



North

Date 6/30/93 AM 7/1/93 PM

C.S. CSAH 18 (COON CREEK BLVD.)

@ 133RD AVE

SB CSAH 18 (COON CREEK BLVD.)

H	3363	3820
J	457	

7688

#3

3868

K	492	816
M	324	

WB 133RD AVE

#4

1611

3687

3714	B	A
3376		338

#1

7401

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

NB CSAH 18 (COON CREEK BLVD.)

795

Anoka County Highway Dept.  
Traffic Volume and Turning  
Movement Study

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

Site Code : 93  
 Start Date: 06  
 File I.D. : TM  
 Page : 1

Counter :TDC EIGHT  
 Counted by:Josie/Naomi

Vehicle group 1

Date	SB COON CREEK BLVD Southbound				WB 133RD AVE Westbound				NB COON CREEK BLVD Northbound				Eastbound				Vehicle Total
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	
06/30/93																	
06:00	0	0	66	1	0	1	0	4	1	0	12	0	0	0	0	0	84
06:15	1	0	86	2	1	3	0	10	1	0	14	0	0	0	0	0	115
06:30	1	0	124	1	0	2	0	8	0	2	12	0	0	0	0	0	149
06:45	0	0	119	9	0	3	0	10	1	3	28	0	0	0	0	0	172
Hr Total	2	0	395	13	1	9	0	32	3	5	66	0	0	0	0	0	520
07:00	1	0	102	5	0	8	0	14	1	6	31	0	0	0	0	0	166
07:15	4	0	121	3	0	3	0	13	0	2	40	0	0	0	0	0	182
07:30	1	0	104	3	0	5	0	10	2	1	28	0	0	0	0	0	151
07:45	5	0	91	5	0	7	0	6	0	1	38	0	0	0	0	0	148
Hr Total	11	0	418	16	0	23	0	43	3	10	137	0	0	0	0	0	647
08:00	4	0	63	3	1	12	0	8	5	1	26	0	0	0	0	0	113
08:15	2	0	40	9	0	5	0	6	5	1	25	0	0	0	0	0	86
08:30	0	0	52	5	2	5	0	2	1	4	17	0	0	0	0	0	85
08:45	2	0	59	6	2	7	0	7	1	2	21	0	0	0	0	0	102
Hr Total	8	0	214	23	5	29	0	23	12	8	89	0	0	0	0	0	386
09:00	3	0	40	3	0	3	0	1	2	1	27	0	0	0	0	0	75
09:15	4	0	44	2	0	3	0	5	11	4	33	0	0	0	0	0	91
09:30	1	0	38	0	0	3	0	7	3	1	34	0	0	0	0	0	83
5	4	0	50	5	0	5	0	4	0	2	18	0	0	0	0	0	84
Hr Total	12	0	172	10	0	14	0	17	16	8	112	0	0	0	0	0	333
10:00	0	0	37	5	0	2	0	4	0	3	27	0	0	0	0	0	78
10:15	0	0	39	6	0	15	0	1	3	3	24	0	0	0	0	0	88
10:30	1	0	33	3	0	2	0	3	1	2	37	0	0	0	0	0	80
10:45	4	0	49	7	1	6	0	1	0	1	29	0	0	0	0	0	93
Hr Total	5	0	158	21	1	25	0	9	4	9	117	0	0	0	0	0	339
11:00	0	0	39	3	0	4	0	5	2	0	42	0	0	0	0	0	93
11:15	1	0	32	3	0	7	0	3	0	4	30	0	0	0	0	0	79
11:30	2	0	35	8	1	3	0	6	4	4	40	0	0	0	0	0	96
11:45	1	0	43	8	1	9	0	3	2	1	30	0	0	0	0	0	94
Hr Total	4	0	149	22	2	23	0	17	8	9	142	0	0	0	0	0	362
12:00	1	0	40	10	0	5	0	2	1	1	38	0	0	0	0	0	96
12:15	1	0	37	8	1	9	0	2	3	2	40	0	0	0	0	0	98
12:30	0	0	47	8	2	4	0	2	2	4	42	0	0	0	0	0	107
12:45	1	0	42	8	0	5	0	3	1	5	41	0	0	0	0	0	104
Hr Total	3	0	166	34	3	23	0	9	7	12	161	0	0	0	0	0	405

