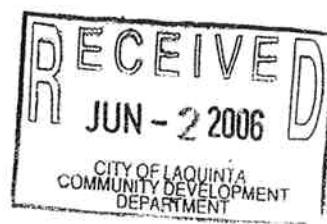


**Focused Traffic Impact Study
For The Proposed
Palizada KB Homes Development
On Monroe Street**

*Prepared for Submittal to
City of La Quinta*

June 2, 2006

Prepared by



**ALBERT
GROVER &
GASSOCIATES**

TRANSPORTATION CONSULTING ENGINEERS



June 2, 2006

Gary H. Werner, Project Manager
KB Home – Desert Division
77-933 Las Mantanas Road, Suite 101
Palm Desert, California 92211

RE: Focused Traffic Impact Study for the Proposed Palizada KB Homes Development on Monroe Street

Dear Mr. Werner:

Pursuant to your request, Albert Grover & Associates (AGA) has conducted a focused traffic study relative to the proposed build-out of 320 single-family detached homes located on the east side of Monroe Street between 60th Avenue and 61st Avenue in the City of La Quinta (see Attachment A).

The purpose of the study was to evaluate the traffic and circulation to determine what, if any, improvements/modifications will be required due to anticipated increase in traffic in the immediate vicinity of the project's main entrance on Monroe Street at Split Rock Drive (Ortega Hills Way). The intersections analyzed in this study are: (1) Monroe Street at 60th Avenue, and (2) Monroe Street at Split Rock Drive (Ortega Hills Way). Both intersections are unsignalized. Monroe Street at 60th Avenue is a four-way stop-controlled intersection, and Monroe Street at Split Rock Drive (Ortega Hills Way) only has stop-control on Split Rock Drive. The study was conducted for Existing Year 2006 traffic conditions and Opening Day Year 2008 traffic conditions both "with" and "without" the proposed project.

This study is based on the site plans provided; the Riverside County Transportation Department Traffic Impact Analysis Preparation Guide, which is utilized by the City of La Quinta to detail requirements of traffic studies; the La Quinta General Plan Circulation Element; and the Northeast Corner (NEC) Monroe Street at 60th Avenue Focused Traffic Review (for details required for the cumulative project analyses). As part of this study, the following tasks were conducted:

TRANSPORTATION CONSULTING ENGINEERS

211 E. Imperial Hwy., Suite 208, Fullerton, CA 92835

(714) 992-2990 FAX (714) 992-2883 E-Mail: aga@albertgrover.com

- ◆ Weekday turning movement counts were collected for the AM peak hour (6:45-8:45 AM) and PM peak hour (4:00-6:00 PM) at the intersection of Monroe Street at 60th Avenue. They show the weekday PM peak hour to be the highest volume time period. The turning movement counts (see Attachment B) were used in determining the Existing Year 2006 Conditions Level of Service (LOS) Analysis for Monroe Street at 60th Avenue.
- ◆ Weekday 24-hour traffic count data was collected on Monroe Street, between 60th Avenue and 61st Avenue near the project site (see Attachment C). The count data for Monroe Street shows that the southbound traffic peaks during both the AM and PM peak hours, and that the northbound direction peaks during the PM peak hour. Both directions peaking during the PM peak hour also shows that the weekday PM peak hour is the most significant peak period.

Project Description

The proposed project (Palizada KB Homes Development) consists of 320 single-family detached homes located on the east side of Monroe Street between 60th Avenue and 61st Avenue in the City of La Quinta (see Attachment A). The project site shows three access points with primary access provided at Monroe Street via Split Rock Drive (Ortega Hills Way), and secondary accesses provided on both 60th Avenue and 61st Avenue. Project trip generation was developed using the Institute of Transportation Engineers (ITE) 7th Edition trip generation rates. Trips attributable to the proposed 320 single-family detached homes are shown below in Table 1:

Table 1. Project Trip Generation

Land Use	Quantity	CODE	AM Peak Hour		PM Peak Hour	
			IN	OUT	IN	OUT
Single-Family Detached Housing	320 DU	ITE 210	60	180	204	120

Project trip distribution is based on existing traffic patterns along Monroe Street and also reflects the City-anticipated increase in usage of 60th Avenue and Madison Street to the west of Monroe Street due to new development already in-place in these areas (see Attachment D). Projected AM and PM peak hour project trips relative to the project site are shown in Attachment E.

Analysis Methodology

As stated earlier, the study evaluated three scenarios: (1) Existing Year 2006 conditions, (2) Opening Day Year 2008 Without Project Conditions, and (3) Opening Day Year 2008 With Project Conditions for the weekday AM and PM peak hours.

Existing Year 2006 Conditions

The Monroe Street/60th Avenue intersection is four-way stop-controlled with single-lane approaches for all except for the west leg (eastbound approach), which is striped for two lanes: one shared left-turn/through lane and one exclusive right-turn lane (see Attachment F). The Monroe Street/Split Rock Drive intersection is currently a T-intersection with stop-control on the minor eastbound approach (Split Rock Drive) with single-lane approaches on all three legs. Split Rock Drive is a private gated driveway into the Shea Homes Residential Community and is only accessible to residents with transponders. Existing AM and PM peak hour traffic volumes are provided in Attachment G.

Opening Day Year 2008 Conditions

The City has planned improvements to elevate the status of both Monroe Street and 60th Avenue (west of Monroe Street) to Secondary arterials (four lanes-undivided), and to widen and restripe both streets to provide two through lanes in each direction and a median with left-turn pockets. These improvements were assumed based on City input, to be in place by Opening Day Year 2008 and reflected in Opening Day Year 2008 lane geometries at both intersections (see Attachment H). To determine the future ambient traffic growth, background traffic volumes were assumed to increase 5% per year for Opening Day Year 2008 scenarios.

Cumulative Projects

The Northeast Corner (NEC) Commercial and Residential Development located at the northeast corner of Monroe Street and 60th Avenue, is the only cumulative project that was reflected in the Opening Day Year 2008 conditions both "with" and "without project" scenarios of this traffic study (see Attachment I). Cumulative project trip volumes that access Monroe Street and 60th Avenue assume full build-out of both the commercial and residential uses as the worst-case scenario.

Opening Day Year 2008 Without Project

Opening Day Year 2008 Without Project scenario assumes the future ambient traffic growth of 5% per year, the City-planned widening and striping improvements on 60th Avenue and Monroe Street, and the Northeast Corner (NEC) Commercial and Residential Development at full build-out. Projected AM and PM peak hour volumes for Opening Day Year 2008 Without Project are provided in Attachment J.

Opening Day Year 2008 With Project

Opening Day Year 2008 With Project scenario assumes the ambient growth of 5% per year, the City-planned street improvements at 60th Avenue and Monroe Street, and the Northeast Corner (NEC) Commercial and Residential Development at full build-out with the proposed project traffic added on. Projected AM and PM peak hour volumes for Opening Day Year 2008 With Project are provided in Attachment K.

Level of Service Methodology

Intersection Level of Service (LOS) analysis was conducted per procedures defined in the 2000 Highway Capacity Manual (HCM) for unsignalized intersections.

LOS Analysis

The intersections of Monroe Street at 60th Avenue and Monroe Street at Split Rock Drive (Ortega Hills Way) both operate at Level of Service B or better during the Existing (Year 2006), Opening Day (Year 2008) Without Project, and Opening Day (Year 2008) With Project scenarios, and are listed below in Table 2.

Table 2. Intersection Level of Service (LOS)

INTERSECTION	Existing Year 2006 Conditions	Opening Day Year 2008 Without Project Conditions	Opening Day Year 2008 With Project Conditions
<u>Weekday AM Peak Hour</u>			
1. Monroe Street at 60 th Avenue	A	A	A
2. Monroe Street at Split Rock Drive-Ortega Hills Way	A	A	B
<u>Weekday PM Peak Hour</u>			
1. Monroe Street at 60 th Avenue	A	B	B
2. Monroe Street at Split Rock Drive-Ortega Hills Way	A	A	B

As shown above, both intersections operate at acceptable levels of service (LOS) of A or B for all Existing 2006 and Opening Day 2008 scenarios both “with” and “without” the project. Level of Service Analysis worksheets are provided in Attachment L.

Deceleration Lane Analysis

Per City requirements, we conducted right-turn and left-turn deceleration lane analyses at the project’s three driveway access points. As shown previously in Attachment E, the project trip volumes making right-turns into the project site are relatively small

during both the AM and PM Peak hours and fall short of the City criteria of 50 vehicles per hour (vph) or more making a right-turn into the project at a particular driveway to require a right-turn deceleration lane.

The southbound left-turn volumes turning into the project site at the Monroe Street/Split Rock Drive (Ortega Hills Way) intersection exceed the City's criteria of 25 vph or more, with the highest volume being 184 vph during the PM peak hour, and would therefore require a left-turn deceleration lane. With a future speed limit of 50 mph (per the City), the required left-turn deceleration lane's length is 248 ft plus 150 ft of transition length. However, the City planned improvements along Monroe Street already provide a median with left-turn pockets, which should more than accommodate the southbound left-turn traffic on opening day.

Signal Warrant Analyses

Signal Warrant Analyses, based on the Peak Hour Volume Warrant were conducted for both the Monroe Street/60th Avenue intersection and the Monroe Street/Split Rock Drive (Ortega Hills Way) intersection to determine if traffic signals are warranted by opening day (see Attachment M). Analysis results show that neither intersection warrants a traffic signal for opening day either "with" or "without" the project.

Summary and Conclusions

- ◆ Level of Service analyses show that both intersections operate at an acceptable Level of Service (LOS) of A or B during Existing Year 2006, Opening Day 2008 Without Project, and Opening Day 2008 With Project scenarios for the AM and PM peak hours.
- ◆ Right-turn deceleration lanes are not required at any of the project's three driveway access points because the AM and PM peak hour project-related traffic volumes both fall short of the City's criteria of 50 vph or more making a right-turn into the project at a given driveway access point.
- ◆ A left-turn deceleration lane is required at the primary access on Monroe Street at Split Rock Drive (Ortega Hills Way) because AM and PM peak hour project-related traffic volumes exceed the City's criteria of 25 vph or more. However, the City's planned improvements to upgrade Monroe Street to a secondary arterial (four lanes-undivided) and to provide a median with left-turn pockets for this left-turn traffic on opening day.
- ◆ Both the Monroe Street/60th Avenue and Monroe Street/Split Rock Drive (Ortega Hills Way) intersections do not warrant a traffic signal during opening day conditions either "with" or "without" the project.

Please contact me, or Rob Kuehn if you have any questions.

