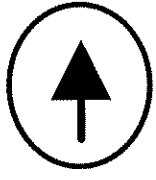


Date: 8/2/95 7/31/95  
 Count Number: TMC9521  
 Location: CSAH 78 (HANSON BLVD) @  
 133RD AVE/COMPOST SITE RD



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

Anoka County Highway Department  
 Traffic Volume and Turning  
 Movement Study



North

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

Site C : 95210201  
 Start Date: 08/02/95  
 File I.D. : TMC9521  
 Page : 1

Counter : TDC EIGHT  
 Counted by RANDY BETTINGER

Vehicle group 1

Date 08/02/95	CSAH 78 (HANSON BLVD) Southbound			COMPOST SITE RD Westbound			CSAH 78 (HANSON BLVD) Northbound			133RD AVE. Eastbound			Vehicle Total	Other Total				
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left						
06:00	1	1	148	0	0	0	0	0	1	0	28	1	0	13	0	1	192	2
06:15	3	1	160	0	0	0	0	0	1	0	30	0	0	17	0	3	211	4
06:30	1	2	187	0	0	0	0	0	2	0	39	3	1	14	0	7	252	4
06:45	6	3	196	1	0	0	0	0	4	2	66	1	0	21	0	2	292	10
Hr Total	11	7	691	1	0	0	0	0	8	2	163	5	1	65	0	13	947	20
07:00	9	4	188	2	0	1	0	0	1	1	52	1	0	11	1	4	265	10
07:15	6	1	188	3	0	0	0	3	5	1	67	1	0	13	2	4	283	11
07:30	4	2	153	0	0	0	1	5	7	3	59	2	0	7	0	6	238	11
07:45	7	4	162	2	0	1	0	3	2	1	72	2	0	15	0	6	268	9
Hr Total	26	11	691	7	0	2	1	11	15	6	250	6	0	46	3	20	1054	41
08:00	9	0	114	2	0	0	0	0	7	7	49	3	0	8	0	5	188	16
08:15	10	0	114	3	1	4	1	3	4	3	48	4	1	5	1	1	187	16
08:30	6	3	100	1	0	0	0	2	3	4	55	0	0	15	1	3	184	9
08:45	5	0	110	3	1	0	1	5	5	2	73	3	0	9	1	6	213	11
Hr Total	30	3	438	9	2	4	2	10	19	16	225	10	1	37	3	15	772	52
09:00	4	1	78	3	0	2	0	5	10	7	64	6	0	8	0	1	175	14
09:15	5	3	96	3	0	2	0	7	6	3	40	1	0	8	1	7	171	11
09:30	5	2	63	2	1	8	0	2	12	7	61	0	0	2	0	1	148	18
09:45	7	3	90	4	0	2	0	3	5	4	66	8	0	5	0	5	190	12
Hr Total	21	9	327	12	1	14	0	17	33	21	231	15	0	23	1	14	684	55
10:00	13	5	81	1	1	1	1	6	3	8	58	4	0	6	1	4	176	17
10:15	4	1	82	2	0	1	0	11	3	6	66	2	0	4	0	0	175	7
10:30	4	1	79	5	1	5	0	5	4	6	75	1	0	5	1	2	185	9
10:45	21	9	84	2	1	1	1	5	6	3	75	3	0	3	0	2	188	28
Hr Total	42	16	326	10	3	8	2	27	16	23	274	10	0	18	2	8	724	61
11:00	5	4	63	7	0	2	0	4	7	2	72	4	3	4	1	5	168	15
11:15	10	4	85	2	2	4	2	2	3	3	61	5	0	6	1	7	182	15
11:30	6	1	72	4	0	0	1	4	7	4	64	3	0	2	1	6	162	13
11:45	7	10	95	2	0	1	0	6	6	2	57	6	0	4	1	2	186	13
Hr Total	28	19	315	15	2	7	3	16	23	11	254	18	3	16	4	20	698	56
12:00	3	3	117	3	1	10	1	4	9	8	85	5	1	2	1	6	245	14
12:15	8	6	82	5	0	4	0	8	3	4	77	4	0	4	0	4	198	11
12:30	3	4	76	2	0	1	0	3	6	10	107	7	1	7	1	9	227	10
12:45	6	5	82	6	0	2	0	7	6	3	68	2	1	8	0	4	187	13
Hr Total	20	18	357	16	1	17	1	22	24	25	337	18	3	21	2	23	857	48