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

Site Code : 93  
 Start Date: 06  
 File I.D. : TM  
 Page : 2

Counter :TDC EIGHT  
 Counted by:Josie/Naomi

Vehicle group 1

Date	SB COON CREEK BLVD Southbound				WB 133RD AVE Westbound				NB COON CREEK BLVD Northbound				Eastbound				Vehicle Total
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	
06/30/93																	
13:00	2	0	42	9	1	7	0	2	2	4	38	0	0	0	0	0	102
13:15	2	0	35	9	1	4	0	6	0	4	41	0	0	0	0	0	99
13:30	8	0	52	3	0	2	0	6	3	4	54	0	0	0	0	0	121
13:45	7	0	57	5	0	7	0	7	3	3	42	0	0	0	0	0	121
Hr Total	19	0	186	26	2	20	0	21	8	15	175	0	0	0	0	0	443
14:00	1	0	44	6	0	10	0	3	2	2	43	0	0	0	0	0	108
14:15	2	0	57	3	0	6	0	1	1	5	47	0	0	0	0	0	119
14:30	2	0	56	11	0	6	0	1	2	0	36	0	0	0	0	0	110
14:45	1	0	39	2	0	7	0	5	2	5	46	0	0	0	0	0	104
Hr Total	6	0	196	22	0	29	0	10	7	12	172	0	0	0	0	0	441
15:00	0	0	31	6	1	9	0	3	3	10	55	0	0	0	0	0	114
15:15	1	0	42	6	1	8	0	4	3	5	67	0	0	0	0	0	132
15:30	3	0	43	4	1	6	0	9	2	5	56	0	0	0	0	0	123
15:45	0	0	44	7	1	8	0	7	0	6	101	0	0	0	0	0	173
Hr Total	4	0	160	23	4	31	0	23	8	26	279	0	0	0	0	0	542
16:00	2	0	52	11	0	10	0	4	1	13	80	0	0	0	0	0	170
16:15	0	0	51	11	0	10	0	5	3	12	120	0	0	0	0	0	209
16:30	1	0	46	11	1	10	0	5	0	12	114	0	0	0	0	0	198
16:45	1	0	55	5	0	12	0	5	6	24	109	0	0	0	0	0	210
Hr Total	4	0	204	38	1	42	0	19	10	61	423	0	0	0	0	0	787
17:00	1	0	66	9	0	14	0	2	1	10	111	0	0	0	0	0	212
17:15	2	0	63	15	0	15	0	7	0	13	130	0	0	0	0	0	243
17:30	0	0	62	14	0	17	0	6	3	8	126	0	0	0	0	0	233
17:45	1	0	64	10	0	16	0	4	2	6	130	0	0	0	0	0	230
Hr Total	4	0	255	48	0	62	0	19	6	37	497	0	0	0	0	0	918
18:00	1	0	52	12	0	13	0	6	0	11	120	0	0	0	0	0	214
18:15	1	0	66	13	0	15	0	3	1	12	104	0	0	0	0	0	213
18:30	1	0	57	8	0	16	0	11	3	14	94	0	0	0	0	0	200
18:45	2	0	62	11	0	19	0	8	0	5	70	0	0	0	0	0	175
Hr Total	5	0	237	44	0	63	0	28	4	42	388	0	0	0	0	0	802
19:00	1	0	51	9	0	11	0	8	3	6	65	0	0	0	0	0	150
19:15	1	0	52	15	0	12	0	4	1	10	62	0	0	0	0	0	155
19:30	0	0	48	20	0	8	0	6	1	13	57	0	0	0	0	0	152
19:45	1	0	40	10	0	9	0	9	1	5	57	0	0	0	0	0	130
Hr Total	3	0	191	54	0	40	0	27	6	34	241	0	0	0	0	0	587

ANOKA COUNTY HIGHWAY DEPARTMENT  
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 TRAFFIC VOLUME AND  
 TURNING MOVEMENT STUDY

