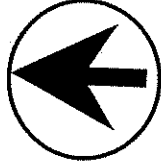


Date : 2/21/06

Count Number : TMC0604

Location : CR 57 (Sunfish Lk. Blvd.)

@ Alpine Dr.



North

CR 57

2234

#2

1107	80	F
995		E
32		D

1127

Alpine Dr.

1519

#3

99	766
326	
341	

753

CR 57

1488

#4

338	1471
987	
146	

2959

1032	504
41	C
335	B
152	A
528	

#1

Alpine Dr.

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

Anoka County Highway Department

Traffic Volume and Turning

Movement Study

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

File Name : TMC0604
Site Code : 06040101
Start Date : 02/21/2006
Page No : 1

Weather: Clear and Cool
Counter: DB-400
Counted by: Josie/Terri

Groups Printed- Unshifted

Start Time	CR 57 Southbound					Alpine Dr. Westbound					CR 57 Northbound					Alpine Dr. 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		1.0	1.0	1.0	1.0				
06:00	0	33	0	0	33	8	3	0	0	11	0	2	1	0	3	0	2	5	0	7	0	0	54	54	0	54	54	
06:15	0	30	0	1	30	4	5	0	0	9	0	4	1	0	5	0	1	5	0	6	1	1	50	51	1	50	51	
06:30	0	45	0	0	45	10	2	2	0	14	0	2	2	1	4	0	2	9	0	11	1	1	74	75	1	74	75	
06:45	2	48	0	1	50	21	3	1	1	25	0	1	7	1	8	0	6	4	0	10	3	3	93	96	3	93	96	
Total	2	156	0	2	158	43	13	3	1	59	0	9	11	2	20	0	11	23	0	34	5	5	271	276	5	271	276	
07:00	2	42	0	1	44	7	2	1	0	10	0	6	1	1	7	1	6	1	0	8	2	2	69	71	2	69	71	
07:15	3	43	3	2	49	7	8	0	0	15	2	11	6	5	19	2	13	4	1	19	8	8	102	110	8	102	110	
07:30	2	44	1	1	47	10	7	0	0	17	2	5	3	1	10	0	13	5	0	18	2	2	92	94	2	92	94	
07:45	2	42	1	0	45	12	10	1	0	23	2	5	3	1	10	1	11	5	1	17	2	2	95	97	2	95	97	
Total	9	171	5	4	185	36	27	2	0	65	6	27	13	8	46	4	43	15	2	62	14	14	358	372	14	358	372	
08:00	2	32	1	3	35	17	8	0	0	25	0	5	6	1	11	1	5	3	1	9	5	5	80	85	5	80	85	
08:15	1	27	0	1	28	10	4	1	0	15	2	13	3	3	18	0	6	2	0	8	4	4	69	73	4	69	73	
08:30	0	25	1	3	26	3	2	3	1	8	2	5	3	3	10	1	5	2	0	8	7	7	52	59	7	52	59	
08:45	2	29	1	1	32	9	9	0	1	18	2	11	6	5	19	0	11	4	0	15	7	7	84	91	7	84	91	
Total	5	113	3	8	121	39	23	4	2	66	6	34	18	12	58	2	27	11	1	40	23	23	285	308	23	285	308	
09:00	5	20	1	5	26	5	5	2	1	12	0	20	12	1	32	0	18	3	4	21	11	11	91	102	11	91	102	
09:15	3	16	0	0	19	5	7	7	1	19	1	16	7	1	24	1	8	2	0	11	2	2	73	75	2	73	75	
09:30	3	22	0	2	25	2	2	1	0	5	2	10	3	2	15	1	6	3	1	10	5	5	55	60	5	55	60	
09:45	1	13	0	2	14	3	5	0	1	8	2	8	4	2	14	0	1	2	0	3	5	5	39	44	5	39	44	
Total	12	71	1	9	84	15	19	10	3	44	5	54	26	6	85	2	33	10	5	45	23	23	258	281	23	258	281	
10:00	1	18	0	2	19	3	1	2	0	6	4	7	3	1	14	1	2	5	0	8	3	3	47	50	3	47	50	
10:15	1	16	0	0	17	4	1	0	0	5	3	10	4	1	17	1	3	2	1	6	2	2	45	47	2	45	47	
10:30	0	16	0	0	16	10	6	1	0	17	0	9	8	0	17	0	4	5	2	9	2	2	59	61	2	59	61	
10:45	4	14	1	3	19	3	6	2	0	11	2	13	4	1	19	0	3	1	0	4	4	4	53	57	4	53	57	
