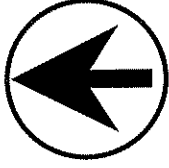


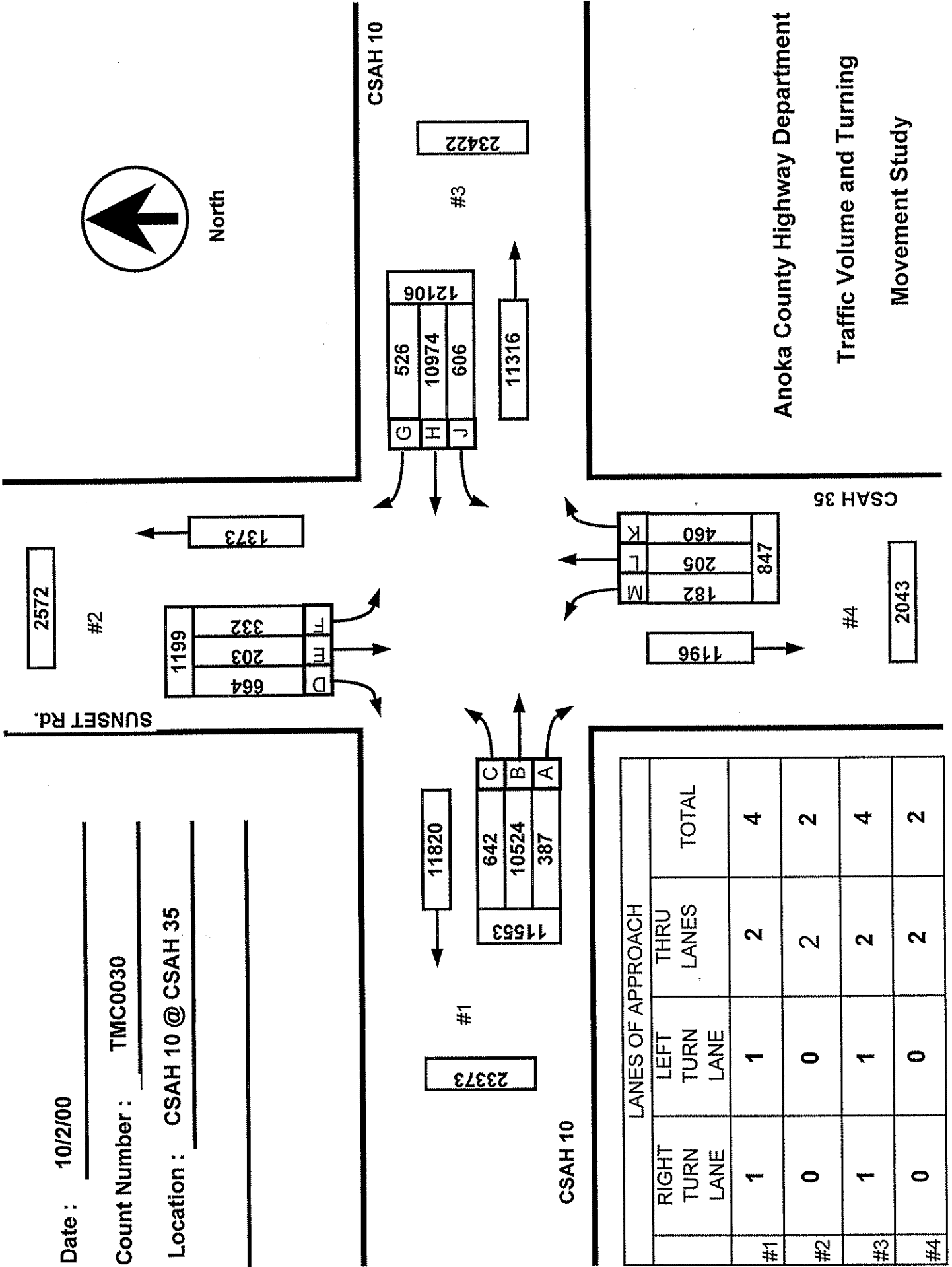
Date: 10/2/00

Count Number: TMC0030

Location: CSAH 10 @ CSAH 35



North



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

Anoka County Highway Department
Traffic Volume and Turning
Movement Study

Anoka County Highway Department Traffic Engineering

Weather: Cloudy/64
Counter TDC-8
Counted by: Josie/Dick

Traffic Volume and Turning Movement Stud

File Name : TMC0030
Site Code : 00300101
Start Date : 10/02/2000
Page No : 1

Groups Printed- 1 - Unshifted

Start Time	SUNSET RD Southbound					CSAH 10 Westbound					CSAH 35 Northbound					CSAH 10 Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0				
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0				
06:00	1	2	1	1	4	3	60	6	2	69	1	4	6	0	11	4	151	21	5	176	8	260	268
06:15	2	4	9	1	15	8	92	6	1	106	0	0	4	0	4	4	203	9	3	216	5	341	346
06:30	2	4	13	1	19	14	134	6	6	154	1	1	6	0	8	5	309	13	5	327	12	508	520
06:45	3	13	17	0	33	16	131	3	8	150	1	2	5	0	8	4	321	15	8	340	16	531	547
Total	8	23	40	3	71	41	417	21	17	479	3	7	21	0	31	17	984	58	21	1059	41	1640	1681
07:00	1	11	17	2	29	16	107	8	2	131	0	2	3	0	5	10	406	9	10	425	14	590	604
07:15	2	9	12	2	23	17	115	6	4	138	1	0	7	0	8	9	383	7	9	399	15	568	583
07:30	5	6	12	4	23	12	183	6	8	201	2	2	6	1	10	2	410	15	4	427	17	661	678
07:45	3	2	17	0	22	25	150	4	4	179	1	4	6	0	11	10	305	23	7	338	11	550	561
Total	11	28	58	8	97	70	555	24	18	649	4	8	22	1	34	31	1504	54	30	1589	57	2369	2426
08:00	8	1	11	1	20	19	107	7	6	133	3	2	6	4	11	8	191	13	7	212	18	376	394
08:15	8	3	14	2	25	10	135	8	6	153	2	0	3	0	5	11	162	8	7	181	15	364	379
08:30	4	5	7	3	16	14	125	5	10	144	4	1	6	0	11	7	143	7	2	157	15	328	343
08:45	2	5	11	0	18	7	128	15	8	150	3	4	6	0	13	6	120	11	5	137	13	318	331
Total	22	14	43	6	79	50	495	35	30	580	12	7	21	4	40	32	616	39	21	687	61	1386	1447
09:00	6	2	14	1	22	11	118	4	4	133	4	2	8	0	14	7	143	4	6	154	11	323	334
09:15	5	1	9	4	15	18	156	8	13	182	1	2	4	2	7	13	115	5	5	133	24	337	361
09:30	7	1	13	1	21	13	130	10	8	153	4	3	7	4	14	5	122	5	8	132	21	320	341
09:45	3	4	15	0	22	13	141	9	11	163	3	2	3	1	8	1	122	4	7	127	19	320	339
Total	21	8	51	6	80	55	545	31	36	631	12	9	22	7	43	26	502	18	26	546	75	1300	1375
10:00	8	1	10	1	19	9	138	11	7	158	2	4	7	3	13	16	129	5	5	150	16	340	356
10:15	5	1	10	1	16	7	149	12	10	168	1	1	7	2	9	6	121	6	9	133	22	326	348
10:30	9	3	15	4	27	4	136	8	5	148	1	4	7	1	12	7	157	6	7	170	17	357	374
10:45	6	2	9	1	17	14	135	3	10	152	3	0	9	0	12	12	142	10	8	164	19	345	364