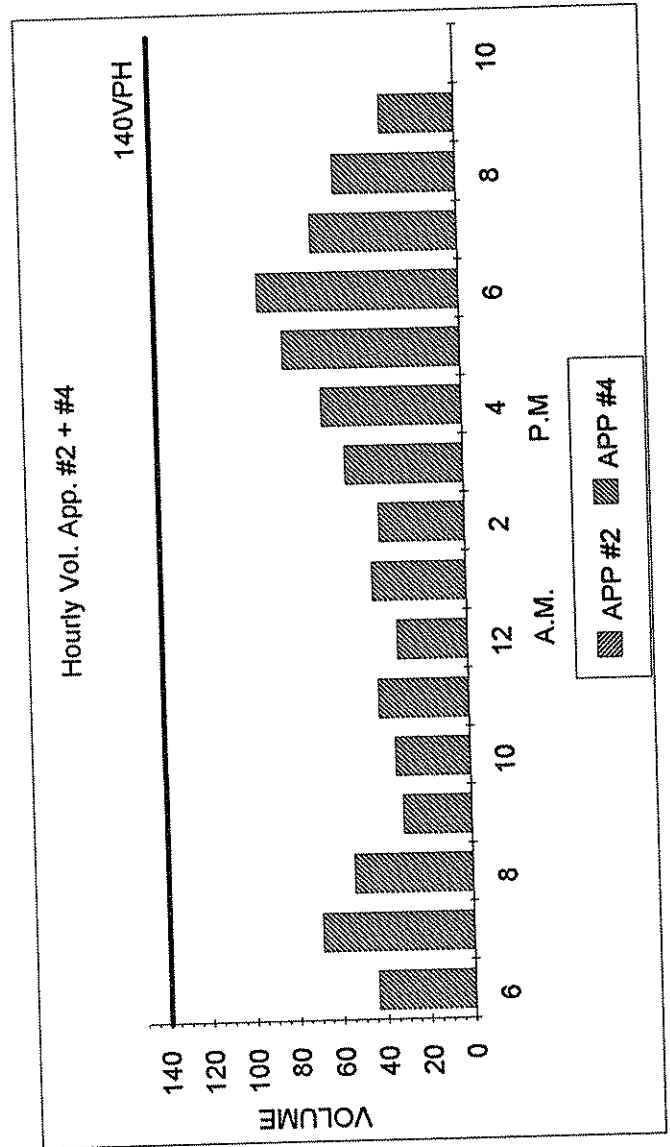
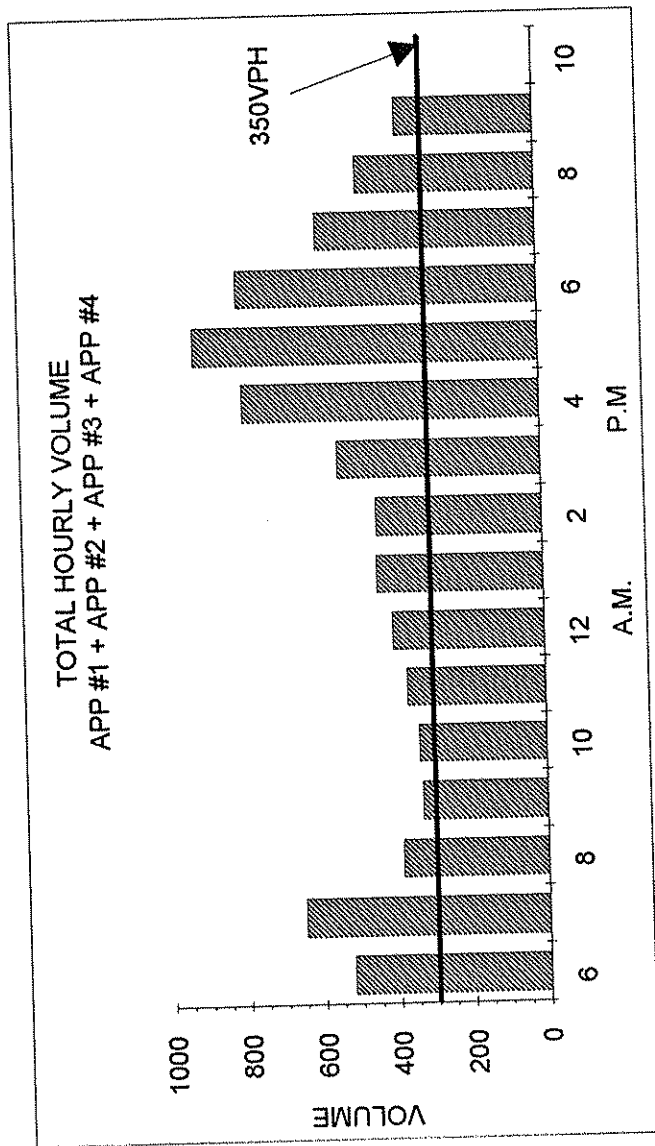
Site Code : 93  
 Start Date: 06  
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 Page : 3