Total	6	64	1	5	71	20	14	5	0	39	9	39	19	3	67	2	12	13	3	27	11	11	204	215	11	204	215	
11:00	0	13	0	0	13	2	2	0	0	4	2	10	3	0	15	0	5	4	1	9	1	1	41	42	1	41	42	
11:15	1	14	2	0	17	4	4	0	0	8	3	12	3	0	18	1	3	0	1	4	1	1	47	48	1	47	48	
11:30	1	8	2	1	11	7	5	2	0	14	4	16	6	2	26	0	5	5	0	10	3	3	61	64	3	61	64	
11:45	1	16	0	0	17	12	3	2	0	17	6	9	5	1	20	0	4	3	1	7	2	2	61	63	2	61	63	
Total	3	51	4	1	58	25	14	4	0	43	15	47	17	3	79	1	17	12	3	30	7	7	210	217	7	210	217	
12:00	2	14	2	1	18	9	8	1	2	18	2	24	4	4	30	0	2	1	0	3	7	7	69	76	7	69	76	
12:15	0	11	1	1	12	9	5	0	0	14	1	20	7	1	28	1	1	3	0	5	2	2	59	61	2	59	61	
12:30	0	15	1	0	16	4	5	0	0	9	1	11	5	0	17	1	4	4	1	9	1	1	51	52	1	51	52	
12:45	2	19	1	1	22	5	1	2	0	8	5	19	5	0	29	1	6	3	0	10	1	1	69	70	1	69	70	
Total	4	59	5	3	68	27	19	3	2	49	9	74	21	5	104	3	13	11	1	27	11	11	248	259	11	248	259	
13:00	0	13	0	1	13	7	6	1	0	14	3	26	7	3	36	0	3	3	0	6	4	4	69	73	4	69	73	
13:15	2	8	0	1	10	4	6	1	0	11	1	6	3	0	10	0	3	4	0	7	1	1	38	39	1	38	39	
13:30	2	6	0	0	8	4	6	0	0	10	1	19	2	0	22	1	3	0	0	4	0	0	44	44	0	44	44	
13:45	3	12	0	0	15	3	1	4	1	8	2	18	9	1	29	1	2	3	0	6	2	2	58	60	2	58	60	
Total	7	39	0	2	46	18	19	6	1	43	7	69	21	4	97	2	11	10	0	23	7	7	209	216	7	209	216	
14:00	0	8	0	0	8	7	3	2	2	12	4	23	7	1	34	1	9	1	0	11	3	3	65	68	3	65	68	
14:15	1	8	0	0	9	5	4	3	0	12	5	14	4	1	23	2	7	3	1	12	2	2	56	58	2	56	58	
14:30	1	17	1	2	19	2	5	5	2	12	5	14	7	1	26	0	1	3	1	4	6	6	61	67	6	61	67	
14:45	3	17	0	0	20	5	8	1	1	14	3	29	3	3	35	1	7	5	2	13	6	6	82	88	6	82	88	
Total	5	50	1	2	56	19	20	11	5	50	17	80	21	6	118	4	24	12	4	40	17	17	264	281	17	264	281	
15:00	3	17	2	2	22	6	10	4	1	20	5	30	8	0	43	2	6	4	1	12	4	4	97	101	4	97	101	
15:15	2	7	1	1	10	5	9	3	0	17	2	15	12	4	29	0	8	1	1	9	6	6	65	71	6	65	71	
15:30	4	13	0	1	17	1	13	4	2	18	3	38	23	2	64	2	9	5	1	16	6	6	115	121	6	115	121	
15:45	5	11	0	0	16	5	7	4	1	16	9	26	14	0	49	1	10	0	3	11	4	4	92	96	4	92	96	
Total	14	48	3	4	65	17	39	15	4	71	19	109	57	6	185	5	33	10	6	48	20	20	369	389	20	369	389	
16:00	1	17	1	3	19	9	9	6	4	24	6	45	17	6	68	0	7	1	1	8	14	14	119	133	14	119	133	
16:15	1	18	2	2	21	6	13	2	1	21	5	26	9	2	40	0	9	0	0	9	5	5	91	96	5	91	96	
16:30	1	11	0	0	12	8	14	2	0	24	7	43	11	1	61	4	12	1	0	17	1	1	114	115	1	114	115	
16:45	1	17	1	0	19	6	15	2	0	23	6	38	10	1	54	3	12	2	0	17	1	1	113	114	1	113	114	
Total	4	63	4	5	71	29	51	12	5	92	24	152	47	10	223	7	40	4	1	51	21	21	437	458	21	437	458	
17:00	1	15	1	0	17	7	9	4	0	20	4	48	11	0	63	2	6	5	0	13	0	0	113	113	0	113	113	
17:15	0	17	2	0	19	6	8	4	0	18	3	53	11	0	67	1	11	2	0	14	0	0	118	118	0	118	118	
17:30	1	21	0	0	22	12	12	4	1	28	7	39	6	1	52	2	10	2	0	14	2	2	116	118	2	116	118	
17:45	2	13	0	0	15	7	8	5	0	20	3	27	8	1	38	0	9											