TRAFFIC ENGINEERING SECTION  
 TRAFFIC VOLUME AND  
 TURNING MOVEMENT STUDY

Counter CDC EIGHT  
 Counted by RANDY BETTINGER

Vehicle group 1

Date	CSAH 78 (HANSON BLVD) Southbound				COMPOST SITE RD Westbound				CSAH 78 (HANSON BLVD) Northbound				133RD AVE. Eastbound					
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Vehicle Total	Other Total
	08/02/95																	
13:00	4	5	60	0	3	4	0	0	6	1	81	2	0	0	8	1	163	13
13:15	4	4	70	1	0	2	1	1	6	5	82	1	1	1	1	0	174	11
13:30	7	2	71	3	0	1	1	8	8	5	63	6	6	2	0	5	167	16
13:45	2	2	81	4	1	4	0	5	1	5	79	2	1	4	1	2	189	5
Hr Total	17	13	282	8	4	11	2	14	21	16	305	11	3	15	2	14	693	45
14:00	6	0	76	2	0	3	1	2	4	0	74	3	1	4	0	4	169	11
14:15	6	3	81	3	0	5	0	3	3	6	78	9	0	9	0	0	197	9
14:30	3	0	79	1	0	1	2	3	6	0	74	6	6	4	0	4	174	9
14:45	3	7	78	2	0	1	0	4	4	4	99	6	0	6	0	4	211	7
Hr Total	18	10	314	8	0	10	3	12	17	10	325	24	1	23	0	12	751	36
15:00	4	8	78	0	0	1	0	0	10	3	109	6	1	5	0	2	212	15
15:15	4	4	80	4	0	2	0	7	4	5	94	7	0	5	1	2	211	8
15:30	5	3	96	0	0	3	0	7	7	3	127	13	0	5	2	3	262	12
15:45	6	8	86	0	0	1	0	2	3	4	140	13	0	8	0	0	262	9
Hr Total	19	23	340	4	0	7	0	16	24	15	470	39	1	23	3	7	947	44
16:00	6	9	98	2	0	2	0	2	3	5	161	10	1	5	0	6	300	10
16:15	0	2	91	1	0	1	1	2	3	2	173	7	0	7	0	3	290	3
16:30	3	6	81	3	0	4	0	6	4	6	168	13	0	9	0	5	301	7
16:45	4	4	76	3	0	3	0	2	0	3	163	14	0	4	2	1	275	4
Hr Total	13	21	346	9	0	10	1	12	10	16	665	44	1	25	2	15	1166	24
17:00	2	10	106	2	0	3	2	4	1	8	174	16	0	3	1	4	333	3
17:15	1	6	103	1	0	2	2	8	0	5	165	12	1	7	3	6	320	2
17:30	0	6	97	2	0	3	1	4	1	4	168	17	0	10	1	3	316	1
17:45	1	8	95	1	0	4	1	2	2	6	164	7	0	8	1	2	299	3
Hr Total	4	30	401	6	0	12	6	18	4	23	671	52	1	28	6	15	1268	9
18:00	2	8	68	1	0	2	1	4	1	3	134	11	0	5	1	5	243	3
18:15	2	5	81	2	0	1	0	5	2	11	176	20	0	6	0	4	311	4
18:30	1	7	90	4	0	4	1	11	2	6	109	13	1	15	1	6	267	4
18:45	1	4	78	4	0	6	2	5	1	7	123	14	0	9	3	9	264	2
Hr Total	6	24	317	11	0	13	4	25	6	27	542	58	1	35	5	24	1085	13
19:00	2	7	83	2	0	1	1	4	0	3	115	21	0	7	5	4	253	2
19:15	0	6	73	5	0	2	3	7	2	3	109	8	0	12	2	3	233	2
19:30	2	6	58	1	0	4	0	2	0	2	95	13	0	4	0	4	189	2
19:45	0	6	64	0	0	0	0	0	0	0	97	8	0	7	0	2	184	0
Hr Total	4	25	278	8	0	7	4	13	2	8	416	50	0	30	7	13	859	6