Total	28	7	44	7	79	34	558	34	32	626	7	9	30	6	46	41	549	27	29	617	74	1368	1442
11:00	9	3	14	0	26	15	148	10	13	173	3	1	6	0	10	9	126	5	2	140	15	349	364
11:15	6	3	15	1	24	10	149	7	4	166	6	4	8	0	18	11	150	13	5	174	10	382	392
11:30	13	4	10	1	27	14	153	9	10	176	6	2	10	0	18	12	150	9	8	171	19	392	411
11:45	8	4	17	2	29	12	174	7	9	193	1	2	12	1	15	18	169	10	3	197	15	434	449
Total	36	14	56	4	106	51	624	33	36	708	16	9	36	1	61	50	595	37	18	682	59	1557	1616
12:00	6	7	17	3	30	13	180	16	9	209	6	6	11	0	23	13	161	12	6	186	18	448	466
12:15	13	7	19	2	39	8	185	12	4	205	3	0	11	3	14	9	170	5	6	184	15	442	457
12:30	10	3	13	3	26	13	147	12	11	172	4	3	12	0	19	10	173	8	6	191	20	408	428
12:45	8	3	19	1	30	14	157	15	9	186	3	5	7	0	15	10	159	7	9	176	19	407	426
Total	37	20	68	9	125	48	669	55	33	772	16	14	41	3	71	42	663	32	27	737	72	1705	1777
13:00	9	5	9	2	23	14	182	20	5	216	2	5	7	1	14	15	166	3	6	184	14	437	451
13:15	3	3	10	0	16	7	165	16	6	188	5	2	4	0	11	14	177	7	2	198	8	413	421
13:30	9	6	12	1	27	7	196	15	7	218	4	6	7	4	17	20	185	3	11	208	23	470	493
13:45	8	4	12	0	24	10	156	16	8	182	4	1	7	1	12	17	170	4	4	191	13	409	422
Total	29	18	43	3	90	38	699	67	26	804	15	14	25	6	54	66	698	17	23	781	58	1729	1787
14:00	11	4	12	7	27	16	195	17	12	228	5	1	4	2	10	7	166	3	3	176	24	441	465
14:15	7	5	11	2	23	10	192	11	8	213	7	4	7	1	18	6	183	8	6	197	17	451	468
14:30	8	0	13	2	21	5	239	19	13	263	3	0	4	0	7	14	204	6	8	224	23	515	538
14:45	10	8	17	4	35	11	231	14	12	256	11	5	19	3	35	10	182	4	6	196	25	522	547
Total	36	17	53	15	106	42	857	61	45	960	26	10	34	6	70	37	735	21	23	793	89	1929	2018
15:00	12	2	13	0	27	10	262	12	13	284	3	7	15	5	25	8	177	2	4	187	22	523	545
15:15	8	3	15	0	26	13	217	9	4	239	7	8	17	1	32	15	167	5	3	187	8	484	492
15:30	5	1	9	0	15	17	301	9	4	327	4	5	12	0	21	20	197	6	5	223	9	586	595
15:45	6	3	14	1	23	19	312	15	5	346	5	6	11	2	22	19	177	9	3	205	11	596	607
Total	31	9	51	1	91	59	1092	45	26	1196	19	26	55	8	100	62	718	22	15	802	50	2189	2239
16:00	10	3	20	1	33	11	340	15	8	366	2	13	17	2	32	16	176	6	5	198	16	629	645
16:15	6	3	13	1	22	9	375	10	5	394	4	5	14	0	23	16	185	5	3	206	9	645	654
16:30	9	3	15	0	27	8	395	8	5	411	7	13	21	2	41	21	225	7	3	253	10	732	742
16:45	3	3	15	0	21	9	396	16	5	421	7	8	7	1	22	22	199	2	4	223	10	687	697
Total	28	12	63	2	103	37	1506	49	23	1592	20	39	59	5	118	75	785	20	15	880	45	2693	2738

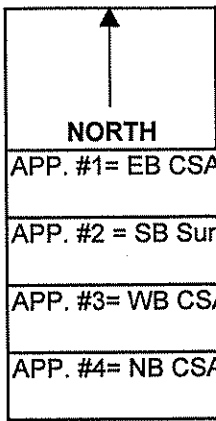
Anoka County Highway Department
Traffic Engineering
Traffic Volume and Turning Movement Stud