Respectfully submitted,

ALBERT GROVER & ASSOCIATES

David Chen

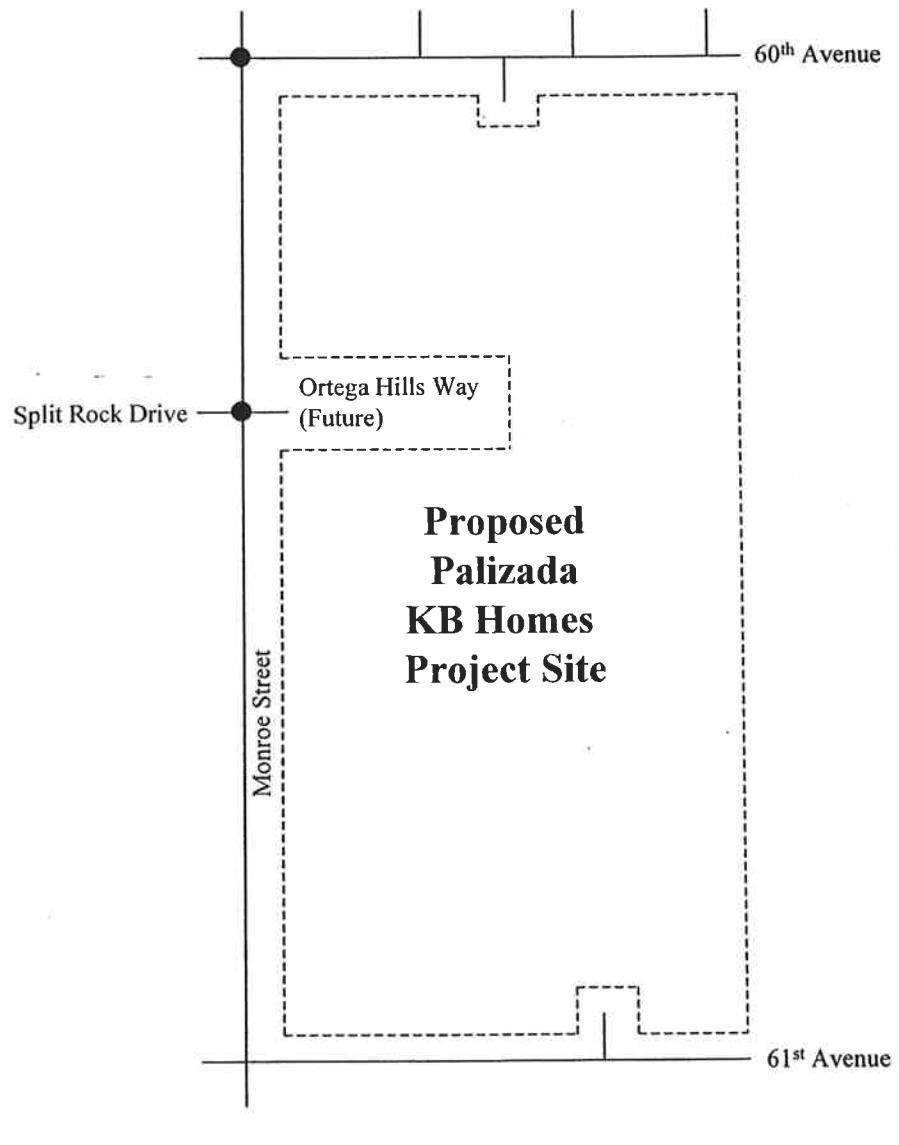
Associate Transportation Engineer

Report/PalizadaKBHomes.rpt.doc

LIST OF ATTACHMENTS

ATTACHMENTS

- A Project Site Location and Intersection Analysis Locations
- B Weekday Turning Movement Counts for Monroe Street at 60th Avenue
- C Weekday Twenty-Four Hour ADT Counts for Monroe Street
- D Palizada KB Homes Project Trip Distribution
- E Palizada KB Homes Project Trips
- F Existing Year 2006 Intersection Geometrics and Controls
- G Existing Year 2006 Traffic Volumes
- H Opening Day Year 2008 Intersection Geometrics and Controls
- I Cumulative Project Trips
- J Opening Day Year 2008 Without Project Traffic Volumes
- K Opening Day Year 2008 With Project Traffic Volumes
- L Intersection Level of Service Analysis Worksheets:
 - ◆ Existing Year 2006 Conditions
Monroe Street at 60th Avenue
Monroe Street at Split Rock Drive (Ortega Hills Way)
 - ◆ Opening Day Year 2008 Without Project Conditions
Monroe Street at 60th Avenue
Monroe Street at Split Rock Drive (Ortega Hills Way)
 - ◆ Opening Day Year 2008 With Project Conditions
Monroe Street at 60th Avenue
Monroe Street at Split Rock Drive (Ortega Hills Way)
- M Signal Warrant Analysis – Peak Hour Volume Warrant:
 - ◆ Opening Day Year 2008 Without Project Conditions
Monroe Street at 60th Avenue
Monroe Street at Split Rock Drive (Ortega Hills Way)
 - ◆ Opening Day Year 2008 With Project Conditions
Monroe Street at 60th Avenue
Monroe Street at Split Rock Drive (Ortega Hills Way)



LEGEND:

- Intersection Analysis Locations

ALBERT
GROVER &
ASSOCIATES
GA

**Project Site Location and
Intersection Analysis Locations**

**ATTACHMENT
A**

A
T
T
A
C
H
M
E
N
T

B

Weekday Turning Movement Counts
For Monroe Street at 60th Avenue

COUNTS UNLIMITED INC.
 25424 JACLYN AVENUE
 MORENO VALLEY CA. 92557
 951-247-6716

CITY OF LA QUINTA
 N/S: MONROE STREET
 E/W: 60TH AVENUE
 WEATHER: SUNNY

File Name : LQMO60AM
 Site Code : 0305271
 Start Date : 5/18/2006
 Page No : 1

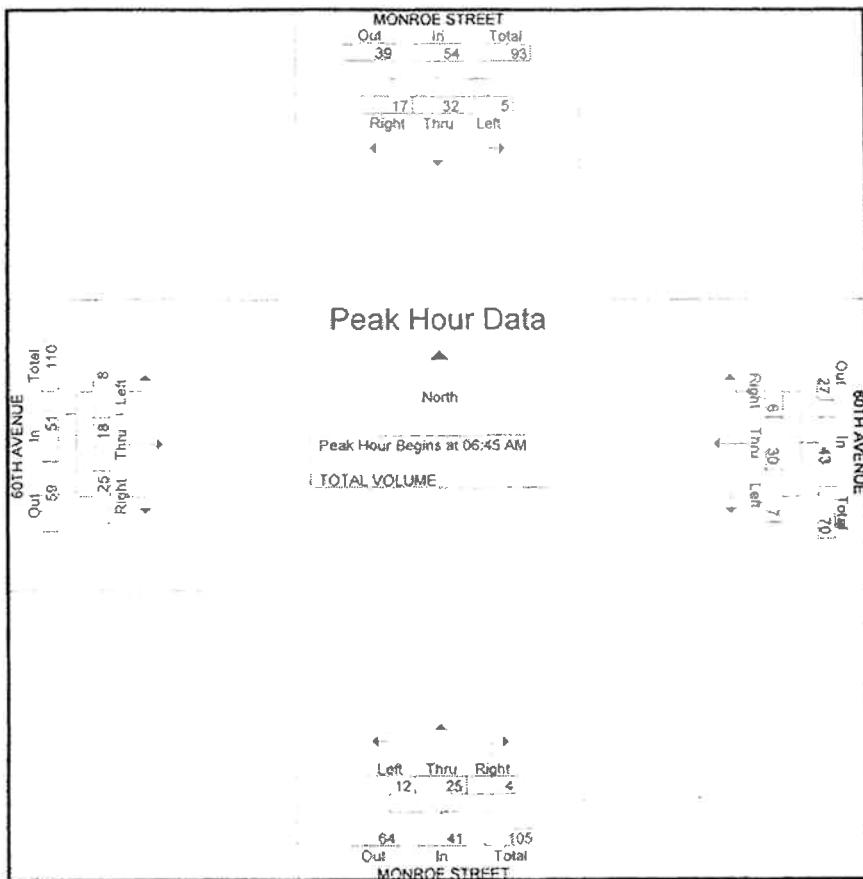
Groups Printed- TOTAL VOLUME																			
MONROE STREET					60TH AVENUE					MONROE STREET					60TH AVENUE				
Southbound					Westbound					Northbound					Eastbound				
Start Time	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Int. Total		
06:45 AM	1	16	4	21	3	9	3	15	3	7	0	10	2	6	9	17	63		
Total	1	16	4	21	3	9	3	15	3	7	0	10	2	6	9	17	63		
07:00 AM	1	5	5	11	2	6	1	9	2	7	0	9	1	1	8	10	39		
07:15 AM	2	3	5	10	1	7	1	9	3	8	0	11	3	7	6	16	46		
07:30 AM	1	8	3	12	1	8	1	10	4	3	4	11	2	4	2	8	41		
07:45 AM	0	8	3	11	0	10	0	10	5	5	1	11	1	5	6	12	44		
Total	4	24	16	44	4	31	3	38	14	23	5	42	7	17	22	46	170		
08:00 AM	1	7	2	10	0	5	3	8	2	7	1	10	0	5	5	10	38		
08:15 AM	2	3	5	10	1	8	2	11	8	4	1	13	2	6	4	12	46		
08:30 AM	2	7	2	11	1	5	1	7	6	5	1	12	0	0	5	5	35		
Grand Total	10	57	29	96	9	58	12	79	33	46	8	87	11	34	45	90	352		
Apprch %	10.4	59.4	30.2		11.4	73.4	15.2		37.9	52.9	9.2		12.2	37.8	50				
Total %	2.8	16.2	8.2	27.3	2.6	16.5	3.4	22.4	9.4	13.1	2.3	24.7	3.1	9.7	12.8	25.6			

MONROE STREET					60TH AVENUE					MONROE STREET					60TH AVENUE				
Southbound					Westbound					Northbound					Eastbound				
Start Time	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Int. Total		
Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1																			
Peak Hour for Entire Intersection Begins at 06:45 AM																			
06:45 AM	1	16	4	21	3	9	3	15	3	7	0	10	2	6	9	17	63		
07:00 AM	1	5	5	11	2	6	1	9	2	7	0	9	1	1	8	10	39		
07:15 AM	2	3	5	10	1	7	1	9	3	8	0	11	3	7	6	16	46		
07:30 AM	1	8	3	12	1	8	1	10	4	3	4	11	2	4	2	8	41		
Total Volume	5	32	17	54	7	30	6	43	12	25	4	41	8	18	25	51	189		
% App. Total	9.3	59.3	31.5		16.3	69.8	14		29.3	61	9.8		15.7	35.3	49				
PHF	.625	.500	.850	.643	.583	.833	.500	.717	.750	.781	.250	.932	.667	.643	.694	.750			

COUNTS UNLIMITED INC.
25424 JACLYN AVENUE
MORENO VALLEY CA. 92557
951-247-6716

CITY OF LA QUINTA
N/S: MONROE STREET
E/W: 60TH AVENUE
WEATHER: SUNNY

File Name : LQMO60AM
Site Code : 0305271
Start Date : 5/18/2006
Page No : 2



Peak Hour Analysis From 06:45 AM to 08:30 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	06:45 AM	06:45 AM	06:45 AM	06:45 AM
40 mins.	1	16	4	21
+15 mins.	1	5	5	11
+30 mins.	2	3	5	10
+45 mins.	1	8	3	12
Total Volume	5	32	17	54
% App. Total	9.3	59.3	31.5	16.3
PHF	.625	.500	.850	.643

	06:45 AM	06:45 AM	06:45 AM	06:45 AM
40 mins.	3	9	3	15
+15 mins.	1	1	9	2
+30 mins.	7	1	9	8
+45 mins.	8	1	10	6
Total Volume	7	30	6	43
% App. Total	69.8	14	45.7	45.7
PHF	.833	.500	.717	.656

	06:45 AM	06:45 AM	06:45 AM	06:45 AM
40 mins.	5	11	1	11
+15 mins.	1	1	10	1
+30 mins.	7	1	13	3
+45 mins.	8	1	12	2
Total Volume	6	6	4	46
% App. Total	10	14	8	18
PHF	.750	1.000	.885	.667

COUNTS UNLIMITED INC.
25424 JACLYN AVENUE
MORENO VALLEY CA. 92557
951-247-6716

CITY OF LA QUINTA
N/S: MONROE STREET
E/W: 60TH AVENUE
WEATHER: SUNNY

File Name : LQMO60PM
Site Code : 0305271
Start Date : 5/18/2006
Page No : 1

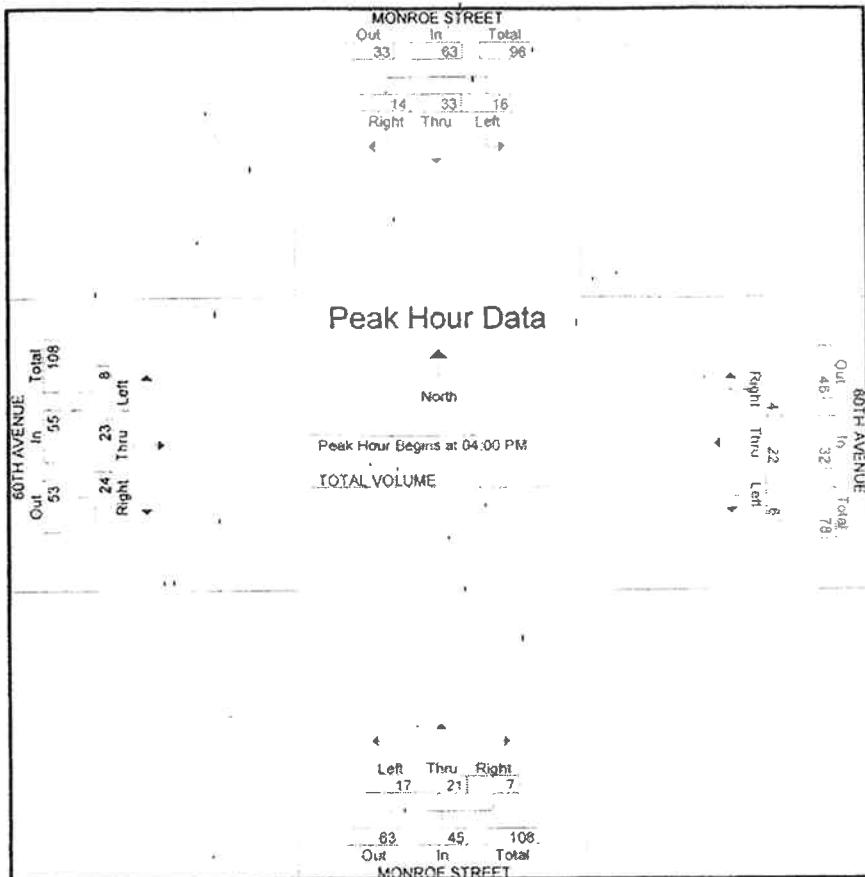
Groups Printed- TOTAL VOLUME																			
MONROE STREET					60TH AVENUE					MONROE STREET					60TH AVENUE				
Start Time	Southbound				Westbound				Northbound				Eastbound				Int. Total		
	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total			
04:00 PM	5	11	4	20	1	7	0	8	6	6	2	14	1	4	10	15	57		
04:15 PM	3	9	3	15	0	4	0	4	5	4	0	9	2	8	5	15	43		
04:30 PM	6	3	5	14	0	5	2	7	3	7	1	11	4	3	7	14	46		
04:45 PM	2	10	2	14	5	6	2	13	3	4	4	11	1	8	2	11	49		
Total	16	33	14	63	6	22	4	32	17	21	7	45	8	23	24	55	195		
05:00 PM	5	6	1	12	3	9	3	15	3	3	2	8	0	6	0	6	41		
05:15 PM	6	6	2	14	4	2	5	11	0	7	4	11	0	2	0	2	38		
05:30 PM	1	5	1	7	2	0	0	2	1	2	5	8	2	8	0	10	27		
05:45 PM	1	7	0	8	2	5	0	7	2	4	3	9	0	11	0	11	35		
Total	13	24	4	41	11	16	8	35	6	16	14	36	2	27	0	29	141		
Grand Total	29	57	18	104	17	38	12	67	23	37	21	81	10	50	24	84	+ 386		
Appn %	27.9	54.8	17.3		25.4	56.7	17.9		28.4	45.7	25.9		11.9	59.5	28.6				
Total %	8.6	17	5.4		31	5.1	11.3	3.6	19.9	6.8	11	6.2	24.1	3	14.9	7.1			

