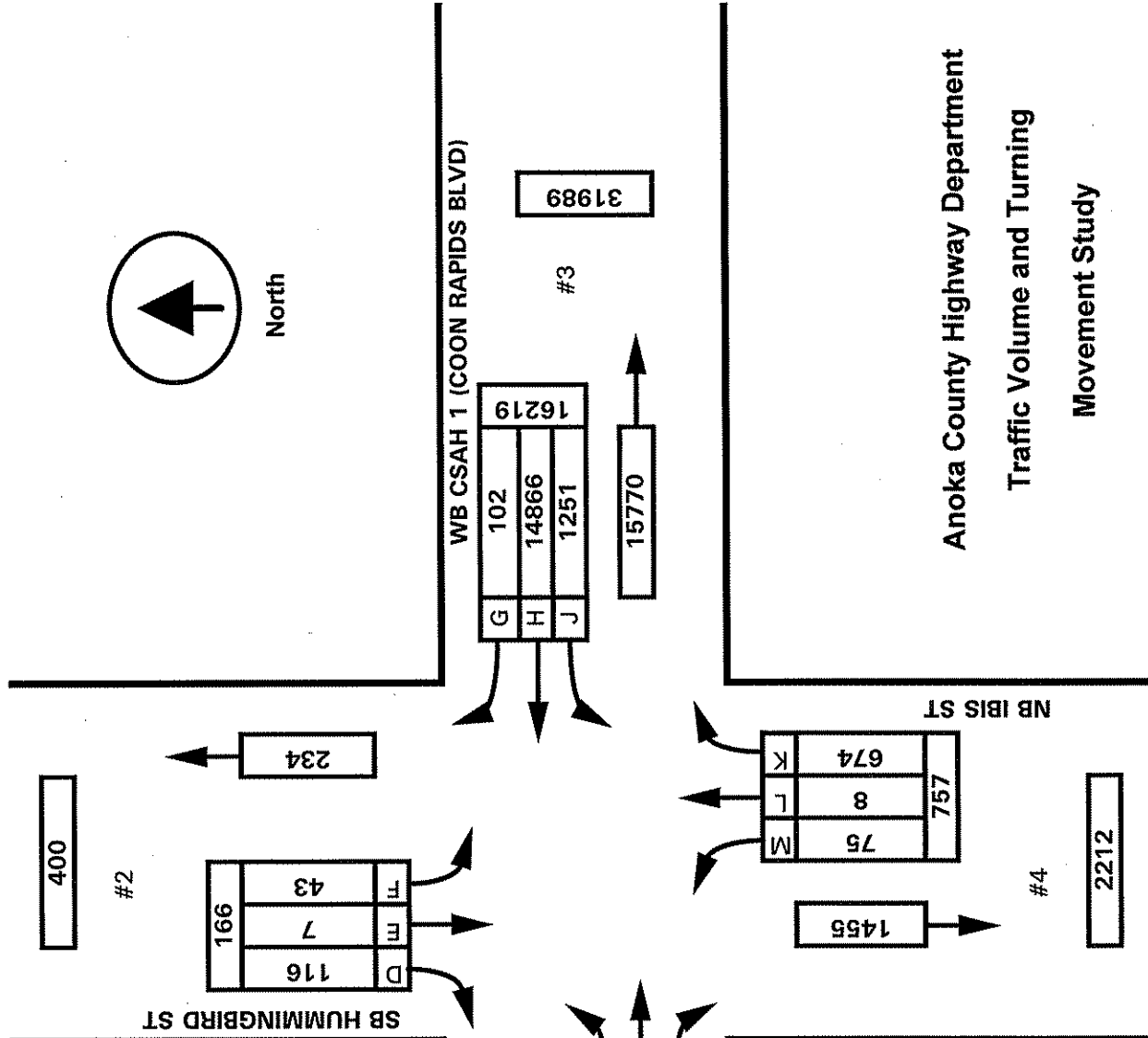


Date: 7/26/95 7/24/95

Count Number: TMC9520

Location: CSAH 1 (COON RAPIDS

BLVD) @ IBIS ST



Anoka County Highway Department  
Traffic Volume and Turning  
Movement Study

EB CSAH 1 (COON RAPIDS BLVD)

