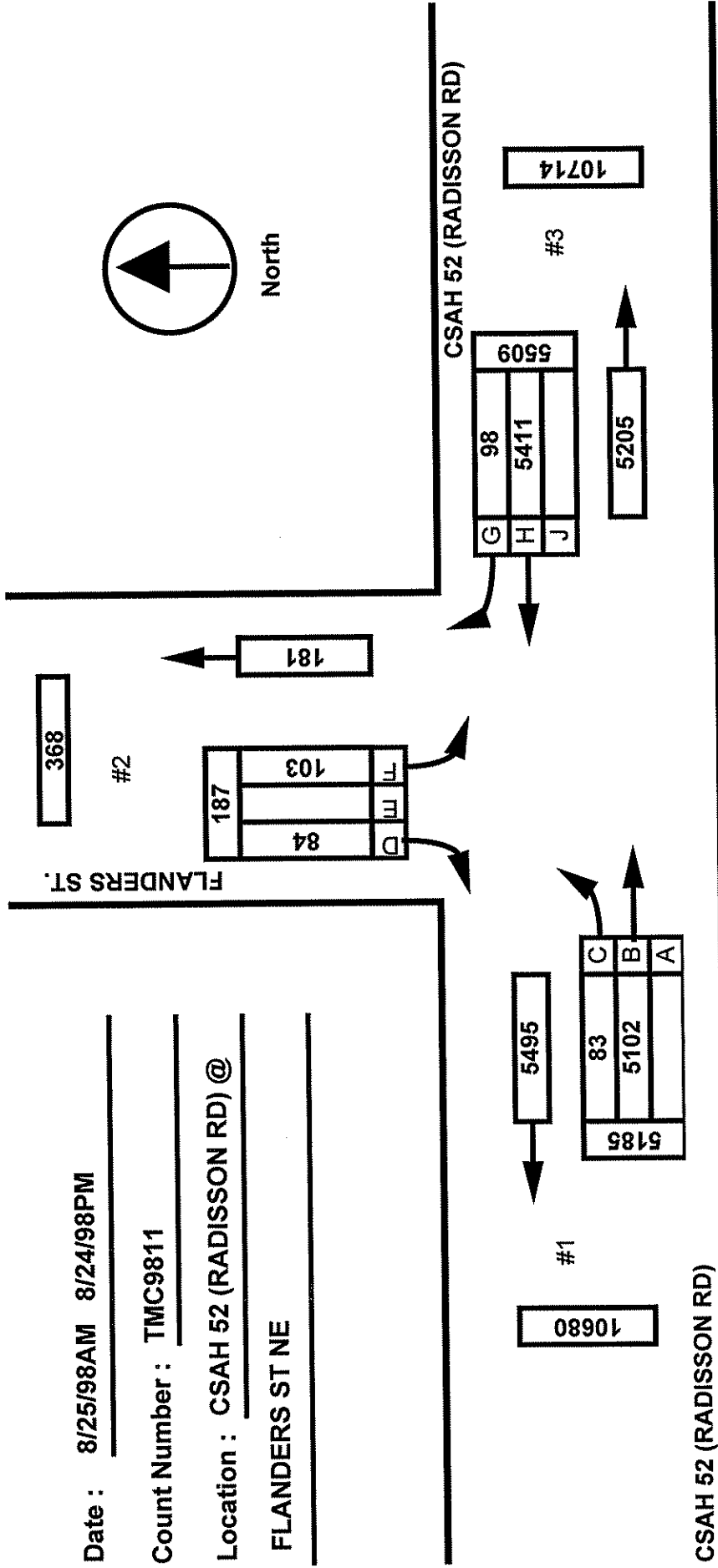


Date : 8/25/98AM 8/24/98PM

Count Number : TMC9811

Location : CSAH 52 (RADISSON RD) @

FLANDERS ST NE



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

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

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

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 Horsham, PA.