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

Site ( : 95210201  
 Start Date: 08/02/95  
 File I.D. : TMC95211  
 Page : 3

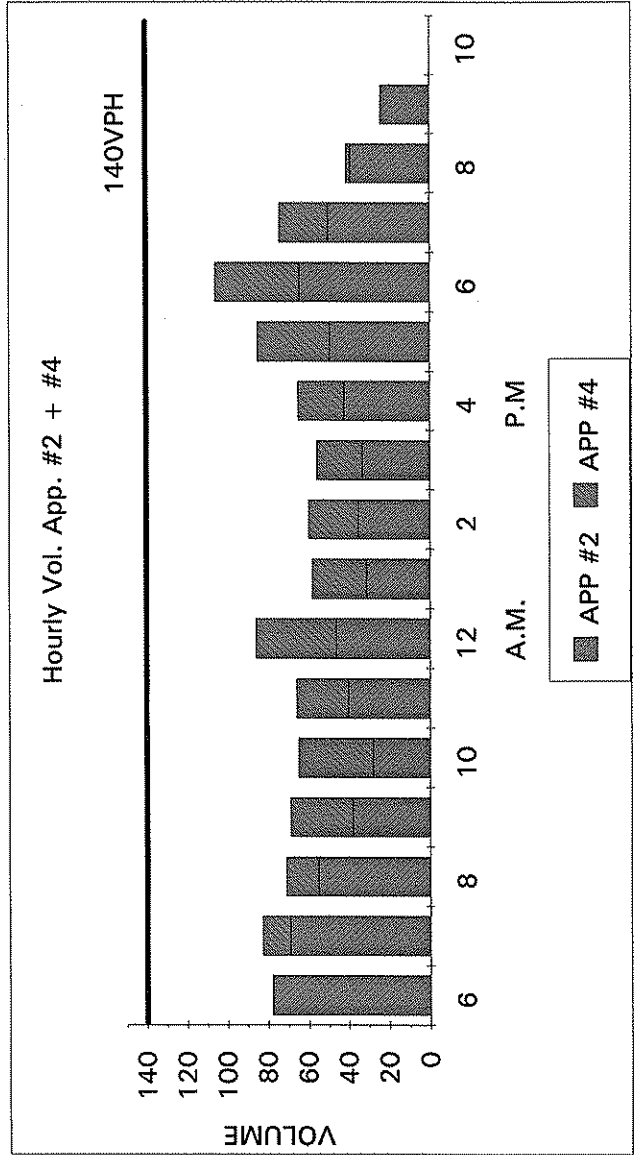
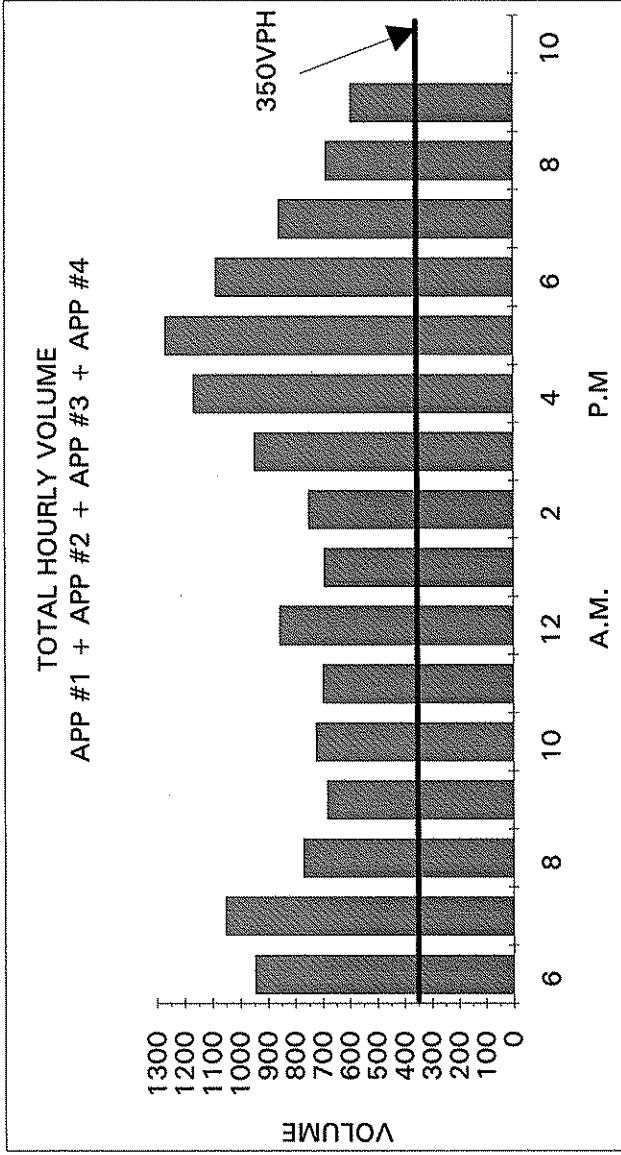
Counter : TDC EIGHT  
 Counted by RANDY BETTINGER

