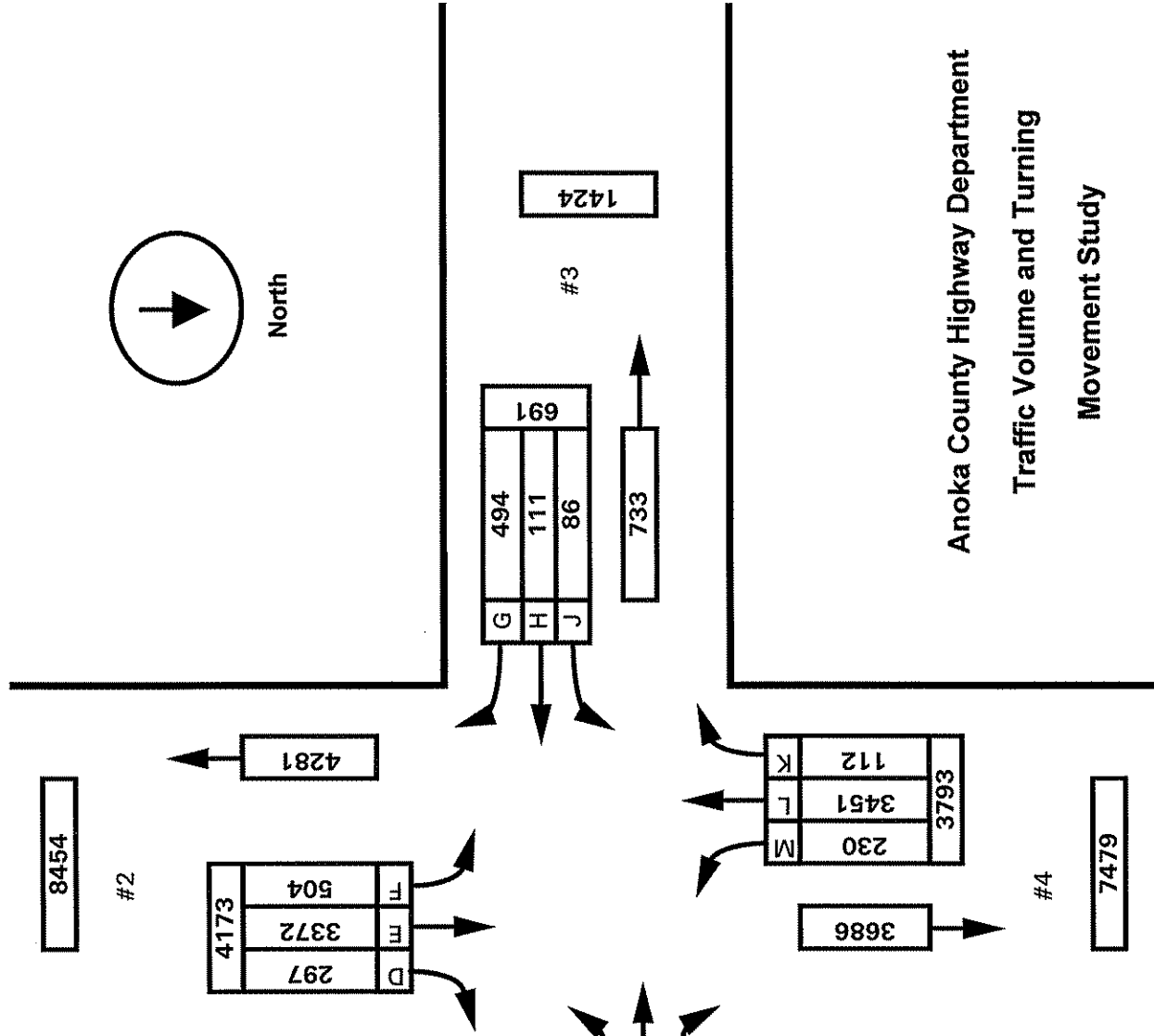


Date: 8/9/95AM 8/7/95PM
 Count Number: TMC 9525
 Location: CSAH 18 (COON CREEK BLVD) @ 131ST AVE NW



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	0	1	2
#3	0	0	1	1
#4	1	0	1	2