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

File Name : TMC0604
 Site Code : 06040101
 Start Date : 02/21/2006
 Page No : 2

Weather: Clear and Cool
 Counter: DB-400
 Counted by: Josie/Terri

Groups Printed- Unshifted

Start Time	CR 57 Southbound					Alpine Dr. Westbound					CR 57 Northbound					Alpine Dr. 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				
18:00	0	11	0	0	11	4	5	0	0	9	5	31	14	0	50	0	9	5	0	14	0	84	84
18:15	1	12	1	0	14	5	6	2	0	13	3	35	5	0	43	1	9	3	0	13	0	83	83
18:30	1	12	0	0	13	8	10	2	0	20	2	37	8	1	47	2	6	1	0	9	1	89	90
18:45	3	9	1	0	13	4	10	3	0	17	2	23	4	0	29	1	11	1	0	13	0	72	72
Total	5	44	2	0	51	21	31	7	0	59	12	126	31	1	169	4	35	10	0	49	1	328	329
Grand Total	80	995	32	45	1107	341	326	99	24	766	146	987	338	68	1471	41	335	152	26	528	163	3872	4035
Apprch %	7.2	89.9	2.9			44.5	42.6	12.9			9.9	67.1	23.0			7.8	63.4	28.8					
Total %	2.1	25.7	0.8		28.6	8.8	8.4	2.6		19.8	3.8	25.5	8.7		38.0	1.1	8.7	3.9		13.6	4.0	96.0	

**ANOKA COUNTY HIGHWAY
PC-WARRANTS
TRAFFIC SIGNAL WARRANT ANALYSIS**

Study Name : TMC0604
Study Date : 02/28/06
Page No. : 1

Signal Warrants - Summary

Major Street Approaches

Northbound: CR 57
Number of Lanes: 1
Approach Speed: 55
Total Approach Volume: 1,471

Southbound: CR 57
Number of Lanes: 1
Approach Speed: 55
Total Approach Volume: 1,107