Counter :TDC EIGHT  
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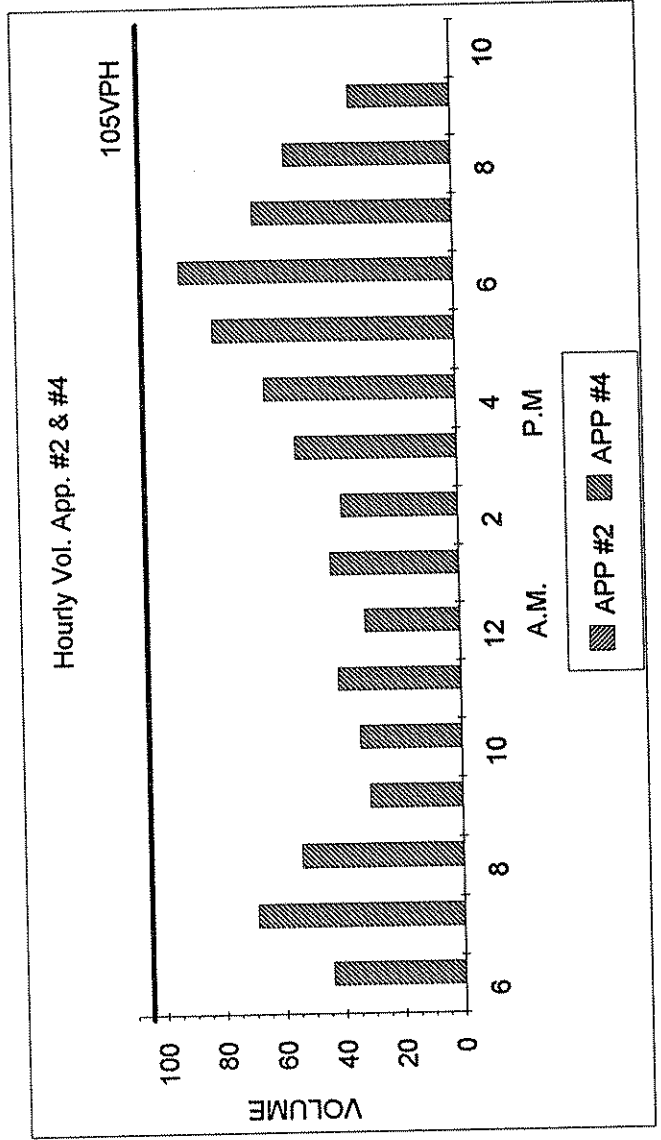
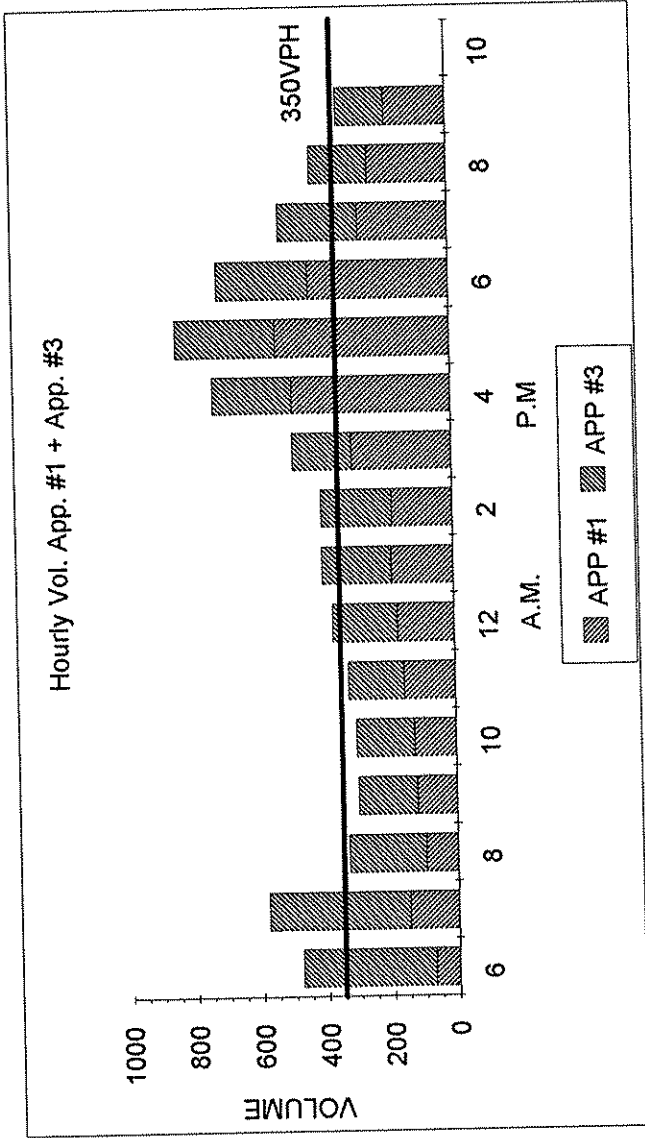
Vehicle group 1