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

Site Code 5250201
 Start Date 08/07/95
 File I.D. : TMC95255
 Page : 1

Counter : TDC - LIGHT
 Counted by LAURIE AND ANN

Vehicle group 1

Date	CSAH 18 (COON CREEK BLVD) Southbound				131ST AVE NW Westbound				CSAH 18 (COON CREEK BLVD) Northbound				131ST AVE NW Eastbound				Vehicle Total	Other Total	
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left			
06:00	2	0	96	2	0	0	6	0	0	0	12	0	0	0	10	0	0	127	2
06:15	4	0	136	1	0	2	9	0	0	1	13	0	0	0	19	0	0	181	4
06:30	3	3	144	0	0	4	11	0	0	1	9	0	0	0	13	0	0	186	3
06:45	2	2	128	3	0	1	10	0	0	1	22	2	0	0	24	1	1	195	2
Hr Total	11	5	504	6	0	8	36	0	0	3	56	2	0	0	66	2	1	689	11
07:00	2	1	119	5	0	3	14	1	1	1	22	3	0	0	22	1	2	194	3
07:15	2	2	142	2	0	1	14	2	3	3	32	0	0	0	19	1	3	220	4
07:30	1	1	124	2	0	5	7	1	1	1	33	1	0	0	9	0	0	183	2
07:45	0	2	124	2	0	4	10	1	3	3	25	2	1	1	13	1	1	187	2
Hr Total	5	6	509	11	0	13	45	5	8	8	112	6	1	1	63	3	6	784	11
08:00	4	1	82	2	0	7	9	1	1	1	25	5	0	0	9	0	2	143	5
08:15	1	0	61	3	0	2	4	2	2	2	18	1	0	0	7	1	0	99	3
08:30	1	3	55	0	0	4	5	0	2	2	12	1	1	0	12	1	3	99	1
08:45	1	0	58	3	0	3	6	0	0	0	25	4	0	0	19	0	1	119	1
Hr Total	7	4	256	8	0	16	24	3	5	5	80	11	0	0	47	2	6	460	10
09:00	1	1	39	2	0	5	5	0	2	2	22	4	0	0	6	1	0	89	1
09:15	0	1	51	0	0	3	8	0	3	3	23	1	0	0	10	1	2	104	0
09:30	1	1	44	1	1	1	5	2	1	1	31	3	3	1	7	3	0	98	5
09:45	0	1	52	0	0	2	3	1	0	0	20	5	1	1	6	0	1	93	2
Hr Total	2	4	186	3	1	11	21	3	6	6	96	13	2	2	29	5	3	384	8
10:00	0	2	27	4	1	1	4	1	3	3	31	3	0	0	4	0	1	83	2
10:15	0	1	36	2	0	3	7	3	3	3	27	2	2	2	8	1	1	92	5
10:30	1	1	40	2	1	1	3	2	1	1	21	4	0	0	6	2	0	85	4
10:45	0	0	31	2	0	3	6	3	1	1	22	2	1	3	3	0	0	71	4
Hr Total	1	4	134	10	2	8	20	9	8	8	101	11	3	3	21	3	2	331	15
11:00	2	0	38	4	0	5	2	0	4	4	29	5	0	0	7	1	1	97	2
11:15	1	1	33	4	0	6	2	2	1	1	38	8	0	0	6	1	1	102	3
11:30	0	0	38	4	0	3	1	4	1	1	26	5	0	0	7	2	2	89	4
11:45	2	2	41	6	0	4	4	1	4	4	35	8	0	0	1	3	3	112	3
Hr Total	5	3	150	18	0	18	9	7	10	10	128	26	0	0	21	7	7	400	12
12:00	4	1	40	4	0	2	2	1	2	2	38	5	0	0	7	2	1	108	5
12:15	2	2	35	5	2	4	3	1	5	5	37	6	1	1	7	2	3	110	6
12:30	1	1	46	3	1	3	1	0	5	5	35	3	0	0	6	0	2	105	2
12:45	1	2	44	1	0	1	9	2	2	2	31	4	1	1	7	1	3	105	4
Hr Total	8	6	165	13	3	10	15	4	14	14	141	18	2	2	27	5	9	428	17

