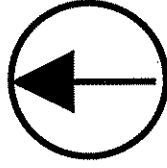


Date : 7/21/98AM 7/20/98PM

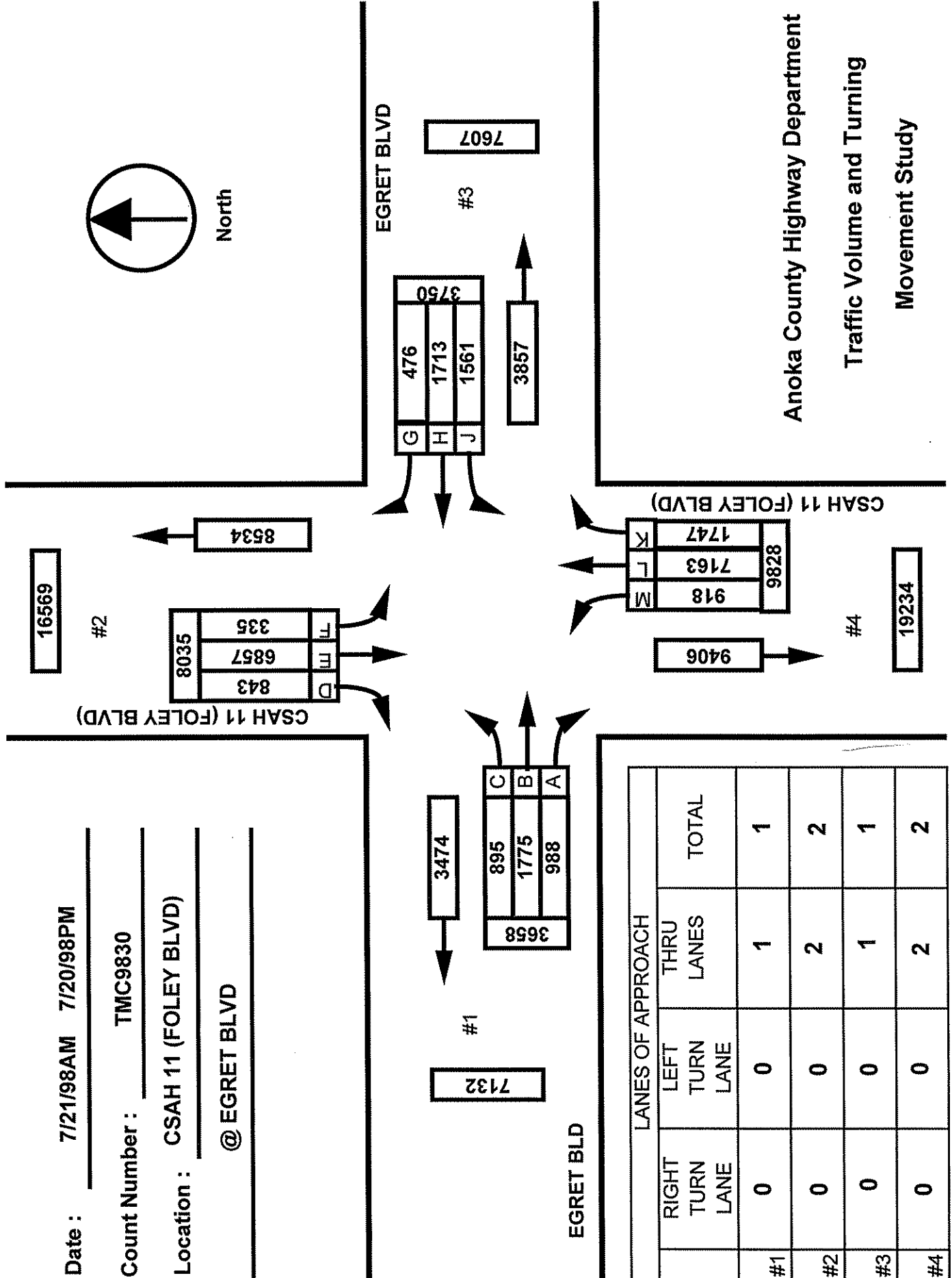
Count Number : TMC9830

Location : CSAH 11 (FOLEY BLVD)

@ EGRET BLVD



North



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

Anoka County Highway Department
 Traffic Volume and Turning
 Movement Study

PETRA Software

Weather :
 Counted by: Sarah and Vallie
 Board # :
 Checker :

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 Horsham, PA.