Minor Street Approaches

Eastbound: Alpine Dr.
Number of Lanes: 2
Total Approach Volume: 528

Westbound: Alpine Dr.
Number of Lanes: 2
Total Approach Volume: 766

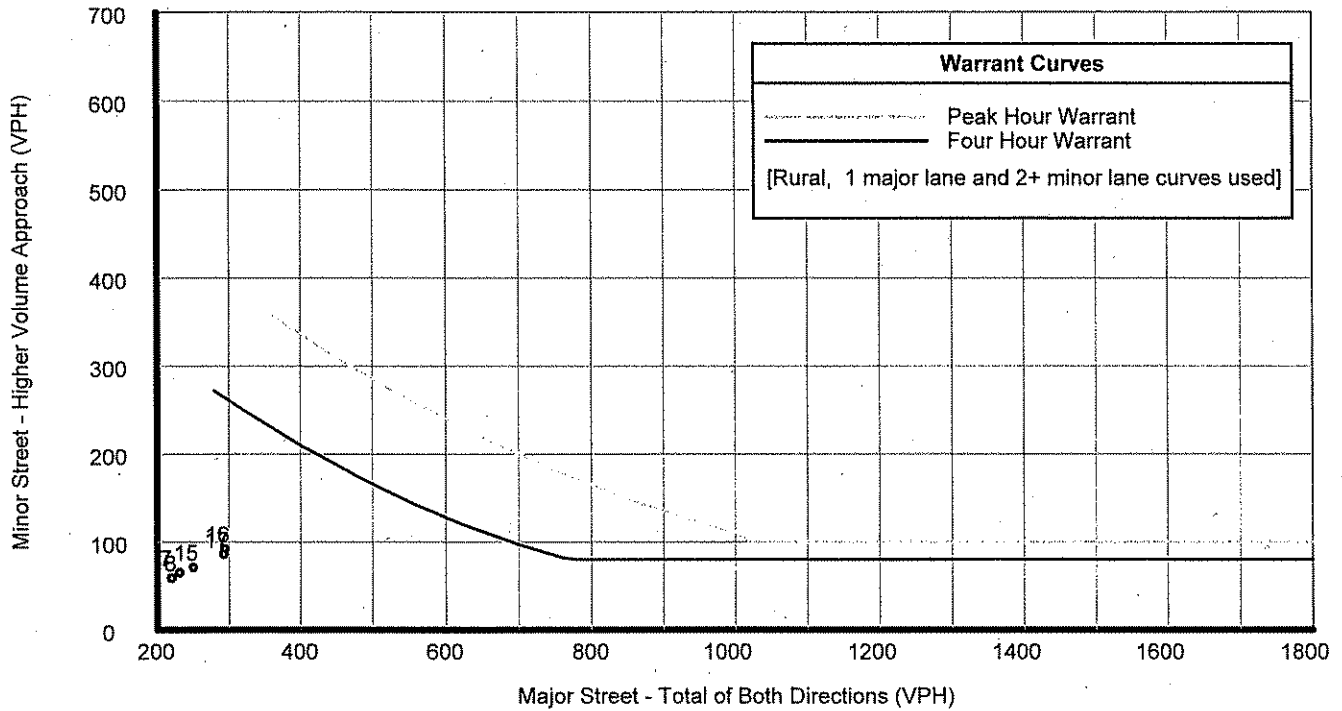
Warrant Summary (Rural values apply.)

Warrant 1 - Eight Hour Vehicular Volumes	Not Satisfied
Warrant 1A - Minimum Vehicular Volume Not Satisfied	
Required volumes reached for 0 hours, 8 are needed	
Warrant 1B - Interruption of Continuous Traffic Not Satisfied	
Required volumes reached for 0 hours, 8 are needed	
Warrant 1 A&B - Combination of Warrants Not Satisfied	
Required volumes reached for 0 hours, 8 are needed	
Warrant 2 - Four Hour Volumes	Not Satisfied
Number of hours (0) volumes exceed minimum < minimum required (4).	
Warrant 3 - Peak Hour	Not Satisfied
Warrant 3A - Peak Hour Delay Not Satisfied	
Approach volumes on minor street don't exceed minimums for any hour. Delay data not evaluated.	
Warrant 3B - Peak Hour Volumes Not Satisfied	
Volumes do not exceed minimums for any hour.	
Warrant 4 - Pedestrian Volumes	Not Evaluated
Warrant 5 - School Crossing	Not Evaluated
Warrant 6 - Coordinated Signal System	Not Evaluated
Warrant 7 - Crash Experience	Not Evaluated
Warrant 8 - Roadway Network	Not Evaluated

ANOKA COUNTY HIGHWAY PC-WARRANTS TRAFFIC SIGNAL WARRANT ANALYSIS

Study Name : TMC0604
Study Date : 02/28/06
Page No. : 2

Signal Warrants - Summary



Analysis of 8-Hour Volume Warrants:

Hour Begin	Major Total	Higher Minor		War-1A			War-1B			War-1A&B		
		Voi	Dir	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
01:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
02:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
03:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
04:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
05:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
06:00	178	59	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
07:00	231	65	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
08:00	179	66	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
09:00	169	45	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
10:00	138	39	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
11:00	137	43	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
12:00	172	49	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
13:00	143	43	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
14:00	174	50	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
15:00	250	71	WB	350-No	140-No	---	525-No	70-Yes	Minor	420-No	112-No	---
16:00	294	92	WB	350-No	140-No	---	525-No	70-Yes	Minor	420-No	112-No	---
17:00	293	86	WB	350-No	140-No	---	525-No	70-Yes	Minor	420-No	112-No	---
18:00	220	59	WB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
19:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
20:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
21:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
22:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---
23:00	0	0	EB	350-No	140-No	---	525-No	70-No	---	420-No	112-No	---

**ANOKA COUNTY HIGHWAY
PC-WARRANTS
TRAFFIC SIGNAL WARRANT ANALYSIS**

Study Name : **TMC0604**
Study Date : **02/28/06**

Multi-Way Stop Warrant Report

Major Street Approaches

Northbound: CR 57
Total Approach Volume: **1,471**
Approach Speed: **55**

Southbound: CR 57
Total Approach Volume: **1,107**
Approach Speed: **55**

Minor Street Approaches

Eastbound: Alpine Dr.
Total Approach Volume: **528**

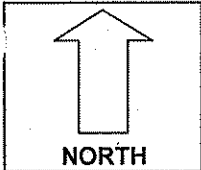
Westbound: Alpine Dr.
Total Approach Volume: **766**

Warrant Summary

Criteria A - Interim Measure	Not Evaluated
If traffic signals are justified, stop signs can be installed as an interim measure.	
Criteria B - Crash Experience	Not Evaluated
Criteria C - Minimum Volumes and Delays	Not Satisfied
Delay data not evaluated Required volumes reached for 1 hours, 8 are needed	
Criteria D - 80% of Volumes, Delays, and Crashes	Not Evaluated
Delay data not evaluated Required volumes reached for 0 hours, 8 are needed	

Analysis of 8-Hour Volume Warrants:

Time	Major Total	Minor Total	Crit C			Crit D		
			Major	Minor	Meets?	Major	Minor	Meets?
00:00 - 01:00	0	0	210-No	140-No	No	240-No	160-No	No
01:00 - 02:00	0	0	210-No	140-No	No	240-No	160-No	No
02:00 - 03:00	0	0	210-No	140-No	No	240-No	160-No	No
03:00 - 04:00	0	0	210-No	140-No	No	240-No	160-No	No
04:00 - 05:00	0	0	210-No	140-No	No	240-No	160-No	No
05:00 - 06:00	0	0	210-No	140-No	No	240-No	160-No	No
06:00 - 07:00	178	93	210-No	140-No	No	240-No	160-No	No
07:00 - 08:00	231	127	210-Yes	140-No	Major	240-No	160-No	No
08:00 - 09:00	179	106	210-No	140-No	No	240-No	160-No	No
09:00 - 10:00	169	89	210-No	140-No	No	240-No	160-No	No
10:00 - 11:00	138	66	210-No	140-No	No	240-No	160-No	No
11:00 - 12:00	137	73	210-No	140-No	No	240-No	160-No	No
12:00 - 13:00	172	76	210-No	140-No	No	240-No	160-No	No
13:00 - 14:00	143	66	210-No	140-No	No	240-No	160-No	No
14:00 - 15:00	174	90	210-No	140-No	No	240-No	160-No	No
15:00 - 16:00	250	119	210-Yes	140-No	Major	240-Yes	160-No	Major
16:00 - 17:00	294	143	210-Yes	140-Yes	Both	240-Yes	160-No	Major
17:00 - 18:00	293	138	210-Yes	140-No	Major	240-Yes	160-No	Major
18:00 - 19:00	220	108	210-Yes	140-No	Major	240-No	160-No	No
19:00 - 20:00	0	0	210-No	140-No	No	240-No	160-No	No
20:00 - 21:00	0	0	210-No	140-No	No	240-No	160-No	No
21:00 - 22:00	0	0	210-No	140-No	No	240-No	160-No	No
22:00 - 23:00	0	0	210-No	140-No	No	240-No	160-No	No
23:00 - 00:00	0	0	210-No	140-No	No	240-No	160-No	No



