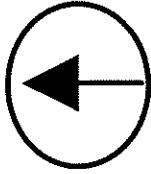
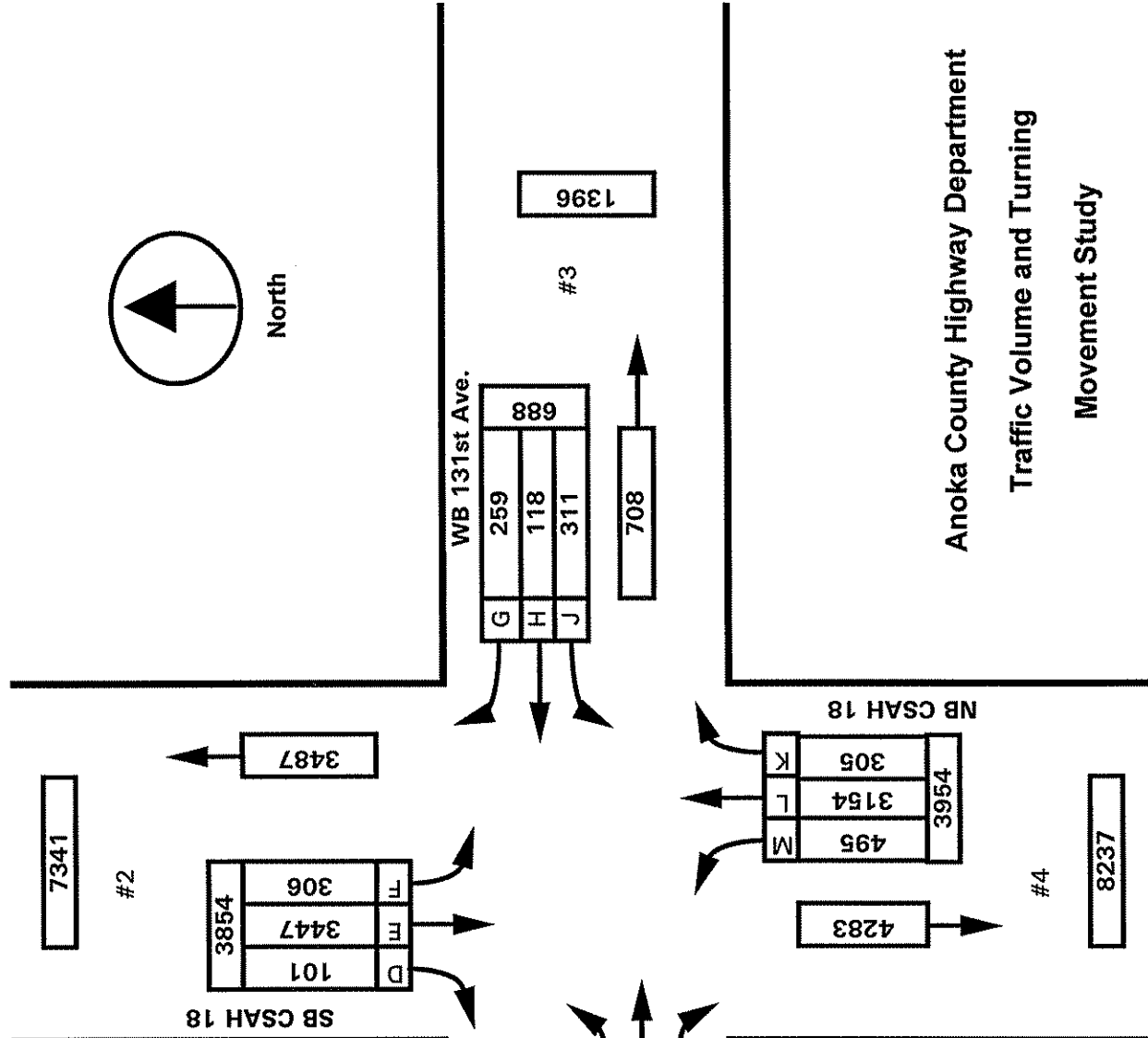


Date: 8/21/96 AM 8/19/96 PM

Count Number: TMC 9620

Location: CSAH 18 (Coon Creek Blvd) @

131st Ave.