Study Name: TMC9811
 Site Code : 98110102
 Start Date: 08/25/98
 Page : 1

Vehicle group 1

Start Time	FLANDERS ST NE			CSAH 52 (RADISSON RD)			CSAH 52 (RADISSON RD)			Intrvl. Total	Exclude Total	Include Total
	Southbound			Westbound			Eastbound					
	Left	Right	Other	Thru	Right	Other	Left	Thru	Other			
08/25/98												
06:00	0	0	0	39	3	11	2	162	3	220	14	206
06:15	0	1	0	39	2	1	3	163	12	221	13	208
06:30	0	0	0	51	1	6	7	211	7	283	13	270
06:45	0	1	1	75	8	5	3	235	13	341	19	322
Hour	0	2	1	204	14	23	15	771	35	1065	59	1006
07:00	0	3	3	43	0	1	2	205	6	263	10	253
07:15	1	1	1	45	5	7	5	179	10	254	18	236
07:30	1	1	1	58	4	4	2	207	8	286	13	273
07:45	0	5	2	56	2	9	3	212	12	301	23	278
Hour	2	10	7	202	11	21	12	803	36	1104	64	1040
08:00	2	2	1	52	1	11	0	141	10	220	22	198
08:15	0	0	0	43	1	10	4	123	24	205	34	171
08:30	1	3	3	43	2	9	1	101	9	172	21	151
08:45	1	2	2	58	5	17	3	103	16	207	35	172
Hour	4	7	6	196	9	47	8	468	59	804	112	692
09:00	2	1	2	55	2	18	3	66	9	158	29	129
09:15	3	1	0	49	3	14	2	75	19	166	33	133
09:30	3	1	2	37	4	9	0	84	16	156	27	129
09:45	3	3	3	44	0	7	1	52	8	121	18	103
Hour	11	6	7	185	9	48	6	277	52	601	107	494
10:00	1	0	0	49	1	11	0	59	14	135	25	110
10:15	2	0	2	57	1	14	1	46	13	136	29	107
10:30	2	2	1	43	2	7	4	52	11	124	19	105
10:45	1	2	0	49	0	12	1	55	10	130	22	108
Hour	6	4	3	198	4	44	6	212	48	525	95	430
11:00	2	3	1	50	1	15	1	47	8	128	24	104
11:15	2	2	2	38	1	16	2	56	14	133	32	101
11:30	0	3	1	46	3	10	3	71	16	153	27	126
11:45	5	2	1	60	1	10	2	55	14	150	25	125
Hour	9	10	5	194	6	51	8	229	52	564	108	456
12:00	9	2	0	51	3	15	0	46	6	132	21	111
12:15	6	1	0	71	3	18	0	46	7	152	25	127
12:30	1	2	0	52	5	13	2	63	15	153	28	125
12:45	1	0	1	64	4	9	1	74	15	169	25	144
Hour	17	5	1	238	15	55	3	229	43	606	99	507

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

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Study Name: TMC9811
 Site Code : 98110102
 Start Date: 08/25/98
 Page : 2

Vehicle group 1

Start Time	FLANDERS ST NE			CSAH 52 (RADISSON RD)			CSAH 52 (RADISSON RD)			Intrvl. Total	Exclude Total	Include Total
	Southbound			Westbound			Eastbound					
	Left	Right	Other	Thru	Right	Other	Left	Thru	Other			
13:00	1	1	1	44	7	12	2	76	12	156	25	131
13:15	0	1	1	61	0	8	3	71	14	159	23	136
13:30	4	0	0	64	3	22	0	48	10	151	32	119
13:45	1	2	3	67	0	13	1	76	14	177	30	147
Hour	6	4	5	236	10	55	6	271	50	643	110	533
14:00	4	0	2	75	0	11	1	68	8	169	21	148
14:15	1	3	2	86	1	9	1	61	12	176	23	153
14:30	2	1	0	92	1	4	1	65	6	172	10	162
14:45	5	3	3	105	2	12	1	72	13	216	28	188
Hour	12	7	7	358	4	36	4	266	39	733	82	651
15:00	2	1	1	152	2	9	1	55	6	229	16	213
15:15	3	1	0	169	1	17	0	72	10	273	27	246
15:30	1	2	1	173	3	15	1	73	10	279	26	253
15:45	1	2	1	179	2	9	1	72	7	274	17	257
Hour	7	6	3	673	8	50	3	272	33	1055	86	969
16:00	2	3	0	199	1	7	1	68	7	288	14	274
16:15	1	0	1	200	0	8	1	69	3	283	12	271
16:30	1	4	1	179	1	6	3	108	7	310	14	296
16:45	4	2	2	211	0	8	0	69	6	302	16	286
Hour	8	9	4	789	2	29	5	314	23	1183	56	1127
17:00	13	8	0	208	1	4	1	80	2	317	6	311
17:15	2	3	1	214	1	3	1	94	10	329	14	315
17:30	0	1	0	174	0	9	0	72	5	261	14	247
17:45	0	0	0	220	0	2	0	65	4	291	6	285
Hour	15	12	1	816	2	18	2	311	21	1198	40	1158
18:00	1	0	0	155	1	5	1	59	4	226	9	217
18:15	1	1	0	134	0	0	0	61	1	198	1	197
18:30	0	1	0	114	0	1	0	52	2	170	3	167
18:45	0	0	0	90	0	1	0	47	1	139	2	137
Hour	2	2	0	493	1	7	1	219	8	733	15	718
19:00	1	0	0	79	0	3	1	52	2	138	5	133
19:15	2	0	0	70	0	1	0	37	1	111	2	109
19:30	0	0	0	66	1	3	2	41	1	114	4	110
19:45	0	0	0	42	0	3	0	53	1	99	4	95
Hour	3	0	0	257	1	10	3	183	5	462	15	447