Vehicle group 1

Date	CSAH 18 (COON CREEK BLVD) Southbound				131ST AVE NW Westbound				131ST AVE NW Eastbound				Vehicle Total			
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Total		
13:00	1	1	49	1	0	2	5	3	3	3	39	9	0	4	1	120
13:15	4	3	37	4	1	2	1	4	0	3	35	5	0	3	3	102
13:30	2	1	50	2	0	6	1	5	2	3	38	6	0	7	0	120
13:45	0	0	35	1	0	2	4	2	0	2	44	7	0	16	2	122
Hr Total	7	5	171	8	1	12	11	14	5	11	156	27	0	30	6	464
14:00	3	0	52	5	0	1	1	6	3	2	36	6	0	7	2	120
14:15	6	5	44	2	0	1	0	4	1	4	41	3	0	8	0	112
14:30	3	2	57	1	1	2	3	4	1	6	37	10	1	7	3	132
14:45	1	3	46	3	1	1	3	6	2	6	40	6	0	6	1	121
Hr Total	13	10	199	11	2	5	7	20	7	18	154	25	1	28	6	485
15:00	1	4	41	4	1	3	6	3	2	5	62	13	1	6	1	150
15:15	1	1	38	2	0	2	1	4	0	9	69	12	1	7	2	147
15:30	1	2	51	3	0	1	4	8	2	12	79	13	0	3	5	183
15:45	1	3	45	9	0	4	0	5	0	11	104	7	0	5	2	195
Hr Total	4	10	175	18	1	10	11	20	4	37	314	45	2	21	8	675
16:00	1	0	47	4	0	2	5	4	8	11	138	25	0	5	1	244
16:15	0	5	38	2	1	4	2	3	2	14	97	11	1	10	6	197
16:30	0	1	44	3	0	4	1	4	1	13	129	16	0	5	1	221
16:45	1	4	56	8	0	4	5	7	3	14	140	17	0	8	1	266