MONROE STREET Southbound					60TH AVENUE Westbound					MONROE STREET Northbound					60TH AVENUE Eastbound				
Start Time	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total	Left	Thru	Right	App Total			
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																			
Peak Hour for Future Intersection Begins at 04:00 PM																			
04:00 PM	5	11	4	20	1	7	0	8	6	6	2	14	1	4	10	15	57		
04:15 PM	3	9	3	15	0	4	0	4	5	4	0	9	2	8	5	15	43		
04:30 PM	6	3	5	14	0	5	2	7	3	7	1	11	4	3	7	14	46		
04:45 PM	2	10	2	14	5	6	2	13	3	4	4	11	1	8	2	11	49		
Total Volume	16	33	14	63	6	22	4	32	17	21	7	45	8	23	24	55	195		
% App. Total	25.4	52.4	22.2		18.8	68.8	12.5		17.8	46.7	15.6		14.5	41.8	43.6				
PHF	.667	.750	.700	.788	.300	.786	.500	.615	.708	.750	.438	.804	.500	.719	.600	.917	.855		

COUNTS UNLIMITED INC.
25424 JACLYN AVENUE
MORENO VALLEY CA. 92557
951-247-6716

CITY OF LA QUINTA
N/S: MONROE STREET
E/W: 60TH AVENUE
WEATHER: SUNNY

File Name : LQMO60PM
Site Code : 0305271
Start Date : 5/18/2006
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:00 PM				04:30 PM				04:00 PM				04:00 PM			
+0 mins.	5	11	4	20	0	5	2	7	6	6	2	14	1	4	10	15
+15 mins.	3	9	3	15	5	6	1	13	5	4	0	9	2	8	5	15
+30 mins.	6	3	5	14	3	9	3	15	3	7	1	11	4	3	7	14
+45 mins.	2	10	2	14	4	2	5	11	3	4	4	11	1	8	2	11
Total Volume	16	33	14	63	12	22	12	46	17	21	7	45	8	23	24	55
% App. Total	25.4	52.4	22.2	26.1	47.8	26.1	26.1	37.8	46.7	15.6	14.5	41.8	43.6			
PHF	.667	.750	.700	.788	.600	.611	.600	.767	.708	.750	.438	.804	.500	.719	.600	.917

A
T
T
A
C
H
M
E
N
T

C

Weekday 24-Hour ADT Counts
For Monroe Street

COUNTS UNLIMITED INC.
25424 JACLYN AVENUE
MORENO VALLEY CA. 92557
951-247-6716

CITY OF LA QUINTA
MONROE STREET
S/O 60TH AVENUE

24 HR DIRECTIONAL VOLUME COUNT

Page 1
LQMO5060
Site Code: 0305235
Date Start: 18-May-06
Date End: 18-May-06

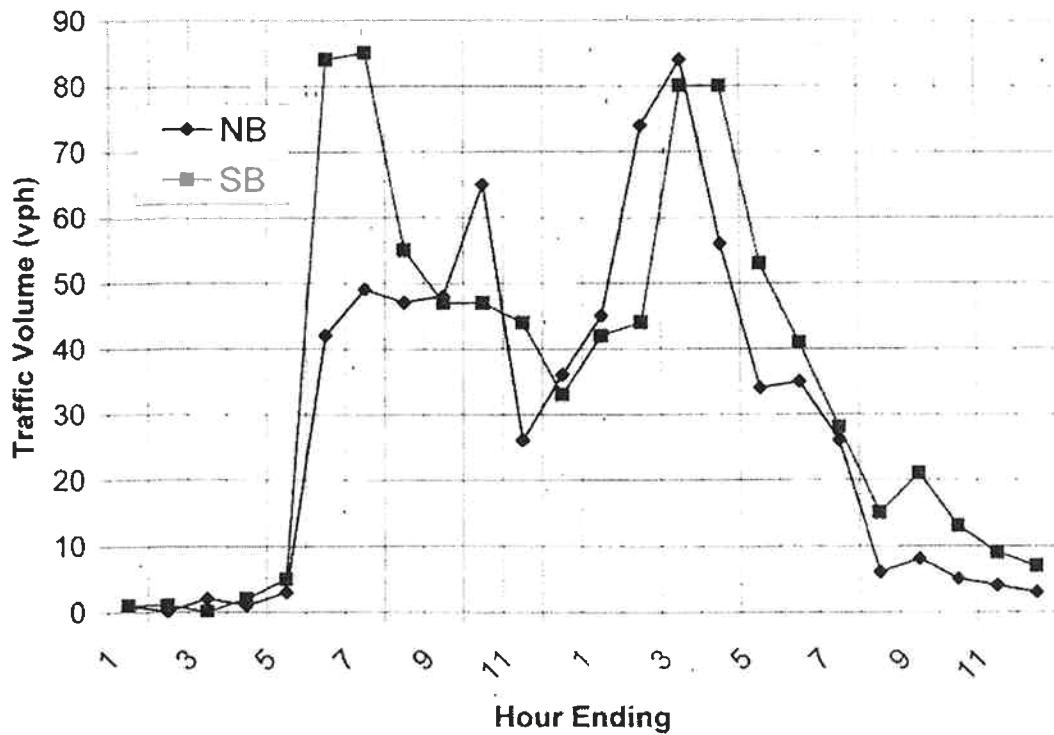
Start Time	18-May-06	NORTHBOUND		Hour Totals		SOUTHBOUND		Hour Totals		Combined Totals	
		Thu	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Morning	Afternoon
12:00			1	13			0	11			
12:15			0	12			0	10			
12:30			0	8			0	10			
12:45			0	12	1	45	1	11	1	42	2 87
01:00			0	12			1	11			
01:15			0	10			0	9			
01:30			0	19			0	8			
01:45			0	33	0	74	0	16	1	44	1 118
02:00			1	20			0	17			
02:15			1	28			0	21			
02:30			0	24			0	24			
02:45			0	12	2	84	0	18	0	80	2 164
03:00			0	11			0	28			
03:15			0	12			2	14			
03:30			1	18			0	14			
03:45			0	15	1	56	0	24	2	80	3 136
04:00			0	6			0	16			
04:15			1	14			1	9			
04:30			2	9			3	17			
04:45			0	5	3	34	1	11	5	53	8 87
05:00			10	15			6	9			
05:15			3	4			13	10			
05:30			17	8			33	9			
05:45			12	8	42	35	32	13	84	41	126 76
06:00			14	10			14	11			
06:15			13	7			27	8			
06:30			14	5			15	3			
06:45			8	4	49	26	29	6	85	28	134 54
07:00			11	3			15	4			
07:15			12	1			15	3			
07:30			12	0			11	1			
07:45			12	2	47	6	14	7	55	15	102 21
08:00			10	5			12	5			
08:15			15	1			12	10			
08:30			12	0			10	6			
08:45			11	2	48	8	12	5	47	21	95 29
09:00			13	3			12	1			
09:15			7	0			12	2			
09:30			18	2			10	6			
09:45			27	0	65	5	13	4	47	13	112 18
10:00			6	0			11	3			
10:15			7	0			8	1			
10:30			10	1			15	0			
10:45			3	3	26	4	10	5	44	9	70 13
11:00			13	1			4	1			
11:15			9	0			7	1			
11:30			5	1			11	3			
11:45			9	1	36	3	11	2	33	7	69 10
Total Combined			320	380	320	380	404	433	404	433	724 813
Total AM Peak			700		700		837		837		1537
Vol.			09:00				05:30				
P.H.F.			65				106				
0.602			0.803								
PM Peak			01:45				02:15				
Vol.			105				91				
P.H.F.			0.795				0.813				
Percentage			45.7%		54.3%		48.3%		51.7%		
ADT/AADT			ADT 1,537		AADT 1,537						

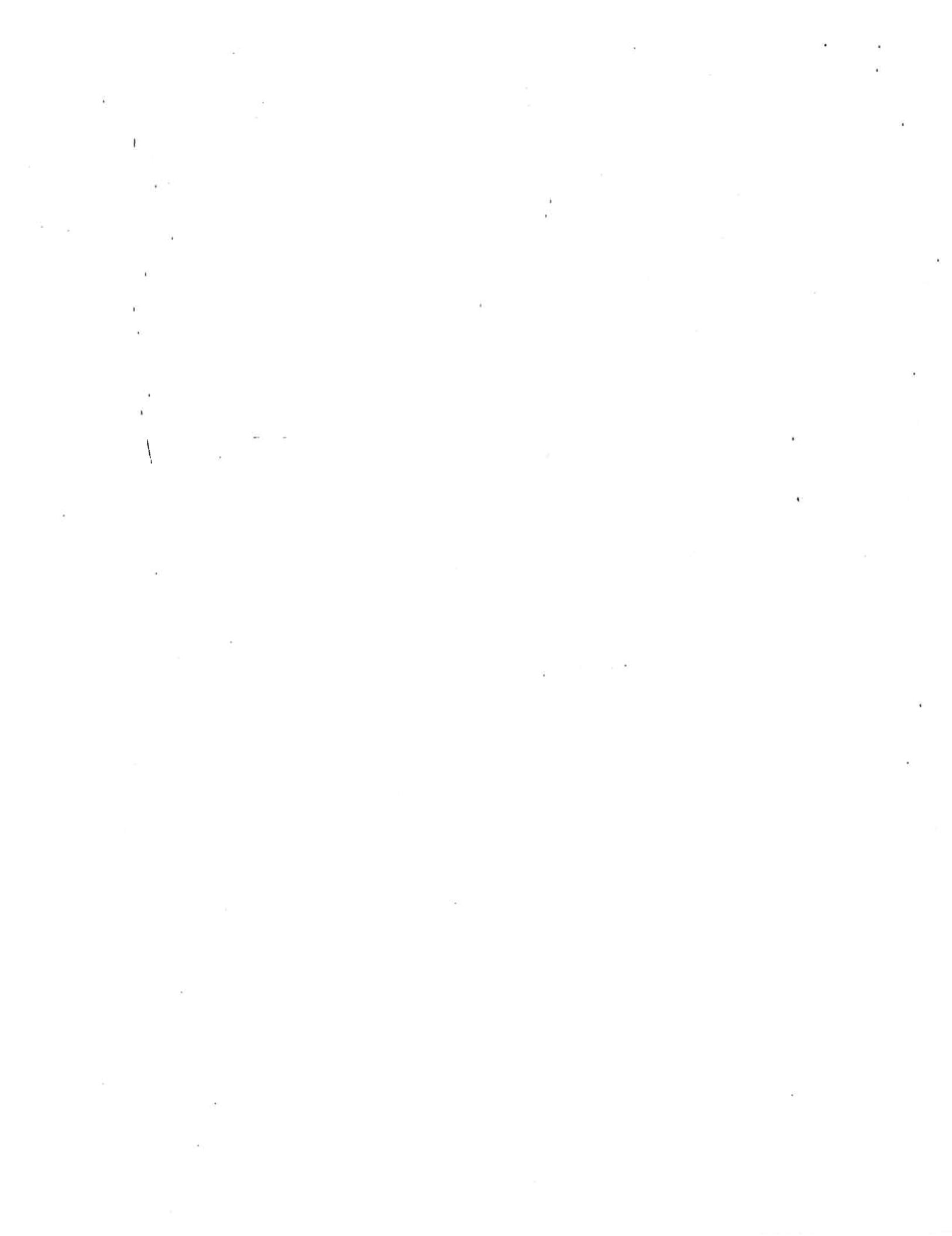
**24-Hour Traffic Count Summary
MONROE STREET (SOUTH OF 60TH AVENUE)
5/18/2006**