North

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

Weather :sunny AM/ rainy PM

TRAFFIC ENGINEERING SECTION

Study Name: TMC9620

Counted by:Ann and Gabe

TRAFFIC STUDY

Site Code : 96200202

yard # :

Start Date: 08/19/96

Other :

Page : 1

Vehicle group 1

Start Time	CSAH 18 (Coon Creek Bl) 131st Ave				CSAH 18 (Coon Creek Bl) 131st Ave				Intvl	Exclu	Inclu									
	From North		From East		From South		From West													
Time	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY	Total	Total	Total	
08/19/96																				
06:00	1	97	1	2	0	0	6	0	0	6	1	1	25	0	0	0	140	3	137	
06:15	0	126	1	3	2	1	15	0	3	19	1	1	16	0	0	0	188	4	184	
06:30	1	161	3	6	3	0	12	1	2	19	0	1	15	1	1	0	226	8	218	
06:45	1	140	7	3	2	2	10	1	4	24	1	0	16	1	4	0	216	4	212	
Hour	3	524	12	14	7	3	43	2	9	68	3	3	72	2	5	0	770	19	751	
07:00	0	133	0	0	6	0	12	1	1	23	2	0	22	1	1	0	202	1	201	
07:15	0	137	2	1	3	2	10	0	3	26	5	2	17	0	1	1	210	4	206	
07:30	0	133	2	3	4	1	9	0	1	13	2	1	14	0	2	0	185	4	181	
07:45	0	107	2	2	6	0	12	0	4	23	1	1	9	0	1	0	168	3	165	
Hour	0	510	6	6	19	3	43	1	9	85	10	4	62	1	5	1	765	12	753	
08:00	0	86	1	1	5	0	9	0	0	23	1	1	11	0	0	0	138	2	136	
08:15	1	68	2	0	4	1	1	0	0	24	3	0	16	0	0	0	120	0	120	
08:30	0	53	4	2	4	0	4	0	5	23	7	3	12	0	0	0	117	5	112	
08:45	4	63	5	0	4	0	10	1	2	25	6	2	7	0	1	0	130	3	127	
Hour	5	270	12	3	17	1	24	1	7	95	17	6	46	0	1	0	505	10	495	
09:00	0	38	0	4	2	2	3	1	0	25	1	2	9	2	0	0	89	7	82	
09:15	0	48	1	2	2	0	4	0	6	24	2	1	9	1	0	0	100	3	97	
09:30	0	54	5	1	3	5	5	2	1	24	1	2	9	3	1	1	117	6	111	
09:45	0	35	3	0	5	1	1	1	3	25	4	2	9	1	0	1	91	4	87	
Hour	0	175	9	7	12	8	13	4	10	98	8	7	36	7	1	2	397	20	377	
10:00	2	50	0	3	2	2	6	0	3	18	4	1	8	1	0	0	100	4	96	
10:15	2	36	1	0	2	3	4	1	1	35	1	0	4	1	2	0	93	1	92	
10:30	1	34	3	1	3	3	5	1	2	26	5	4	4	1	0	0	93	6	87	
10:45	1	41	2	1	2	0	6	0	6	25	7	0	4	0	3	0	98	1	97	
Hour	6	161	6	5	9	8	21	2	12	104	17	5	20	3	5	0	384	12	372	
11:00	1	42	4	2	3	1	2	0	2	28	6	2	5	2	0	0	100	4	96	
11:15	1	41	3	1	3	0	5	1	4	35	4	3	6	2	0	0	109	5	104	
11:30	1	42	5	3	4	0	4	1	3	27	2	3	6	1	0	0	102	7	95	
11:45	3	26	5	1	3	3	8	1	6	25	7	3	5	5	1	0	102	5	97	
Hour	6	151	17	7	13	4	19	3	15	115	19	11	22	10	1	0	413	21	392	
12:00	1	30	3	1	1	2	4	2	6	41	4	1	10	1	1	1	109	5	104	
12:15	1	37	2	1	2	2	4	1	7	31	5	0	4	2	1	0	100	2	98	
12:30	1	44	2	2	2	1	3	0	5	35	8	1	8	2	1	0	115	3	112	
12:45	1	38	5	3	3	1	9	0	7	33	6	2	7	3	1	0	119	5	114	
Hour	4	149	12	7	8	6	20	3	25	140	23	4	29	8	4	1	443	15	428	

ANOKA COUNTY HIGHWAY DEPARTMENT

Weather :sunny AM/ rainy PM

TRAFFIC ENGINEERING SECTION

Study Name: TMC9620

Counted by:Ann and Gabe

TRAFFIC STUDY

Site Code : 96200202

Card # :

Start Date: 08/19/96

Other :