Hr Total	2	10	185	17	1	14	13	18	14	52	504	69	1	28	10	928
17:00	0	3	47	5	0	4	5	6	3	9	126	20	0	8	4	241
17:15	0	0	52	5	0	7	1	7	0	14	149	28	0	4	1	272
17:30	0	2	58	6	0	6	2	5	2	7	138	17	0	9	5	258
17:45	0	2	61	7	0	8	2	8	1	12	133	21	1	8	2	265
Hr Total	0	7	218	23	0	25	10	26	6	42	546	86	1	29	12	1036
18:00	1	2	57	1	0	7	2	4	0	11	103	15	0	2	2	208
18:15	0	2	62	8	0	4	3	7	1	5	98	18	0	6	4	219
18:30	0	2	45	5	0	11	1	5	1	3	75	19	0	9	2	177
18:45	1	1	48	3	0	8	5	5	0	7	74	9	0	5	3	169
Hr Total	2	7	212	17	0	30	11	21	2	26	350	61	0	22	11	773
19:00	0	1	35	3	0	6	2	4	0	6	66	10	0	6	2	144
19:15	0	2	40	5	0	2	3	4	0	7	51	14	0	6	4	140
19:30	0	6	44	5	0	7	0	7	1	3	39	16	0	5	1	135
19:45	0	1	43	7	0	3	4	2	1	6	52	10	0	3	2	134
Hr Total	0	10	162	20	0	18	9	17	2	22	208	50	0	20	9	553

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

Site Cod/ 95250201
 Start Date 08/07/95
 File I.D. : TMC9525
 Page : 3

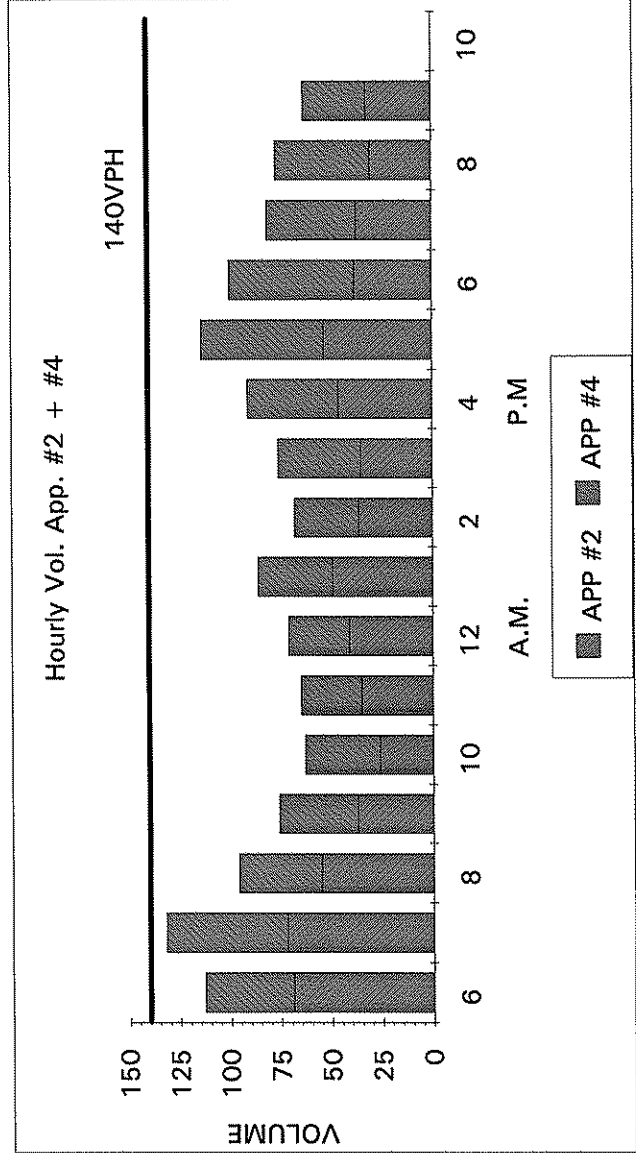
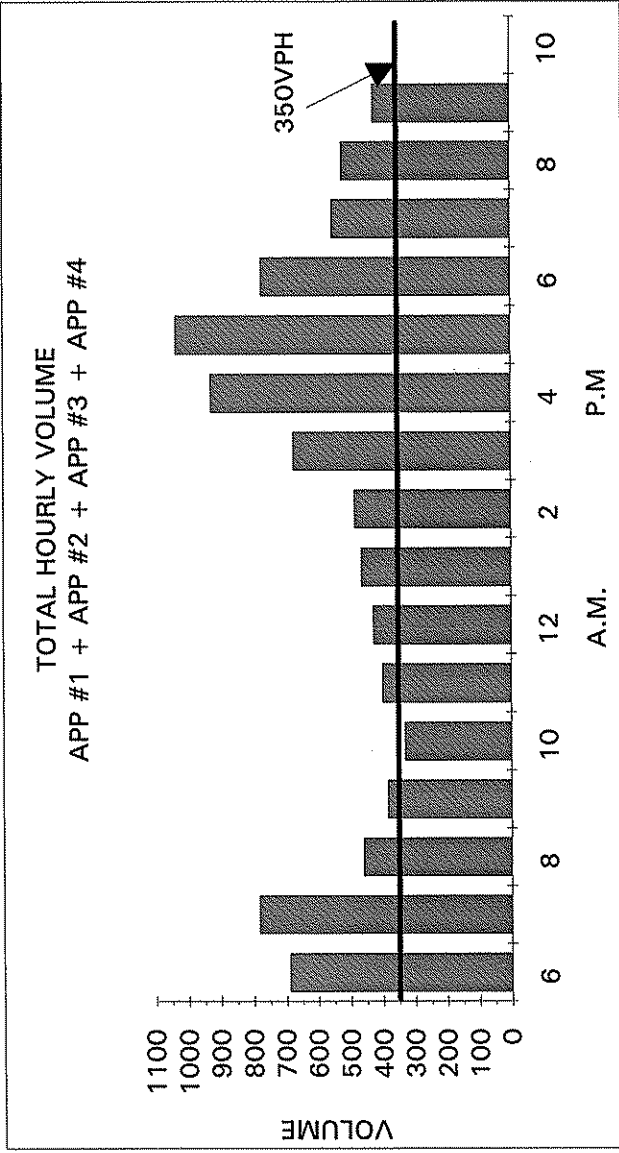
Counter : T. EIGHT
 Counted by LAURIE AND ANN