Vehicle group 1

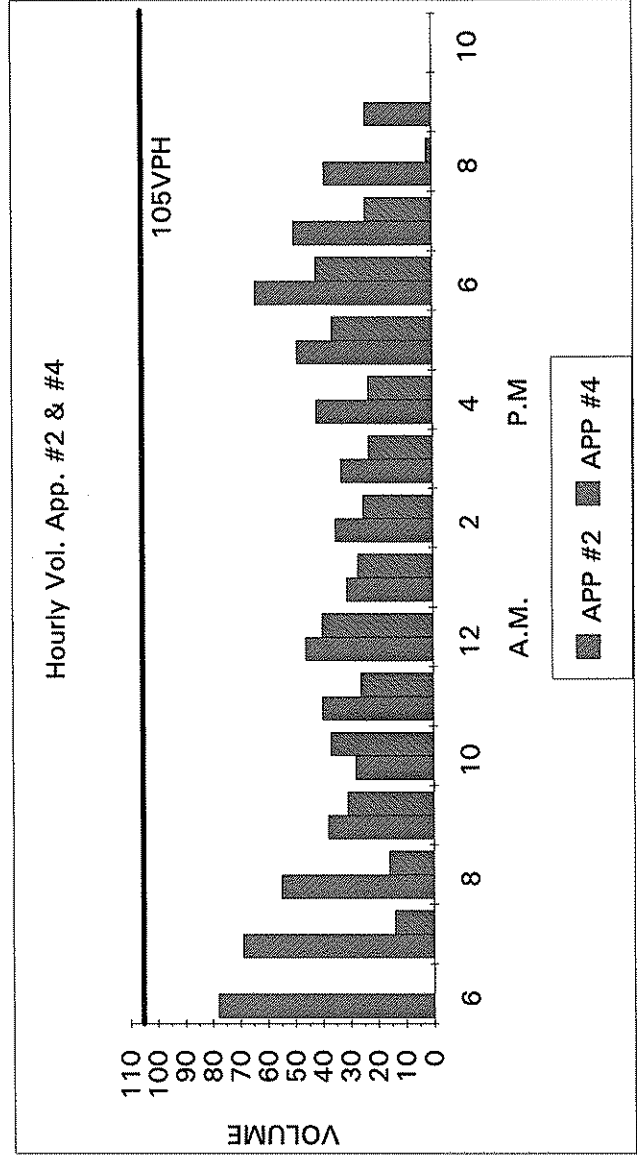
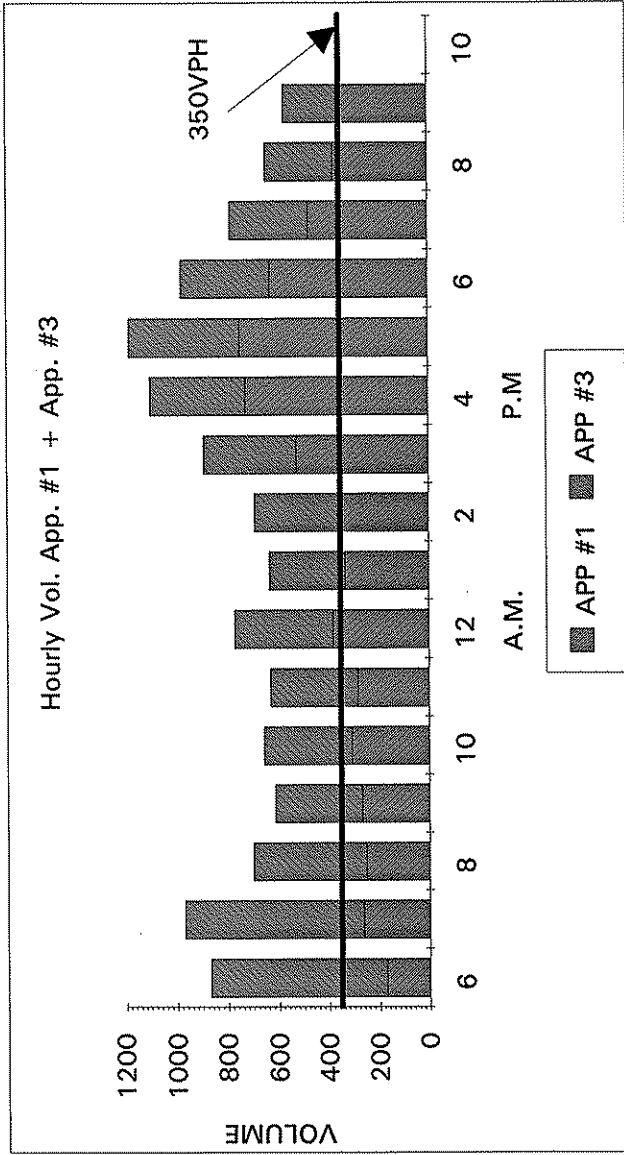
Date	CSAH 78 (HANSON BLVD) Southbound			COMPOST SITE RD Westbound			CSAH 78 (HANSON BLVD) Northbound			133RD AVE. Eastbound			Vehicle Total	Other Total					
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left			Vehicle Total				
20:00	1	5	66	0	0	0	0	0	0	0	0	14	0	4	0	0	9	165	1
20:15	0	4	59	0	1	0	0	1	0	107	7	7	0	8	0	0	2	188	1
20:30	0	6	56	0	0	1	0	3	0	78	17	17	0	5	1	3	3	167	3
20:45	1	10	65	0	0	0	0	0	0	78	6	6	0	6	0	1	1	166	1
<b>Hr Total</b>	<b>2</b>	<b>25</b>	<b>246</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>330</b>	<b>44</b>	<b>44</b>	<b>0</b>	<b>23</b>	<b>1</b>	<b>15</b>	<b>15</b>	<b>686</b>	<b>6</b>
21:00	0	7	68	0	0	0	0	2	0	84	8	8	0	4	0	6	6	177	2
21:15	2	7	59	0	0	0	0	0	0	91	8	8	0	2	0	3	3	170	2
21:30	0	4	43	0	0	0	0	1	0	63	6	6	0	4	0	1	1	121	1
21:45	0	1	38	0	0	0	0	1	0	77	8	8	0	2	0	2	2	128	1
<b>Hr Total</b>	<b>2</b>	<b>19</b>	<b>208</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>315</b>	<b>30</b>	<b>30</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>596</b>	<b>6</b>