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

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Study Name: TMC9811
 Site Code : 98110102
 Start Date: 08/25/98
 Page : 3

Vehicle group 1

Start Time	FLANDERS ST NE			CSAH 52 (RADISSON RD)			CSAH 52 (RADISSON RD)			Intrvl. Total	Exclude Total	Include Total
	Southbound			Westbound			Eastbound					
	Left	Right	Other	Thru	Right	Other	Left	Thru	Other			
20:00	1	0	0	71	1	1	0	61	2	137	3	134
20:15	0	0	0	80	0	2	0	53	1	136	3	133
20:30	0	0	0	36	0	1	0	36	1	74	2	72
20:45	0	0	0	25	0	0	0	31	1	57	1	56
Hour	1	0	0	212	1	4	0	181	5	404	9	395
21:00	0	0	0	45	0	0	1	21	1	68	1	67
21:15	0	0	0	46	0	0	0	27	0	73	0	73
21:30	0	0	0	39	0	0	0	36	0	75	0	75
21:45	0	0	0	30	1	0	0	12	0	43	0	43
Hour	0	0	0	160	1	0	1	96	1	259	1	258
Total	103	84	50	5411	98	498	83	5102	510	11939	1058	10881
% Apr.	43.4	35.4	21.0	90.0	1.6	8.2	1.4	89.5	8.9	-	-	-
% Int.	0.8	0.7	0.4	45.3	0.8	4.1	0.6	42.7	4.2	-	-	-

or Street Approaches:

Lastbound:

CSAH 52 (RADISSON RD)
 Data File: C:\APPS\PETRA2\DATAFILE\TMC9811.PDF
 Count Type: IMC. Channel: 0. Count Date: 8/25/98
 Number of Lanes: 1
 Approach Speed: 55
 Total Approach Traffic: 5185

Westbound:

CSAH 52 (RADISSON RD)
 Data File: C:\APPS\PETRA2\DATAFILE\TMC9811.PDF
 Count Type: IMC. Channel: 0. Count Date: 8/25/98
 Number of Lanes: 2
 Approach Speed: 55
 Total Approach Traffic: 5509

Minor Street Approaches:

Northbound:

Data File: C:\APPS\PETRA2\DATAFILE\TMC9811.PDF
 Count Type: IMC. Channel: 0. Count Date: 8/25/98
 Number of Lanes: 1
 Approach Speed: 0
 Total Approach Traffic: 0

Southbound:

FLANDERS ST NE
 Data File: C:\APPS\PETRA2\DATAFILE\TMC9811.PDF
 Count Type: IMC. Channel: 0. Count Date: 8/25/98
 Number of Lanes: 1
 Approach Speed: 0
 Total Approach Traffic: 187

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
0	0	0	S	16		105	52	84
1	0	0	S	17		105	52	84
2	0	0	S	18		105	52	84
3	0	0	S	19		105	52	84
4	0	0	S	20		105	52	84
5	0	0	S	21		105	52	84
6	1004	2	S	14	MAIN	105	MAIN 52	MAIN 84
7	1028	12	S	8	MAIN	105	MAIN 52	MAIN 84
8	681	11	S	9	MAIN	105	MAIN 52	MAIN 84
9	477	17	S	5	MAIN	105	52	84
10	420	10	S	10	MAIN	105	52	84
11	437	19	S	3	MAIN	105	52	84
12	485	22	S	2	MAIN	105	52	84
13	523	10	S	11	MAIN	105	52	MAIN 84
14	632	19	S	4	MAIN	105	MAIN 52	MAIN 84
15	956	13	S	7	MAIN	105	MAIN 52	MAIN 84
16	1110	17	S	6	MAIN	105	MAIN 52	MAIN 84
17	1131	27	S	1	MAIN	105	MAIN 52	MAIN 84
18	714	4	S	12	MAIN	105	MAIN 52	MAIN 84
19	444	3	S	13	MAIN	105	52	84
20	394	1	S	15		105	52	84
21	258	0	S	22		105	52	84
22	0	0	S	23		105	52	84
23	0	0	S	24		105	52	84

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

NOT SATISFIED. Required values reached for 0 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. At least one street has no major approaches. Peak hour total entering volume: 1158.

- 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.