Page : 2

Vehicle group 1

Start Time	CSAH 18 (Coon Creek Bl 131st Ave				CSAH 18 (Coon Creek Bl 131st Ave				Intvl	Exclu	Inclu								
	From North		From East		From South		From West					Total	Total	Total					
	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY							
13:00	0	59	1	1	3	1	5	1	8	41	5	1	8	0	1	0	135	3	132
13:15	1	50	5	5	3	1	3	0	6	37	6	2	6	3	1	0	129	7	122
13:30	0	34	4	1	2	1	5	0	2	28	2	0	9	0	0	1	89	2	87
13:45	0	52	5	2	3	5	3	0	10	36	7	3	5	4	0	2	137	7	130
Hour	1	195	15	9	11	8	16	1	26	142	20	6	28	7	2	3	490	19	471
14:00	1	43	2	2	2	1	8	0	2	41	7	1	8	3	1	1	123	4	119
14:15	2	43	6	3	4	3	3	0	4	33	6	1	4	1	2	0	115	4	111
14:30	4	42	4	1	6	3	9	3	3	37	8	0	14	3	0	0	137	4	133
14:45	2	45	6	2	4	0	3	0	4	45	17	2	1	3	1	0	135	4	131
Hour	9	173	18	8	16	7	23	3	13	156	38	4	27	10	4	1	510	16	494
15:00	3	34	4	1	2	0	4	1	3	70	10	1	5	0	0	0	138	3	135
15:15	3	36	8	1	5	1	4	1	7	74	5	2	6	0	3	2	158	6	152
15:30	1	46	3	1	6	1	6	0	6	70	10	1	3	0	1	0	155	2	153
15:45	1	44	7	0	2	1	3	0	5	73	9	1	1	1	0	0	148	1	147
Hour	8	160	22	3	15	3	17	2	21	287	34	5	15	1	4	2	599	12	587
16:00	4	51	8	0	5	2	2	0	4	87	11	3	5	0	2	1	185	4	181
16:15	2	45	4	1	7	4	1	0	8	109	16	4	6	2	1	0	210	5	205
16:30	3	50	6	0	5	4	1	0	6	105	16	0	6	4	1	0	207	0	207
16:45	4	50	14	1	12	1	5	0	6	112	21	2	7	1	4	0	240	3	237
Hour	13	196	32	2	29	11	9	0	24	413	64	9	24	7	8	1	842	12	830
17:00	3	43	13	1	6	4	4	1	16	132	27	1	9	0	4	0	264	3	261
17:15	6	55	7	0	3	9	1	1	9	124	15	0	9	4	2	0	245	1	244
17:30	1	46	12	1	10	1	2	0	8	140	22	1	5	3	1	0	253	2	251
17:45	2	46	7	1	5	1	4	0	9	111	25	2	12	1	1	0	227	3	224
Hour	12	190	39	3	24	15	11	2	42	507	89	4	35	8	8	0	989	9	980
18:00	2	51	9	1	6	4	5	0	13	127	12	1	10	1	1	0	243	2	241
18:15	7	47	7	0	9	3	3	0	3	69	21	0	6	3	5	0	183	0	183
18:30	1	58	11	0	7	3	2	1	7	72	9	4	10	3	1	0	189	5	184
18:45	5	37	3	0	3	3	6	0	8	68	10	1	9	2	2	0	157	1	156
Hour	15	193	30	1	25	13	16	1	31	336	52	6	35	9	9	0	772	8	764
19:00	3	48	9	1	8	5	5	0	6	76	7	1	4	1	2	0	176	2	174
19:15	1	53	4	1	8	4	3	1	4	50	7	1	8	4	3	0	152	3	149
19:30	2	44	6	0	7	2	5	0	9	63	6	1	10	5	2	0	162	1	161
19:45	0	44	8	1	7	6	7	0	8	37	12	0	6	4	1	0	141	1	140
Hour	6	189	27	3	30	17	20	1	27	226	32	3	28	14	8	0	631	7	624

ANOKA COUNTY HIGHWAY DEPARTMENT

Weather :sunny AM/ rainy PM

Counted by:Ann and Gabe

Card # :

Other :