Date	SB COON CREEK BLVD Southbound				WB 133RD AVE Westbound				NB COON CREEK BLVD Northbound				Eastbound				Vehicle Total
	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	Other	Right	Thru	Left	
20:00	0	0	37	7	0	11	0	5	1	5	60	0	0	0	0	0	125
20:15	0	0	35	12	0	12	0	4	1	6	54	0	0	0	0	0	123
20:30	0	0	39	8	0	8	0	6	0	8	41	0	0	0	0	0	110
20:45	0	0	31	8	0	3	0	3	0	9	57	0	0	0	0	0	111
Hr Total	0	0	142	35	0	34	0	18	2	28	212	0	0	0	0	0	469
21:00	0	0	39	4	0	9	0	3	0	7	39	0	0	0	0	0	101
21:15	0	0	33	9	0	6	0	4	0	7	51	0	0	0	0	0	110
21:30	0	0	28	8	0	4	0	0	0	6	40	0	0	0	0	0	86
21:45	0	0	20	7	0	6	0	2	0	2	35	0	0	0	0	0	72
Hr Total	0	0	120	28	0	25	0	9	0	22	165	0	0	0	0	0	369
*TOTAL*	90	0	3363	457	19	492	0	324	104	338	3376	0	0	0	0	0	8350

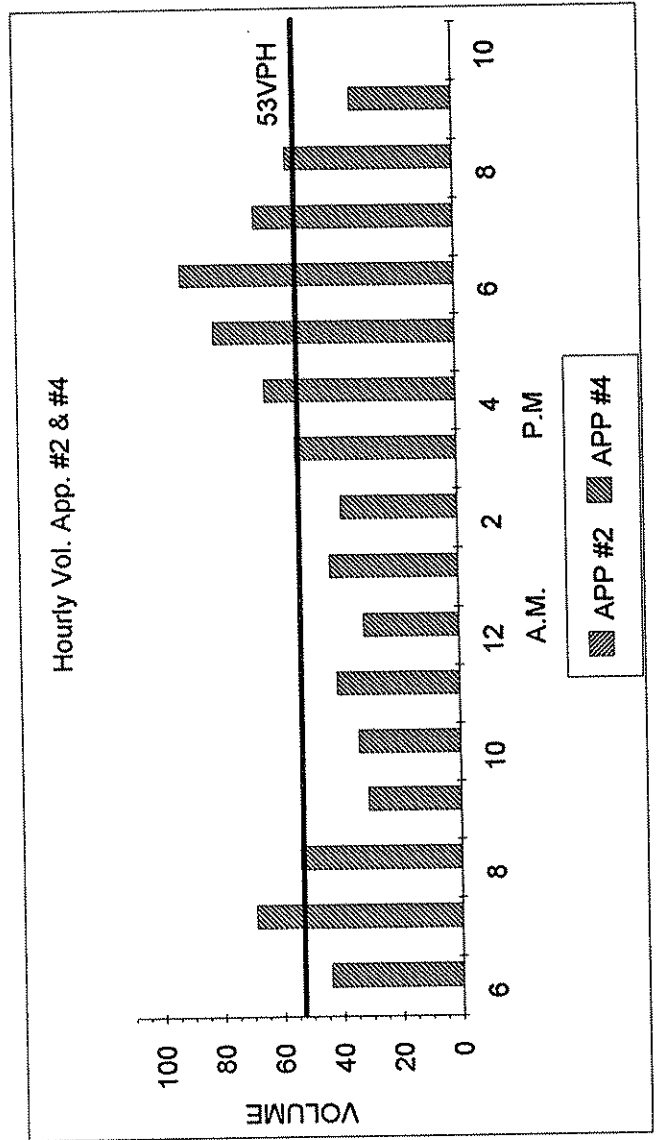
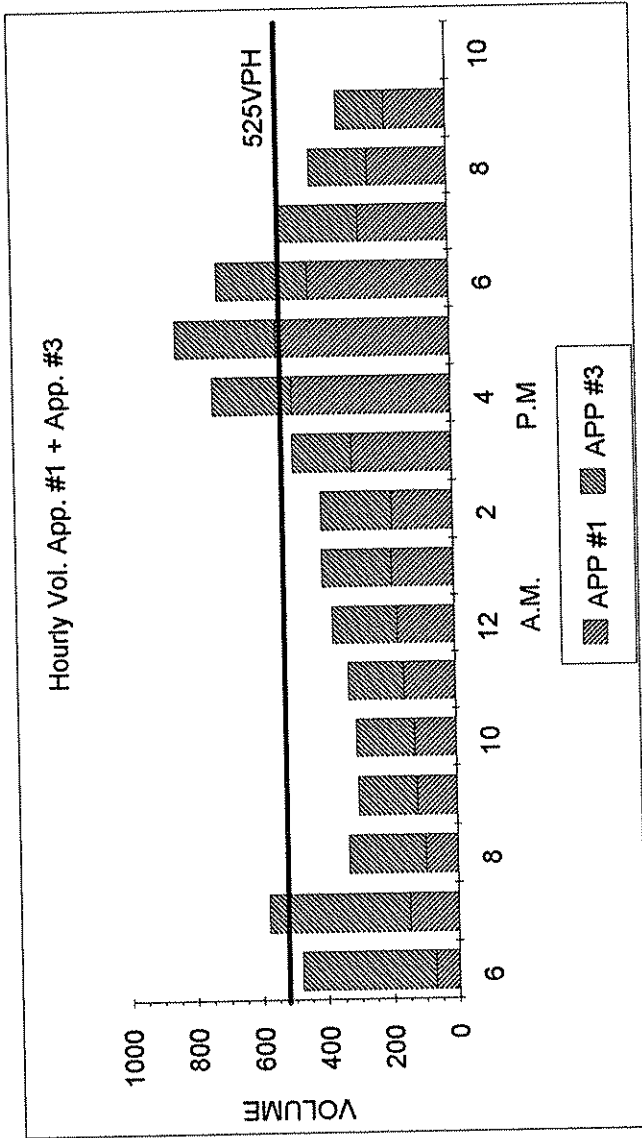
TMC9315 STOP WARRANT STUDY