Vehicle group 1

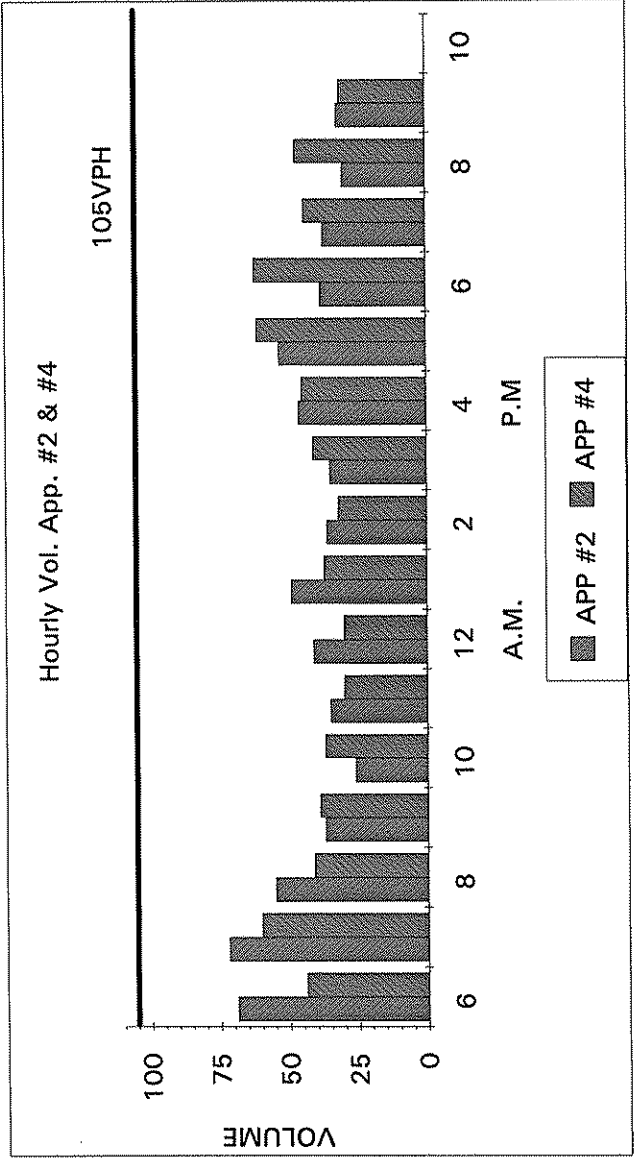
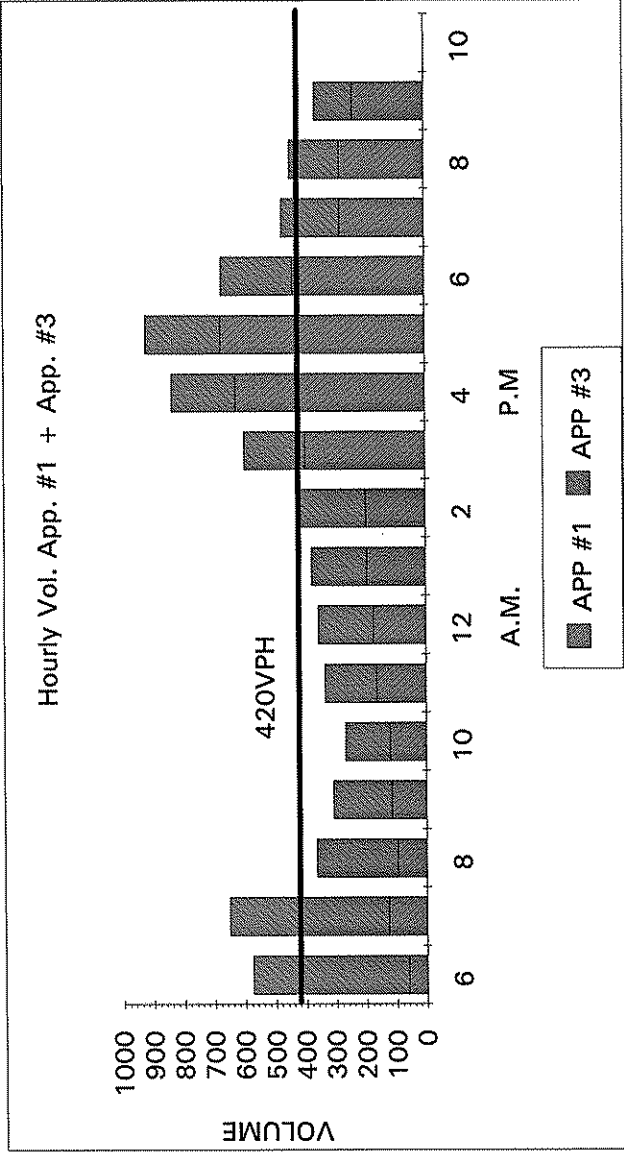
Date	CSAH 18 (COON CREEK BLVD) Southbound			131ST AVE NW Westbound			CSAH 18 (COON CREEK BLVD) Northbound			131ST AVE NW Eastbound			Vehicle			
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Total	Other	Total	
20:00	1	0	40	7	0	4	1	3	0	6	50	10	0	4	0	129
20:15	0	1	28	8	0	5	1	7	0	7	62	11	0	4	0	134
20:30	0	6	34	4	0	3	3	3	0	3	58	5	0	6	0	128
20:45	0	2	30	6	0	6	4	7	0	4	60	4	0	5	1	132
Hr Total	1	9	132	25	0	18	9	20	0	20	230	30	0	19	1	523
21:00	1	3	41	6	0	2	1	2	1	7	54	8	0	12	3	139
21:15	0	3	21	3	0	6	4	3	0	3	61	6	0	4	1	116
21:30	2	1	20	10	0	2	4	1	0	3	50	4	0	5	0	102
21:45	0	5	11	3	0	2	0	4	0	2	31	6	0	2	0	68
Hr Total	3	12	93	22	0	12	9	10	1	15	196	24	0	23	4	425