Study Name: TMC9830
 Site Code : 98300202
 Start Date: 07/21/98
 Page : 1

Vehicle group 1

Start Time	CSAH 11 (FOLEY BLVD) Southbound				EGRET BLVD Westbound				CSAH 11 (FOLEY BLVD) Northbound				EGRET BLVD Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
07/21/98																			
06:00	6	235	3	1	38	8	1	1	0	23	3	0	5	18	19	0	361	2	359
06:15	3	260	2	4	54	9	0	1	7	36	11	3	10	20	24	0	444	8	436
06:30	4	278	11	2	59	12	0	0	5	33	5	1	3	25	38	0	476	3	473
06:45	8	289	11	0	76	17	0	1	4	36	9	1	8	26	28	2	516	4	512
Hour	21	1062	27	7	227	46	1	3	16	128	28	5	26	89	109	2	1797	17	1780
07:00	2	264	5	3	47	21	0	0	10	32	4	0	5	28	29	2	452	5	447
07:15	3	264	11	5	65	18	0	3	4	46	12	3	8	24	34	2	502	13	489
07:30	4	239	12	5	61	17	0	3	5	30	16	3	4	30	15	1	445	12	433
07:45	6	248	15	7	47	30	1	1	10	50	9	2	11	27	27	2	493	12	481
Hour	15	1015	43	20	220	86	1	7	29	158	41	8	28	109	105	7	1892	42	1850
08:00	10	185	10	13	31	14	1	1	7	42	6	3	6	19	19	4	371	21	350
08:15	5	152	12	6	28	13	0	2	3	61	14	6	10	15	17	1	345	15	330
08:30	3	125	11	3	22	17	1	2	10	41	8	0	10	16	12	2	283	7	276
08:45	4	108	12	10	24	17	1	2	5	47	14	4	9	22	13	3	295	19	276
Hour	22	570	45	32	105	61	3	7	25	191	42	13	35	72	61	10	1294	62	1232
09:00	7	80	10	4	25	13	2	0	6	41	13	8	11	26	21	2	269	14	255
09:15	2	99	4	4	15	15	4	2	7	44	19	3	8	14	11	3	254	12	242
09:30	3	72	6	0	18	16	2	1	6	60	12	6	3	15	13	1	234	8	226
09:45	2	92	17	3	23	24	3	1	9	53	13	2	9	21	8	3	283	9	274
Hour	14	343	37	11	81	68	11	4	28	198	57	19	31	76	53	9	1040	43	997
10:00	8	90	4	8	14	10	4	3	12	60	12	1	7	19	14	2	268	14	254
10:15	4	71	11	1	19	14	3	1	14	60	15	4	11	15	18	2	263	8	255
10:30	6	60	11	3	15	24	1	1	18	53	24	4	7	19	14	1	261	9	252
10:45	7	80	8	1	21	16	7	4	6	73	13	2	9	18	10	1	276	8	268
Hour	25	301	34	13	69	64	15	9	50	246	64	11	34	71	56	6	1068	39	1029
11:00	9	61	6	3	17	22	6	1	14	66	16	3	12	20	12	2	270	9	261
11:15	3	88	13	4	19	21	10	1	10	75	15	9	15	21	11	1	316	15	301
11:30	6	80	12	2	17	22	6	2	11	88	15	3	15	23	10	1	313	8	305
11:45	5	86	10	2	28	22	5	1	11	94	29	3	13	27	14	4	354	10	344
Hour	23	315	41	11	81	87	27	5	46	323	75	18	55	91	47	8	1253	42	1211
12:00	4	71	8	4	23	21	7	1	13	94	10	5	10	24	8	1	304	11	293
12:15	14	89	16	3	16	22	8	3	12	99	13	5	15	28	14	2	359	13	346
12:30	5	74	16	4	19	33	6	1	13	85	23	7	19	28	9	2	344	14	330
12:45	7	93	11	5	19	28	9	2	12	94	15	1	16	27	6	1	346	9	337
Hour	30	327	51	16	77	104	30	7	50	372	61	18	60	107	37	6	1353	47	1306