TMC9315 SIGNAL WARRANT 1 STUDY

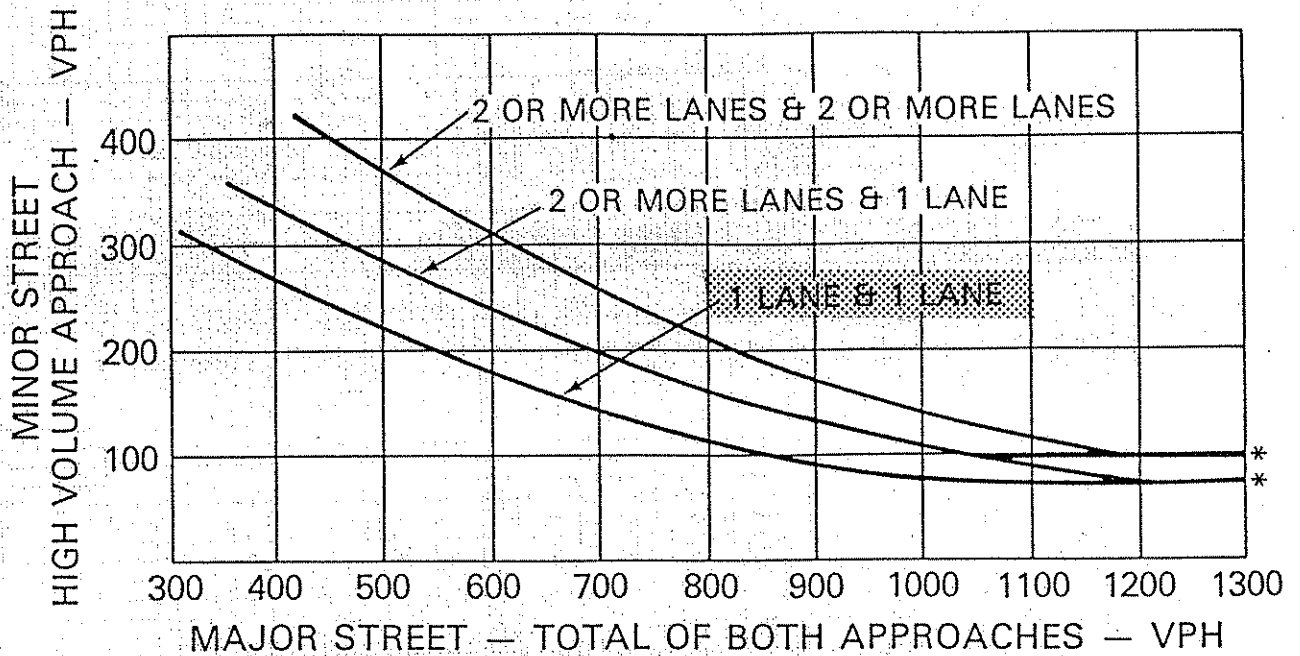


TMC9315 SIGNAL WARRANT 2 STUDY



# 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