TRAFFIC ENGINEERING SECTION

TRAFFIC STUDY

Study Name: TMC9620

Site Code : 96200202

Start Date: 08/19/96

Page : 3

Vehicle group 1

Start Time	CSAH 18 (Coon Creek Bl 131st Ave From North				131st Ave From East				CSAH 18 (Coon Creek Bl 131st Ave From South				131st Ave From West				Intvl	Exclu	Inclu
	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY	Right	Thru	Left	HEAVY			
20:00	1	36	6	0	4	3	0	0	6	56	8	0	7	2	2	0	131	0	131
20:15	2	35	9	0	3	1	5	0	6	55	9	0	5	3	2	0	135	0	135
20:30	0	32	7	2	3	2	3	0	6	53	7	1	4	0	2	0	122	3	119
20:45	5	27	9	0	1	2	1	1	0	55	6	0	7	2	0	0	116	1	115
Hour	8	130	31	2	11	8	9	1	18	219	30	1	23	7	6	0	504	4	500
21:00	0	18	4	0	4	0	3	0	6	48	8	1	11	3	1	0	107	1	106
21:15	2	24	1	0	4	1	2	0	6	41	10	0	4	0	1	0	96	0	96
21:30	1	14	10	0	2	1	2	0	0	45	9	0	2	0	0	0	86	0	86
21:45	2	25	3	0	3	1	0	0	4	29	12	0	6	0	1	0	86	0	86
Hour	5	81	18	0	13	3	7	0	16	163	39	1	23	3	3	0	375	1	374
Total	101	3447	306	80	259	118	311	27	305	3154	495	79	525	97	74	11	9389	197	9192
% Apr.	2.5	87.6	7.7	2.0	36.2	16.5	43.4	3.7	7.5	78.2	12.2	1.9	74.2	13.7	10.4	1.5	-	-	-
% Int.	1.0	36.7	3.2	0.8	2.7	1.2	3.3	0.2	3.2	33.5	5.2	0.8	5.5	1.0	0.7	0.1	-	-	-

» Street Approaches:

Northbound:

CSAH 18 (Coon Creek Blvd)

Data File: C:\PETRA2\DATAFILE\TMC9620.PDF

Count Type: IMC. Channel: 0. Count Date: 8/19/96

Number of Lanes: 2

Approach Speed: 45

Total Approach Traffic: 3954

Southbound:

CSAH 18 (Coon Creek Blvd)

Data File: C:\PETRA2\DATAFILE\TMC9620.PDF

Count Type: IMC. Channel: 0. Count Date: 8/19/96

Number of Lanes: 2

Approach Speed: 45

Total Approach Traffic: 3854

Minor Street Approaches:

Eastbound:

131st Ave

Data File: C:\PETRA2\DATAFILE\TMC9620.PDF

Count Type: IMC. Channel: 0. Count Date: 8/19/96

Number of Lanes: 1

Approach Speed: 30

Total Approach Traffic: 696

Westbound:

131st Ave

Data File: C:\PETRA2\DATAFILE\TMC9620.PDF

Count Type: IMC. Channel: 0. Count Date: 8/19/96

Number of Lanes: 1

Approach Speed: 30

Total Approach Traffic: 688

Analysis of 8-Hour Volume Warrants (Criteria refers to high volume side street for that hour):

Hour	Main	Side	Warrant 1	Warrant 2	Warrant 8
Begin	(Total)	Vol. Dir. Rank	Meets? Criteria	Meets? Criteria	Meets? Criteria
0	0	0 W 17	105	52	84
1	0	0 W 18	105	52	84
2	0	0 W 19	105	52	84
3	0	0 W 20	105	52	84
4	0	0 W 21	105	52	84
5	0	0 W 22	105	52	84
6	619	79 E 1	MAIN 105	SIDE 52	MAIN 84
7	620	68 E 2	MAIN 105	SIDE 52	MAIN 84
8	406	47 E 7	105	52	84
9	300	44 E 9	105	52	84
10	306	38 W 11	105	52	84
11	323	36 W 13	105	52	84
12	353	41 E 10	105	52	84
13	399	37 E 12	105	52	84
14	407	46 W 8	105	52	84
15	532	35 W 15	MAIN 105	52	MAIN 84
16	742	49 W 6	MAIN 105	MAIN 52	MAIN 84
17	879	51 E 5	MAIN 105	MAIN 52	MAIN 84
18	657	54 W 4	MAIN 105	--BOTH-- 52	MAIN 84
19	507	67 W 3	MAIN 105	SIDE 52	MAIN 84
20	436	36 E 14	MAIN 105	52	84
21	322	29 E 16	105	52	84
22	0	0 W 23	105	52	84
23	0	0 W 24	105	52	84

Warrant Summary:

Normal values apply.

