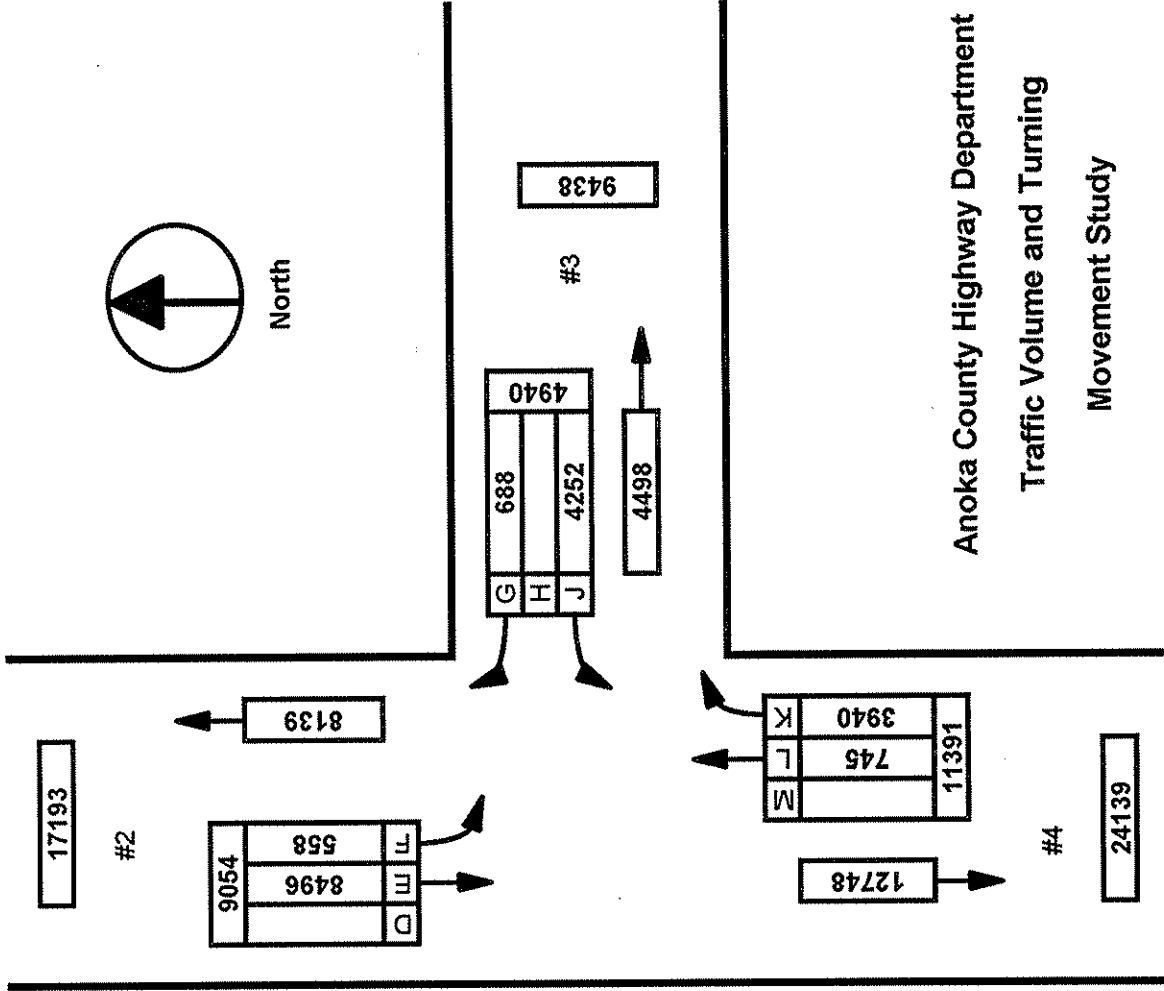


Date : 1/24/95AM 1/27/95/PM

Count Number : TTMC9507

Location : CSAH 78 (HANSON BLVD) @

CSAH 11 (NORTHDAL BLVD)