Weather :
 Counted by: Sarah and Vallie
 Board # :
 Lher :

PETRA Software
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 Horsham, PA.

Study Name: TMC9830
 Site Code : 98300202
 Start Date: 07/21/98
 Page : 2

Vehicle group 1

Start Time	CSAH 11 (FOLEY BLVD) Southbound				EGRET BLVD Westbound				CSAH 11 (FOLEY BLVD) Northbound				EGRET BLVD Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
13:00	3	110	16	7	16	27	4	1	12	75	16	6	12	33	14	1	353	15	338
13:15	5	90	6	3	28	34	6	3	16	70	22	3	10	25	10	2	333	11	322
13:30	4	87	8	5	22	22	8	3	9	79	20	3	12	24	7	2	315	13	302
13:45	5	92	10	4	17	21	10	1	19	90	22	5	15	37	12	4	364	14	350
Hour	17	379	40	19	83	104	28	8	56	314	80	17	49	119	43	9	1365	53	1312
14:00	4	87	12	2	33	26	5	2	18	87	32	5	20	25	18	0	376	9	367
14:15	4	90	8	4	17	31	6	1	17	109	23	4	12	33	12	0	371	9	362
14:30	2	76	19	6	13	25	12	2	15	126	37	6	8	18	18	1	384	15	369
14:45	5	72	7	1	21	27	7	1	10	143	25	4	19	23	15	2	382	8	374
Hour	15	325	46	13	84	109	30	6	60	465	117	19	59	99	63	3	1513	41	1472
15:00	4	67	8	6	21	30	8	3	16	130	40	4	13	28	17	1	396	14	382
15:15	8	76	14	5	19	22	12	0	17	184	53	3	14	31	16	1	475	9	466
15:30	4	99	21	4	16	43	12	1	21	235	53	5	22	32	16	2	586	12	574
15:45	7	74	21	4	32	39	13	2	24	218	51	3	28	39	14	2	571	11	560
Hour	23	316	64	19	88	134	45	6	78	767	197	15	77	130	63	6	2028	46	1982
16:00	6	98	15	4	21	35	16	1	25	234	69	3	19	33	13	5	597	13	584
16:15	2	83	12	1	22	39	14	0	31	268	65	7	34	33	15	0	626	8	618
16:30	5	108	17	4	21	56	15	1	21	267	84	3	16	45	14	1	678	9	669
16:45	6	76	16	2	21	49	17	0	24	285	73	3	22	46	19	0	659	5	654
Hour	19	365	60	11	85	179	62	2	101	1054	291	16	91	157	61	6	2560	35	2525
17:00	1	78	14	3	21	58	14	3	28	310	63	2	23	51	15	2	686	10	676
17:15	7	100	28	2	17	50	16	2	22	304	85	2	22	46	11	1	715	7	708
17:30	4	76	20	2	26	47	20	1	33	281	65	2	20	42	20	3	662	8	654
17:45	9	93	12	2	29	44	13	0	19	285	55	3	24	37	23	0	648	5	643
Hour	21	347	74	9	93	199	63	6	102	1180	268	9	89	176	69	6	2711	30	2681
18:00	7	67	22	0	19	30	10	1	29	196	57	4	16	47	20	0	525	5	520
18:15	6	124	24	3	12	48	16	2	19	148	39	0	22	25	25	0	513	5	508
18:30	5	94	20	3	23	36	8	1	14	126	32	1	19	47	22	1	452	6	446
18:45	10	81	23	0	20	35	17	0	20	127	24	1	21	41	18	0	438	1	437
Hour	28	366	89	6	74	149	51	4	82	597	152	6	78	160	85	1	1928	17	1911
19:00	1	57	12	0	13	13	4	0	16	108	30	1	17	43	19	0	334	1	333
19:15	6	73	10	1	14	35	8	2	19	106	16	3	14	29	17	1	354	7	347
19:30	5	83	14	1	25	31	11	2	14	96	21	1	18	27	16	1	366	5	361
19:45	4	82	14	1	11	28	11	0	25	112	21	0	22	27	12	0	370	1	369
Hour	16	295	50	3	63	107	34	4	74	422	88	5	71	126	64	2	1424	14	1410