TOTAL 71 112 3451 230 11 228 117 336 72 297 3372 504 13 494 111 86 9338 167

TMC9525 STOP WARRANT STUDY



TMC9525 SIGNAL WARRANT 1 STUDY



TMC9525 SIGNAL WARRANT 2 STUDY

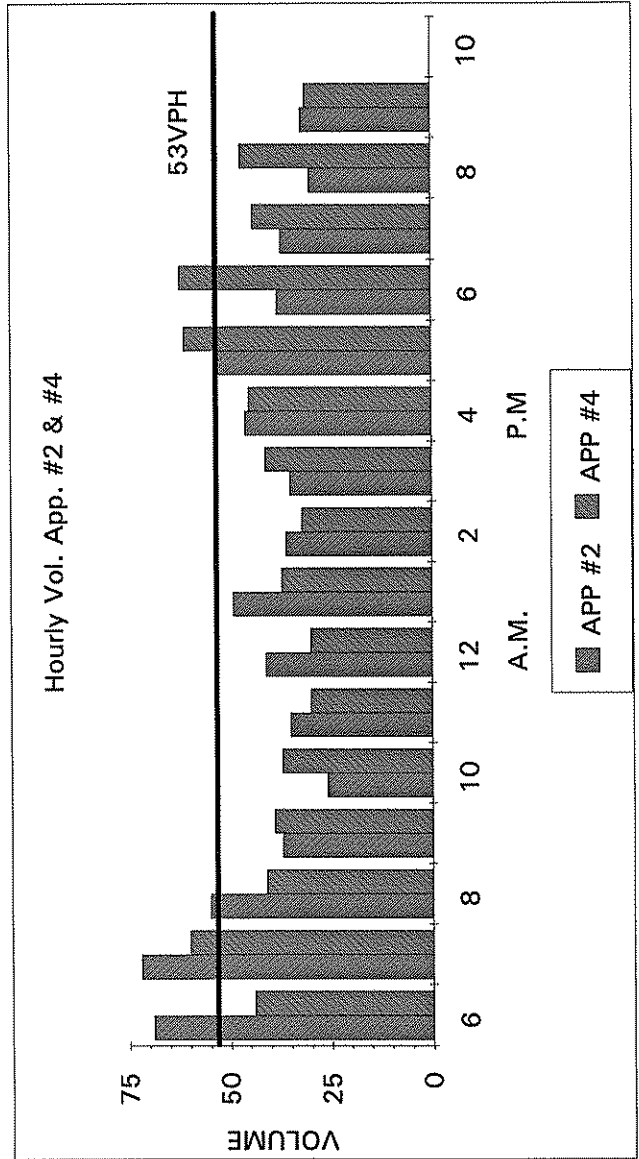
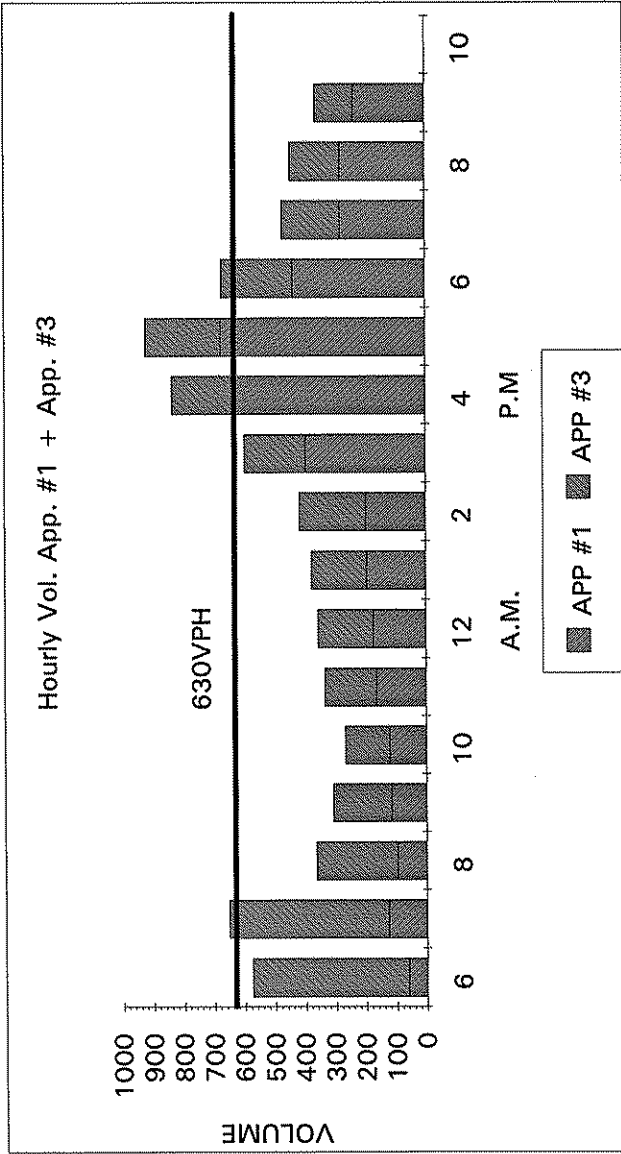
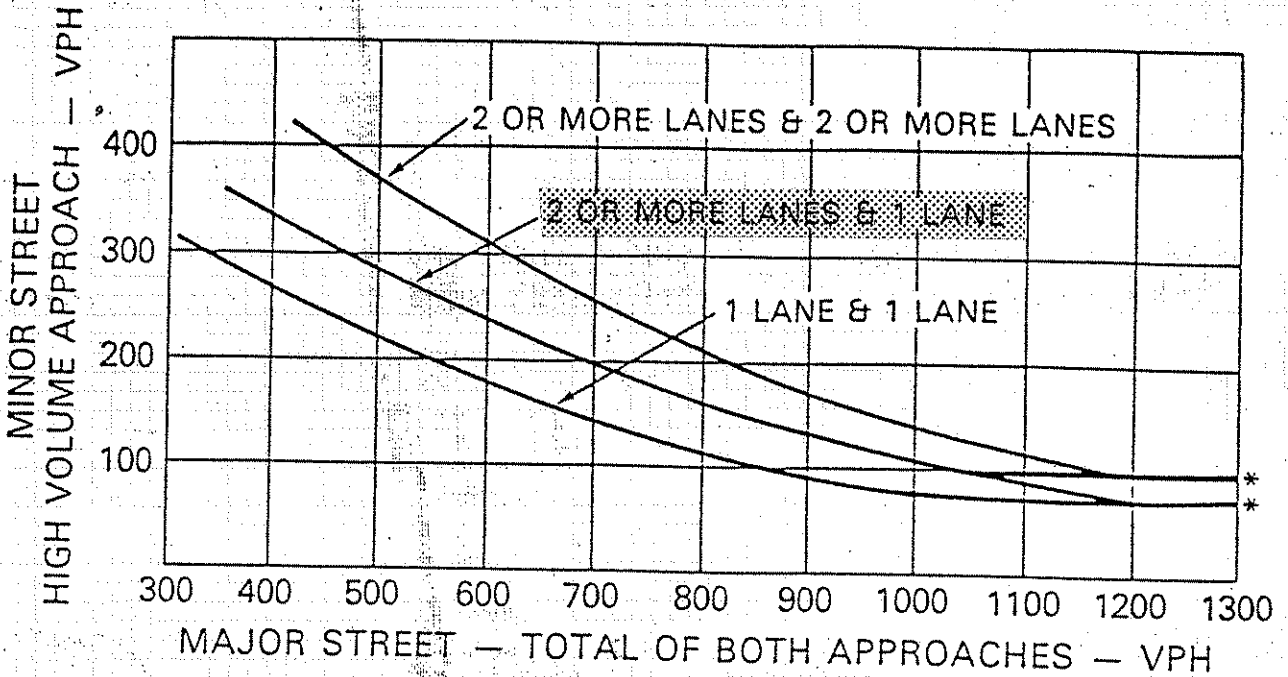