Anoka County Highway Department
Traffic Volume and Turning
Movement Study

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

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

Counter :TDC EIGHT
Counted by RANDY BETTINGER

Site Code : 95070101
Start Date: 02/24/95
File I.D. : TMC9507A
Page : 1

Vehicle group 1

Date	CSAH 78 (HANSON BLVD) Southbound			CSAH 11 (NORTHDALE BLVD) Westbound			CSAH 78 (HANSON BLVD) Northbound			Vehicle Total	Other Total	
	Other	Thru	Left	Other	Right	Left	Other	Right	Thru			
02/24/95												
06:00	2	243	8	3	5	34	1	32	19	341	6	
06:15	8	323	14	0	0	33	4	46	34	450	12	
06:30	3	314	16	3	10	61	1	81	50	532	7	
06:45	18	343	37	3	4	51	3	116	60	611	24	
Hr Total	31	1223	75	9	19	179	9	275	163	1934	49	
07:00	11	331	6	2	5	70	4	64	59	535	17	
07:15	7	380	14	4	5	103	8	66	60	628	19	
07:30	3	339	18	4	9	83	6	77	73	599	13	
07:45	13	300	25	5	4	82	12	111	107	629	30	
Hr Total	34	1350	63	15	23	338	30	318	299	2391	79	
08:00	3	222	15	11	14	72	15	73	78	474	29	
08:15	13	212	15	5	8	68	16	61	70	434	34	
08:30	6	182	7	8	5	70	10	53	76	393	24	
08:45	4	197	15	2	5	65	3	53	71	406	9	
Total	26	813	52	26	32	275	44	240	295	1707	96	
09:00	3	165	6	2	4	66	24	51	101	393	29	
09:15	6	142	6	6	9	71	6	41	66	335	18	
09:30	4	142	10	3	5	60	7	61	59	337	14	
09:45	7	126	8	3	7	58	6	67	78	344	16	
Hr Total	20	575	30	14	25	255	43	220	304	1409	77	
10:00	5	122	7	4	2	59	9	45	89	324	18	
10:15	5	101	4	7	5	70	10	41	66	287	22	
10:30	11	136	2	2	6	65	11	61	73	343	24	
10:45	7	113	3	5	10	53	12	47	101	327	24	
Hr Total	28	472	16	18	23	247	42	194	329	1281	88	
11:00	10	102	7	6	7	60	7	78	84	338	23	
11:15	5	115	7	7	7	94	6	57	99	379	18	
11:30	9	115	10	7	13	81	13	64	111	394	29	
11:45	6	101	3	5	20	78	11	76	119	397	22	
Hr Total	30	433	27	25	47	313	37	275	413	1508	92	
12:00	4	132	8	4	10	101	11	77	124	452	19	
12:15	5	131	9	5	10	76	8	83	107	416	18	
12:30	2	102	13	7	11	88	11	72	129	415	20	
12:45	5	101	6	6	15	79	12	79	121	401	23	
Hr Total	16	466	36	22	46	344	42	311	481	1684	80	