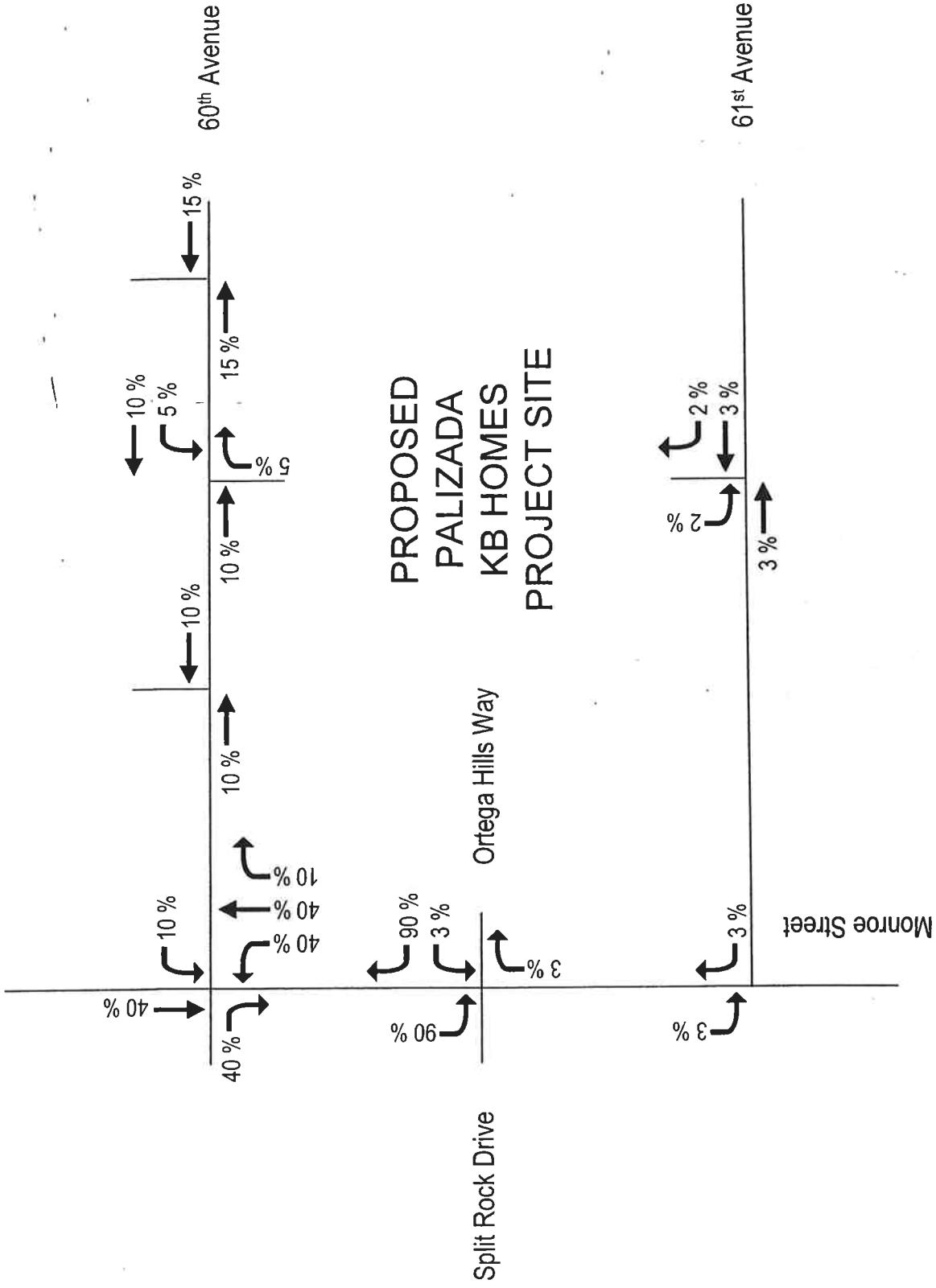
Hour Ending	Northbound (vph)											
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
AM	1	0	2	1	3	42	49	47	48	65	26	36
PM	45	74	84	56	34	35	26	6	8	5	4	3

Hour Ending	Southbound (vph)											
	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
AM	1	1	0	2	5	84	85	55	47	47	44	33
PM	42	44	80	80	53	41	28	15	21	13	9	7

Northbound Volume= 700
 Southbound Volume= 837
 TOTAL 24 Hour Volume: 1,537



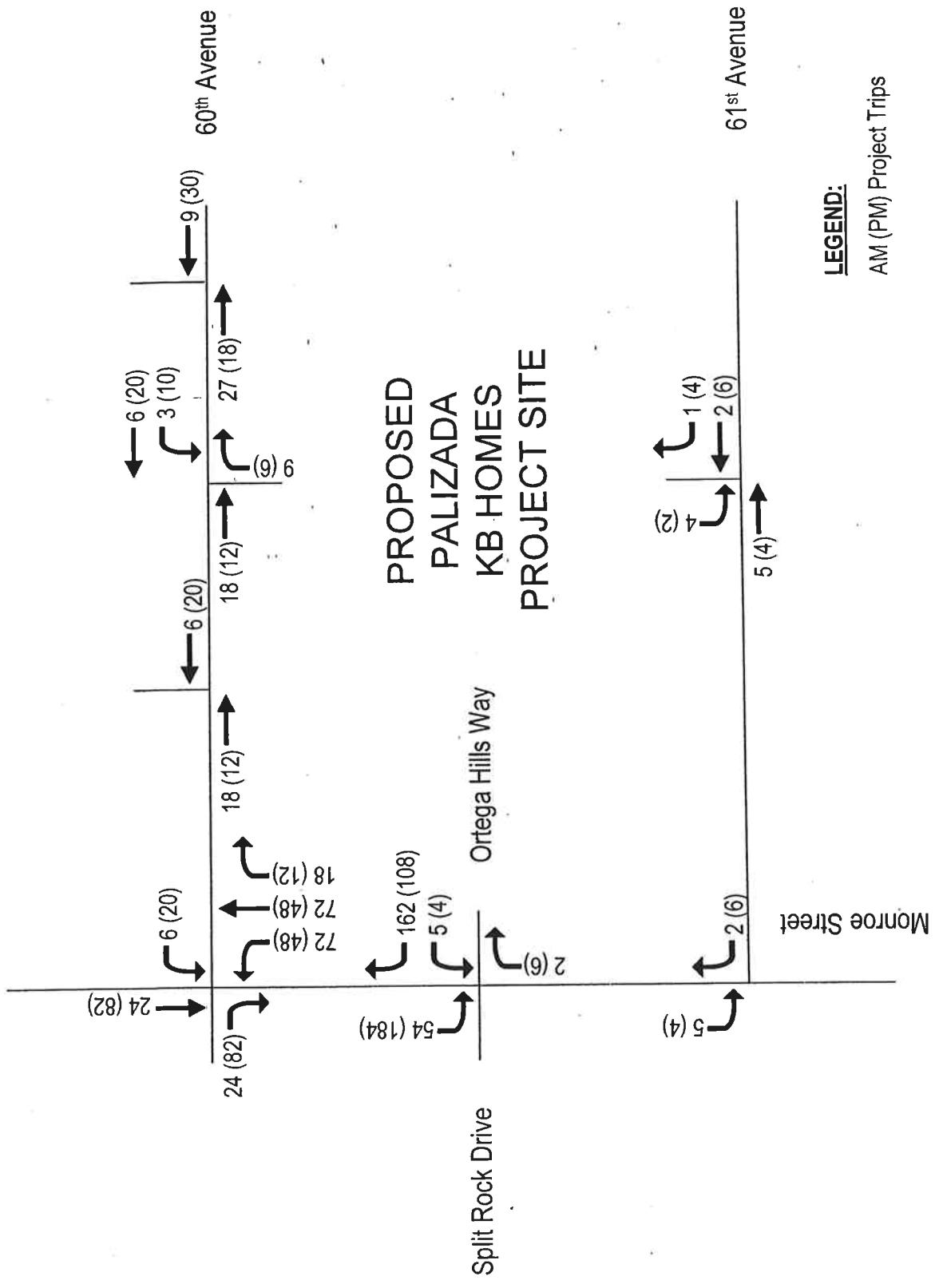




**ALBERT
GROSSER &
ASSOCIATES**

Palizada KB Homes Project Trip Distribution

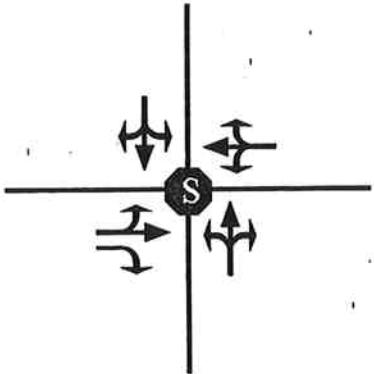
ATTACHMENT D



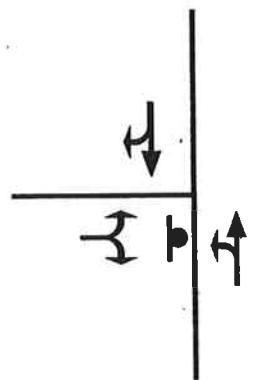
ALBERT
ROVER &
ASSOCIATES
GA

Palizada KB Homes Project Trips

ATTACHMENT E



1. Monroe St at 60th Ave

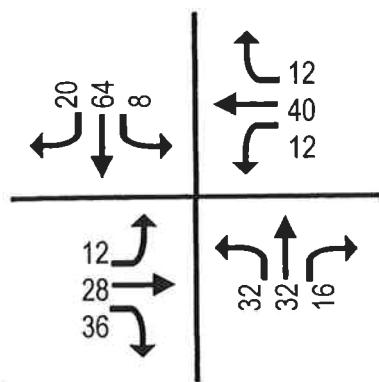


2. Monroe St at Split Rock Dr-Ortega Hills Way

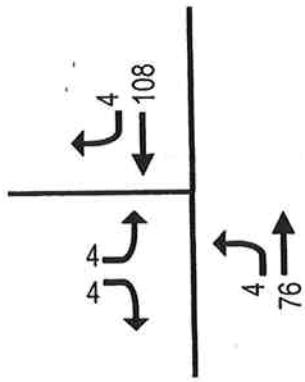
LEGEND:

- Single Direction Stop
- 4-Way Stop

AM Peak Hour Volumes

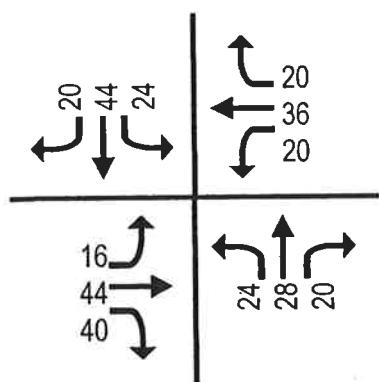


1. Monroe St at 60th Ave

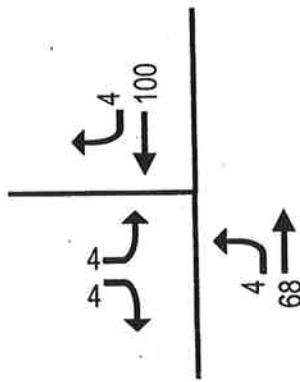


2. Monroe St at Split Rock Dr

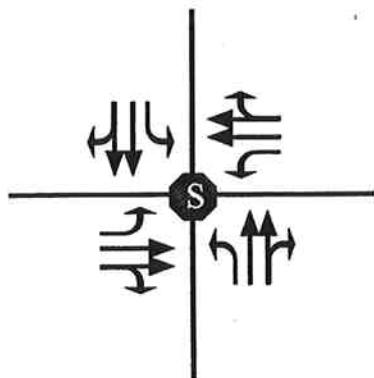
PM Peak Hour Volumes



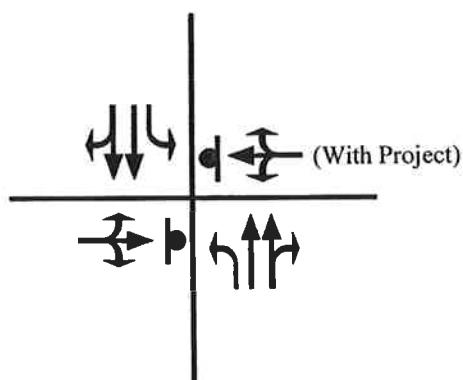
1. Monroe St at 60th Ave



2. Monroe St at Split Rock Dr



1. Monroe St at 60th Ave



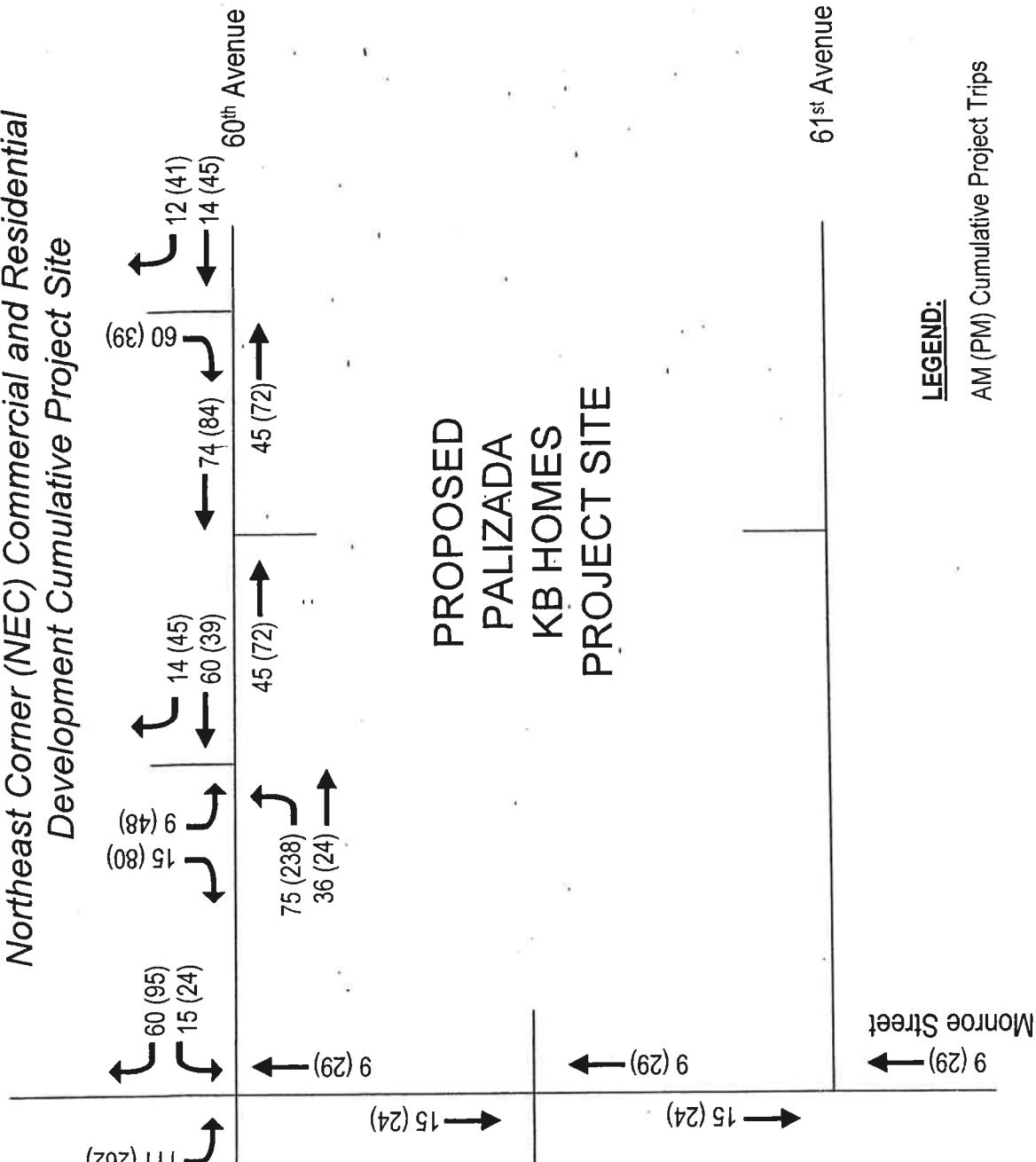
2. Monroe St at Split Rock Dr-Ortega Hills Way

LEGEND:

— Single Direction Stop

S 4-Way Stop

*Northeast Corner (NEC) Commercial and Residential
Development Cumulative Project Site*



LEGEND:

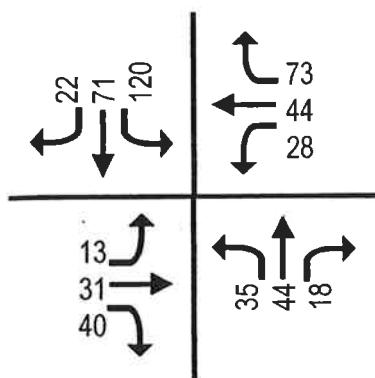
AM (PM) Cumulative Project Trips

ALBERT
ROSSER &
GA ASSOCIATES

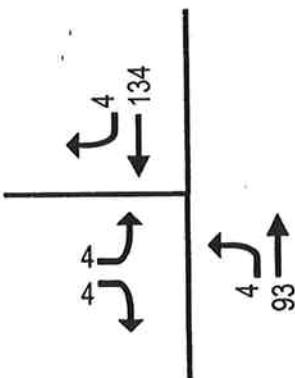
Cumulative Project Trips

ATTACHMENT I

AM Peak Hour Volumes

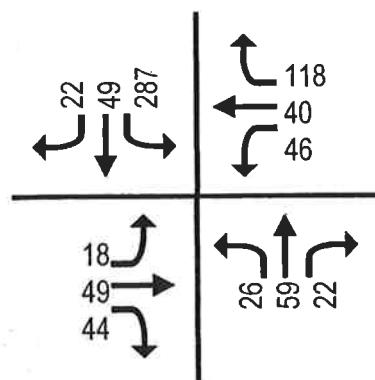


1. Monroe St at 60th Ave

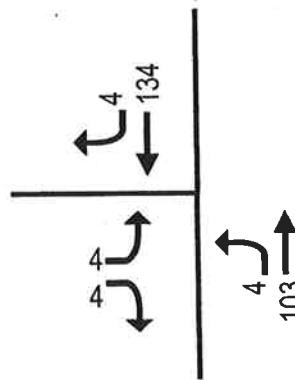


2. Monroe St at Split Rock Dr

PM Peak Hour Volumes



1. Monroe St at 60th Ave



2. Monroe St at Split Rock Dr

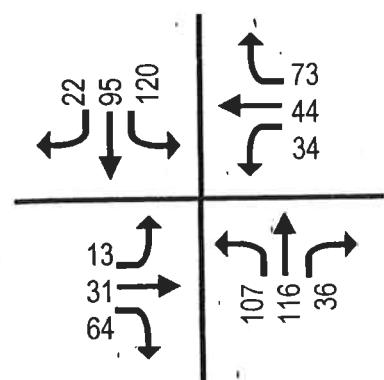


ALBERT
GROVER &
ASSOCIATES
A

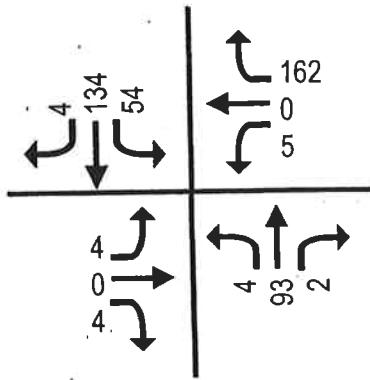
**Opening Day Year 2008
Without Project Traffic Volumes**

**ATTACHMENT
J**

AM Peak Hour Volumes

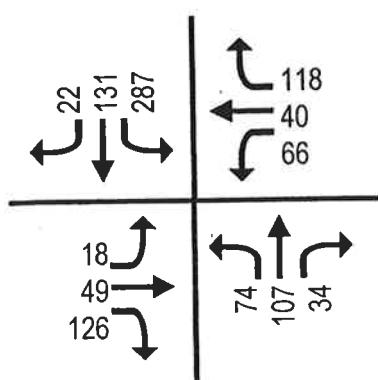


1. Monroe St at 60th Ave

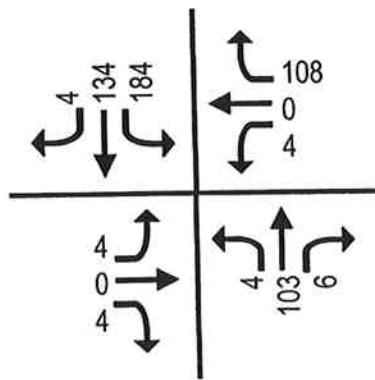


2. Monroe St at Split Rock Dr

PM Peak Hour Volumes



1. Monroe St at 60th Ave



2. Monroe St at Split Rock Dr

A
T
T
A
C
H
M
E
N
T

L

Intersection Level of Service Analysis Worksheets

- Existing Year 2006 Conditions
- Opening Day Year 2008 Without Project Conditions
- Opening Day Year 2008 With Project Conditions

Existing Conditions Year 2006

- ◆ Monroe Street at 60th Avenue
- ◆ Monroe Street at Split Rock Drive (Ortega Hills Way)

Monroe Street at 60th Avenue

Existing Conditions 2006
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #5 MONROE ST/60TH AVE

Cycle (sec): 100 Critical Vol./Cap.(X): 0.110
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 7.7
 Optimal Cycle: 0 Level Of Service: A

Street Name: MONROE ST 60TH AVE

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R

Control:	Stop Sign	Stop Sign	Stop Sign	Stop Sign
Rights:	Include	Include	Include	Include

Min. Green:	0- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
-------------	----------------------------------

Lanes:	0 0 1! 0 0 0 0 1! 0 0 0 1 0 0 1 0 0 0 1! 0 0
--------	--

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour
Base Vol: 32 32 16 8 64 20 12 28 36 12 40 12
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse: 32 32 16 8 64 20 12 28 36 12 40 12
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume: 32 32 16 8 64 20 12 28 36 12 40 12
Reduc Vol: 0 0 0 0 0 0 0 0 0 0 0 0
Reduced Vol: 32 32 16 8 64 20 12 28 36 12 40 12
PCE Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
MLF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Final Vol.: 32 32 16 8 64 20 12 28 36 12 40 12

Saturation Flow Module:
Adjustment: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Lanes: 0.40 0.40 0.20 0.09 0.69 0.22 0.30 0.70 1.00 0.19 0.62 0.19
Final Sat.: 327 327 163 72 580 181 207 482 823 149 496 149

Capacity Analysis Module:
Vol/Sat: 0.10 0.10 0.10 0.11 0.11 0.11 0.06 0.06 0.04 0.08 0.08 0.08
Crit Moves: **** **** **** ****
Delay/Veh: 7.7 7.7 7.7 7.7 7.7 7.7 8.1 8.1 7.1 7.7 7.7 7.7
Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
AdjDel/Veh: 7.7 7.7 7.7 7.7 7.7 7.7 8.1 8.1 7.1 7.7 7.7 7.7
LOS by Move: A A A A A A A A A A A A
ApproachDel: 7.7 7.7 7.6 7.7
Delay Adj: 1.00 1.00 1.00 1.00
ApprAdjDel: 7.7 7.7 7.6 7.7
LOS by Appr: A A A A A A
AllWayAvgQ: 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.1 0.1 0.1

Note: Queue reported is the number of cars per lane.

Existing Conditions 2006
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #5 MONROE ST/60TH AVE

Cycle (sec): 100 Critical Vol./Cap.(X): 0.109
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 7.8
 Optimal Cycle: 0 Level Of Service: A

Street Name:	MONROE ST	60TH AVE	
Approach:	North Bound	South Bound	East Bound
Movement:	L - T - R	L - T - R	L - T - R
Control:	Stop Sign	Stop Sign	Stop Sign
Rights:	Include	Include	Include
Min. Green:	0 0 0	0 0 0	0 0 0
Lanes:	0 0 1! 0 0	0 0 1! 0 0	0 1 0 0 1

Volume Module: >> Count Date: 18 May 2006 << PM Peak Hour												
Base Vol:	24	28	20	24	44	20	16	44	40	20	36	20
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	24	28	20	24	44	20	16	44	40	20	36	20
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	24	28	20	24	44	20	16	44	40	20	36	20
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	24	28	20	24	44	20	16	44	40	20	36	20
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	24	28	20	24	44	20	16	44	40	20	36	20

Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.33	0.39	0.28	0.27	0.50	0.23	0.27	0.73	1.00	0.26	0.48	0.26
Final Sat.:	269	314	225	221	404	184	185	509	828	210	379	210

Capacity Analysis Module:												
Vol/Sat:	0.09	0.09	0.09	0.11	0.11	0.11	0.09	0.09	0.05	0.10	0.10	0.10
Crit Moves:	****	****	****				****	****	****	****	****	****
Delay/Veh:	7.7	7.7	7.7	7.8	7.8	7.8	8.2	8.2	7.1	7.8	7.8	7.8
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	7.7	7.7	7.7	7.8	7.8	7.8	8.2	8.2	7.1	7.8	7.8	7.8
LOS by Move:	A	A	A	A	A	A	A	A	A	A	A	A
ApproachDel:		7.7			7.8			7.8			7.8	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		7.7			7.8			7.8			7.8	
LOS by Appr:		A			A			A			A	
AllWayAvgQ:	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1

Note: Queue reported is the number of cars per lane.

Monroe Street at Split Rock Drive (Ortega Hills Way)

Existing Conditions 2006
AM Peak Hour

Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #6 MONROE ST/SPLIT ROCK DR-ORTEGA HILLS WY

Average Delay (sec/veh): .05 Worst Case Level Of Service: A[9.2]

Street Name:	MONROE ST	SPLIT ROCK DR-ORTEGA HILLS WY		
Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Rights:	Include	Include	Include	Include
Lanes:	0 1 0 0 0	0 0 0 1 0	0 0 1! 0 0	0 0 0 0 0

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour Estimated

Base Vol:	4 76 0 0 108	4 4 0 4 0 0 0 0
Growth Adj:	1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:	4 76 0 0 108	4 4 0 4 0 0 0 0
User Adj:	1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:	1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:	4 76 0 0 108	4 4 0 4 0 0 0 0
Reduc Vol:	0 0 0 0 0	0 0 0 0 0 0 0 0
Final Vol.:	4 76 0 0 108	4 4 0 4 0 0 0 0

Critical Gap Module:

Critical Gp:	4.1 xxxx xxxx xxxx xxxx xxxx	6.4 xxxx 6.2 xxxx xxxx xxxx
FollowUpTim:	2.2 xxxx xxxx xxxx xxxx xxxx	3.5 xxxx 3.3 xxxx xxxx xxxx

Capacity Module:

Cnflict Vol:	112 xxxx xxxx xxxx xxxx xxxx	194 xxxx 110 xxxx xxxx xxxx
Potent Cap.:	1490 xxxx xxxx xxxx xxxx xxxx	799 xxxx 949 xxxx xxxx xxxx
Move Cap.:	1490 xxxx xxxx xxxx xxxx xxxx	798 xxxx 949 xxxx xxxx xxxx
Volume/Cap:	0.00 xxxx xxxx xxxx xxxx	0.01 xxxx 0.00 xxxx xxxx

Level Of Service Module:

2Way95thQ:	0.0 xxxx xxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxx xxxx		
Control Del:	7.4 xxxx xxxx xxxx xxxx xxxx	xxxx xxxx xxxx xxxx xxxx		
LOS by Move:	A * * * * * * * * * *	*		
Movement:	LT - LTR - RT	LT - LTR - RT	LT - LTR - RT	LT - LTR - RT
Shared Cap.:	xxxx xxxx xxxx xxxx xxxx	867 xxxx xxxx xxxx xxxx		
SharedQueue:	0.0 xxxx xxxx xxxx xxxx xxxx	0.0 xxxx xxxx xxxx xxxx		
Shrd ConDel:	7.4 xxxx xxxx xxxx xxxx xxxx	9.2 xxxx xxxx xxxx xxxx		
Shared LOS:	A * * * * * * A	* * * *		
ApproachDel:	xxxxxx	xxxxxx	9.2	xxxxxx
ApproachLOS:	*	*	A	*

Note: Queue reported is the number of cars per lane.