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

ANOKA COUNTY HIGHWAY DEPARTMENT

Site Code: 95200101  
 Start Date: 07/24/95  
 File I.D.: TMC9520  
 Page : 1

Counter : 100 EIGHT  
 Counted by ANN/LAURIE  
 CLEAR

TRAFFIC ENGINEERING SECTION  
 TRAFFIC VOLUME AND  
 TURNING MOVEMENT STUDY

Vehicle group 1

Date	103RD AVE/HUMMINGBIRD Southbound				CSAH 1 (COON RAPIDS BLVD) Westbound				IBIS ST Northbound				CSAH 1 (COON RAPIDS BLVD) Eastbound				Vehicle		
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Total	Other	Total
06:00	0	1	0	0	2	0	51	1	0	14	0	2	4	0	289	0	358	6	
06:15	0	0	0	1	7	0	58	7	0	20	0	0	4	1	350	3	440	11	
06:30	0	1	1	0	5	0	81	9	0	21	0	0	7	3	459	1	576	12	
06:45	0	1	0	1	8	0	107	14	1	11	0	1	8	1	444	1	581	17	
Hr Total	0	3	1	2	22	0	297	31	1	66	0	3	23	5	1542	5	1955	46	
07:00	0	0	0	1	3	0	97	7	0	18	0	0	8	2	412	1	538	11	
07:15	0	2	0	0	4	2	145	6	0	25	0	0	6	3	380	0	563	10	
07:30	0	2	0	0	4	0	149	3	0	26	0	2	9	4	391	1	578	13	
07:45	0	2	0	1	7	1	182	19	0	23	0	0	3	2	341	3	574	10	
Hr Total	0	6	0	2	18	3	573	35	0	92	0	2	26	11	1524	5	2253	44	
08:00	0	1	0	1	4	0	158	13	0	20	0	1	4	3	266	2	465	8	
08:15	0	0	1	0	5	0	118	15	0	22	0	1	8	0	264	2	423	13	
08:30	0	3	0	1	11	12	141	6	0	10	0	0	6	1	233	2	409	17	
08:45	0	2	0	1	8	0	150	4	0	13	2	2	6	6	219	1	400	14	
Hr Total	0	6	1	3	28	12	567	38	0	65	2	4	24	10	982	7	1697	52	
09:00	0	2	0	0	4	0	143	7	0	6	0	0	8	2	183	2	345	12	
09:15	0	4	0	0	7	1	119	12	0	11	0	2	6	6	185	2	342	13	
09:30	0	4	0	0	12	1	161	9	0	7	0	0	6	17	179	0	378	18	
09:45	1	1	0	0	6	1	143	6	0	11	0	2	11	2	222	2	390	18	
Hr Total	1	11	0	0	29	3	566	34	0	35	0	4	31	27	769	6	1455	61	
10:00	3	1	0	2	9	0	146	5	1	6	0	1	11	3	211	0	375	24	
10:15	0	0	0	1	6	1	161	7	1	10	0	1	5	1	212	1	395	12	
10:30	0	2	0	2	7	1	173	9	0	9	0	3	7	2	188	2	391	14	
10:45	0	0	0	0	5	0	170	13	0	15	0	0	12	2	219	0	419	17	
Hr Total	3	3	0	5	27	2	650	34	2	40	0	5	35	8	830	3	1580	67	
11:00	0	2	0	1	10	4	196	10	0	9	0	1	5	2	227	1	453	15	
11:15	0	3	0	1	9	0	219	9	1	8	0	2	15	6	214	0	462	25	
11:30	0	1	0	1	6	2	204	14	0	8	0	2	10	5	240	3	480	16	
11:45	0	0	0	0	9	2	224	19	1	13	0	1	6	2	186	2	449	16	
Hr Total	0	6	0	3	34	8	843	52	2	38	0	6	36	15	867	6	1844	72	
12:00	0	0	0	0	11	3	236	19	0	4	0	1	1	1	205	0	469	12	
12:15	0	2	0	0	7	2	245	12	0	8	0	3	8	4	204	3	483	15	
12:30	0	2	0	0	8	2	207	11	0	12	0	1	3	5	232	2	474	11	
12:45	0	0	0	0	9	1	236	11	1	6	0	3	7	3	228	1	489	17	
Hr Total	0	4	0	0	35	8	924	53	1	30	0	8	19	13	869	6	1915	55	