Weather :
 Counted by: Sarah and Vallie
 Board # :
 Lher :

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Study Name: TMC9830
 Site Code : 98300202
 Start Date: 07/21/98
 Page : 3

Vehicle group 1

Start Time	CSAH 11 (FOLEY BLVD) Southbound				EGRET BLVD Westbound				CSAH 11 (FOLEY BLVD) Northbound				EGRET BLVD Eastbound				Intvl	Exclu	Inclu
	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other	Left	Thru	Right	Other			
20:00	4	72	21	0	16	35	16	1	23	84	23	0	18	26	17	1	357	2	355
20:15	6	65	27	0	23	34	10	0	15	82	30	3	9	26	10	0	340	3	337
20:30	13	59	15	1	9	28	5	0	21	104	28	1	16	37	6	3	346	5	341
20:45	6	96	18	3	16	20	11	0	16	114	21	1	15	22	6	1	366	5	361
Hour	29	292	81	4	64	117	42	1	75	384	102	5	58	111	39	5	1409	15	1394
21:00	7	65	21	1	15	28	4	0	12	88	26	0	15	28	7	0	317	1	316
21:15	3	63	18	0	17	30	11	1	13	105	20	1	10	28	7	1	328	3	325
21:30	4	59	15	0	23	25	9	0	13	95	19	2	14	13	6	1	298	3	295
21:45	3	52	7	0	12	16	9	0	8	76	19	0	15	13	13	0	243	0	243
Hour	17	239	61	1	67	99	33	1	46	364	84	3	54	82	33	2	1186	7	1179
Total	335	6857	843	195	1561	1713	476	80	918	7163	1747	187	895	1775	988	88	25821	550	25271
% Apr.	4.0	83.3	10.2	2.3	40.7	44.7	12.4	2.0	9.1	71.5	17.4	1.8	23.8	47.3	26.3	2.3	-	-	-
% Int.	1.2	26.5	3.2	0.7	6.0	6.6	1.8	0.3	3.5	27.7	6.7	0.7	3.4	6.8	3.8	0.3	-	-	-

or Street Approaches:

Northbound:

CSAH 11 (FOLEY BLVD)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9830.PDF
 Count Type: IMC. Channel: 0. Count Date: 7/21/98
 Number of Lanes: 2
 Approach Speed: 40
 Total Approach Traffic: 9828

Southbound:

CSAH 11 (FOLEY BLVD)

Data File: C:\APPS\PETRA2\DATAFILE\TMC9830.PDF
 Count Type: IMC. Channel: 0. Count Date: 7/21/98
 Number of Lanes: 2
 Approach Speed: 40
 Total Approach Traffic: 8035

Minor Street Approaches:

Eastbound:

EGRET BLVD

Data File: C:\APPS\PETRA2\DATAFILE\TMC9830.PDF
 Count Type: IMC. Channel: 0. Count Date: 7/21/98
 Number of Lanes: 1
 Approach Speed: 0
 Total Approach Traffic: 3658

Westbound:

EGRET BLVD

Data File: C:\APPS\PETRA2\DATAFILE\TMC9830.PDF
 Count Type: IMC. Channel: 0. Count Date: 7/21/98
 Number of Lanes: 2
 Approach Speed: 0
 Total Approach Traffic: 3750

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		200		100		160
1	0	0	W	18		200		100		160
2	0	0	W	19		200		100		160
3	0	0	W	20		200		100		160
4	0	0	W	21		200		100		160
5	0	0	W	22		200		100		160
6	1282	274	W	5	--BOTH--	200	--BOTH--	100	--BOTH--	160
7	1301	307	W	4	--BOTH--	200	--BOTH--	100	--BOTH--	160
8	895	169	W	14	MAIN	200	SIDE	100	--BOTH--	160
9	677	160	W	16	MAIN	200	SIDE	100	SIDE	160
10	720	161	E	15	--BOTH--	150	SIDE	75	--BOTH--	120
11	823	195	W	13	MAIN	200	SIDE	100	--BOTH--	160
12	891	211	W	11	--BOTH--	200	SIDE	100	--BOTH--	160
13	886	215	W	10	--BOTH--	200	SIDE	100	--BOTH--	160
14	1028	223	W	8	--BOTH--	200	--BOTH--	100	--BOTH--	160
15	1445	270	E	6	--BOTH--	150	--BOTH--	75	--BOTH--	120
16	1890	326	W	2	--BOTH--	200	--BOTH--	100	--BOTH--	160
17	1992	355	W	1	--BOTH--	200	--BOTH--	100	--BOTH--	160
18	1314	323	E	3	--BOTH--	150	--BOTH--	75	--BOTH--	120
19	945	261	E	7	--BOTH--	150	--BOTH--	75	--BOTH--	120
20	963	223	W	9	--BOTH--	200	--BOTH--	100	--BOTH--	160
21	811	199	W	12	MAIN	200	SIDE	100	--BOTH--	160
22	0	0	W	23		200		100		160
23	0	0	W	24		200		100		160

Warrant Summary:

Urban values apply.

Warrant 1 - Minimum Vehicular Volumes

SATISFIED for 12 hours. Criteria--Main St.: 600; Side St.: See Volume Summary.

Warrant 2 - Interruption of Continuous Traffic

SATISFIED for 9 hours. Criteria--Main St.: 900; 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. At least one street has no major approaches. Peak hour total entering volume: 2681.

- 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

SATISFIED for 15 hours. Criteria--Main: 720; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 9 hours.

Warrant 10 - Peak Hour Delay

NOT APPLICABLE. Volume requirements satisfied, but side street peak hour delay not defined.

Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 150.