Warrant 1 - Minimum Vehicular Volumes

NOT SATISFIED. Required values reached for 0 hours. Criteria--Main St.: 420; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

NOT SATISFIED. Required values reached for 1 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. Ped volumes too low. Criteria--190 Peds in peak hour, 100 peds in 4th high hour.

Warrant 4 - School Crossing

NOT APPLICABLE. Gap data has not been defined.

Warrant 5 - Progressive Movement

NOT SATISFIED. Adjacent signals closer than 1000 feet and/or not part of coordinated system.

Warrant 6 - Accident Experience

NOT SATISFIED. 0 correctable accidents is fewer than required 5.

Correctable Accidents: 0; Right Angle Accidents: 0; Left Turn Accidents: 0; Other Accidents: 0.

Warrant 7 - Systems Warrant

NOT SATISFIED. Peak hour total entering volume 980 does not meet criteria of 1000

- Approaches which are part of the principal through traffic roadway network.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

NOT SATISFIED. Required values reached for 0 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

NOT SATISFIED. Required values reached for 0 hours.

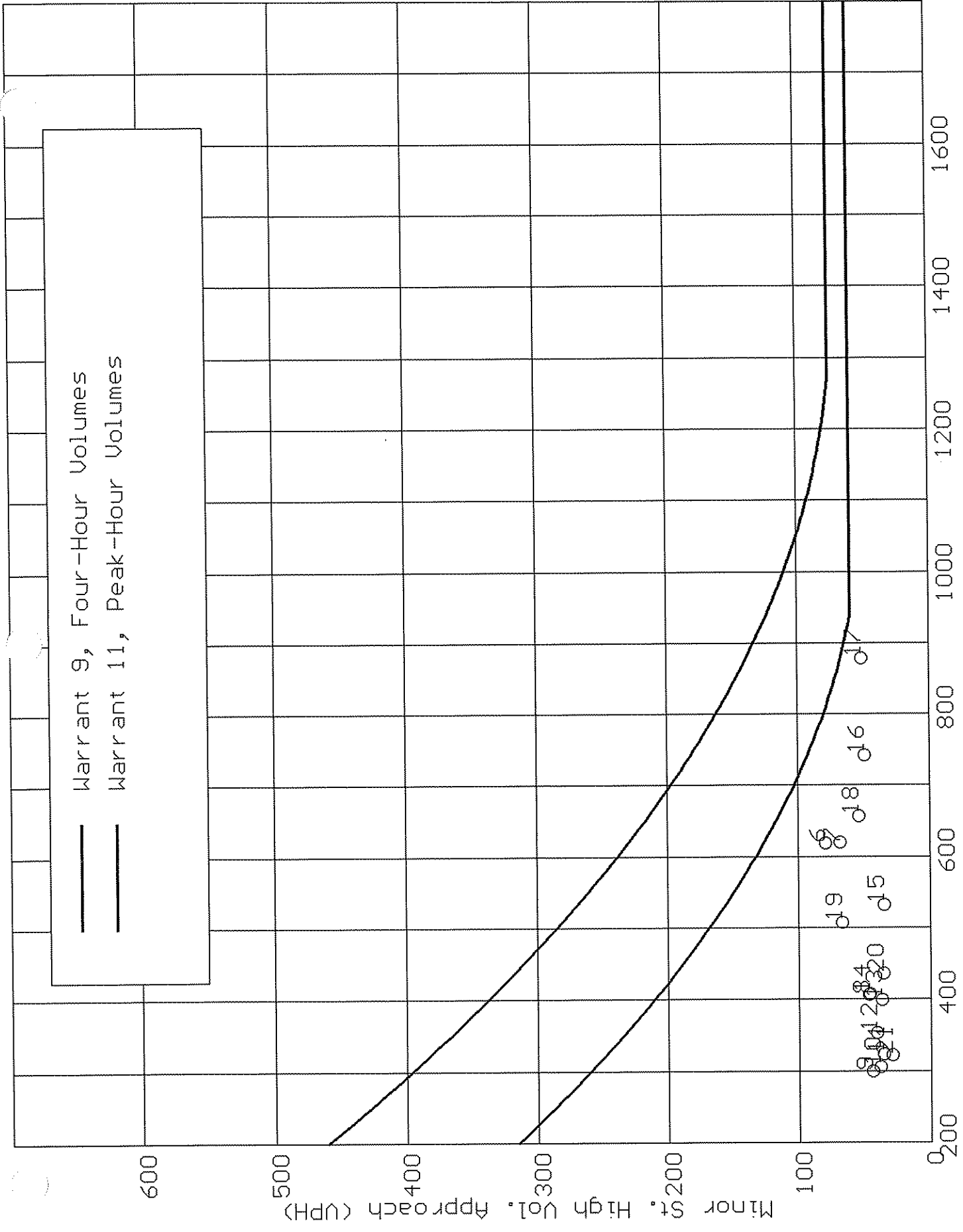
Warrant 10 - Peak Hour Delay

NOT SATISFIED. Peak hour (1700 hours) volume not adequate.