Weather: Cloudy/64
Counter TDC-8
Printed by: Josie/Dick

File Name : TMC0030
Site Code : 00300101
Start Date : 10/02/2000
Page No : 2

Groups Printed- 1 - Unshifted

Start Time	SUNSET RD Southbound					CSAH 10 Westbound					CSAH 35 Northbound					CSAH 10 Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0				
17:00	7	1	19	0	27	10	399	12	9	421	3	8	25	0	36	18	212	3	6	233	15	717	732
17:15	5	4	9	0	18	8	414	10	6	432	4	13	10	0	27	19	203	7	1	229	7	706	713
17:30	5	2	9	0	16	10	333	11	4	354	3	8	12	0	23	11	217	3	1	231	5	624	629
17:45	6	4	5	0	15	8	287	9	1	304	2	7	12	3	21	11	207	3	3	221	7	561	568
Total	23	11	42	0	76	36	1433	42	20	1511	12	36	59	3	107	59	839	16	11	914	34	2608	2642
18:00	3	3	7	0	13	6	249	1	3	256	1	5	9	0	15	16	204	3	3	223	6	507	513
18:15	4	4	6	0	14	7	226	6	4	239	6	3	2	0	11	15	171	3	2	189	6	453	459
18:30	1	4	9	2	14	8	241	4	2	253	5	2	6	1	13	10	191	4	0	205	5	485	490
18:45	5	2	11	0	18	12	189	2	0	203	2	2	8	0	12	18	163	4	1	185	1	418	419
Total	13	13	33	2	59	33	905	13	9	951	14	12	25	1	51	59	729	14	6	802	18	1863	1881
19:00	0	4	6	0	10	3	159	3	2	165	1	1	3	0	5	13	168	3	2	184	4	364	368
19:15	2	2	3	0	7	3	176	4	1	183	3	1	5	0	9	16	145	2	1	163	2	362	364
19:30	3	1	6	0	10	3	148	3	0	154	1	2	1	0	4	8	150	6	1	164	1	332	333
19:45	4	2	4	0	10	3	136	6	0	145	1	1	1	1	3	8	144	1	2	153	3	311	314
Total	9	9	19	0	37	12	619	16	3	647	6	5	10	1	21	45	607	12	6	664	10	1369	1379
Grand Total	332	203	664	66	1199	606	10974	526	354	12106	182	205	460	52	847	642	10524	387	271	11553	743	25705	26448
Apprch %	27.7	16.9	55.4			5.0	90.6	4.3			21.5	24.2	54.3			5.6	91.1	3.3			2.8	97.2	
Total %	1.3	0.8	2.6		4.7	2.4	42.7	2.0		47.1	0.7	0.8	1.8		3.3	2.5	40.9	1.5		44.9			



COUNT LOCATION:

CSAH 10 @
CSAH 35

DATE: 10/2/00

APP. #2

- 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.

APP. #1

APP. #3

APP. #4

TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM						6		2
6:15-6:30						4		1
6:30-6:45						10		2
6:45-7:00						16		
HOURLY TOTAL						HOURLY TOTAL		41
7:00-7:15						11		3
7:15-7:30						12		3
7:30-7:45						16		1
7:45-8:00						11		
HOURLY TOTAL						HOURLY TOTAL		57
8:00-8:15						16		2
8:15-8:30						13		2
8:30-8:45						13		2
8:45-9:00						12		1
HOURLY TOTAL						HOURLY TOTAL		61
9:00-9:15						9		2
9:15-9:30						17		7
9:30-9:45						18		3
9:45-10:00						17		2
HOURLY TOTAL						HOURLY TOTAL		75
10:00-10:15						14		2
10:15-10:30						22		
10:30-10:45						16		1
10:45-11:00						18		1
HOURLY TOTAL						HOURLY TOTAL		74
11:00-11:15						14	1	
11:15-11:30						9	1	
11:30-11:45						17		2
11:45-12:00						14		1
HOURLY TOTAL						HOURLY TOTAL		59
12:00-12:15						15		3
12:15-12:30						15		
12:30-12:45						19		1
12:45-1:00						18		1
HOURLY TOTAL						HOURLY TOTAL		72
1:00-1:15						14		
1:15-1:30						6	1	1
1:30-1:45						23		
1:45-2:00						13		
HOURLY TOTAL						HOURLY TOTAL		58

COUNT LOCATION:

CSAH 10 @

DATE:

10/2/00

CSAH 35

NORTH

APP. #1= EB CSAH 10

APP. #2 = SB Sunset Rd.

APP. #3= WB CSAH 10

APP. #4= NB CSAH 35

APP.
#2

APP.
#1

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						22		2
2:15-2:30						17		
2:30-2:45						22		1
2:45-3:00						24		1
HOURLY TOTAL						HOURLY TOTAL		89
3:00-3:15						15	1	6
3:15-3:30						6		2
3:30-3:45						8		1
3:45-4:00						11		
HOURLY TOTAL						HOURLY TOTAL		50
4:00-4:15						16		
4:15-4:30						8		1
4:30-4:45						8		2
4:45-5:00						10		
HOURLY TOTAL						HOURLY TOTAL		45
5:00-5:15						14		1
5:15-5:30						7		
5:30-5:45						5		
5:45-6:00						7		
HOURLY TOTAL						HOURLY TOTAL		34
6:00-6:15						6		
6:15-6:30						5	1	
6:30-6:45						5		
6:45-7:00						1		
HOURLY TOTAL						HOURLY TOTAL		18
7:00-7:15						4		
7:15-7:30						2		
7:30-7:45						1		
7:45-8:00						3		
HOURLY TOTAL						HOURLY TOTAL		10
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		

Major Street Approaches:

stbound:

CSAH 10

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 50
 Total Approach Traffic: 11553

Westbound:

CSAH 10

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 50
 Total Approach Traffic: 12106

Minor Street Approaches:

Northbound:

CSAH 35

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 40
 Total Approach Traffic: 847

Southbound:

SUNSET RD

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 35
 Total Approach Traffic: 1199