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

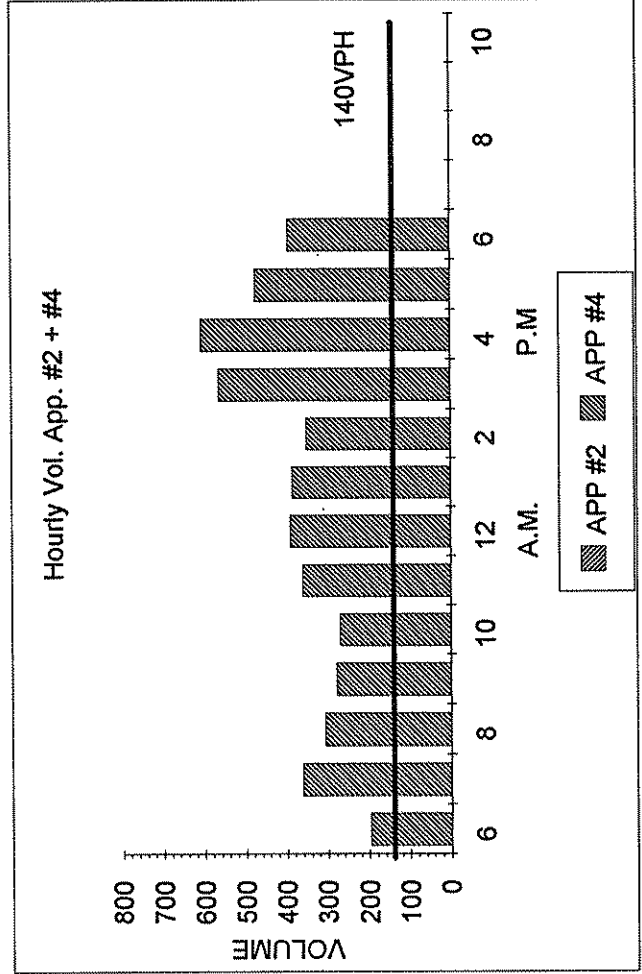
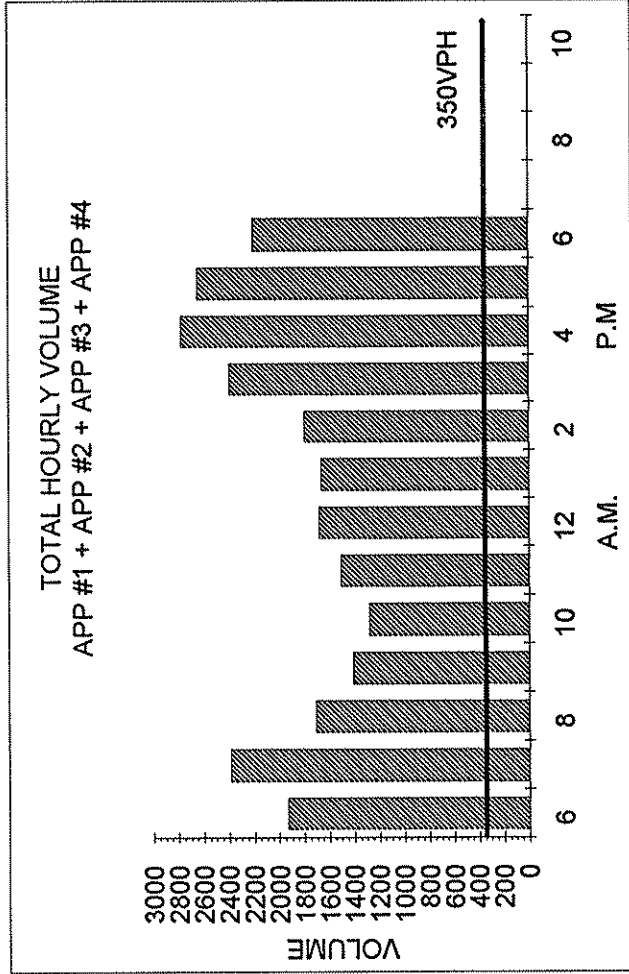
Site Code : 95070101
Start Date: 02/24/95
File I.D. : TMC9507A
Page : 2