\*TOTAL\* 263 273 5877 124 13 123 30 213 230 219 5773 434 16 440 41 240 13787 522

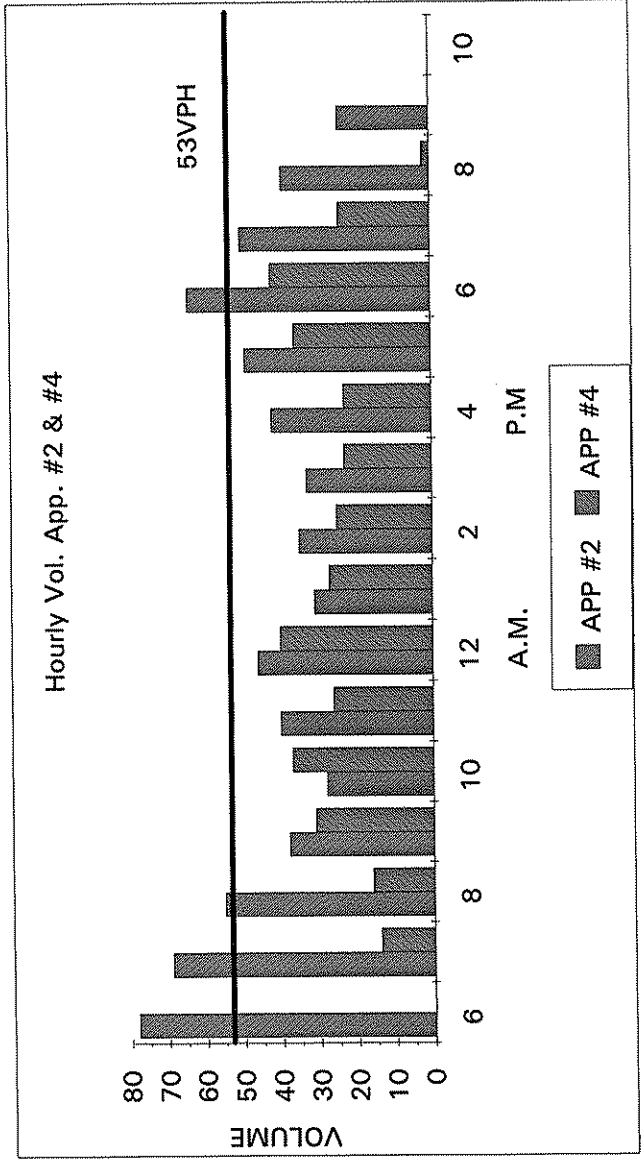
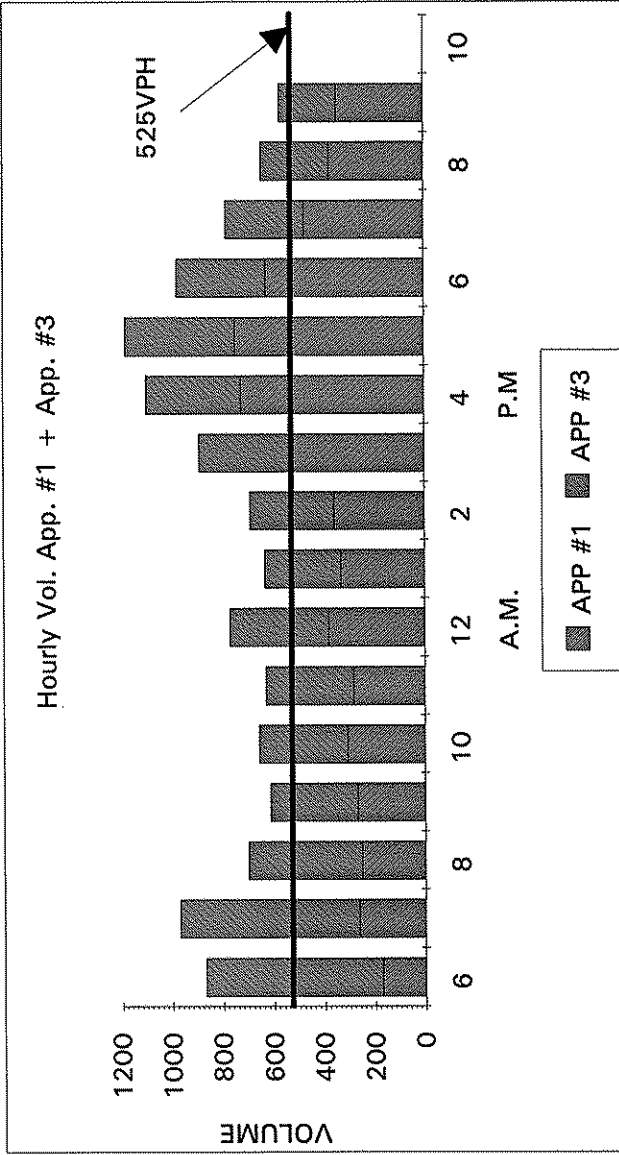
TMC9521 STOP WARRANT STUDY