Existing Year 2006 PM Peak Tue May 30, 2006 15:14:17

Page 5-1

Existing Conditions 2006
PM Peak Hour

Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume'Alternative)

Intersection #6 MONROE ST/SPLIT ROCK DR-ORTEGA HILLS WY

Average Delay (sec/veh): 0.6 Worst Case Level Of Service: A[9.1]

Street Name:	MONROE ST	SPLIT ROCK DR-ORTEGA HILLS WY		
Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign
Rights:	Include	Include	Include	Include
Lanes:	0 1 0 0 0	0 0 0 1 0	0 0 1! 0 0	0 0 0 0 0

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour Estimated

Base Vol:	4 68 0 0 100 4 4 0 4 0 0 0 0
Growth Adj:	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse:	4 68 0 0 100 4 4 0 4 0 0 0 0
User Adj:	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj:	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume:	4 68 0 0 100 4 4 0 4 0 0 0 0
Reduc Vol:	0 0 0 0 0 0 0 0 0 0 0 0 0
Final Vol.:	4 68 0 0 100 4 4 0 4 0 0 0 0

Critical Gap Module:

Critical Gp:	4.1 xxxx xxxx xxxx xxxx xxxx 6.4 xxxx 6.2 xxxx xxxx xxxx
FollowUpTim:	2.2 xxxx xxxx xxxx xxxx xxxx 3.5 xxxx 3.3 xxxx xxxx xxxx

Capacity Module:

Cnflict Vol:	104 xxxx xxxx xxxx xxxx xxxx 178 xxxx 102. xxxx xxxx xxxx
Potent Cap.:	1500 xxxx xxxx xxxx xxxx xxxx 816 xxxx 959 xxxx xxxx xxxx
Move Cap.:	1500 xxxx xxxx xxxx xxxx xxxx 815 xxxx 959 xxxx xxxx xxxx
Volume/Cap:	0.00 xxxx xxxx xxxx xxxx 0.00 xxxx 0.00 xxxx xxxx xxxx

Level Of Service Module:

2Way95thQ:	0.0 xxxx
Control Del:	7.4 xxxx
LOS by Move:	A * * * * * * * * * *
Movement:	LT - LTR - RT
Shared Cap.:	xxxx xxxx xxxx xxxx xxxx xxxx 881 xxxx xxxx xxxx xxxx xxxx
SharedQueue:	0.0 xxxx xxxx xxxx xxxx xxxx xxxx 0.0 xxxx xxxx xxxx xxxx xxxx
Shrd ConDel:	7.4 xxxx xxxx xxxx xxxx xxxx xxxx 9.1 xxxx xxxx xxxx xxxx xxxx
Shared LOS:	A * * * * * A * * * *
ApproachDel:	xxxxxx xxxxxx 9.1 xxxx
ApproachLOS:	* * A *

Note: Queue reported is the number of cars per lane.

Opening Day Year 2008 Without Project

- Monroe Street at 60th Avenue
- Monroe Street at Split Rock Drive (Ortega Hills Way)

Monroe Street at 60th Avenue

Opening Day Without Project 2008
AM Peak Hour

Level Of Service Computation Report

2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #5 MONROE ST/60TH AVE

Cycle (sec): 100 Critical Vol./Cap.(X): 0.203
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 8.8
 Optimal Cycle: 0 Level Of Service: A

Street Name:	MONROE ST			60TH AVE		
Approach:	North Bound	South Bound	East Bound	West Bound		
Movement:	L - T - R	L - T - R	L - T - R	L - T - R		
Control:	Stop Sign	Stop Sign	Stop Sign	Stop Sign		
Rights:	Include	Include	Include	Include		
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0		
Lanes:	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0		

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour												
Base Vol:	32	32	16	8	64	20	12	28	36	12	40	12
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	35	35	18	9	71	22	13	31	40	13	44	13
Added Vol:	0	9	0	111	0	0	0	0	0	15	0	60
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	35	44	18	120	71	22	13	31	40	28	44	73
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	35	44	18	120	71	22	13	31	40	28	44	73
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	35	44	18	120	71	22	13	31	40	28	44	73
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	35	44	18	120	71	22	13	31	40	28	44	73

Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Lanes:	1.00	1.43	0.57	1.00	1.52	0.48	1.00	1.00	1.00	1.00	1.00	
Final Sat.:	561	888	371	591	1000	325	550	595	673	564	612	696

Capacity Analysis Module:												
Vol/Sat:	0.06	0.05	0.05	0.20	0.07	0.07	0.02	0.05	0.06	0.05	0.07	0.11
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	9.2	8.5	8.2	10.0	8.3	8.1	9.0	8.7	8.0	9.1	8.7	8.1
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	9.2	8.5	8.2	10.0	8.3	8.1	9.0	8.7	8.0	9.1	8.7	8.1
LOS by Move:	A	A	A	A	A	A	A	A	A	A	A	A
ApproachDel:	8.7		9.2				8.4				8.5	
Delay Adj:	1.00			1.00			1.00		1.00		1.00	
ApprAdjDel:	8.7		9.2				8.4				8.5	
LOS by Appr:	A		A				A		A		A	
AllWayAvgQ:	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.1

***** Note: Queue reported is the number of cars per lane.

Opening Day Without Project 2008
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume' Alternative)

Intersection #5 MONROE ST/60TH AVE

Cycle (sec): 100 Critical Vol./Cap.(X): 0.512
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 11.4
 Optimal Cycle: 0 Level Of Service: B

Street Name:	MONROE ST				60TH AVE											
Approach:	North Bound		South Bound		East Bound		West Bound									
Movement:	L	-	T	-	R	L	-	T	-	R	L	-	T	-	R	
Control:	Stop Sign		Stop Sign		Stop Sign		Stop Sign		Stop Sign		Stop Sign		Stop Sign		Stop Sign	
Rights:	Include		Include		Include		Include		Include		Include		Include		Include	
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lanes:	1	0	1	1	0	1	0	1	1	0	1	0	1	1	0	
Volume Module: >> Count Date: 18 May 2006 << PM Peak Hour																
Base Vol:	24	28	20	24	44	20	16	44	40	20	36	20				
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10				
Initial Bse:	26	31	22	26	49	22	18	49	44	22	40	22				
Added Vol:	0	28	0	261	0	0	0	0	0	24	0	96				
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0				
Initial Fut:	26	59	22	287	49	22	18	49	44	46	40	118				
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
PHF Volume:	26	59	22	287	49	22	18	49	44	46	40	118				
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0				
Reduced Vol:	26	59	22	287	49	22	18	49	44	46	40	118				
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Final Vol.:	26	59	22	287	49	22	18	49	44	46	40	118				
Saturation Flow Module:																
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
Lanes:	1.00	1.46	0.54	1.00	1.37	0.63	1.00	1.05	0.95	1.00	1.00	1.00				
Final Sat.:	497	792	308	562	846	407	486	550	551	505	543	611				
Capacity Analysis Module:																
Vol/Sat:	0.05	0.07	0.07	0.51	0.06	0.05	0.04	0.09	0.08	0.09	0.07	0.19				
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****				
Delay/Veh:	9.9	9.3	9.0	15.0	8.6	8.3	9.9	9.6	8.9	10.1	9.4	9.4				
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
AdjDel/Veh:	9.9	9.3	9.0	15.0	8.6	8.3	9.9	9.6	8.9	10.1	9.4	9.4				
LOS by Move:	A	A	A	B	A	A	A	A	A	B	A	A				
ApproachDel:	9.4			13.7			9.4			9.6						
Delay Adj:	1.00			1.00			1.00			1.00						
ApprAdjDel:	9.4			13.7			9.4			9.6						
LOS by Appr:	A			B			A			A						
AllWayAvgQ:	0.0	0.1	0.1	0.9	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2				

Note: Queue reported is the number of cars per lane.

Monroe Street at Split Rock Drive (Ortega Hills Way)

Opening Day Without Project 2008
AM Peak Hour

Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #6 MONROE ST/SPLIT ROCK DR-ORTEGA HILLS WY

Average Delay (sec/veh): 0.5 Worst Case Level Of Service: A[9.2]

Street Name: MONROE ST SPLIT ROCK DR-ORTEGA HILLS WY

Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Uncontrolled, Uncontrolled Stop Sign Stop Sign

Rights: Include Include Include Include

Lanes: 1 0 1 1 0 1 0 1 1 0 0 0 1! 0 0 0 0 1! 0 0

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour Estimated

Base Vol: 4 76 0 0 108 4 4 0 4 0 0 0 0 0 0 0 0

Growth Adj: 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10

Initial Bse: 4 84 0 0 119 4 4 0 4 0 0 0 0 0 0 0 0

Added Vol: 0 9 0 0 15 0 0 0 0 0 0 0 0 0 0 0 0

PasserByVol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Initial Fut: 4 93 0 0 134 4 4 0 4 0 0 0 0 0 0 0 0

User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

PHF Volume: 4 93 0 0 134 4 4 0 4 0 0 0 0 0 0 0 0

Reduc Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Final Vol.: 4 93 0 0 134 4 4 0 4 0 0 0 0 0 0 0 0

Critical Gap Module:

Critical Gp: 4.1 xxxx xxxx xxxx xxxx xxxx 6.8 xxxx 6.9 xxxx xxxx xxxx

FollowUpTim: 2.2 xxxx xxxx xxxx xxxx xxxx 3.5 xxxx 3.3 xxxx xxxx xxxx

Capacity Module:

Cnflct Vol: 138 xxxx xxxx xxxx xxxx xxxx 191 xxxx 69 xxxx xxxx xxxx

Potent Cap.: 1458 xxxx xxxx xxxx xxxx xxxx 785 xxxx 986 xxxx xxxx xxxx

Move Cap.: 1458 xxxx xxxx xxxx xxxx xxxx 783 xxxx 986 xxxx xxxx xxxx

Volume/Cap: 0.00 xxxx xxxx xxxx xxxx 0.01 xxxx 0.00 xxxx xxxx xxxx

Level Of Service Module:

2Way95thQ: 0.0 xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx

Control Del: 7.5 xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx

LOS by Move: A * * * * * * * * * * *

Movement: LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT

Shared Cap.: xxxx xxxx xxxx xxxx xxxx xxxx 873 xxxx 0 xxxx

SharedQueue:xxxx xxxx xxxx xxxx xxxx xxxx 0.0 xxxx xxxx xxxx xxxx

Shrd ConDel:xxxx xxxx xxxx xxxx xxxx xxxx 9.2 xxxx xxxx xxxx xxxx

Shared LOS: * * * * * * A * * * *

ApproachDel: xxxxxx xxxxxx 9.2 xxxxxx

ApproachLOS: * * A *

Note: Queue reported is the number of cars per lane.

 Opening Day Without Project 2008
 PM Peak Hour

Level Of Service Computation Report

2000 HCM Unsigned Method (Future Volume Alternative)

 Intersection #6 MONROE ST/SPLIT ROCK DR-ORTEGA HILLS WY
 *****Average Delay (sec/veh): 0.4 Worst Case Level Of Service: A[9.2]
 *****Street Name: MONROE ST SPLIT ROCK DR-ORTEGA HILLS WY
 Approach: North Bound South Bound East Bound West Bound
 Movement: L - T - R L - T - R L - T - R L - T - R
 -----|-----|-----|-----|-----|-----|-----|-----|Control: Uncontrolled Uncontrolled Stop Sign Stop Sign
 Rights: Include Include Include Include
 Lanes: 1 0 1 1 0 1 0 1 1 0 0 0 1! 0 0 0 0 1! 0 0
 -----|-----|-----|-----|-----|-----|-----|-----|

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour Estimated

Base Vol:	4	68	0	0	100	4	4	0	4	0	0	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	4	75	0	0	110	4	4	0	4	0	0	0
Added Vol:	0	28	0	0	24	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	4	103	0	0	134	4	4	0	4	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	4	103	0	0	134	4	4	0	4	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	4	103	0	0	134	4	4	0	4	0	0	0

Critical Gap Module:

Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.8	xxxx	6.9	xxxxx	xxxx	xxxxx
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	xxxx	3.3	xxxxx	xxxx	xxxxx

 -----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Capacity Module:

Cnflict Vol:	139	xxxx	xxxxx	xxxx	xxxx	xxxxx	197	xxxx	69	xxxx	xxxx	xxxxx
Potent Cap.:	1457	xxxx	xxxxx	xxxx	xxxx	xxxxx	779	xxxx	986	xxxx	xxxx	xxxxx
Move Cap.:	1457	xxxx	xxxxx	xxxx	xxxx	xxxxx	777	xxxx	986	xxxx	xxxx	xxxxx
Volume/Cap:	0.00	xxxx	xxxx	xxxx	xxxx	xxxxx	0.01	xxxx	0.00	xxxx	xxxx	xxxxx

 -----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Level Of Service Module:

2Way95thQ:	0.0	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	xxxxx
Control Del:	7.5	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxx
LOS by Move:	A	*	*	*	*	*	*	*	*	*	*	*
Movement:	LT - LTR - RT											
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	869	xxxxx	xxxx	0	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	0.0	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	9.2	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	A	*	*	*	*
ApproachDel:	xxxxxx		xxxxxx					9.2		xxxxxx		
ApproachLOS:	*		*		*			A		*		*

Note: Queue reported is the number of cars per lane.