ANOKA COUNTY HIGHWAY DEPARTMENT

Site Code: 95200101  
 Start Date: 07/24/95  
 File I.D.: TMC9520  
 Page: 2

Counter: 808 EIGHT  
 Counted by ANN/LAURIE  
 CLEAR

Vehicle group 1

Date 07/24/95	103RD AVE/HUMMINGBIRD Southbound			CSAH 1 (COON RAPIDS BLVD) Westbound			IBIS ST Northbound			CSAH 1 (COON RAPIDS BLVD) Eastbound			Vehicle				
	Other	Right	Thru	Left	Thru	Right	Other	Right	Thru	Left	Other	Right	Thru	Left	Total	Other	Total
13:00	0	3	0	0	1	213	9	1	12	0	0	7	3	221	3	465	13
13:15	0	0	0	0	1	224	16	1	15	0	0	6	1	235	0	492	19
13:30	0	2	0	1	12	220	20	1	10	0	0	6	1	195	2	453	19
13:45	0	1	0	3	4	197	15	1	12	1	2	11	1	234	3	470	16
Hr Total	0	6	0	4	33	856	60	4	49	1	2	30	6	885	8	1880	67
14:00	0	1	0	1	6	238	10	1	7	0	1	5	2	251	3	515	12
14:15	1	2	1	2	3	251	14	1	8	0	2	13	2	245	0	530	18
14:30	0	5	0	1	7	252	18	0	6	0	1	7	0	216	2	501	14
14:45	1	0	0	1	9	288	17	0	4	0	3	6	3	241	2	561	16
Hr Total	2	8	1	5	25	1029	59	2	25	0	7	31	7	953	7	2107	60
15:00	0	4	0	0	5	289	29	0	5	0	0	8	2	222	3	557	13
15:15	0	3	1	1	11	303	25	1	9	0	2	3	4	232	1	581	15
15:30	0	2	0	1	11	371	30	1	16	0	0	11	5	239	3	667	23
15:45	0	2	0	1	5	426	32	0	7	0	0	5	2	219	3	693	10
Hr Total	0	11	1	3	32	1389	116	2	37	0	2	27	13	912	10	2498	61
16:00	0	2	0	0	6	435	44	0	7	0	1	11	1	251	3	747	17