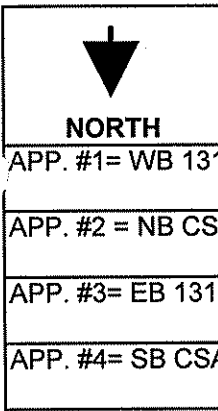
Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 100.

Warrant 11 - Peak Hour Volume

NOT SATISFIED.

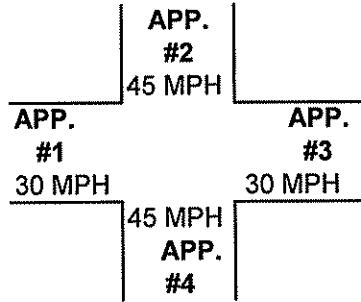


Major St. Total of Both Approaches (UPH)



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

DATE: 8/21/96



- 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		1
6:15-6:30						4		
6:30-6:45						7		1
6:45-7:00						3		1
HOURLY TOTAL						HOURLY TOTAL		19
7:00-7:15	1				1	1		
7:15-7:30						4		
7:30-7:45						4		
7:45-8:00						3		
HOURLY TOTAL					1	HOURLY TOTAL		12
8:00-8:15						1	1	
8:15-8:30								
8:30-8:45						4		1
8:45-9:00	1				1	3		
HOURLY TOTAL					1	HOURLY TOTAL		10
9:00-9:15			1		1	5		2
9:15-9:30						3		
9:30-9:45						6		
9:45-10:00						4		
HOURLY TOTAL					1	HOURLY TOTAL		20
10:00-10:15						4		
10:15-10:30	1				1	1		
10:30-10:45						6		
10:45-11:00			2		2	1		
HOURLY TOTAL					3	HOURLY TOTAL		12
11:00-11:15						4		
11:15-11:30		1			1	5		
11:30-11:45						7		
11:45-12:00						5		
HOURLY TOTAL					1	HOURLY TOTAL		21
12:00-12:15						5		
12:15-12:30						2		
12:30-12:45						3		
12:45-1:00						5		
HOURLY TOTAL						HOURLY TOTAL		15
1:00-1:15						3		
1:15-1:30				1	1	5		2
1:30-1:45						1		1
1:45-2:00						7		
HOURLY TOTAL					1	HOURLY TOTAL		19



NORTH

APP. #1= WB 131ST AVE

APP. #2 = NB CSAH 18

APP. #3= EB 131ST AVE

APP. #4= SB CSAH 18

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

DATE: 8/19/96

APP.
#2
45 MPH

APP.
#1
30 MPH

45 MPH
APP.
#4

APP.
#3
30 MPH

- 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				1	1	4		
2:15-2:30						4		
2:30-2:45						4		
2:45-3:00	4				4	3		1
HOURLY TOTAL					5	HOURLY TOTAL		16
3:00-3:15						3		
3:15-3:30						6		
3:30-3:45						2		
3:45-4:00						1		
HOURLY TOTAL						HOURLY TOTAL		12
4:00-4:15						3	1	
4:15-4:30		1			1	5		
4:30-4:45			4		4			
4:45-5:00						3		
HOURLY TOTAL					5	HOURLY TOTAL		12
5:00-5:15						3		
5:15-5:30						1		
5:30-5:45						2		
5:45-6:00		1			1	3		
HOURLY TOTAL					1	HOURLY TOTAL		9
6:00-6:15						2		
6:15-6:30				1	1			
6:30-6:45	1				1	5		
6:45-7:00						1		
HOURLY TOTAL					2	HOURLY TOTAL		8
7:00-7:15						2		
7:15-7:30						3		
7:30-7:45			2		2	1		
7:45-8:00		1			1	1		
HOURLY TOTAL					3	HOURLY TOTAL		7
8:00-8:15				1	1			
8:15-8:30				1	1			
8:30-8:45						3		
8:45-9:00						1		
HOURLY TOTAL					2	HOURLY TOTAL		4
9:00-9:15			2		2	1		
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL					2	HOURLY TOTAL		1