Opening Day Year 2008 With Project

- Monroe Street at 60th Avenue
- Monroe Street at Split Rock Drive (Ortega Hills Way)

Monroe Street at 60th Avenue

Opening Day With Project 2008
AM Peak Hour

Level Of Service Computation Report

2000 HCM 4-Way Stop Method (Future Volume Alternative)

*****Intersection #5 MONROE ST/60TH AVE*****

Cycle (sec):	100	Critical Vol./Cap.(X):	0.222
Loss Time (sec):	0 (Y+R=4.0 sec)	Average Delay (sec/veh):	9.6
Optimal Cycle:	0	Level Of Service:	A

*****Street Name: MONROE ST 60TH AVE*****

Approach:	North Bound	South Bound	East Bound	West Bound
Movement:	L - T - R	L - T - R	L - T - R	L - T - R
Control:	Stop Sign	Stop Sign	Stop Sign	Stop Sign
Rights:	Include	Include	Include	Include
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0
Lanes:	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour												
Base Vol:	32	32	16	8	64	20	12	28	36	12	40	12
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	35	35	18	9	71	22	13	31	40	13	44	13
Added Vol:	72	81	18	111	24	0	0	0	24	21	0	60
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	107	116	36	120	95	22	13	31	64	34	44	73
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	107	116	36	120	95	22	13	31	64	34	44	73
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	107	116	36	120	95	22	13	31	64	34	44	73
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	107	116	36	120	95	22	13	31	64	34	44	73

Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	1.00	1.53	0.47	1.00	1.62	0.38	1.00	1.00	1.00	1.00	1.00	1.00
Final Sat.:	544	916	291	539	959	230	495	531	594	505	544	609

Capacity Analysis Module:												
Vol/Sat:	0.20	0.13	0.12	0.22	0.10	0.10	0.03	0.06	0.11	0.07	0.08	0.12
Crit Moves:	****			****			****		****			****
Delay/Veh:	10.5	9.2	8.9	10.8	9.1	8.9	9.7	9.4	8.9	9.9	9.4	8.9
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	10.5	9.2	8.9	10.8	9.1	8.9	9.7	9.4	8.9	9.9	9.4	8.9
LOS by Move:	B	A	A	B	A	A	A	A	A	A	A	A
ApproachDel:		9.7			9.9			9.1			9.3	
Delay Adj:		1.00			1.00			1.00			1.00	
ApprAdjDel:		9.7			9.9			9.1			9.3	
LOS by Appr:		A			A			A			A	
AllWayAvgQ:	0.2	0.1	0.1	0.3	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1

*****Note: Queue reported is the number of cars per lane.

Opening Day With Project 2008
PM Peak Hour

Level Of Service Computation Report

2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #5 MONROE ST/60TH AVE

Cycle (sec): 100 Critical Vol./Cap.(X): 0.572
 Loss Time (sec): 0 (Y+R=4.0 sec) Average Delay (sec/veh): 12.7
 Optimal Cycle: 0 Level Of Service: B

Street Name:	MONROE ST			60TH AVE		
Approach:	North Bound	South Bound	East Bound	West Bound		
Movement:	L - T - R	L - T - R	L - T - R	L - T - R		
Control:	Stop Sign	Stop Sign	Stop Sign	Stop Sign		
Rights:	Include	Include	Include	Include		
Min. Green:	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
Lanes:	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0	1 0 1 1 0		

Volume Module: >> Count Date: 18 May 2006 << PM Peak Hour												
Base Vol:	24	28	20	24	44	20	16	44	40	20	36	20
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	26	31	22	26	49	22	18	49	44	22	40	22
Added Vol:	48	76	12	261	82	0	0	0	82	44	0	96
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	74	107	34	287	131	22	18	49	126	66	40	118
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	74	107	34	287	131	22	18	49	126	66	40	118
Reduc Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	74	107	34	287	131	22	18	49	126	66	40	118
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Final Vol.:	74	107	34	287	131	22	18	49	126	66	40	118

Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Lanes:	1.00	1.52	0.48	1.00	1.71	0.29	1.00	1.00	1.00	1.00	1.00	
Final Sat.:	454	746	245	503	924	159	438	468	518	447	474	526

Capacity Analysis Module:												
Vol/Sat:	0.16	0.14	0.14	0.57	0.14	0.14	0.04	0.10	0.24	0.15	0.08	0.22
Crit Moves:	****	****	****	****	****	****	****	****	****	****	****	****
Delay/Veh:	11.5	10.6	10.3	18.0	10.1	9.9	10.7	10.6	11.0	11.5	10.4	10.7
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	11.5	10.6	10.3	18.0	10.1	9.9	10.7	10.6	11.0	11.5	10.4	10.7
LOS by Move:	B	B	B	C	B	A	B	B	B	B	B	B
ApproachDel:	10.9			15.3			10.9			10.9		
Delay Adj:	1.00			1.00			1.00			1.00		
ApprAdjDel:	10.9			15.3			10.9			10.9		
LOS by Appr:	B			C			B			B		
AllWayAvgQ:	0.2	0.1	0.1	1.2	0.2	0.1	0.0	0.1	0.3	0.2	0.1	0.2

Note: Queue reported is the number of cars per lane.

Monroe Street at Split Rock Drive (Ortega Hills Way)

Opening Day With Project 2008
AM Peak Hour

Level Of Service Computation Report

2000 HCM Unsigned Method (Future Volume Alternative)

Intersection #6 MONROE ST/SPLIT ROCK DR-ORTEGA HILLS WY
*****Average Delay (sec/veh): 4.5 Worst Case Level Of Service: B[10.4]

Street Name:	MONROE ST			SPLIT ROCK DR-ORTEGA HILLS WY		
Approach:	North Bound	South Bound	East Bound	West Bound		
Movement:	L - T - R	L - T - R	L - T - R	L - T - R		
Control:	Uncontrolled	Uncontrolled	Stop Sign	Stop Sign		
Rights:	Include	Include	Include	Include		
Lanes:	1 0 1 1 0	1 0 1 1 0	0 0 1! 0	0 0 1! 0		
Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour Estimated						
Base Vol:	4 76 0	0 0 108	4 4 0	4 0 0		
Growth Adj:	1.10 1.10 1.10	1.10 1.10 1.10	1.10 1.10 1.10	1.10 1.10 1.10		
Initial Bse:	4 84 0	0 0 119	4 4 0	4 0 0		
Added Vol:	0 9 2	54 15 .0	0 0 0	0 0 0	5 0 162	
PasserByVol:	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
Initial Fut:	4 93 2	54 134 4	4 4 0	4 5 0		
User Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00		
PHF Adj:	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00		
PHF Volume:	4 93 2	54 134 4	4 4 0	4 5 0		
Reduc Vol:	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
Final Vol.:	4 93 2	54 134 4	4 4 0	4 5 0		
Critical Gap Module:						
Critical Gp:	4.1 xxxx xxxx	4.1 xxxx xxxx	7.5 xxxx	6.9	7.5 xxxx	6.9
FollowUpTim:	2.2 xxxx xxxx	2.2 xxxx xxxx	3.5 xxxx	3.3	3.5 xxxx	3.3
Capacity Module:						
Cnflict Vol:	138 xxxx xxxx	95 xxxx xxxx	299 xxxx	69	278 xxxx	47
Potent Cap.:	1458 xxxx xxxx	1512 xxxx xxxx	635 xxxx	986	658 xxxx	1018
Move Cap.:	1458 xxxx xxxx	1512 xxxx xxxx	518 xxxx	986	636 xxxx	1018
Volume/Cap:	0.00 xxxx xxxx	0.04 xxxx xxxx	0.01 xxxx	0.00	0.01 xxxx	0.16
Level Of Service Module:						
2Way95thQ:	0.0 xxxx xxxx	0.1 xxxx xxxx	xxxx xxxx xxxx xxxx	xxxx xxxx xxxx		
Control Del:	7.5 xxxx xxxx	7.5 xxxx xxxx	xxxx xxxx xxxx xxxx	xxxx xxxx xxxx		
LOS by Move:	A * *	A * *	* * * *	*	*	*
Movement:	LT - LTR - RT	LT - LTR - RT	LT - LTR - RT	LT - LTR - RT		
Shared Cap.:	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx 680 xxxx	xxxx 1000 xxxx		
SharedQueue:	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx 0.0 xxxx	xxxx 0.6 xxxx		
Shrd ConDel:	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx 10.4 xxxx	xxxx 9.3 xxxx		
Shared LOS:	* * * *	* * * *	B * * *	A *		
ApproachDel:	xxxxxx	xxxxxx	10.4	9.3		
ApproachLOS:	*	*	B	A		

Note: Queue reported is the number of cars per lane.

 Opening Day With Project 2008
 PM Peak Hour

Level Of Service Computation Report

2000 HCM Unsignalized Method (Future Volume Alternative)

 Intersection #6 MONROE ST/SPLIT ROCK DR-ORTEGA HILLS WY
 *****Average Delay (sec/veh): 4.7 Worst Case Level Of Service: B[12.4]
 *****Street Name: MONROE ST SPLIT ROCK DR-ORTEGA HILLS WY
 Approach: North Bound South Bound East Bound West Bound
 Movement: L - T - R L - T - R L - T - R L - T - R
 -----|-----|-----|-----|Control: Uncontrolled Uncontrolled Stop Sign Stop Sign
 Rights: Include Include Include Include
 Lanes: 1 0 1 1 0 1 0 1 1 0 0 0 1! 0 0 0 0 0 1! 0 0
 -----|-----|-----|-----|

Volume Module: >> Count Date: 18 May 2006 << AM Peak Hour Estimated

Base Vol:	4	68	0	0	100	4	4	0	4	0	0	0
Growth Adj:	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Initial Bse:	4	75	0	0	110	4	4	0	4	0	0	0
Added Vol:	0	28	6	184	24	0	0	0	0	4	0	108
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	4	103	6	184	134	4	4	0	4	4	0	108
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	4	103	6	184	134	4	4	0	4	4	0	108
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Final Vol.:	4	103	6	184	134	4	4	0	4	4	0	108

Critical Gap Module:

Critical Gp:	4.1 xxxx xxxx	4.1 xxxx xxxx	7.5 xxxx	6.9	7.5 xxxx	6.9
FollowUpTim:	2.2 xxxx xxxx	2.2 xxxx xxxx	3.5 xxxx	3.3	3.5 xxxx	3.3

 -----|-----|-----|-----|-----|

Capacity Module:

Cnflict Vol:	139 xxxx xxxx	109 xxxx xxxx	565 xxxx	69	550 xxxx	54
Potent Cap.:	1457 xxxx xxxx	1494 xxxx xxxx	412 xxxx	986	422 xxxx	1007
Move Cap.:	1457 xxxx xxxx	1494 xxxx xxxx	332 xxxx	986	380 xxxx	1007
Volume/Cap:	0.00 xxxx xxxx	0.12 xxxx xxxx	0.01 xxxx	0.00	0.01 xxxx	0.11

 -----|-----|-----|-----|-----|

Level Of Service Module:

2Way95thQ:	0.0 xxxx xxxx	0.4 xxxx xxxx	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx xxxx xxxx
Control Del:	7.5 xxxx xxxx	7.7 xxxx xxxx	xxxx xxxx	xxxx xxxx	xxxx xxxx	xxxx xxxx
LOS by Move:	A *	*	A *	*	*	*
Movement:	LT - LTR - RT					
Shared Cap.:	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx	497 xxxx	xxxx	951 xxxx
SharedQueue:	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx xxxx	0.1 xxxx	xxxx	0.4 xxxx
Shrd ConDel:	xxxx xxxx xxxx	xxxx xxxx xxxx	xxxx xxxx	12.4 xxxx	xxxx	9.3 xxxx
Shared LOS:	*	*	*	*	*	*
ApproachDel:	xxxxxx	xxxxxx		12.4		9.3
ApproachLOS:	*	*		B		A

Note: Queue reported is the number of cars per lane.