TMC9521 SIGNAL WARRANT 1 STUDY

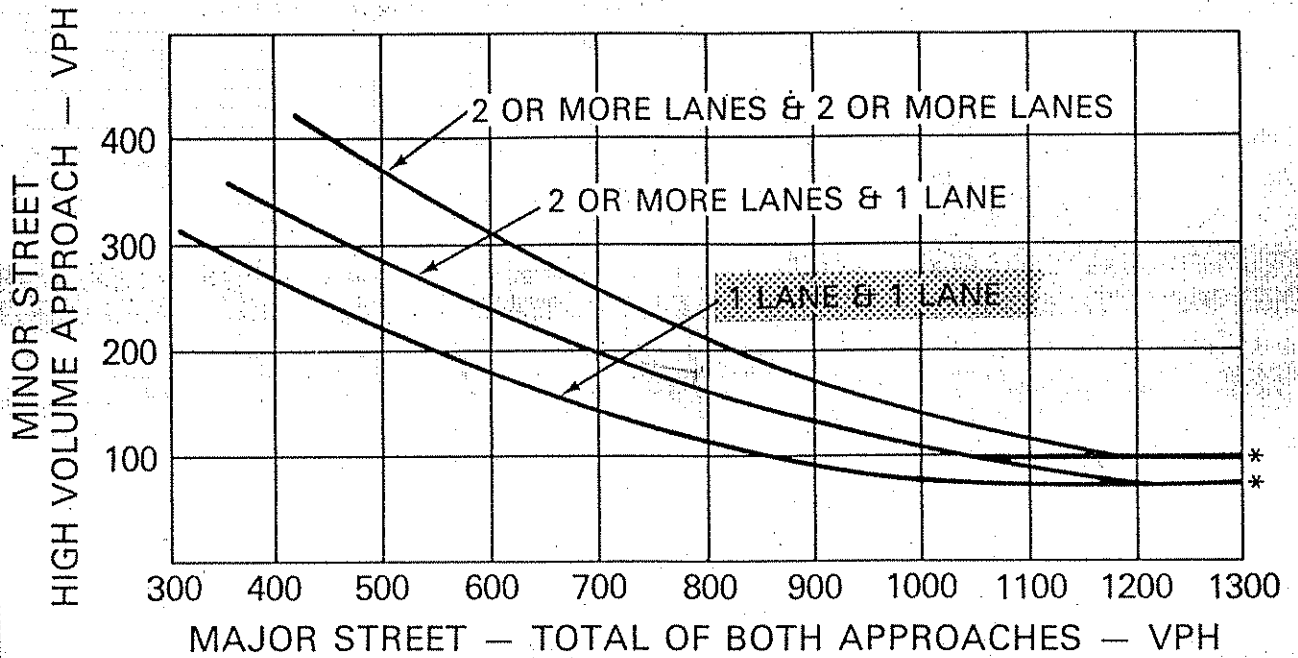


TMC9521 SIGNAL WARRANT 2 STUDY



# 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.

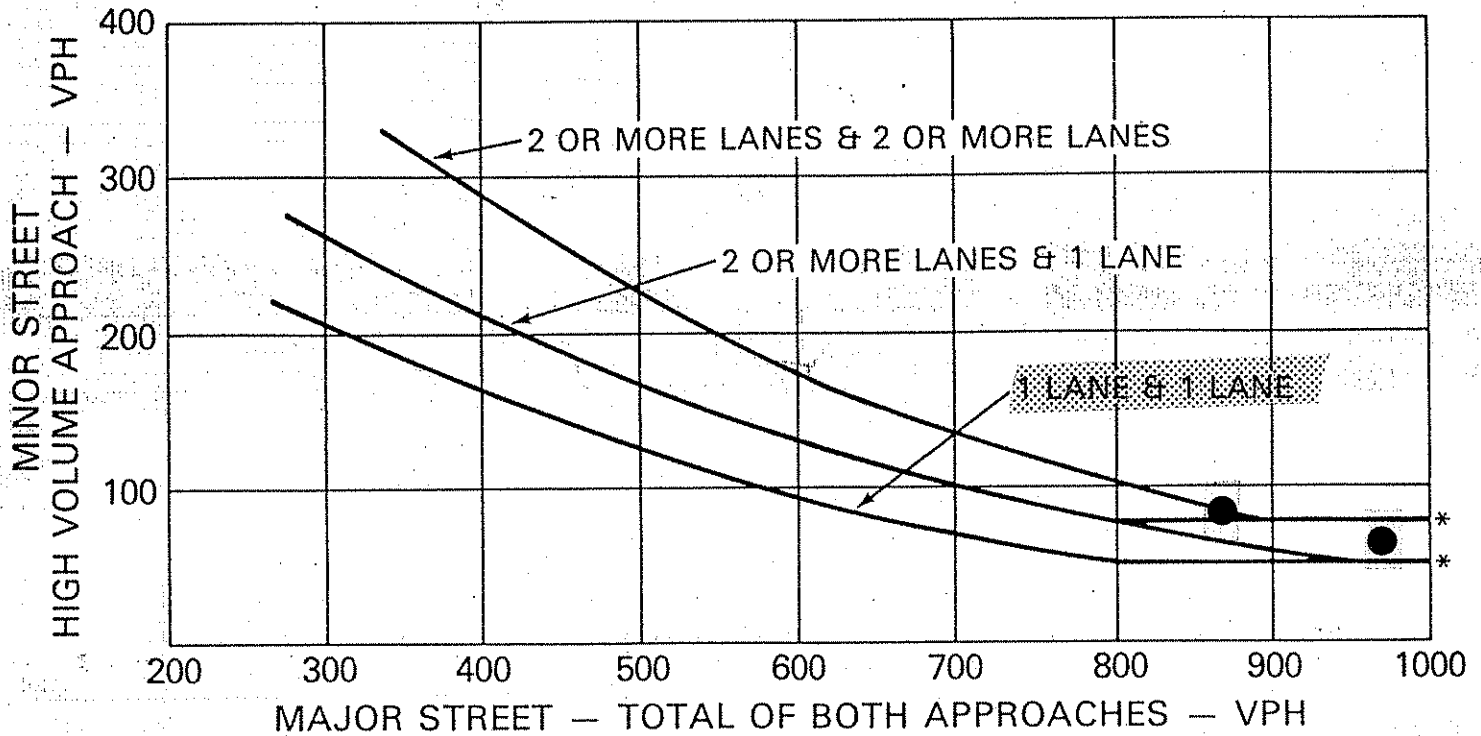
TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	869	78
7-8 am	971	69
8-9 am	701	55
9-10 am	615	38
10-11 am	659	37
11-12 pm	632	40
12-1 pm	771	46
1-2 pm	635	31
2-3 pm	691	35
3-4 pm	891	33
4-5 pm	1101	42
5-6 pm	1183	49
6-7 pm	979	64
7-8 pm	785	50
8-9 pm	645	39
9-10 pm	572	24