16:15	0	1	0	0	5	418	40	0	10	1	1	4	1	246	0	719	9
16:30	0	2	0	1	8	430	49	0	12	0	1	3	2	216	4	723	11
16:45	0	1	0	0	6	456	43	0	4	1	0	2	7	226	2	743	8
Hr Total	0	6	0	1	25	1739	176	0	33	2	3	20	11	939	9	2932	45
17:00	0	2	0	0	5	473	55	1	13	0	0	6	4	246	2	803	12
17:15	0	1	0	0	7	451	48	0	10	1	2	4	1	240	4	758	11
17:30	0	5	0	0	3	438	45	0	13	0	1	3	2	241	3	750	6
17:45	0	4	0	1	9	482	48	1	19	0	1	4	3	217	1	778	14
Hr Total	0	12	0	1	24	1844	196	2	55	1	4	17	10	944	10	3089	43
18:00	1	2	0	2	7	385	36	0	10	0	1	0	3	233	1	675	8
18:15	0	1	0	0	1	358	42	0	8	0	1	2	12	238	3	664	3
18:30	0	6	0	1	4	307	23	0	7	0	2	2	6	200	6	560	6
18:45	0	1	0	1	0	250	31	0	12	0	3	3	1	221	4	526	3
Hr Total	1	10	0	4	12	1300	132	0	37	0	7	7	22	892	14	2425	20
19:00	0	3	1	0	4	239	22	0	6	0	1	0	3	201	5	482	4
19:15	0	4	0	1	1	212	13	0	3	0	1	1	0	203	1	438	2
19:30	0	1	0	0	2	193	22	0	7	0	2	1	5	188	1	422	1
19:45	0	1	0	0	3	211	17	0	7	1	0	0	3	204	4	452	3
Hr Total	0	9	1	1	8	855	74	0	24	1	4	2	11	796	11	1794	10

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

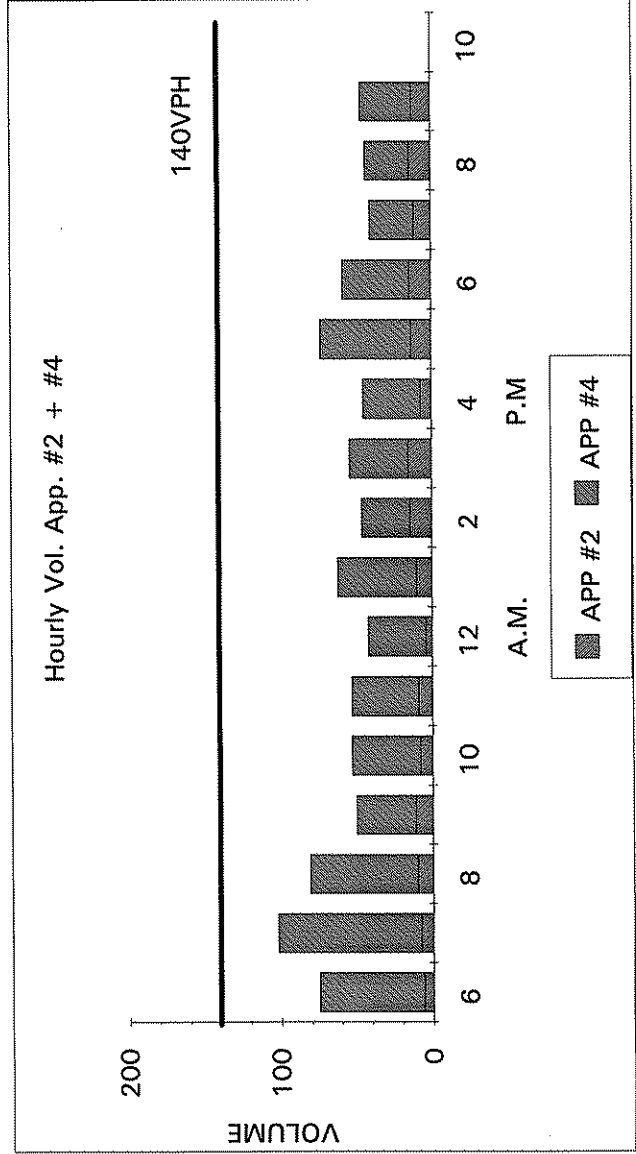
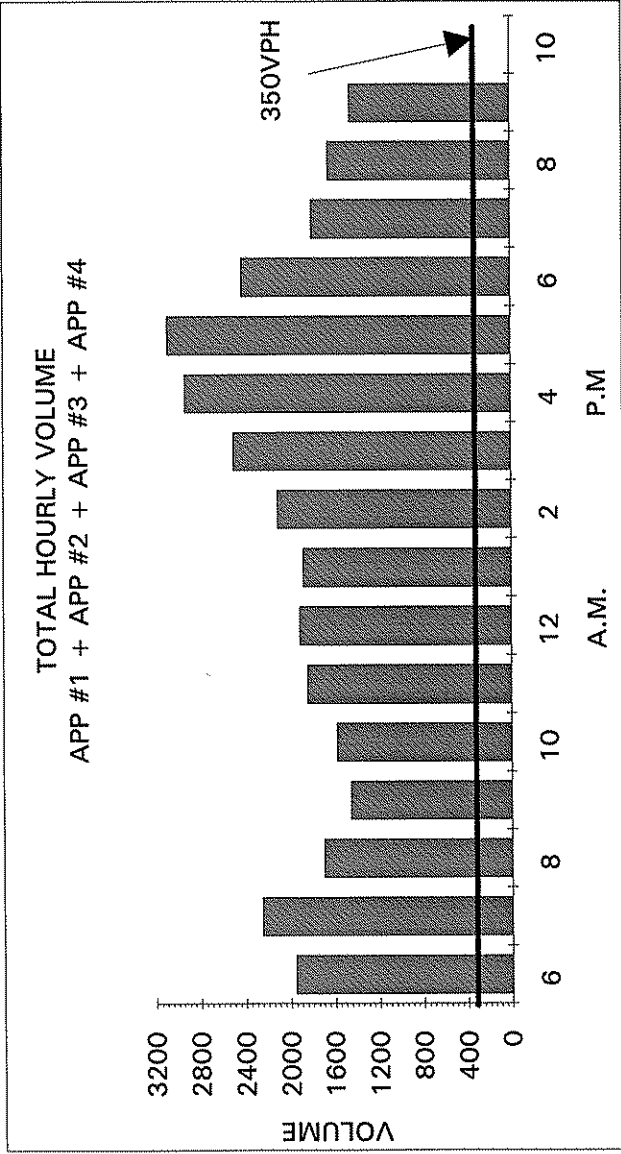
Counter : EIGHT  
 Counted by ANN/LAURIE  
 Site Code : 95200101  
 Start Date: 07/24/95  
 File I.D. : TMC9520  
 Page : 3