.

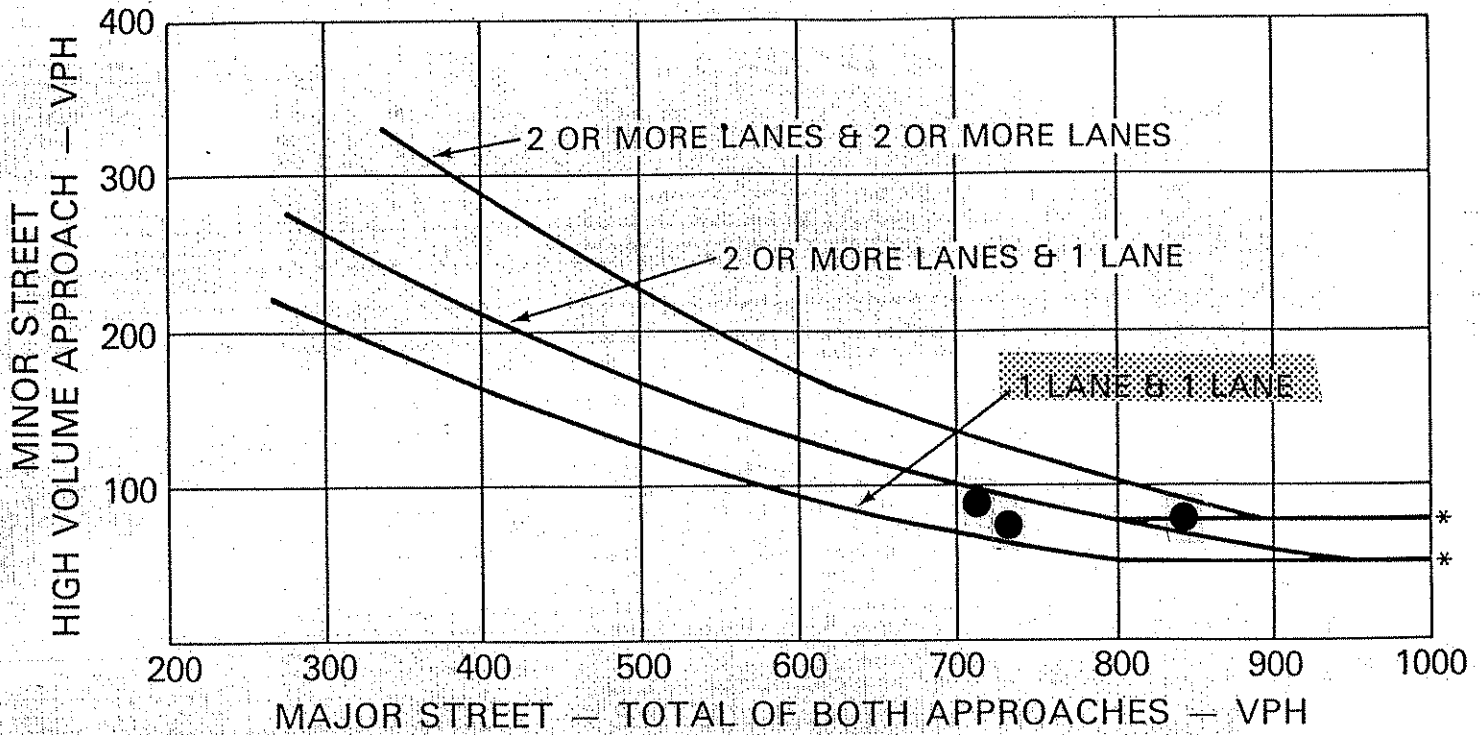
★ = VOLUMES WHICH EXCEED THE THRESHOLD BUT CANNOT BE REPRESENTED ON THE GRAPH.