TMC9521 CSAH 78 (HANSON BLVD) @ 133RD AVE/COMPOST SITE RD



# FIGURE 4-8. FOUR HOUR VOLUME WARRANT

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



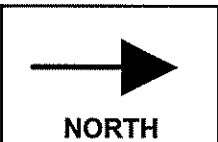
\*NOTE: 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 60 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

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

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

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
● 6-7 am	869	78
● 7-8 am	971	69
8-9 am	701	55
9-10 am	615	38
10-11 am	659	37
11-12 pm	632	40
12-1 pm	771	46
1-2 pm	635	31
2-3 pm	691	35
3-4 pm	891	33
4-5 pm	1101	42
5-6 pm	1183	49
6-7 pm	979	64
7-8 pm	785	50
8-9 pm	645	39
9-10 pm	572	24

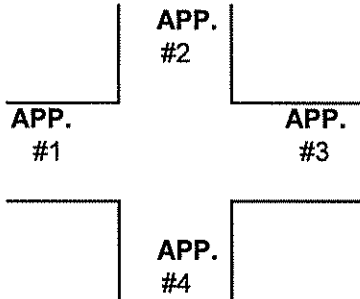
TMC9521 CSAH 78 (HANSON BLVD) @ 133RD AVE/COMPOST SITE RD



**COUNT LOCATION:** CSAH 78 (HANSON BLVD) @  
133RD AVE/COMPOST SITE RD

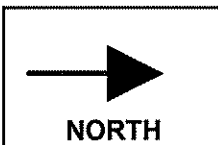
**DATE:** 8/2/95

APP. #1= NB CSAH 78  
(HANSON BLVD)  
APP. #2=  
EB 133RD AVE  
APP. #3= SB CSAH 78  
(HANSON BLVD)  
APP. #4=  
WB COMPOST SITE RD



- 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.

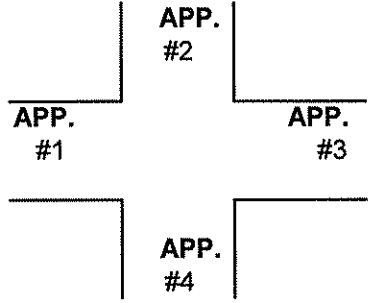
TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM						2		
6:15-6:30						4		
6:30-6:45						4		
6:45-7:00						9		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>19</b>
7:00-7:15						8		3
7:15-7:30						8		3
7:30-7:45						9		3
7:45-8:00						7		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>43</b>
8:00-8:15						8		8
8:15-8:30						13		3
8:30-8:45						6		2
8:45-9:00						9		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>50</b>
9:00-9:15						13		1
9:15-9:30						10		1
9:30-9:45						15	3	
9:45-10:00						11		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>54</b>
10:00-10:15						16		1
10:15-10:30						7		
10:30-10:45						9		
10:45-11:00						12		16
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>61</b>
11:00-11:15		1			1	14		1
11:15-11:30						15		
11:30-11:45						11		2
11:45-12:00						13		
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>56</b>
12:00-12:15						11		3
12:15-12:30						5		6
12:30-12:45						7		3
12:45-1:00						12		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>47</b>
1:00-1:15						11	1	
1:15-1:30						13		
1:30-1:45						16		
1:45-2:00						5		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>46</b>



**COUNT LOCATION:** CSAH 78 (HANSON BLVD) @  
133RD AVE/COMPOST SITE RD

**DATE:** 7/31/95

APP. #1= NB CSAH 78  
(HANSON BLVD)  
APP. #2=  
EB 133RD AVE  
APP. #3= SB CSAH 78  
(HANSON BLVD)  
APP. #4=  
WB COMPOST SITE RD



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						11		
2:15-2:30						9		2
2:30-2:45						6		
2:45-3:00						6		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>34</b>
3:00-3:15						14		2
3:15-3:30						8		
3:30-3:45						10		
3:45-4:00						8		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>43</b>
4:00-4:15						6	1	3
4:15-4:30						3		
4:30-4:45						5		
4:45-5:00						4		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>22</b>
5:00-5:15						3		
5:15-5:30						3		
5:30-5:45						1		
5:45-6:00						2	1	
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>10</b>
6:00-6:15						3		
6:15-6:30						4		
6:30-6:45		1			1	3		
6:45-7:00						2		
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>12</b>
7:00-7:15						2		
7:15-7:30						2		
7:30-7:45						1		
7:45-8:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>5</b>
8:00-8:15						1		
8:15-8:30						1		
8:30-8:45						2		
8:45-9:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>5</b>
9:00-9:15						1		
9:15-9:30						2		
9:30-9:45						1		
9:45-10:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>5</b>