Vehicle group 1

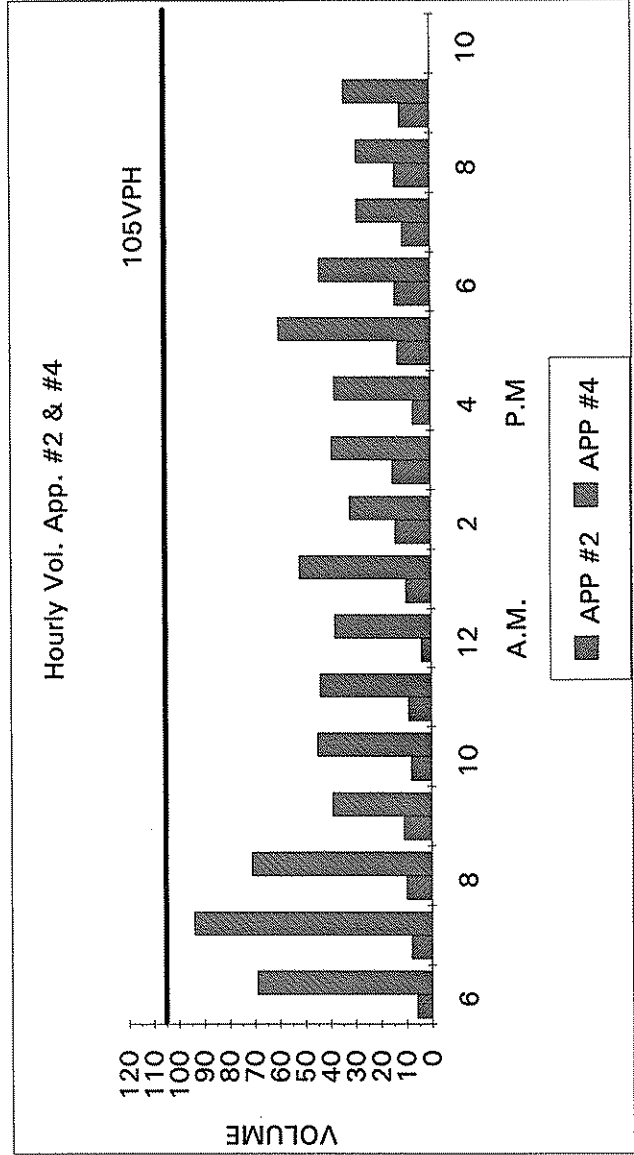
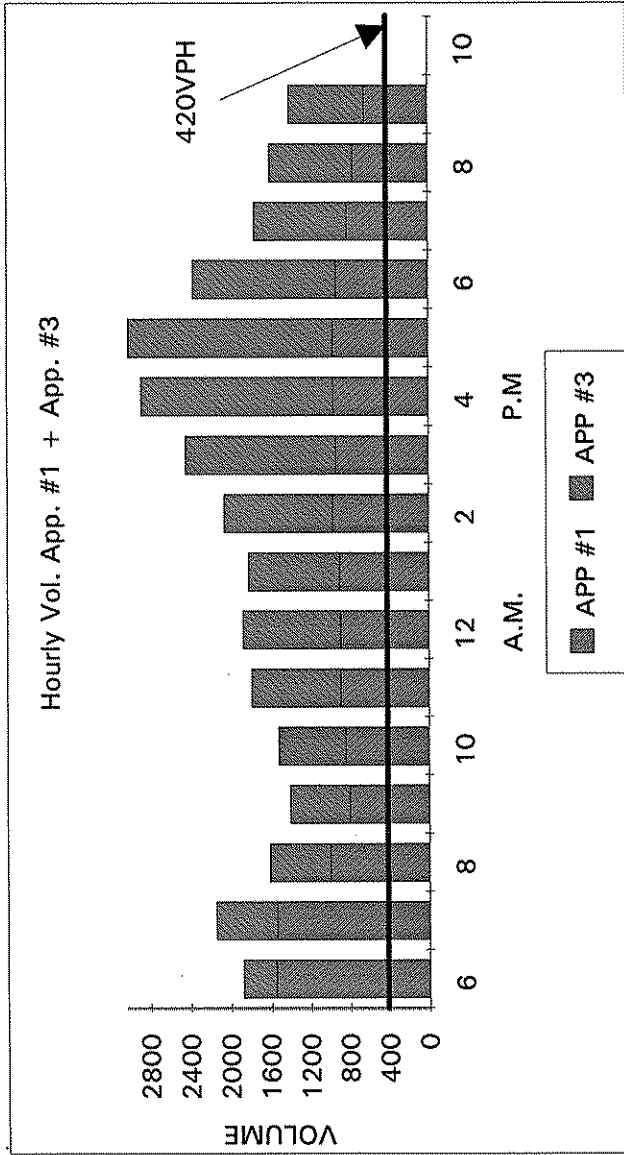
Date 07/24/95	103RD AVE/HUMMINGBIRD Southbound			CSAH 1 (COON RAPIDS BLVD) Westbound			IBIS ST Northbound			CSAH 1 (COON RAPIDS BLVD) Eastbound			Vehicle Total	Other Total			
	Other	Right	Thru	Left	Thru	Right	Other	Right	Thru	Left	Other	Right			Thru	Left	
20:00	0	2	0	0	2	176	33	1	8	0	8	0	4	235	3	471	1
20:15	0	1	0	0	2	187	19	0	6	0	1	3	4	176	3	399	5
20:30	0	1	0	3	3	190	21	0	3	0	0	1	6	155	5	387	4
20:45	0	2	1	4	1	196	15	0	2	0	1	1	0	163	1	388	2
Hr Total	0	6	1	7	6	749	88	1	19	0	10	5	14	729	12	1645	12
21:00	0	3	0	0	0	181	19	0	5	0	3	2	2	166	1	380	2
21:15	0	2	0	2	0	180	17	0	11	1	0	0	2	173	2	392	0
21:30	0	2	0	0	1	174	16	0	9	0	0	2	6	148	1	358	3
21:45	0	2	1	0	5	150	21	0	4	0	1	1	4	133	1	317	6
Hr Total	0	9	1	2	6	685	73	0	29	1	4	5	14	620	5	1447	11