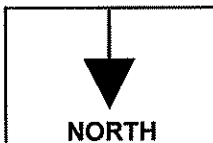
Minor St. High Vol. Approach (VPH)

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

21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

200 400 600 800 1000 1200 1400 1600

Major St. Total of Both Approaches (VPH)



COUNT LOCATION:

CSAH 52 (RADISSON RD)

DATE:

8/25/98

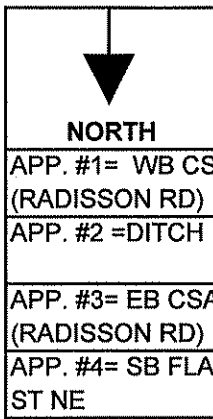
@ FLANDERS ST NE

APP. #1= WB CSAH 52
(RADISSON ROAD)
APP. #2 = DITCH
APP. #3= EB CSAH 52
(RADISSON ROAD)
APP. #4= SB FLANDERS
ST NE

APP. #1 APP. #2
APP. #3 APP. #4

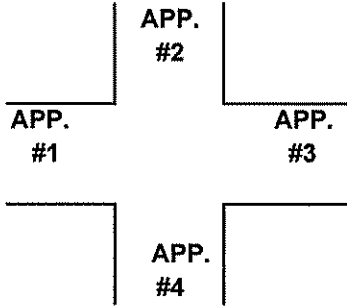
HEAVY VEHICLE- ANY VEHICLE HAVING MORE THAN FOUR TIRES TOUCHING THE PAVEMENT
A. TRUCKS- A HEAVY VEHICLE INVOLVED PRIMARILY IN THE TRANSPORT OF GOODS OR IN THE DELIVERY OF A SERVICE.
B. RV- A HEAVY VEHICLE OPERATED BY A PRIVATE MOTORIST AND INVOLVED IN THE TRANSPORT OF RECREATIONAL EQUIPMENT OR FACILITIES.
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
6:00-6:15AM						13		1
6:15-6:30						14		
6:30-6:45						13		
6:45-7:00						18		1
HOURLY TOTAL						HOURLY TOTAL		60
7:00-7:15						10		
7:15-7:30						18		
7:30-7:45						14		
7:45-8:00						23		1
HOURLY TOTAL						HOURLY TOTAL		66
8:00-8:15						20		2
8:15-8:30						29		3
8:30-8:45						20		2
8:45-9:00						35		
HOURLY TOTAL						HOURLY TOTAL		111
9:00-9:15						26	1	
9:15-9:30						30		1
9:30-9:45				1	1	26		
9:45-10:00						19		
HOURLY TOTAL					1	HOURLY TOTAL		103
10:00-10:15						23		
10:15-10:30						29		
10:30-10:45				1	1	20		
10:45-11:00						20		
HOURLY TOTAL					1	HOURLY TOTAL		92
11:00-11:15						24		
11:15-11:30						30		
11:30-11:45				1	1	27		
11:45-12:00						23		2
HOURLY TOTAL					1	HOURLY TOTAL		106
12:00-12:15						20		
12:15-12:30						24		
12:30-12:45						28		
12:45-1:00						25		
HOURLY TOTAL						HOURLY TOTAL		97
1:00-1:15						25		
1:15-1:30						22		
1:30-1:45						33		
1:45-2:00						30		
HOURLY TOTAL						HOURLY TOTAL		110



COUNT LOCATION: CSAH 52 (RADISSON RD)
@ FLANDERS ST NE

DATE: 8/24/98



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						19		
2:15-2:30						20		1
2:30-2:45						11		
2:45-3:00						29		
HOURLY TOTAL						HOURLY TOTAL		80
3:00-3:15						13		2
3:15-3:30						23		3
3:30-3:45						25		
3:45-4:00						17		
HOURLY TOTAL						HOURLY TOTAL		83
4:00-4:15						16		
4:15-4:30						11		
4:30-4:45						14		
4:45-5:00						16		
HOURLY TOTAL						HOURLY TOTAL		57
5:00-5:15						8		
5:15-5:30						17		1
5:30-5:45						12		
5:45-6:00						6		
HOURLY TOTAL						HOURLY TOTAL		44
6:00-6:15						9		
6:15-6:30						1		
6:30-6:45						4		
6:45-7:00						2		
HOURLY TOTAL						HOURLY TOTAL		16
7:00-7:15						6		
7:15-7:30						2		
7:30-7:45						4		
7:45-8:00						3	1	
HOURLY TOTAL						HOURLY TOTAL		16
8:00-8:15						3		
8:15-8:30						3		
8:30-8:45						2		
8:45-9:00						1		
HOURLY TOTAL						HOURLY TOTAL		9
9:00-9:15						1		
9:15-9:30								
9:30-9:45								
9:45-10:00								
HOURLY TOTAL						HOURLY TOTAL		1