NORTH

APP. #1 = Alpine Dr.
APP. #2 = CR 57
APP. #3 = Alpine Dr.
APP. #4 = CR 57

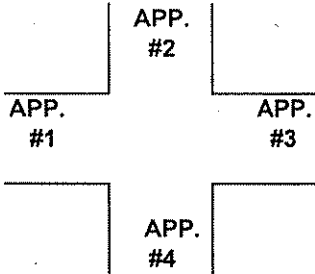
COUNT LOCATION:

CR 57 (Sunfish Lk. Blvd.) @

DATE:

02/21/2006

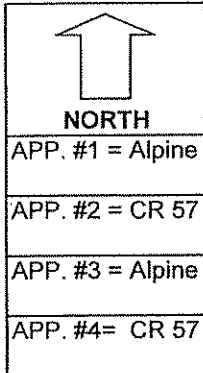
Alpine Dr.



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.

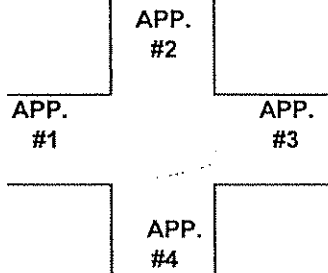
TIME	PEDESTRIANS					HEAVY VEHICLES		
	APP. #1	APP. #2	APP. #3	APP. #4	15 MIN TOT	TRUCKS	RV	BUS
6:00-6:15AM								
6:15-6:30						1		
6:30-6:45						1		
6:45-7:00						1		2
HOURLY TOTAL						HOURLY TOTAL		5
7:00-7:15						2		
7:15-7:30						4		4
7:30-7:45						1		1
7:45-8:00						2		
HOURLY TOTAL						HOURLY TOTAL		14
8:00-8:15						3		2
8:15-8:30						4		
8:30-8:45						5		2
8:45-9:00						3		4
HOURLY TOTAL						HOURLY TOTAL		23
9:00-9:15						4		7
9:15-9:30						2		
9:30-9:45						5		
9:45-10:00						4		
HOURLY TOTAL						HOURLY TOTAL		22
10:00-10:15			1		1	3		
10:15-10:30		1			1	2		
10:30-10:45						2		
10:45-11:00						5		
HOURLY TOTAL					2	HOURLY TOTAL		12
11:00-11:15						1		
11:15-11:30						1		
11:30-11:45						3		
11:45-12:00						2		
HOURLY TOTAL						HOURLY TOTAL		7
12:00-12:15						7		
12:15-12:30						2		
12:30-12:45						2		
12:45-1:00						1		
HOURLY TOTAL						HOURLY TOTAL		12
1:00-1:15						4		
1:15-1:30						1		
1:30-1:45						1		
1:45-2:00						1		
HOURLY TOTAL						HOURLY TOTAL		7
TOTAL					2	TOTAL		102

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32



COUNT LOCATION: CR 57 (Sunfish Lk. Blvd.) @
Alpine Dr.

DATE: 02/22/2006



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						4		2
2:45-3:00						2		4
HOURLY TOTAL						HOURLY TOTAL		18
3:00-3:15				1	1			3
3:15-3:30				1	1	3		4
3:30-3:45						6		
3:45-4:00			1		1	1		3
HOURLY TOTAL					3	HOURLY TOTAL		20
4:00-4:15						7		7
4:15-4:30				5	5	2		3
4:30-4:45								1
4:45-5:00						1		
HOURLY TOTAL					5	HOURLY TOTAL		21
5:00-5:15								
5:15-5:30				1	1			
5:30-5:45						1		1
5:45-6:00						1		
HOURLY TOTAL					1	HOURLY TOTAL		3
6:00-6:15								
6:15-6:30								
6:30-6:45								1
6:45-7:00								
HOURLY TOTAL						HOURLY TOTAL		1
					TOTAL	11		
							TOTAL	165

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