\*TOTAL\* 7 116 7 43 364 102 14866 1251 17 674 8 75 338 197 15053 124 32516 726

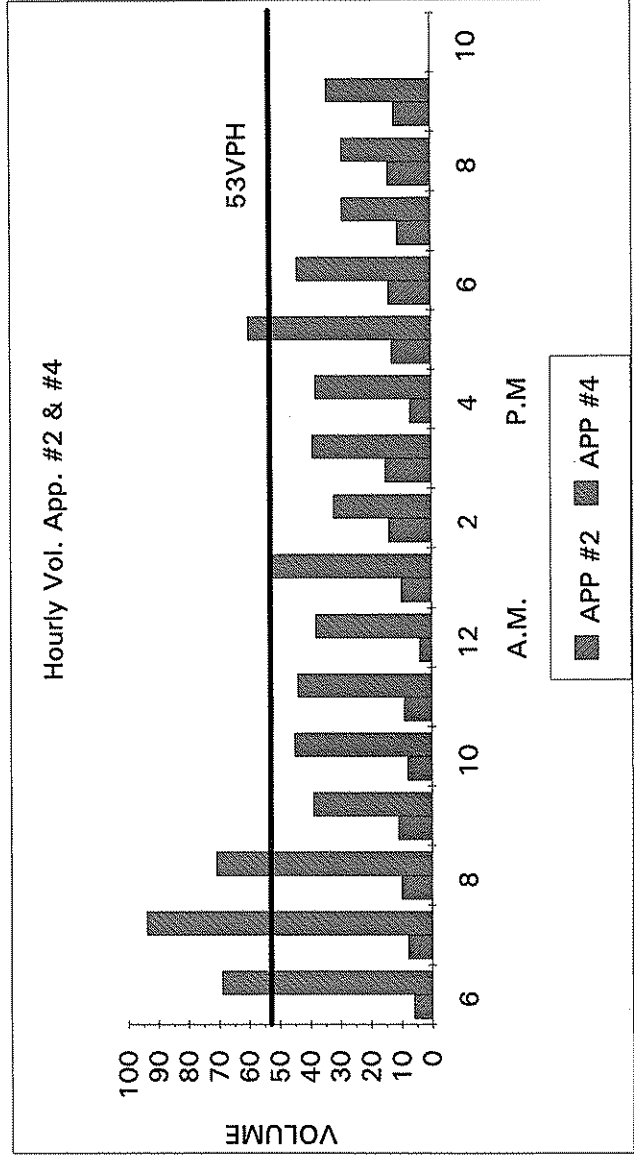
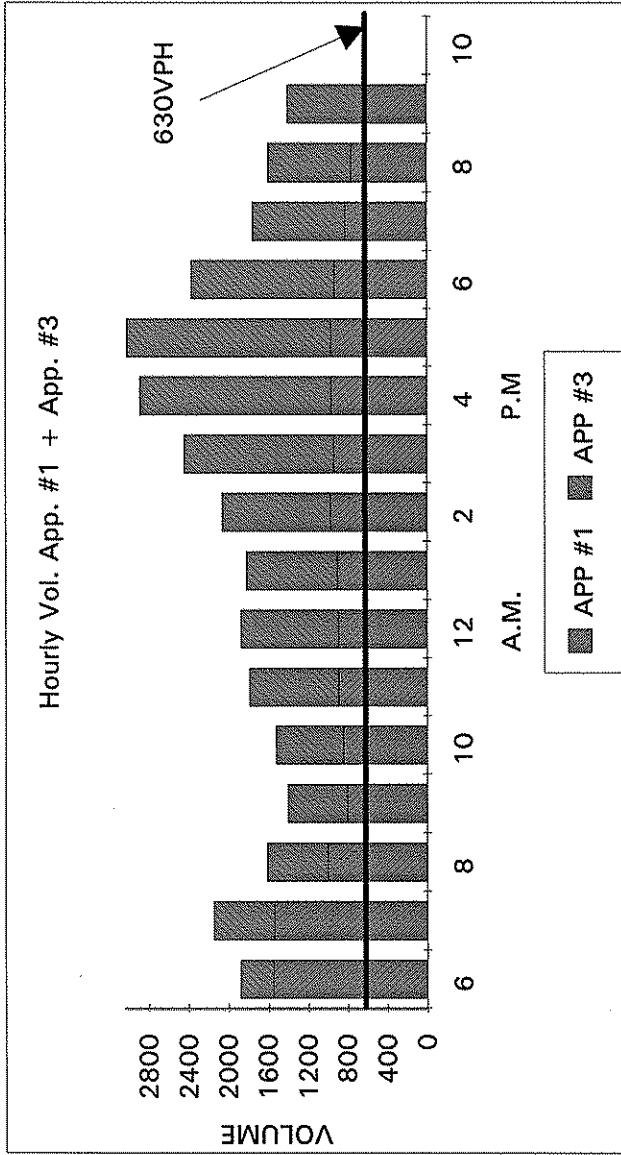
TMC9520 STOP WARRANT STUDY