FIGURE 4-6. PEAK HOUR VOLUME WARRANT

(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.

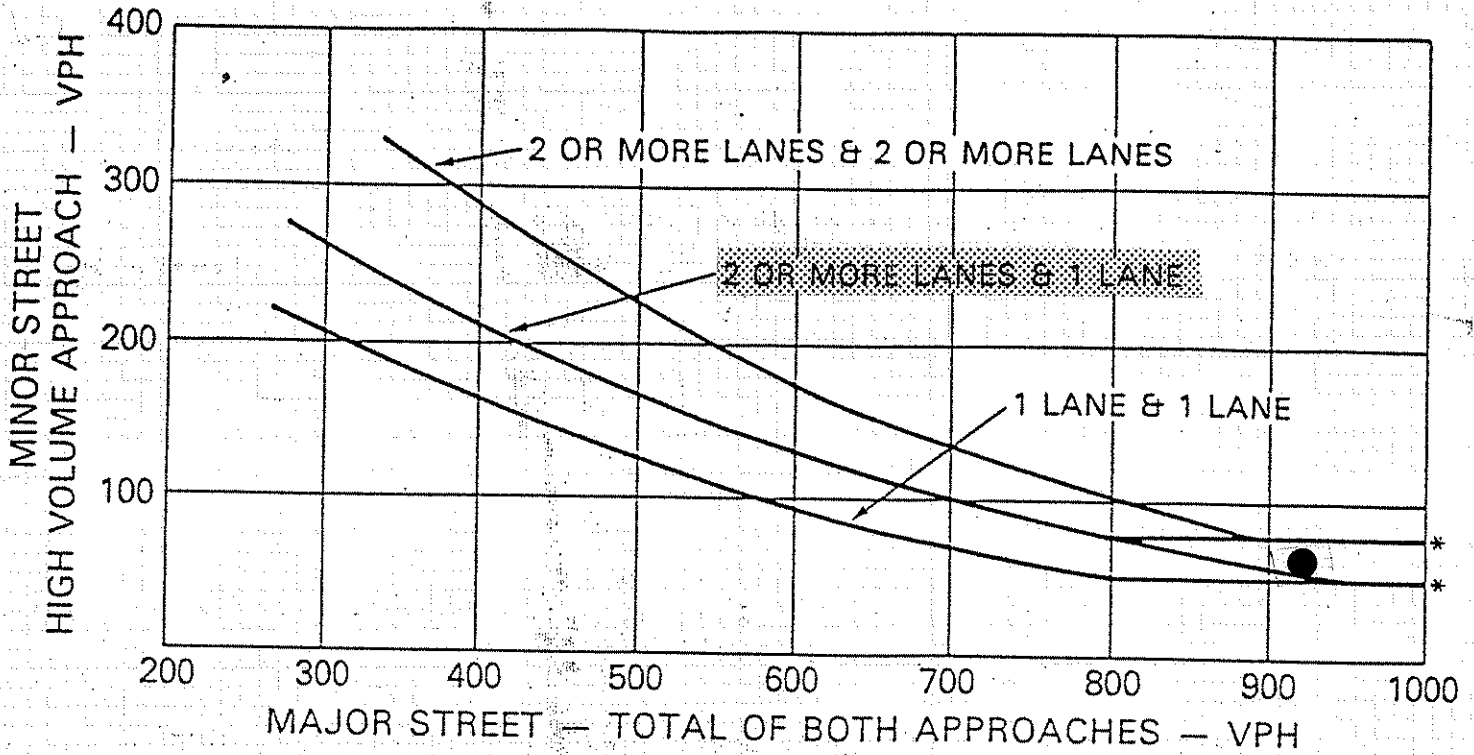
● = VOLUMES WHICH EXCEED THE THRESHOLD AND ARE REPRESENTED ON THE GRAPH.