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

Hour Begin	Main (Total)	Side			Warrant 1		Warrant 2		Warrant 8	
		Vol.	Dir.	Rank	Meets?	Criteria	Meets?	Criteria	Meets?	Criteria
0	0	0	S	15		140		70		112
1	0	0	S	16		140		70		112
2	0	0	S	17		140		70		112
3	0	0	S	18		140		70		112
4	0	0	S	19		140		70		112
5	0	0	S	20		140		70		112
6	1538	71	S	12	MAIN	140	--BOTH--	70	MAIN	112
7	2238	97	S	7	MAIN	140	--BOTH--	70	MAIN	112
8	1267	79	S	10	MAIN	140	--BOTH--	70	MAIN	112
9	1177	80	S	9	MAIN	140	--BOTH--	70	MAIN	112
10	1243	79	S	11	MAIN	140	--BOTH--	70	MAIN	112
11	1390	106	S	4	MAIN	140	--BOTH--	70	MAIN	112
12	1509	125	S	1	MAIN	140	--BOTH--	70	--BOTH--	112
13	1585	90	S	8	MAIN	140	--BOTH--	70	MAIN	112
14	1753	106	S	5	MAIN	140	--BOTH--	70	MAIN	112
15	1998	100	N	6	MAIN	140	--BOTH--	70	MAIN	112
16	2472	118	N	2	MAIN	140	--BOTH--	70	--BOTH--	112
17	2425	107	N	3	MAIN	140	--BOTH--	70	MAIN	112
18	1753	59	S	13	MAIN	140	MAIN	70	MAIN	112
19	1311	37	S	14	MAIN	140	MAIN	70	MAIN	112
20	0	0	S	21		140		70		112
21	0	0	S	22		140		70		112
22	0	0	S	23		140		70		112
23	0	0	S	24		140		70		112

Warrant Summary:

Rural 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

SATISFIED for 12 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. 8th-High Hour--Pedestrians: 9; Vehicles: 1998. Criteria--Pedestrians: 105; Vehicles: 420.

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: 2693.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which connect areas of principal traffic generation.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which have surface street freeway or expressway ramp terminals.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

NOT SATISFIED. Required values reached for 2 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 9 hours.

Warrant 10 - Peak Hour Delay

NOT SATISFIED. Peak hour (1600 hours) volume not adequate.

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

Warrant 11 - Peak Hour Volume

SATISFIED for 6 hours.

CSAH 10 @ CSAH 35 (OLD CENTRAL)

	APPROACH # 1 W. Service Road	APPROACH #2 Sunset Road	APPROACH #3 E. Service Road	APPROACH #4 83rd	Total
6:00 - 6:15 AM	2	2			
6:15 - 6:30	5	10			
6:30 - 6:45	3	16			
6:45 - 7:00	12	21			
HOURLY TOTAL	22	49			71
7:00 - 7:15	8	20		1	
7:15 - 7:30	8	15		1	
7:30 - 7:45	3	18		2	
7:45 - 8:00	4	16		2	
HOURLY TOTAL	23	69		5	97
8:00 - 8:15	4	16			
8:15 - 8:30	9	14		2	
8:30 - 8:45	3	11	1	1	
8:45 - 9:00	9	6	3		
HOURLY TOTAL	25	47	4	3	79
9:00 - 9:15	12	7	2	1	
9:15 - 9:30	8	3	2	2	
9:30 - 9:45	15	6			
9:45 - 10:00	13	7	1	1	
HOURLY TOTAL	48	23	5	4	80
10:00 - 10:15	12	5	2		
10:15 - 10:30	10	3	2	1	
10:30 - 10:45	16	5	5		
10:45 - 11:00	10	4	3	1	
HOURLY TOTAL	48	17	12	2	79
11:00 - 11:15	19	6	12		
11:15 - 11:30	14	7		1	
11:30 - 11:45	13	7	3	1	
11:45 - 12:00	13	12	1		
HOURLY TOTAL	59	14	2	2	106
12:00 - 12:15	18	9	6	3	
12:15 - 12:30	32	3	4		
12:30 - 12:45	3	23			
12:45 - 1:00	16	11	3		
HOURLY TOTAL	69	46	7	3	125
1:00 - 1:15	8	7	3	5	
1:15 - 1:30	4	4	3	5	
1:30 - 1:45	13	9	5		
1:45 - 2:00	11	10	3		
HOURLY TOTAL	36	30	14	10	90

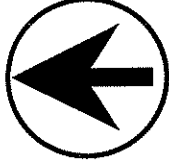
CSAH 10 @ CSAH 35 (OLD CENTRAL)

	APPROACH # 1 W. Service Road	APPROACH #2 Sunset Road	APPROACH #3 E. Service Road	APPROACH #4 83rd	Total
2:00 - 2:15 PM	10	12	5		
2:15 - 2:30	12	7	4		
2:30 - 2:45	9	6	6		
2:45 - 3:00	14	17	4		
HOURLY TOTAL	45	42	19		106
3:00 - 3:15	11	15		1	
3:15 - 3:30	9	16		1	
3:30 - 3:45	7	5		3	
3:45 - 4:00	8	9	1	5	
HOURLY TOTAL	35	45	1	10	91
4:00 - 4:15	12	18		3	
4:15 - 4:30	13	7	2		
4:30 - 4:45	13	10	2	2	
4:45 - 5:00	12	8		1	
HOURLY TOTAL	50	43	4	6	106
5:00 - 5:15	12	14	1		
5:15 - 5:30	13	5			
5:30 - 5:45	10	6			
5:45 - 6:00	11	4			
HOURLY TOTAL	46	29	1		76
6:00 - 6:15	8	5			
6:15 - 6:30	8	3	3		
6:30 - 6:45	6	8			
6:45 - 7:00	11	7			
HOURLY TOTAL	33	23	3		59
7:00 - 7:15	6	4			
7:15 - 7:30	5	2			
7:30 - 7:45	8	2			
7:45 - 8:00	6	4			
HOURLY TOTAL	25	12			37
8:00 - 8:15					
8:15 - 8:30					
8:30 - 8:45					
8:45 - 9:00					
HOURLY TOTAL					
9:00 - 9:15					
9:15 - 9:30					
9:30 - 9:45					
9:45 - 10:00					