Counter : TDC EIGHT
Printed by RANDY BETTINGER

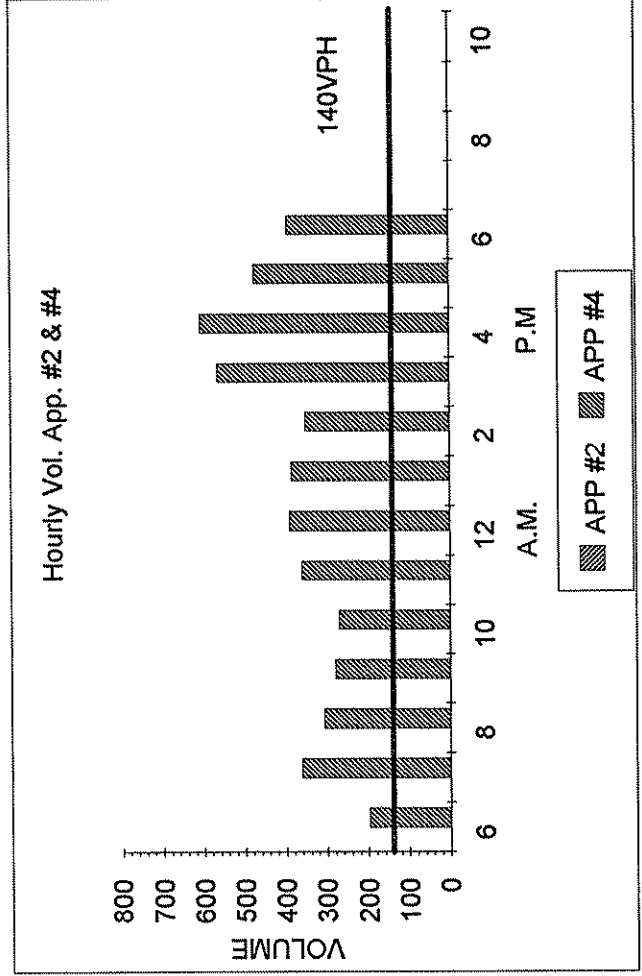
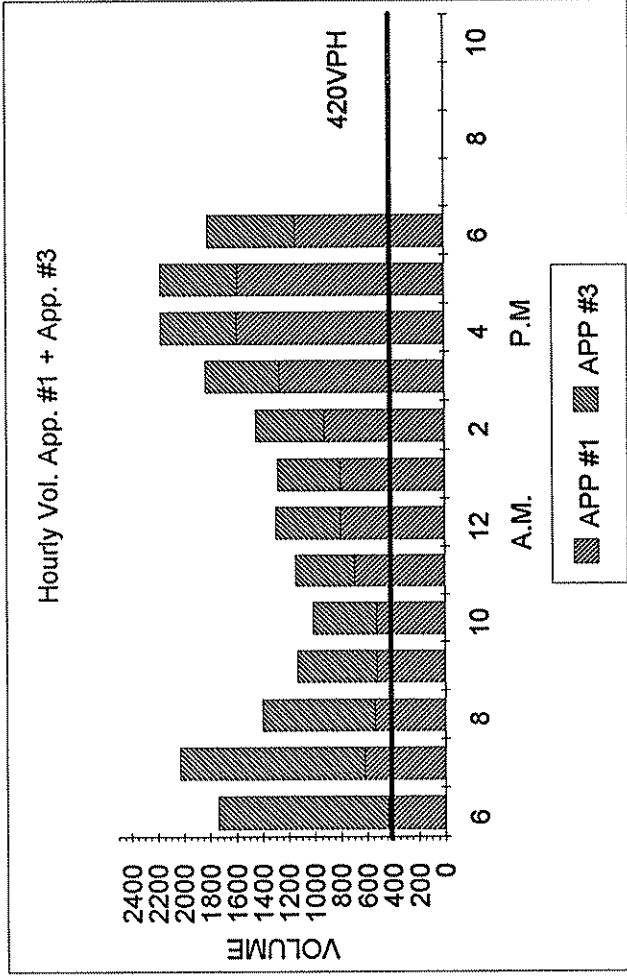
Vehicle group 1