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

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	576	69
7-8 am	652	72
8-9 am	364	55
9-10 am	308	39
10-11 am	268	37
11-12 pm	335	35
12-1 pm	357	41
1-2 pm	378	49
2-3 pm	417	36
3-4 pm	599	41
4-5 pm	837	46
5-6 pm	922	61
6-7 pm	673	62
7-8 pm	472	44
8-9 pm	446	47
9-10 pm	362	32

TMC 9525 CSAH 18 (COON CREEK BLVD) @ 131ST AVE NW

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

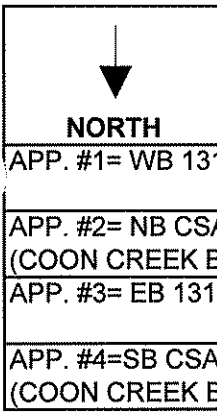


*NOTE: 80 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 60 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

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

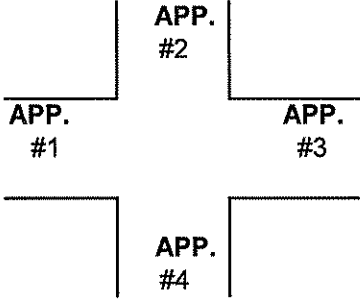
★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	576	69
7-8 am	652	72
8-9 am	364	55
9-10 am	308	39
10-11 am	268	37
11-12 pm	335	35
12-1 pm	357	41
1-2 pm	378	49
2-3 pm	417	36
3-4 pm	599	41
4-5 pm	837	46
● 5-6 pm	922	61
6-7 pm	673	62
7-8 pm	472	44
8-9 pm	446	47
9-10 pm	362	32



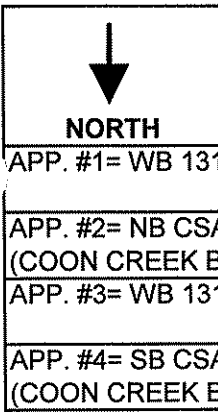
COUNT LOCATION: CSAH 18 (COON CREEK BLVD)
@ 131ST AVE NW

DATE: 8/9/95



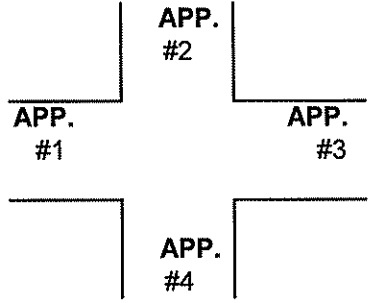
- HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
- A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
 - B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR 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
6:00-6:15AM						2		
6:15-6:30						4		
6:30-6:45						2		
6:45-7:00						1		
HOURLY TOTAL						HOURLY TOTAL		9
7:00-7:15	1				1	3		
7:15-7:30			1		1	4		
7:30-7:45						2		
7:45-8:00						1	1	
HOURLY TOTAL					2	HOURLY TOTAL		11
8:00-8:15						2		2
8:15-8:30						3		
8:30-8:45						1		
8:45-9:00						1		
HOURLY TOTAL						HOURLY TOTAL		9
9:00-9:15						1		
9:15-9:30						1		
9:30-9:45						3		1
9:45-10:00						2		
HOURLY TOTAL						HOURLY TOTAL		8
10:00-10:15						2		
10:15-10:30						5		
10:30-10:45						4		
10:45-11:00						4		
HOURLY TOTAL						HOURLY TOTAL		15
11:00-11:15						2		
11:15-11:30						3		
11:30-11:45						4		
11:45-12:00						4		
HOURLY TOTAL						HOURLY TOTAL		13
12:00-12:15						5		
12:15-12:30						5		1
12:30-12:45						2		
12:45-1:00						2		
HOURLY TOTAL						HOURLY TOTAL		15
1:00-1:15						4		
1:15-1:30						4	1	
1:30-1:45						3	1	
1:45-2:00								
HOURLY TOTAL						HOURLY TOTAL		13



COUNT LOCATION: CSAH 18 (COON CREEK BLVD)
@ 131ST AVE NW

DATE: 8/7/95



- 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						6		
2:15-2:30						7		
2:30-2:45						6		
2:45-3:00						4		
HOURLY TOTAL								23
3:00-3:15						5		
3:15-3:30						2		
3:30-3:45						4		
3:45-4:00								
HOURLY TOTAL						HOURLY TOTAL		11
4:00-4:15						8	3	
4:15-4:30						4	2	
4:30-4:45						2		
4:45-5:00						3		
HOURLY TOTAL						HOURLY TOTAL		22
5:00-5:15						3		
5:15-5:30								
5:30-5:45						2		
5:45-6:00						1		
HOURLY TOTAL						HOURLY TOTAL		6
6:00-6:15						1		
6:15-6:30						1		
6:30-6:45						1		
6:45-7:00								
HOURLY TOTAL						HOURLY TOTAL		3
7:00-7:15								
7:15-7:30				1	1			
7:30-7:45						1		
7:45-8:00						1		
HOURLY TOTAL					1	HOURLY TOTAL		2
8:00-8:15						1		
8:15-8:30								
8:30-8:45								
8:45-9:00				1	1			
HOURLY TOTAL					1	HOURLY TOTAL		1
9:00-9:15						2		
9:15-9:30								
9:30-9:45						2		
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		4