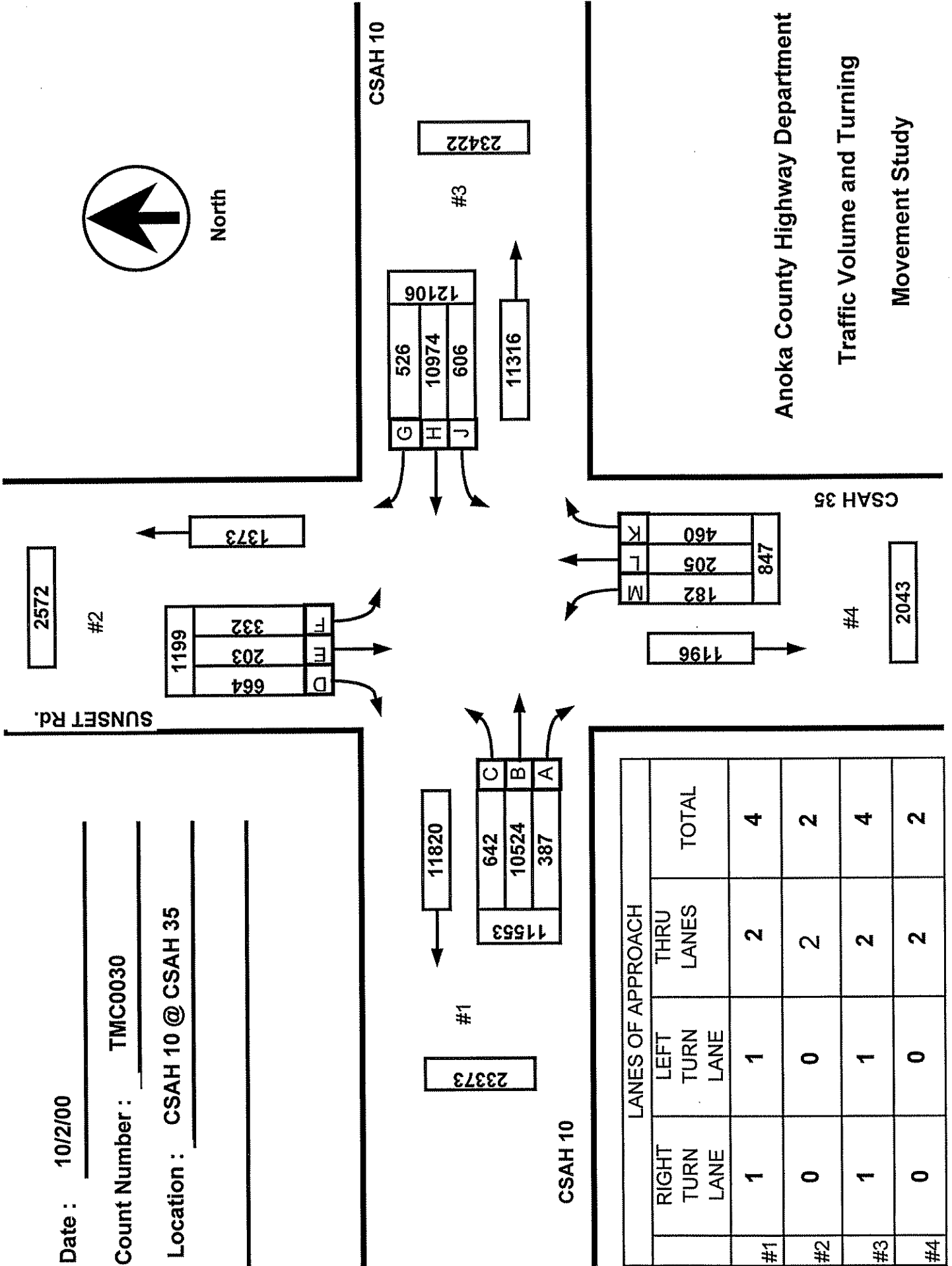
Date : 10/2/00

Count Number : TMC0030

Location : CSAH 10 @ CSAH 35



North



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

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

Anoka County Highway Department
 Traffic Engineering
 Traffic Volume and Turning Movement Stud