Date	CSAH 78 (HANSON BLVD) Southbound			CSAH 11 (NORTHDAL E BLVD) Westbound			CSAH 78 (HANSON BLVD) Northbound			Vehicle Total	Other Total	
	Other	Thru	Left	Other	Right	Left	Other	Right	Thru			
02/24/95												
13:00	1	103	9	5	14	80	6	81	111	398	12	
13:15	2	100	10	4	22	79	15	89	122	422	21	
13:30	8	120	12	4	13	91	7	79	144	459	19	
13:45	13	118	8	1	13	74	5	65	105	383	19	
Hr Total	24	441	39	14	62	324	33	314	482	1662	71	
14:00	26	121	12	0	14	60	27	87	111	405	53	
14:15	9	103	12	0	20	62	23	77	116	390	32	
14:30	19	137	7	0	12	77	24	109	171	513	43	
14:45	15	125	12	0	12	93	25	92	154	488	40	
Hr Total	69	486	43	0	58	292	99	365	552	1796	168	
15:00	8	116	12	0	21	103	23	88	183	523	31	
15:15	3	123	15	0	38	123	13	110	185	594	16	
15:30	11	146	8	0	26	125	14	100	245	650	25	
15:45	2	138	9	1	21	108	7	96	253	625	10	
Total	24	523	44	1	106	459	57	394	866	2392	82	
16:00	2	134	7	7	20	120	18	104	281	666	27	
16:15	3	135	9	3	24	114	7	98	275	655	13	
16:30	2	139	17	2	35	147	6	91	272	701	10	
16:45	1	130	12	1	24	122	3	90	376	754	5	
Hr Total	8	538	45	13	103	503	34	383	1204	2776	55	
17:00	3	155	8	2	29	112	3	112	288	704	8	
17:15	4	124	6	2	22	93	3	108	351	704	9	
17:30	0	127	7	3	22	98	3	80	288	622	6	
17:45	1	154	11	3	13	85	3	65	286	614	7	
Hr Total	8	560	32	10	86	388	12	365	1213	2644	30	
18:00	0	148	16	1	22	113	2	67	237	603	3	
18:15	3	170	13	1	10	80	0	84	212	569	4	
18:30	1	150	10	2	15	75	4	55	198	503	7	
18:45	0	148	17	1	11	67	0	80	203	526	1	
Hr Total	4	616	56	5	58	335	6	286	850	2201	15	
TOTAL	322	8496	558	172	688	4252	488	3940	7451	25385	982	