TIME	MAJOR STREETS (VPH)	MINOR STREET (VPH)
6-7 am	479	44
7-8 am	581	69
8-9 am	334	54
9-10 am	302	31
10-11 am	305	34
11-12 pm	327	41
12-1 pm	373	32
1-2 pm	402	43
2-3 pm	403	39
3-4 pm	488	54
4-5 pm	728	64
5-6 pm	839	81
6-7 pm	711	92
7-8 pm	520	67
8-9 pm	420	56
9-10 pm	335	34



# 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	479	44
7-8 am	581	69
8-9 am	334	54
9-10 am	302	31
10-11 am	305	34
11-12 pm	327	41
12-1 pm	373	32
1-2 pm	402	43
2-3 pm	403	39
3-4 pm	488	54
● 4-5 pm	728	64
● 5-6 pm	839	81
● 6-7 pm	711	92
7-8 pm	520	67
8-9 pm	420	56
9-10 pm	335	34

CSAH 18 (COON CREEK BLVD) @ 133 RD AVE



NORTH

APP. #1=WB 133 RD. AVE

APP. #2=NB CSAH 18 (COON CREEK BLVD)

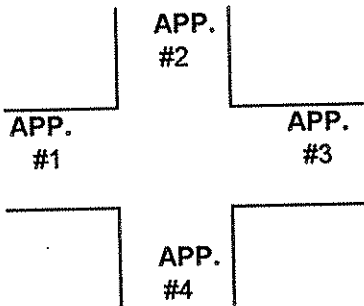
APP. #3=

APP. #4= SB CSAH 18 (COON CREEK BLVD)

COUNT LOCATION:

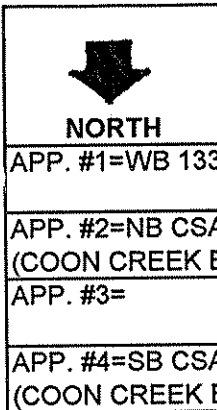
CSAH 18 (COON CREEK BLVD) @ 133 RD. AVE

D 6/30/93



- 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						1		
6:15-6:30						2		1
6:30-6:45						1		
6:45-7:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>6</b>
7:00-7:15						2		
7:15-7:30	1				1	3		3
7:30-7:45	1				1			1
7:45-8:00						5		
<b>HOURLY TOTAL</b>					<b>2</b>	<b>HOURLY TOTAL</b>		<b>14</b>
8:00-8:15						6		2
8:15-8:30						7		1
8:30-8:45						3		
8:45-9:00						3		2
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>24</b>
9:00-9:15						5		
9:15-9:30						7		8
9:30-9:45						3		1
9:45-10:00	1				1	3		1
<b>HOURLY TOTAL</b>					<b>1</b>	<b>HOURLY TOTAL</b>		<b>28</b>
10:00-10:15	1	2			3			
10:15-10:30						3		
10:30-10:45						2		
10:45-11:00						4		1
<b>HOURLY TOTAL</b>					<b>3</b>	<b>HOURLY TOTAL</b>		<b>10</b>
11:00-11:15						2		
11:15-11:30						1		
11:30-11:45						4		2
11:45-12:00						4		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>13</b>
12:00-12:15						2		
12:15-12:30						4		1
12:30-12:45						2		1
12:45-1:00						2		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>12</b>
1:00-1:15						3	1	1
1:15-1:30						3		
1:30-1:45						10		
1:45-2:00						10		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		<b>28</b>



COUNT LOCATION: CSAH 18 (COON CREEK BLVD) @  
133 RD. AVE

DA 6/30/93

- 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						3		
2:15-2:30						3		
2:30-2:45						3	1	
2:45-3:00	1				1	1	1	
<b>HOURLY TOTAL</b>					1	<b>HOURLY TOTAL</b>		12
3:00-3:15						6		
3:15-3:30						5		
3:30-3:45						4	1	1
3:45-4:00						1		
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		18
4:00-4:15						6		
4:15-4:30	1				1	2	1	
4:30-4:45	1			2	3	2		
4:45-5:00						6	1	
<b>HOURLY TOTAL</b>					4	<b>HOURLY TOTAL</b>		18
5:00-5:15						2		
5:15-5:30						2		
5:30-5:45	1				1	2	1	
5:45-6:00	1				1	3		
<b>HOURLY TOTAL</b>					2	<b>HOURLY TOTAL</b>		10
6:00-6:15	1				1		1	
6:15-6:30						2		
6:30-6:45						4		
6:45-7:00						2		
<b>HOURLY TOTAL</b>					1	<b>HOURLY TOTAL</b>		9
7:00-7:15	1				1	3		
7:15-7:30						2		
7:30-7:45	1				1	1		
7:45-8:00						2		
<b>HOURLY TOTAL</b>					2	<b>HOURLY TOTAL</b>		8
8:00-8:15						1		
8:15-8:30						1		
8:30-8:45								
8:45-9:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		2
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
<b>HOURLY TOTAL</b>						<b>HOURLY TOTAL</b>		