Weather: Cloudy/64
 Counter TDC-8
 Counted by: Josie/Dick

File Name : TMC0030
 Site Code : 00300101
 Start Date : 10/02/2000
 Page No : 1

Groups Printed- 1 - Unshifted

Start Time	SUNSET RD Southbound					CSAH 10 Westbound					CSAH 35 Northbound					CSAH 10 Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0				
06:00	1	2	1	1	4	3	60	6	2	69	1	4	6	0	11	4	151	21	5	176	8	260	268
06:15	2	4	9	1	15	8	92	6	1	106	0	0	4	0	4	4	203	9	3	216	5	341	346
06:30	2	4	13	1	19	14	134	6	6	154	1	1	6	0	8	5	309	13	5	327	12	508	520
06:45	3	13	17	0	33	16	131	3	8	150	1	2	5	0	8	4	321	15	8	340	16	531	547
Total	8	23	40	3	71	41	417	21	17	479	3	7	21	0	31	17	984	58	21	1059	41	1640	1681
07:00	1	11	17	2	29	16	107	8	2	131	0	2	3	0	5	10	406	9	10	425	14	590	604
07:15	2	9	12	2	23	17	115	6	4	138	1	0	7	0	8	9	383	7	9	399	15	568	583
07:30	5	6	12	4	23	12	183	6	8	201	2	2	6	1	10	2	410	15	4	427	17	661	678
07:45	3	2	17	0	22	25	150	4	4	179	1	4	6	0	11	10	305	23	7	338	11	550	561
Total	11	28	58	8	97	70	555	24	18	649	4	8	22	1	34	31	1504	54	30	1589	57	2369	2426
08:00	8	1	11	1	20	19	107	7	6	133	3	2	6	4	11	8	191	13	7	212	18	376	394
08:15	8	3	14	2	25	10	135	8	6	153	2	0	3	0	5	11	162	8	7	181	15	364	379
08:30	4	5	7	3	16	14	125	5	10	144	4	1	6	0	11	7	143	7	2	157	15	328	343
08:45	2	5	11	0	18	7	128	15	8	150	3	4	6	0	13	6	120	11	5	137	13	318	331
Total	22	14	43	6	79	50	495	35	30	580	12	7	21	4	40	32	616	39	21	687	61	1386	1447
09:00	6	2	14	1	22	11	118	4	4	133	4	2	8	0	14	7	143	4	6	154	11	323	334
09:15	5	1	9	4	15	18	156	8	13	182	1	2	4	2	7	13	115	5	5	133	24	337	361
09:30	7	1	13	1	21	13	130	10	8	153	4	3	7	4	14	5	122	5	8	132	21	320	341
09:45	3	4	15	0	22	13	141	9	11	163	3	2	3	1	8	1	122	4	7	127	19	320	339
Total	21	8	51	6	80	55	545	31	36	631	12	9	22	7	43	26	502	18	26	546	75	1300	1375
10:00	8	1	10	1	19	9	138	11	7	158	2	4	7	3	13	16	129	5	5	150	16	340	356
10:15	5	1	10	1	16	7	149	12	10	168	1	1	7	2	9	6	121	6	9	133	22	326	348
10:30	9	3	15	4	27	4	136	8	5	148	1	4	7	1	12	7	157	6	7	170	17	357	374
10:45	6	2	9	1	17	14	135	3	10	152	3	0	9	0	12	12	142	10	8	164	19	345	364
Total	28	7	44	7	79	34	558	34	32	626	7	9	30	6	46	41	549	27	29	617	74	1368	1442
11:00	9	3	14	0	26	15	148	10	13	173	3	1	6	0	10	9	126	5	2	140	15	349	364
11:15	6	3	15	1	24	10	149	7	4	166	6	4	8	0	18	11	150	13	5	174	10	382	392
11:30	13	4	10	1	27	14	153	9	10	176	6	2	10	0	18	12	150	9	8	171	19	392	411
11:45	8	4	17	2	29	12	174	7	9	193	1	2	12	1	15	18	169	10	3	197	15	434	449
Total	36	14	56	4	106	51	624	33	36	708	16	9	36	1	61	50	595	37	18	682	59	1557	1616
12:00	6	7	17	3	30	13	180	16	9	209	6	6	11	0	23	13	161	12	6	186	18	448	466
12:15	13	7	19	2	39	8	185	12	4	205	3	0	11	3	14	9	170	5	6	184	15	442	457
12:30	10	3	13	3	26	13	147	12	11	172	4	3	12	0	19	10	173	8	6	191	20	408	428
12:45	8	3	19	1	30	14	157	15	9	186	3	5	7	0	15	10	159	7	9	176	19	407	426
Total	37	20	68	9	125	48	669	55	33	772	16	14	41	3	71	42	663	32	27	737	72	1705	1777
13:00	9	5	9	2	23	14	182	20	5	216	2	5	7	1	14	15	166	3	6	184	14	437	451
13:15	3	3	10	0	16	7	165	16	6	188	5	2	4	0	11	14	177	7	2	198	8	413	421
13:30	9	6	12	1	27	7	196	15	7	218	4	6	7	4	17	20	185	3	11	208	23	470	493
13:45	8	4	12	0	24	10	156	16	8	182	4	1	7	1	12	17	170	4	4	191	13	409	422
Total	29	18	43	3	90	38	699	67	26	804	15	14	25	6	54	66	698	17	23	781	58	1729	1787
14:00	11	4	12	7	27	16	195	17	12	228	5	1	4	2	10	7	166	3	3	176	24	441	465
14:15	7	5	11	2	23	10	192	11	8	213	7	4	7	1	18	6	183	8	6	197	17	451	468
14:30	8	0	13	2	21	5	239	19	13	263	3	0	4	0	7	14	204	6	8	224	23	515	538
14:45	10	8	17	4	35	11	231	14	12	256	11	5	19	3	35	10	182	4	6	196	25	522	547
Total	36	17	53	15	106	42	857	61	45	960	26	10	34	6	70	37	735	21	23	793	89	1929	2018
15:00	12	2	13	0	27	10	262	12	13	284	3	7	15	5	25	8	177	2	4	187	22	523	545
15:15	8	3	15	0	26	13	217	9	4	239	7	8	17	1	32	15	167	5	3	187	8	484	492
15:30	5	1	9	0	15	17	301	9	4	327	4	5	12	0	21	20	197	6	5	223	9	586	595
15:45	6	3	14	1	23	19	312	15	5	346	5	6	11	2	22	19	177	9	3	205	11	596	607
Total	31	9	51	1	91	59	1092	45	26	1196	19	26	55	8	100	62	718	22	15	802	50	2189	2239
16:00	10	3	20	1	33	11	340	15	8	366	2	13	17	2	32	16	176	6	5	198	16	629	645
16:15	6	3	13	1	22	9	375	10	5	394	4	5	14	0	23	16	185	5	3	206	9	645	654
16:30	9	3	15	0	27	8	395	8	5	411	7	13	21	2	41	21	225	7	3	253	10	732	742
16:45	3	3	15	0	21	9	396	16	5	421	7	8	7	1	22	22	199	2	4	223	10	687	697
Total	28	12	63	2	103	37	1506	49	23	1592	20	39	59	5	118	75	785	20	15	880	45	2693	2738

Anoka County Highway Department
Traffic Engineering
Traffic Volume and Turning Movement Stud