TMC9520 SIGNAL WARRANT 1 STUDY

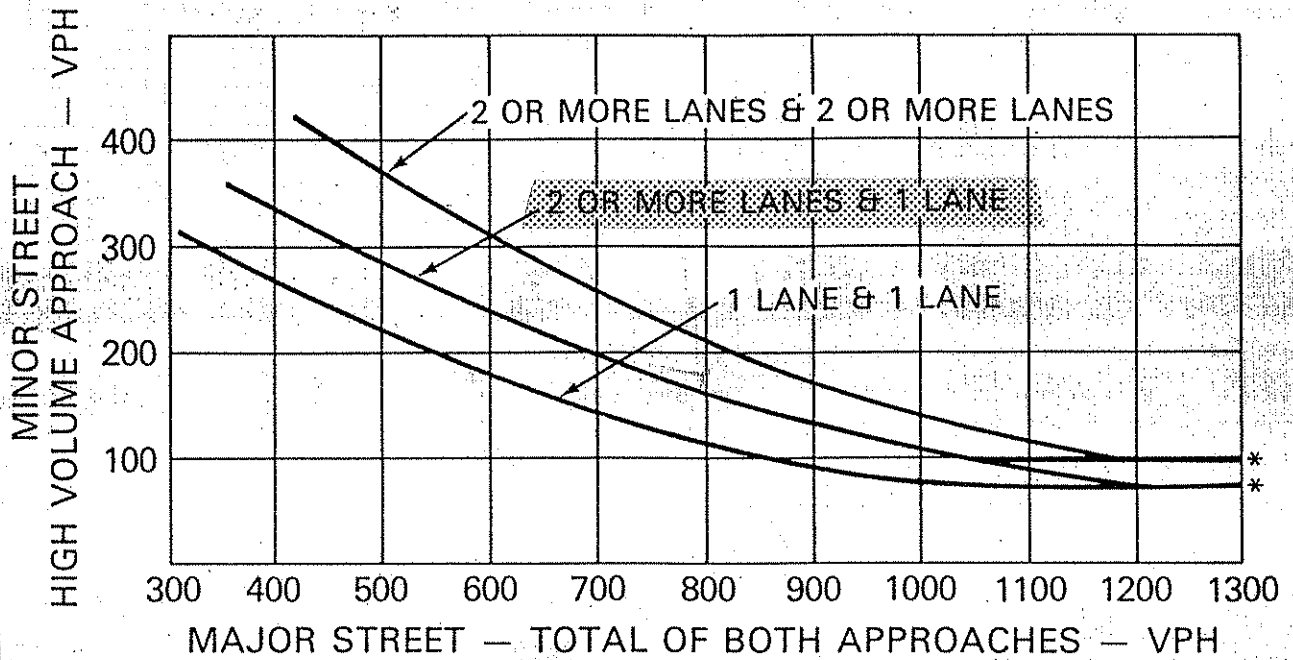


TMC9520 SIGNAL WARRANT 2 STUDY



# 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.

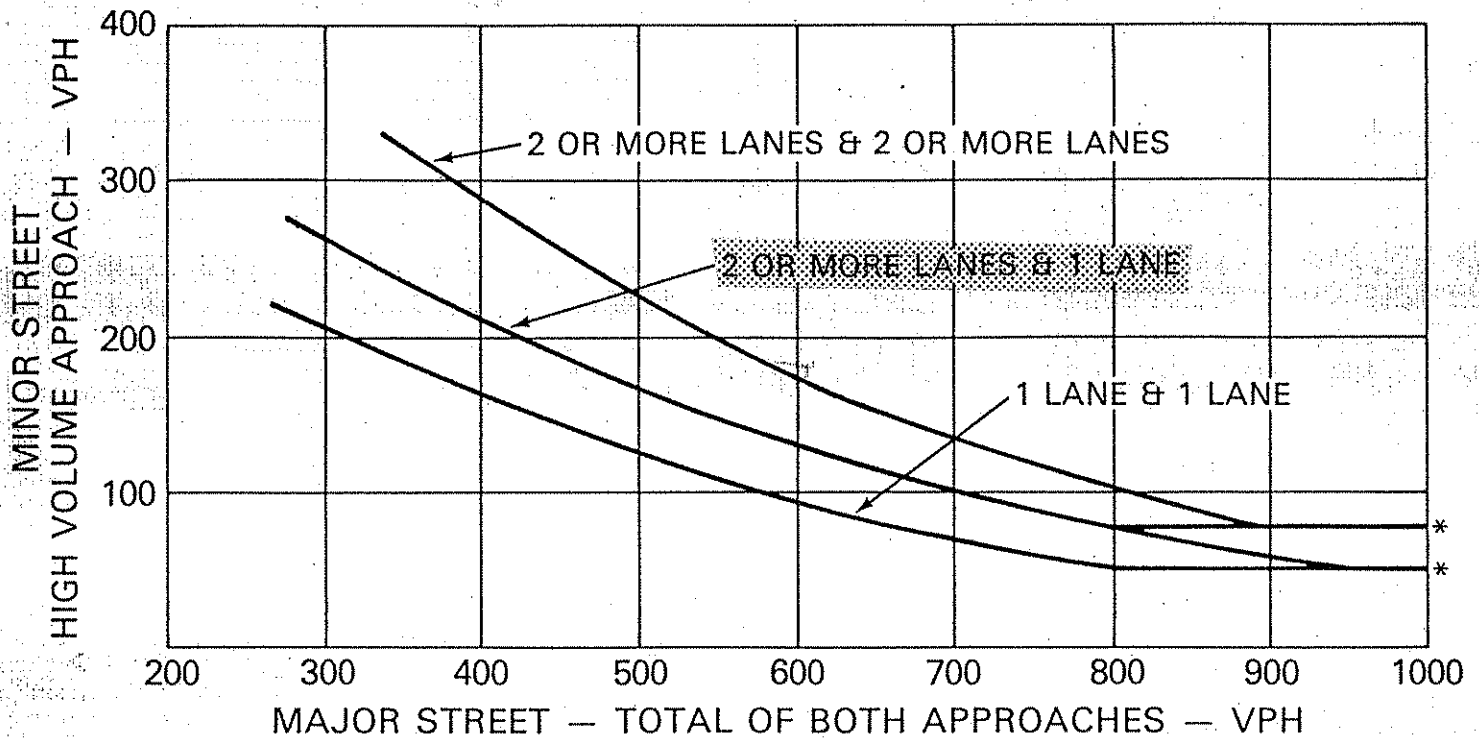
TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
★ 6-7 am	1880	69
7-8 am	2151	94
8-9 am	1616	71
9-10 am	1405	39
10-11 am	1527	45
11-12 pm	1791	44
12-1 pm	1873	38
1-2 pm	1818	52
2-3 pm	2061	32
3-4 pm	2444	39
4-5 pm	2887	38
5-6 pm	3016	60
6-7 pm	2367	44
7-8 pm	1754	29
8-9 pm	1602	29
9-10 pm	1401	34