TMC9507 STOP WARRANT STUDY



TMC9507 SIGNAL WARRANT 1 STUDY



TMC9507 SIGNAL WARRANT 2 STUDY

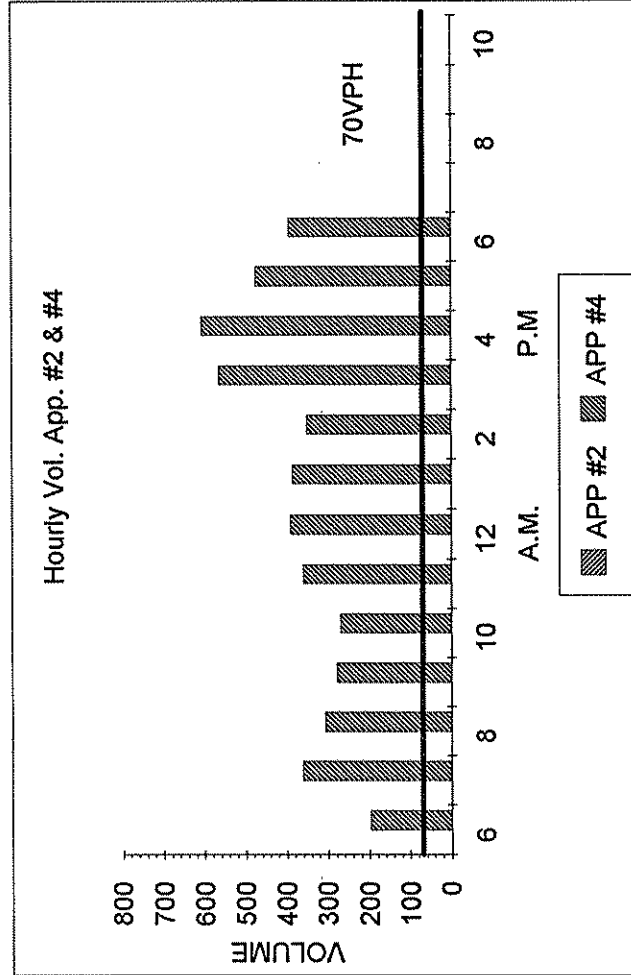
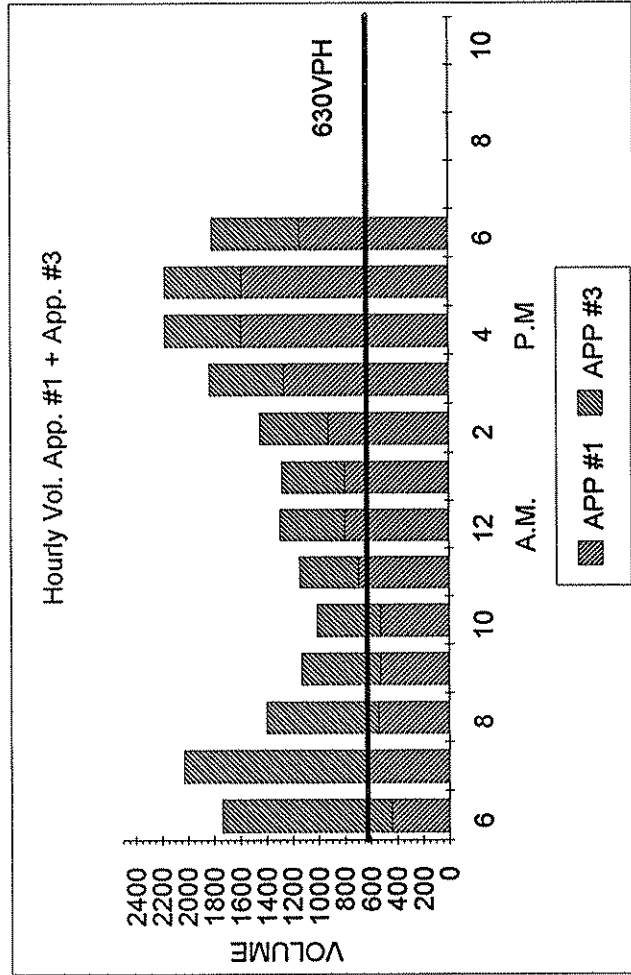
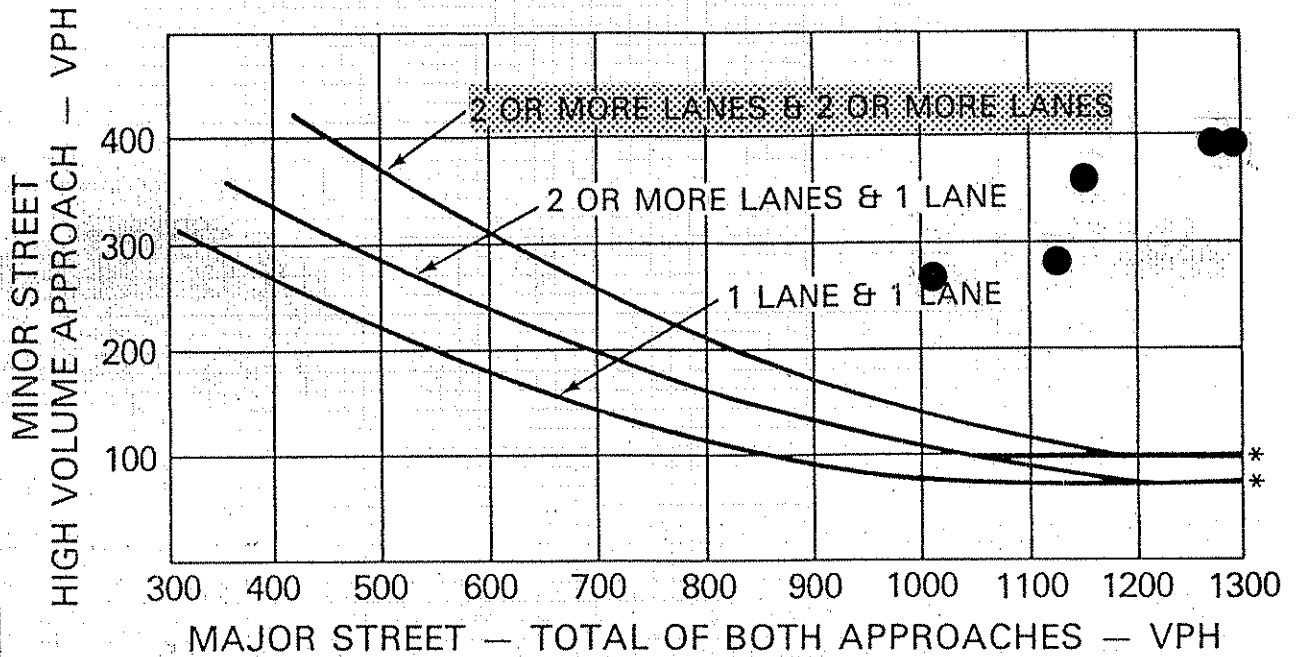


FIGURE 4-6. PEAK HOUR VOLUME WARRANT

(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.