Weather: Cloudy/64
Counter TDC-8
Counted by: Josie/Dick

File Name : TMC0030
Site Code : 00300101
Start Date : 10/02/2000
Page No : 2

Groups Printed- 1 - Unshifted

Start Time	SUNSET RD Southbound					CSAH 10 Westbound					CSAH 35 Northbound					CSAH 10 Eastbound					Exclu. Total	Inclu. Total	Int. Total
	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total	Left	Thru	Right	Heavy	App. Total			
Factor	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0				
17:00	7	1	19	0	27	10	399	12	9	421	3	8	25	0	36	18	212	3	6	233	15	717	732
17:15	5	4	9	0	18	8	414	10	6	432	4	13	10	0	27	19	203	7	1	229	7	706	713
17:30	5	2	9	0	16	10	333	11	4	354	3	8	12	0	23	11	217	3	1	231	5	624	629
17:45	6	4	5	0	15	8	287	9	1	304	2	7	12	3	21	11	207	3	3	221	7	561	568
Total	23	11	42	0	76	36	1433	42	20	1511	12	36	59	3	107	59	839	16	11	914	34	2608	2642
18:00	3	3	7	0	13	6	249	1	3	256	1	5	9	0	15	16	204	3	3	223	6	507	513
18:15	4	4	6	0	14	7	226	6	4	239	6	3	2	0	11	15	171	3	2	189	6	453	459
18:30	1	4	9	2	14	8	241	4	2	253	5	2	6	1	13	10	191	4	0	205	5	485	490
18:45	5	2	11	0	18	12	189	2	0	203	2	2	8	0	12	18	163	4	1	185	1	418	419
Total	13	13	33	2	59	33	905	13	9	951	14	12	25	1	51	59	729	14	6	802	18	1863	1881
19:00	0	4	6	0	10	3	159	3	2	165	1	1	3	0	5	13	168	3	2	184	4	364	368
19:15	2	2	3	0	7	3	176	4	1	183	3	1	5	0	9	16	145	2	1	163	2	362	364
19:30	3	1	6	0	10	3	148	3	0	154	1	2	1	0	4	8	150	6	1	164	1	332	333
19:45	4	2	4	0	10	3	136	6	0	145	1	1	1	1	3	8	144	1	2	153	3	311	314
Total	9	9	19	0	37	12	619	16	3	647	6	5	10	1	21	45	607	12	6	664	10	1369	1379
Grand Total	332	203	664	66	1199	606	10974	526	354	12106	182	205	460	52	847	642	10524	387	271	11553	743	25705	26448
Apprch %	27.7	16.9	55.4			5.0	90.6	4.3			21.5	24.2	54.3			5.6	91.1	3.3			2.8	97.2	
Total %	1.3	0.8	2.6		4.7	2.4	42.7	2.0		47.1	0.7	0.8	1.8		3.3	2.5	40.9	1.5		44.9			

Major Street Approaches:

Eastbound:

CSAH 10

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 50
 Total Approach Traffic: 11553

Westbound:

CSAH 10

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 50
 Total Approach Traffic: 12106

Minor Street Approaches:

Northbound:

CSAH 35

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 40
 Total Approach Traffic: 847

Southbound:

SUNSET RD

Data File: C:\Program Files\JAMAR\PETRA\Data Files\TMC0030.war
 Count Type: IMC. Channel: 0. Count Date: 10/ 2/ 0
 Number of Lanes: 2
 Approach Speed: 35
 Total Approach Traffic: 1199

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 S	15	140	70	112
1	0	0 S	16	140	70	112
2	0	0 S	17	140	70	112
3	0	0 S	18	140	70	112
4	0	0 S	19	140	70	112
5	0	0 S	20	140	70	112
6	1538	71 S	12	MAIN 140	--BOTH-- 70	MAIN 112
7	2238	97 S	7	MAIN 140	--BOTH-- 70	MAIN 112
8	1267	79 S	10	MAIN 140	--BOTH-- 70	MAIN 112
9	1177	80 S	9	MAIN 140	--BOTH-- 70	MAIN 112
10	1243	79 S	11	MAIN 140	--BOTH-- 70	MAIN 112
11	1390	106 S	4	MAIN 140	--BOTH-- 70	MAIN 112
12	1509	125 S	1	MAIN 140	--BOTH-- 70	--BOTH-- 112
13	1585	90 S	8	MAIN 140	--BOTH-- 70	MAIN 112
14	1753	106 S	5	MAIN 140	--BOTH-- 70	MAIN 112
15	1998	100 N	6	MAIN 140	--BOTH-- 70	MAIN 112
16	2472	118 N	2	MAIN 140	--BOTH-- 70	--BOTH-- 112
17	2425	107 N	3	MAIN 140	--BOTH-- 70	MAIN 112
18	1753	59 S	13	MAIN 140	MAIN 70	MAIN 112
19	1311	37 S	14	MAIN 140	MAIN 70	MAIN 112
20	0	0 S	21	140	70	112
21	0	0 S	22	140	70	112
22	0	0 S	23	140	70	112
23	0	0 S	24	140	70	112

Warrant Summary:

Rural 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

SATISFIED for 12 hours. Criteria--Main St.: 630; Side St.: See Volume Summary.

Warrant 3 - Minimum Pedestrian Volumes

NOT SATISFIED. 8th-High Hour--Pedestrians: 9; Vehicles: 1998. Criteria--Pedestrians: 105; Vehicles: 420.

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: 2693.

- Approaches which are part of the principal through traffic roadway network.
- Approaches which connect areas of principal traffic generation.
- Approaches which include rural or suburban highways outside, entering or traversing a city.
- Approaches which have surface street freeway or expressway ramp terminals.
- Approaches which appear as a major route in an official transportation plan.

Warrant 8 - Combination of Warrants

NOT SATISFIED. Required values reached for 2 hours. Criteria--Main: 504; Side: See Volume Summary.

Warrant 9 - Four Hour Volumes

SATISFIED for 9 hours.