Warrant 11 - Peak Hour Volume

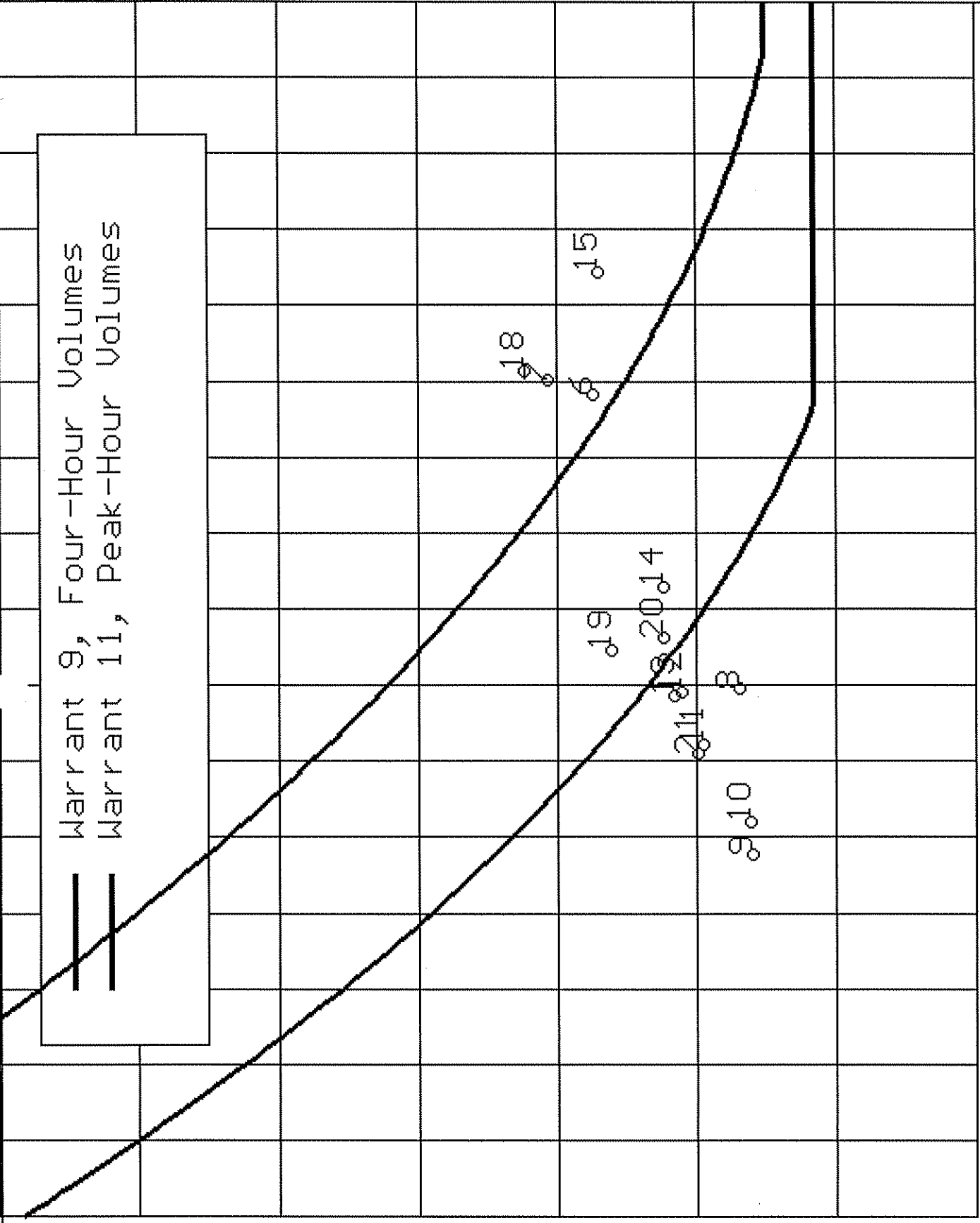
SATISFIED for 4 hours.

Minor St. High Vol. Approach (UPH)

Warrant 9, Four-Hour Volumes
Warrant 11, Peak-Hour Volumes

200 400 600 800 1000 1200 1400 1600

Major St. Total of Both Approaches (UPH)



↓
NORTH

APP. #1= WB (EGRET BLVD)
APP. #2 = NB CSAH 11 (FOLEY BLVD)
APP. #3= EB (EGRET BLVD)
APP. #4= SB CSAH 11 (FOLEY BLVD)

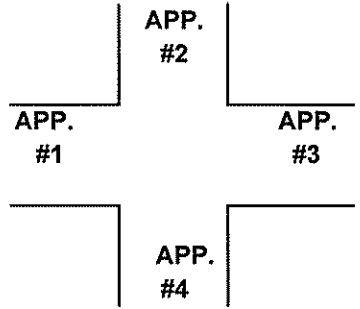
COUNT LOCATION:

CSAH 11 (FOLEY BLVD)

DATE:

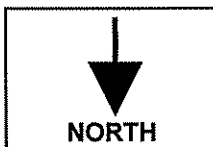
7/21/98

@ EGRET BLVD



- 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		1	2		
6:15-6:30	3				3	6	1	1
6:30-6:45						2		1
6:45-7:00		2		2		2		2
HOURLY TOTAL					4	HOURLY TOTAL		17
7:00-7:15				1	1	2	1	2
7:15-7:30	2				2	8	2	3
7:30-7:45	1				1	8	3	1
7:45-8:00	1					8	2	1
HOURLY TOTAL					4	HOURLY TOTAL		41
8:00-8:15						14	3	4
8:15-8:30						8	5	2
8:30-8:45						6		4
8:45-9:00						11	3	2
HOURLY TOTAL						HOURLY TOTAL		62
9:00-9:15						10	2	3
9:15-9:30						9	1	
9:30-9:45	1	2			3	6	1	1
9:45-10:00				2		3	3	2
HOURLY TOTAL					3	HOURLY TOTAL		41
10:00-10:15	1				1	9	4	1
10:15-10:30		4			4	3	2	2
10:30-10:45	1				1	4	3	1
10:45-11:00		7				8	1	
HOURLY TOTAL					6	HOURLY TOTAL		38
11:00-11:15	1	1		1	3	7		2
11:15-11:30		3			3	9	1	5
11:30-11:45	5	2		4	11	5	1	
11:45-12:00	2		2			5	2	4
HOURLY TOTAL					17	HOURLY TOTAL		41
12:00-12:15	1	2			3	8		3
12:15-12:30	2		2		4	10	1	3
12:30-12:45			1	7	8	11	1	2
12:45-1:00						7	1	1
HOURLY TOTAL					15	HOURLY TOTAL		48
1:00-1:15						11	4	
1:15-1:30		2			2	6	4	1
1:30-1:45						9	1	2
1:45-2:00		2		1		12	1	1
HOURLY TOTAL					2	HOURLY TOTAL		52



COUNT LOCATION:

CSAH 11 (FOLEY BLVD)

DATE:

7/20/98

@ EGRET BLVD

APP. #1= WB
(EGRET BLVD)
APP. #2 = NB CSAH 11
(FOLEY BLVD)
APP. #3= EB
(EGRET BLVD)
APP. #4= SB CSAH 11
(FOLEY BLVD)

APP.
#1

APP.
#2

APP.
#3

APP.
#4

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						4	2	3
2:15-2:30		1	2		3	6	3	
2:30-2:45		1			1	9	2	4
2:45-3:00			1		1	4		4
HOURLY TOTAL					5	HOURLY TOTAL		41
3:00-3:15		1			1	10	2	1
3:15-3:30		4			4	8	1	
3:30-3:45	1	1	2		4	9		4
3:45-4:00						7	2	1
HOURLY TOTAL					9	HOURLY TOTAL		45
4:00-4:15						6	5	2
4:15-4:30						5	2	1
4:30-4:45	2			1	3	5	3	1
4:45-5:00						4	1	
HOURLY TOTAL					3	HOURLY TOTAL		35
5:00-5:15	3	1			4	7	2	1
5:15-5:30	2	2	2		6	6	2	
5:30-5:45		1	1	1	3	7	1	2
5:45-6:00	3	1			4	2		2
HOURLY TOTAL					17	HOURLY TOTAL		32
6:00-6:15		4			4	1	3	1
6:15-6:30	2	1		2	5	2	2	1
6:30-6:45	3				3	3	1	2
6:45-7:00		4			4	1		
HOURLY TOTAL					16	HOURLY TOTAL		17
7:00-7:15	1	4		2	7	1		
7:15-7:30		2		2	4	2	5	
7:30-7:45	2			2	4	3	2	
7:45-8:00							1	1
HOURLY TOTAL					15	HOURLY TOTAL		15
8:00-8:15	5	1		3	9		2	
8:15-8:30	4	3		1	8	2	1	
8:30-8:45	3	1			4	2	3	
8:45-9:00	4	1		1	6	2		2
HOURLY TOTAL					27	HOURLY TOTAL		14
9:00-9:15	4		1		5			
9:15-9:30						1	2	
9:30-9:45						1		
9:45-10:00						1	1	
HOURLY TOTAL					5	HOURLY TOTAL		6