TMC 9520 CSAH 1 (COON RAPIDS BLVD) @ IBIS ST (L.O. JACOBS SCHOOL)



# 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	1880	69
★ 7-8 am	2151	94
★ 8-9 am	1616	71
9-10 am	1405	39
10-11 am	1527	45
11-12 pm	1791	44
12-1 pm	1873	38
1-2 pm	1818	52
2-3 pm	2061	32
3-4 pm	2444	39
4-5 pm	2887	38
★ 5-6 pm	3016	60
6-7 pm	2367	44
7-8 pm	1754	29
8-9 pm	1602	29
9-10 pm	1401	34

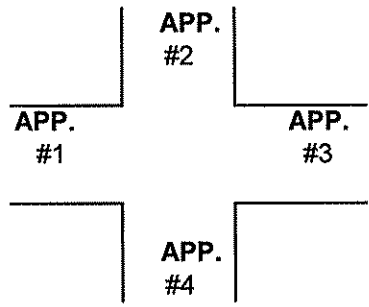
MC 9520 CSAH 1 (COON RAPIDS BLVD) @ IBIS ST (L.O. JACOBS SCHOOL)



**COUNT LOCATION:** CSAH 1 (COON RAPIDS BLVD) @  
IBIS ST

**DATE:** 7/26/95

APP.#1= EB CSAH 1  
COON RAPIDS BLVD  
APP.#2= SB  
HUMMINGBIRD ST  
APP.#3= WB CSAH 1  
COON RAPIDS BLVD  
APP.#4= NB  
IBIS ST



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						4		2
6:15-6:30						9		2
6:30-6:45						7		5
6:45-7:00						13		3
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>45</b>
7:00-7:15						7		5
7:15-7:30						7		2
7:30-7:45						8		5
7:45-8:00						8		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>44</b>
8:00-8:15						6		2
8:15-8:30						12		1
8:30-8:45						17		1
8:45-9:00						8		6
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>53</b>
9:00-9:15						11		1
9:15-9:30						10		3
9:30-9:45						12	1	4
9:45-10:00						25	1	1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>69</b>
10:00-10:15						20	1	2
10:15-10:30						12		
10:30-10:45			1		1	13		1
10:45-11:00						13		4
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>66</b>
11:00-11:15						12	1	2
11:15-11:30						21	3	1
11:30-11:45		1				14		2
11:45-12:00						13		3
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>72</b>
12:00-12:15						7		4
12:15-12:30						13		1
12:30-12:45						10		1
12:45-1:00						15		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>53</b>
1:00-1:15	2				2	13		1
1:15-1:30						17		
1:30-1:45						20		1
1:45-2:00						16		
<b>HOURLY TOTAL</b>					<b>2</b>	<b>HOURLY TOTAL</b>		<b>68</b>



**NORTH**

**COUNT LOCATION:** CSAH 1 (COON RAPIDS BLVD @  
IBIS ST

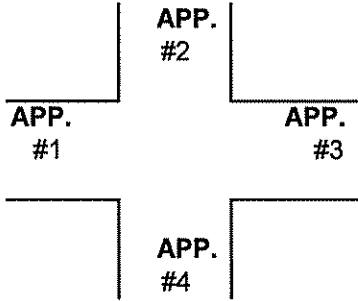
**DATE:** 7/24/95

APP. #1= EB CSAH 1  
COON RAPIDS BLVD

APP. #2=  
SB HUMMINGBIRD ST

WB CSAH 1  
COON RAPIDS BLVD

APP. #4=  
NB HUMMINGBIRD ST



- 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						10		1
2:15-2:30						17		1
2:30-2:45						13		1
2:45-3:00						15		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>58</b>
3:00-3:15						11		1
3:15-3:30						14		1
3:30-3:45						21	1	1
3:45-4:00						8		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>59</b>
4:00-4:15						15		2
4:15-4:30						7		2
4:30-4:45						8		3
4:45-5:00						7		1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>45</b>
5:00-5:15						10		2
5:15-5:30	1				1	2		1
5:30-5:45						2		1
5:45-6:00	2				2	7		5
<b>HOURLY TOTAL</b>					<b>3</b>	<b>HOURLY TOTAL</b>		<b>30</b>
6:00-6:15						6		
6:15-6:30	1				1	2		1
6:30-6:45		1			1	4		2
6:45-7:00	1	1			2	2		1
<b>HOURLY TOTAL</b>					<b>4</b>	<b>HOURLY TOTAL</b>		<b>18</b>
7:00-7:15						4		
7:15-7:30								1
7:30-7:45								1
7:45-8:00						3		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>9</b>
8:00-8:15								
8:15-8:30						5		
8:30-8:45						2		2
8:45-9:00						1	1	
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>11</b>
9:00-9:15						2		
9:15-9:30								
9:30-9:45						2		1
9:45-10:00						4	1	1
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>11</b>