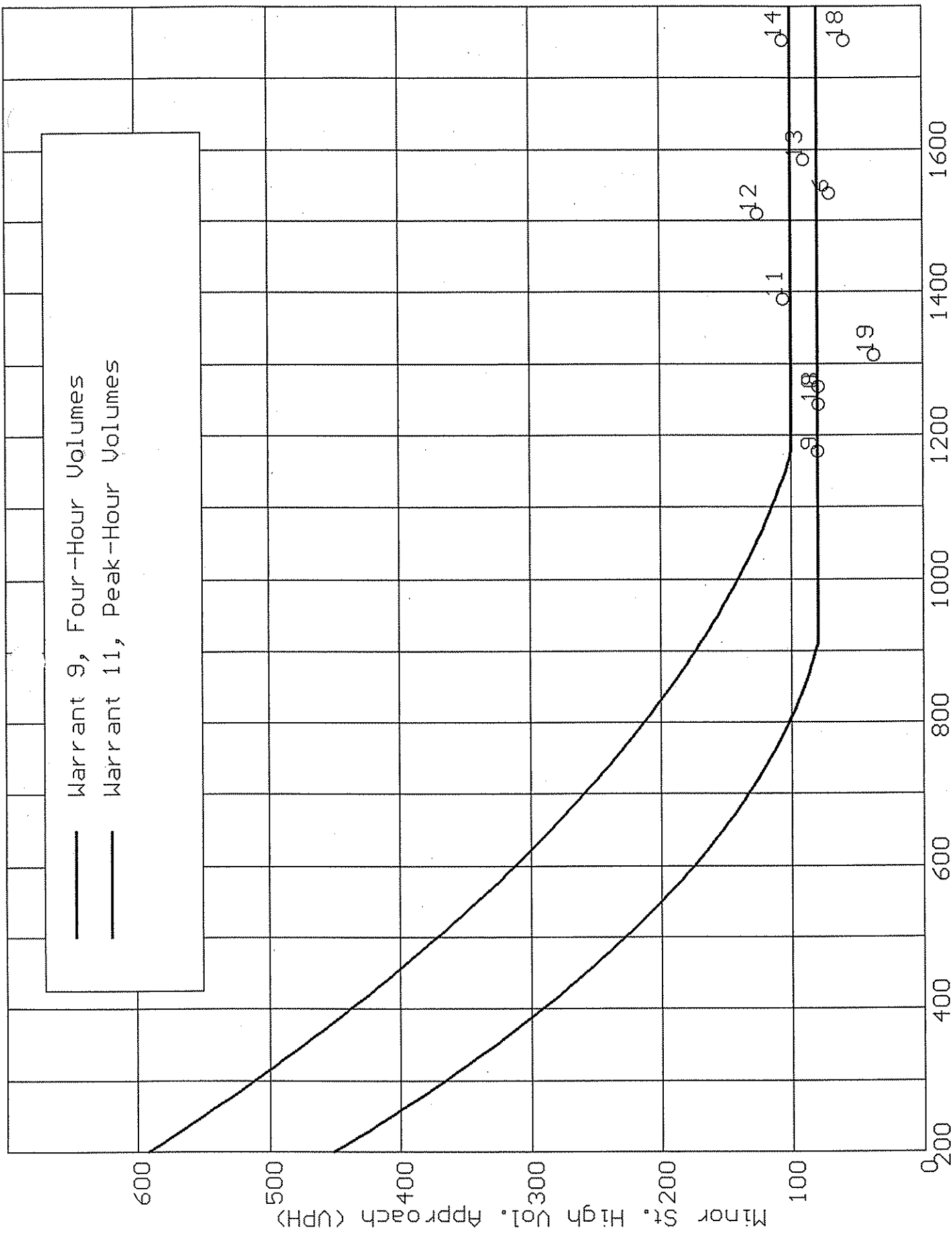
Warrant 10 - Peak Hour Delay

NOT SATISFIED. Peak hour (1600 hours) volume not adequate.

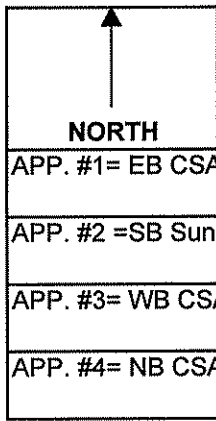
Criteria--Main St.: 800 (4 approaches), 650 (3 approaches); Side St.: 150.

Warrant 11 - Peak Hour Volume

SATISFIED for 6 hours.



Major St. Total of Both Approaches (UPH)



COUNT LOCATION:

CSAH 10 @
CSAH 35

DATE:

10/2/00

- 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					8		2
6:15-6:30						2		1
6:30-6:45						9		2
6:45-7:00						15		
HOURLY TOTAL						HOURLY TOTAL		39
7:00-7:15						4		4
7:15-7:30						9		2
7:30-7:45						10		2
7:45-8:00						9		
HOURLY TOTAL						HOURLY TOTAL		40
8:00-8:15						8		2
8:15-8:30						11		2
8:30-8:45						7		2
8:45-9:00						15		1
HOURLY TOTAL						HOURLY TOTAL		48
9:00-9:15						11		2
9:15-9:30						8		2
9:30-9:45						10		2
9:45-10:00						13		3
HOURLY TOTAL						HOURLY TOTAL		51
10:00-10:15						9		1
10:15-10:30						13		
10:30-10:45						13		
10:45-11:00						18	1	
HOURLY TOTAL						HOURLY TOTAL		55
11:00-11:15						12		1
11:15-11:30						21		1
11:30-11:45						15	1	
11:45-12:00						18		
HOURLY TOTAL						HOURLY TOTAL		69
12:00-12:15						15		2
12:15-12:30						14		3
12:30-12:45						12		
12:45-1:00						11		1
HOURLY TOTAL						HOURLY TOTAL		58
1:00-1:15						13		
1:15-1:30						17		
1:30-1:45						8		
1:45-2:00						6		
HOURLY TOTAL						HOURLY TOTAL		44

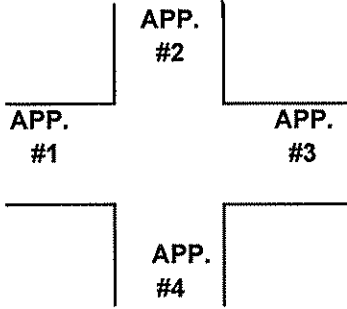
↑ NORTH
APP. #1= EB CSAH 10
APP. #2 = SB Sunset Rd.
APP. #3= WB CSAH 10
APP. #4= NB CSAH 35

COUNT LOCATION:

CSAH 10 @
CSAH 35

DATE:

10/2/00



- 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						22		2
2:15-2:30						17		
2:30-2:45						22		1
2:45-3:00						24		1
HOURLY TOTAL						HOURLY TOTAL		89
3:00-3:15						15	1	6
3:15-3:30						6		2
3:30-3:45						8		1
3:45-4:00						11		
HOURLY TOTAL						HOURLY TOTAL		50
4:00-4:15						16		
4:15-4:30						8		1
4:30-4:45						8		2
4:45-5:00						10		
HOURLY TOTAL						HOURLY TOTAL		45
5:00-5:15						14		1
5:15-5:30						7		
5:30-5:45						5		
5:45-6:00						7		
HOURLY TOTAL						HOURLY TOTAL		34
6:00-6:15						6		
6:15-6:30						5	1	
6:30-6:45						5		
6:45-7:00						1		
HOURLY TOTAL						HOURLY TOTAL		18
7:00-7:15						4		
7:15-7:30						2		
7:30-7:45						1		
7:45-8:00						3		
HOURLY TOTAL						HOURLY TOTAL		10
8:00-8:15								
8:15-8:30								
8:30-8:45								
8:45-9:00								
HOURLY TOTAL						HOURLY TOTAL		
9:00-9:15								
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		