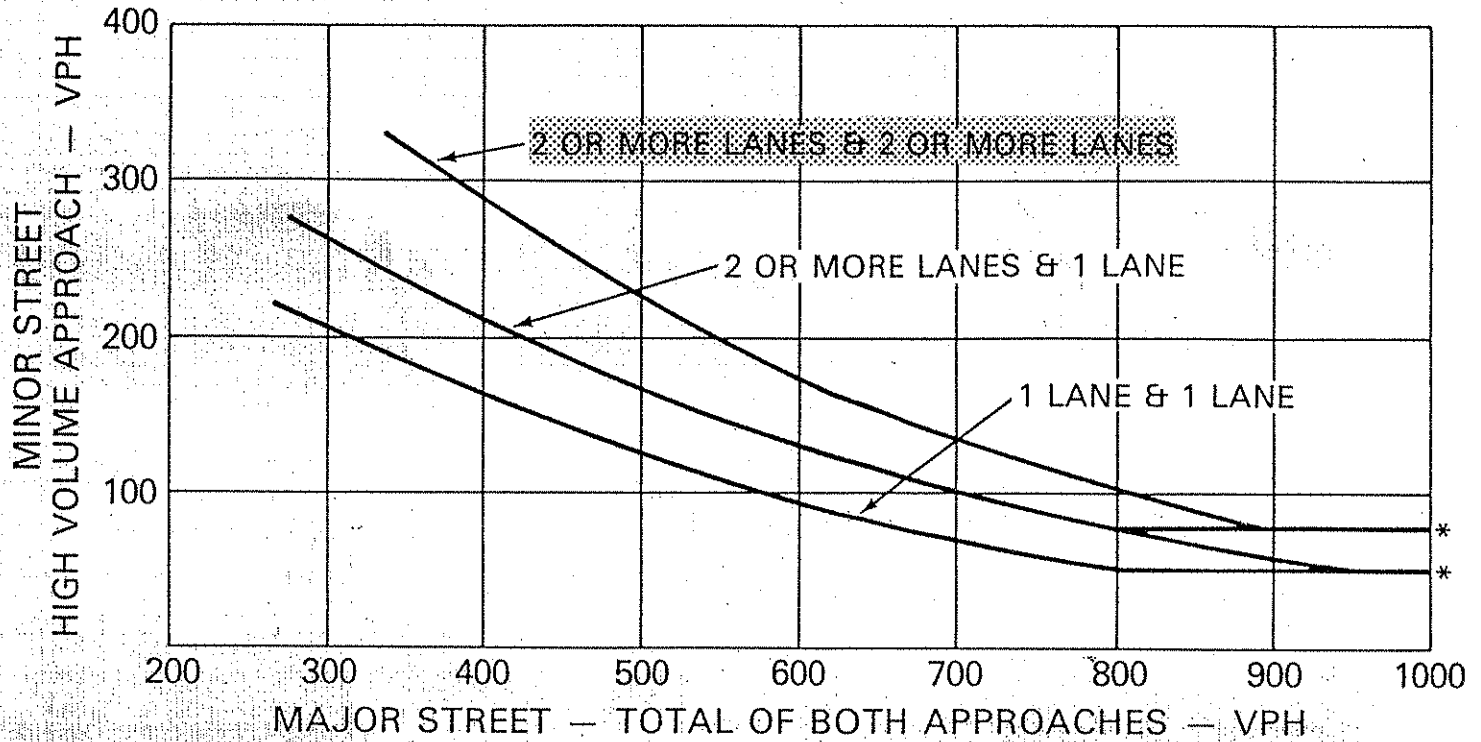
★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
★ 6-7 am	1736	198
★ 7-8 am	2030	361
★ 8-9 am	1400	307
● 9-10 am	1129	280
● 10-11 am	1011	270
● 11-12 pm	1148	360
● 12-1 pm	1294	390
● 1-2 pm	1276	386
★ 2-3 pm	1446	350
★ 3-4 pm	1827	565
★ 4-5 pm	2170	606
★ 5-6 pm	2170	474
★ 6-7 pm	1808	393

TMC9507 CSAH 78 (HANSON BLVD) @ CSAH 11 (NORTHDAL BLVD)

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	1736	198
★ 7-8 am	2030	361
★ 8-9 am	1400	307
★ 9-10 am	1129	280
★ 10-11 am	1011	270
★ 11-12 pm	1148	360
★ 12-1 pm	1294	390
★ 1-2 pm	1276	386
★ 2-3 pm	1446	350
★ 3-4 pm	1827	565
★ 4-5 pm	2170	606
★ 5-6 pm	2170	474
★ 6-7 pm	1808	393

TMC9507 CSAH 78 (HANSON BLVD) @ CSAH 11 (NORTHDALD BLVD)



COUNT LOCATION: CSAH 78 (HANSON BLVD) @
CSAH 11 (NORTHDALE BLVD)

DATE: 2/24/95

APP. #1=WB CSAH 11
(NORTHDALE BLVD)
APP. #2=NB CSAH 78
(HANSON BLVD)
APP. #3=SBCSAH 78
(HANSON BLVD)

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		4
6:15-6:30						7		5
6:30-6:45						4		3
6:45-7:00						4		19
HOURLY TOTAL						HOURLY TOTAL		48
7:00-7:15						3		5
7:15-7:30						7		6
7:30-7:45						5		5
7:45-8:00						1		11
HOURLY TOTAL						HOURLY TOTAL		43
8:00-8:15						12		19
8:15-8:30						15		18
8:30-8:45						14		11
8:45-9:00						6		1
HOURLY TOTAL						HOURLY TOTAL		96
9:00-9:15						11		20
9:15-9:30						12		5
9:30-9:45						10		1
9:45-10:00						15		3
HOURLY TOTAL						HOURLY TOTAL		77
10:00-10:15						14		4
10:15-10:30						21		1
10:30-10:45						18		3
10:45-11:00						19		4
HOURLY TOTAL						HOURLY TOTAL		84
11:00-11:15						20		4
11:15-11:30						10		7
11:30-11:45						15		14
11:45-12:00						15		8
HOURLY TOTAL						HOURLY TOTAL		93
12:00-12:15						13		7
12:15-12:30						16		1
12:30-12:45						14		6
12:45-1:00						16		7
HOURLY TOTAL						HOURLY TOTAL		80
1:00-1:15						9	1	1
1:15-1:30						12		8
1:30-1:45						15		3
1:45-2:00						13		9
HOURLY TOTAL						HOURLY TOTAL		71



COUNT LOCATION: CSAH 78 (HANSON BLVD) @
CSAH 11 (NORTHDALE BLVD)

DATE: 2/27/95

APP. #1=WB CSAH 11
(NORTHDALE BLVD)
 APP. #2=NB CSAH 78
(HANSON BLVD)
 APP. #3=SBCSAH 78
(HANSON BLVD)

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						18		34
2:15-2:30						14		17
2:30-2:45						20		23
2:45-3:00						11		30
HOURLY TOTAL						HOURLY TOTAL		167
3:00-3:15						16		15
3:15-3:30						12		5
3:30-3:45						10		13
3:45-4:00	1			1	2	5		4
HOURLY TOTAL					2	HOURLY TOTAL		80
4:00-4:15						12		16
4:15-4:30				1	1	2		9
4:30-4:45						4	1	5
4:45-5:00						3		2
HOURLY TOTAL					1	HOURLY TOTAL		54
5:00-5:15						5		2
5:15-5:30						6		3
5:30-5:45						4		2
5:45-6:00						6		1
HOURLY TOTAL						HOURLY TOTAL		29
6:00-6:15				1	1	2		2
6:15-6:30						3		1
6:30-6:45						6		1
6:45-7:00								1
HOURLY TOTAL					1	HOURLY TOTAL		16
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		