A
T
A
C
H
M
E
N
T

M

Signal Warrant Analysis – Peak Hour Volume Warrant

- ◆ Opening Day Year 2008 Without Project Conditions
- ◆ Opening Day Year 2008 With Project Conditions

Opening Day Year 2008 Without Project

- Monroe Street at 60th Avenue
- Monroe Street at Split Rock Drive (Ortega Hills Way)

Monroe Street at 60th Avenue

Albert Grover and Associates

Opening Day 2008 Without Project

Monroe Street at 60th Avenue

Study Name : ODWOP2008-Monroe St at 60th Ave

Study Date : 06/01/06

Page No. : 1

Signal Warrants - Summary

Major Street Approaches

Northbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 204

Southbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 571

Minor Street Approaches

Eastbound: 60th Avenue

Number of Lanes: 2

Total Approach Volume: 195

Westbound: 60th Avenue

Number of Lanes: 2

Total Approach Volume: 349

Warrant Summary (Rural values apply.)

Warrant 1 - Eight Hour Vehicular Volumes Not Evaluated

Warrant 1A - Minimum Vehicular Volume Not Evaluated

Warrant 1B - Interruption of Continuous Traffic Not Evaluated

Warrant 1 A&B - Combination of Warrants Not Evaluated

Warrant 2 - Four Hour Volumes Not Evaluated

Warrant 3 - Peak Hour Not Satisfied

Warrant 3A - Peak Hour Delay Not Satisfied

Total approach volumes and delays on minor street do not exceed minimums for any hour.

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

Albert Grover and Associates

Opening Day 2008 Without Project

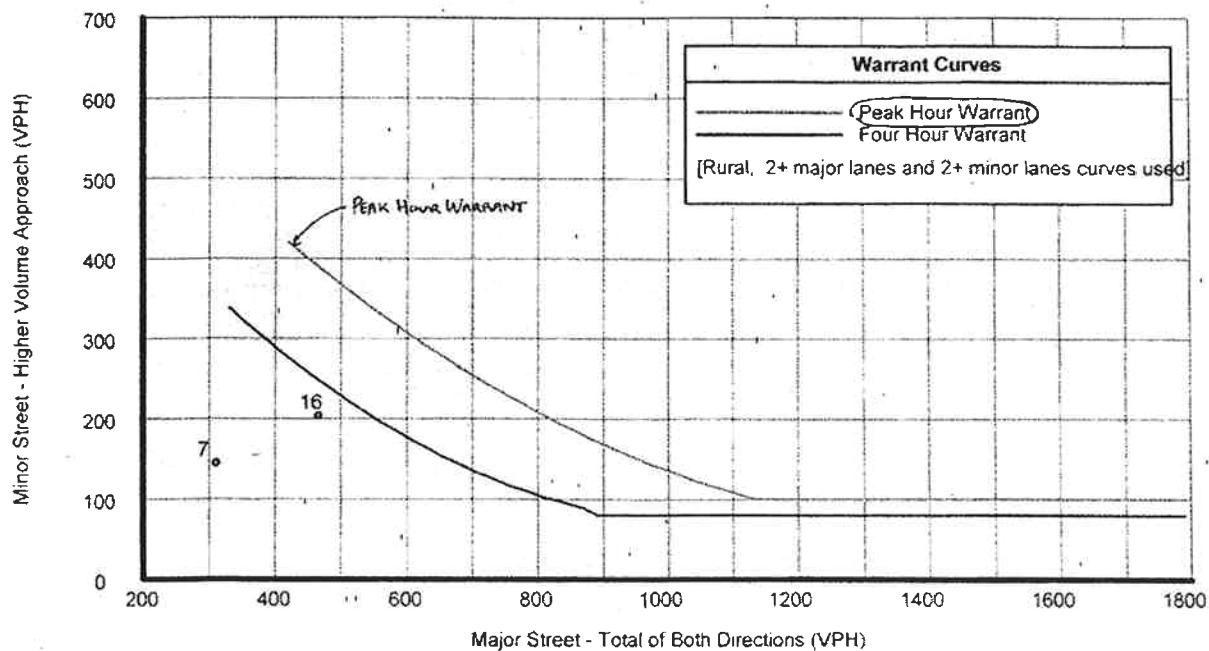
Monroe Street at 60th Avenue

Study Name : ODWOP2008-Monroe St at 60th Ave

Study Date : 06/01/06

Page No. : 2

Signal Warrants - Summary



Hour Begin	Major Total	Higher Minor Vol	Dir	War-1A			War-1B			War-1A&B		
				Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
01:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
02:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
03:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
04:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
05:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
06:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
07:00	310	145	WB	420-No	140-Yes	Minor	630-No	70-Yes	Minor	504-No	112-Yes	Minor
08:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
09:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
10:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
11:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
12:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
13:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
14:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
15:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
16:00	465	204	WB	420-Yes	140-Yes	Both	630-No	70-Yes	Minor	504-No	112-Yes	Minor
17:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
18:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
19:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
20:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
21:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
22:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
23:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—

Monroe Street at Split Rock Drive (Ortega Hills Way)

Albert Grover and Associates

Opening Day 2008 Without Project

Monroe Street at Split Rock Drive (Ortega Hills Way)

Study Name : ODWOP2008-Monroe St at Split Rock Dr

Study Date : 05/30/06

Page No. : 1

Signal Warrants - Summary

Major Street Approaches

Northbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 204

Southbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 276

Minor Street Approaches

Eastbound: Split Rock Drive

Number of Lanes: 1

Total Approach Volume: 16

Westbound:

Number of Lanes: 1

Total Approach Volume: 0

Warrant Summary (Rural values apply.)

Warrant 1 - Eight Hour Vehicular Volumes Not Evaluated

Warrant 1A - Minimum Vehicular Volume Not Evaluated

Warrant 1B - Interruption of Continuous Traffic Not Evaluated

Warrant 1 A&B - Combination of Warrants Not Evaluated

Warrant 2 - Four Hour Volumes Not Evaluated

Warrant 3 - Peak Hour Not Satisfied

Warrant 3A - Peak Hour Delay Not Satisfied

Total approach volumes and delays on minor street do not exceed minimums for any hour.

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

Albert Grover and Associates

Opening Day 2008 Without Project

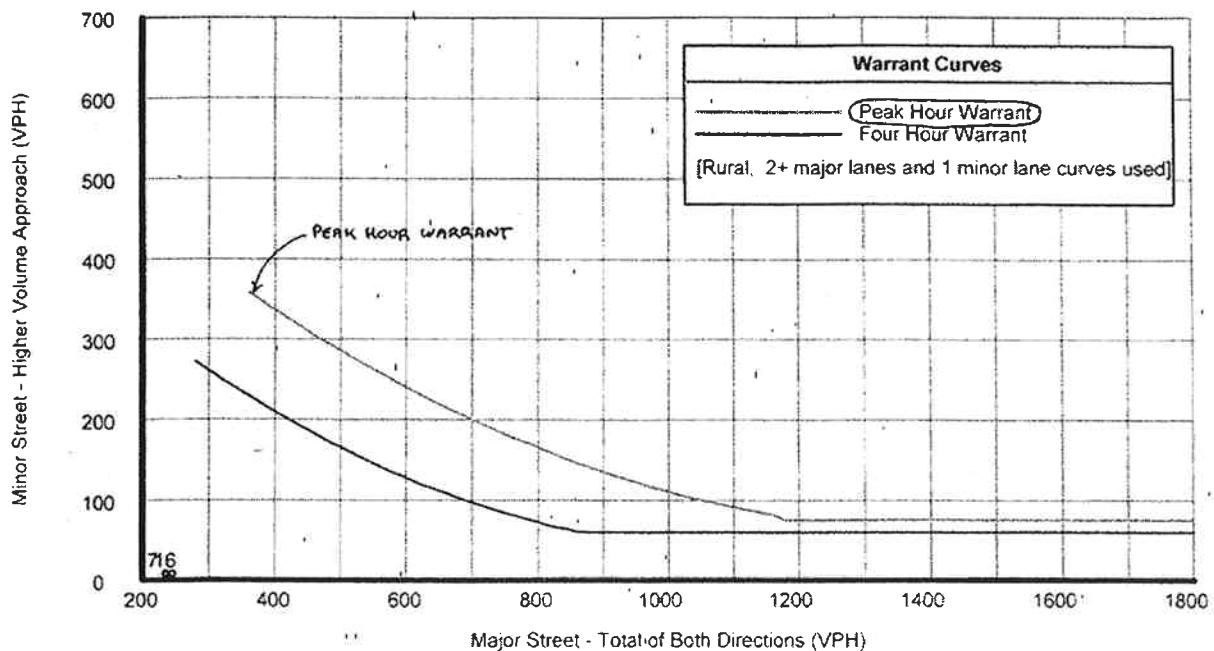
Monroe Street at Split Rock Drive (Ortega Hills Way)

Study Name : ODWOP2008-Monroe St at Split Rock Dr

Study Date : 05/30/06

Page No. : 2

Signal Warrants - Summary



Hour Begin	Major Total	Higher Minor Vol	Dir	War-1A			War-1B			War-1A&B		
				Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
01:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
02:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
03:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
04:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
05:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
06:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
07:00	235	8	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
08:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
09:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
10:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
11:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
12:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
13:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
14:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
15:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
16:00	245	8	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
17:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
18:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
19:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
20:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
21:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
22:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
23:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—

Opening Day Year 2008 With Project

- ◆ Monroe Street at 60th Avenue
- ◆ Monroe Street at Split Rock Drive (Ortega Hills Way)

Monroe Street at 60th Avenue

Albert Grover and Associates

Opening Day 2008 With Project

Monroe Street at 60th Avenue

Study Name : ODWP2008-Monroe St at 60th Ave

Study Date : 05/30/06

Page No : 1

Signal Warrants - Summary

Major Street Approaches

Northbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 474

Southbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 677

Minor Street Approaches

Eastbound: 60th Avenue

Number of Lanes: 2

Total Approach Volume: 301

Westbound: 60th Avenue

Number of Lanes: 2

Total Approach Volume: 375

Warrant Summary (Rural values apply.)

Warrant 1 - Eight Hour Vehicular Volumes	Not Evaluated
Warrant 1A - Minimum Vehicular Volume	Not Evaluated
Warrant 1B - Interruption of Continuous Traffic	Not Evaluated
Warrant 1 A&B - Combination of Warrants	Not Evaluated
Warrant 2 - Four Hour Volumes	Not Evaluated
Warrant 3 - Peak Hour	Not Satisfied
Warrant 3A - Peak Hour Delay	Not Satisfied
Total approach volumes and delays on minor street do not exceed minimums for any hour.	
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

Albert Grover and Associates

Opening Day 2008 With Project

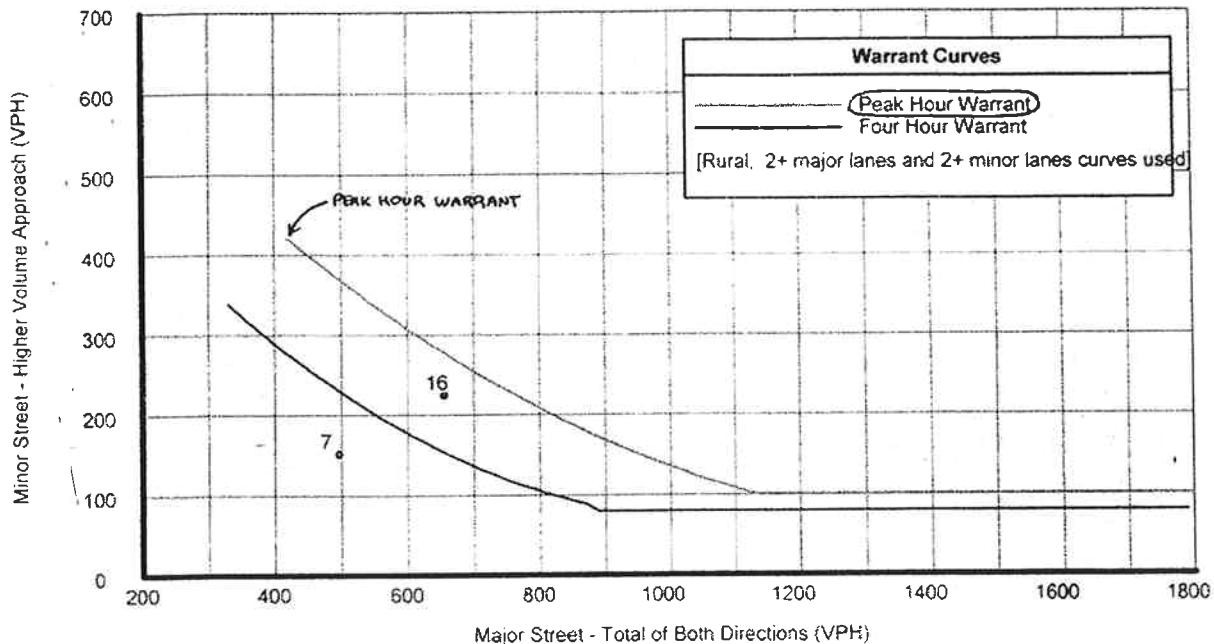
Monroe Street at 60th Avenue

Study Name : ODWP2008-Monroe St at 60th Ave

Study Date : 05/30/06

Page No. : 2

Signal Warrants - Summary



Hour Begin	Major Total	Higher Minor Vol	Dir	War-1A			War-1B			War-1A&B		
				Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
01:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
02:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
03:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
04:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
05:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
06:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
07:00	496	151	WB	420-Yes	140-Yes	Both	630-No	70-Yes	Minor	504-No	112-Yes	Minor
08:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
09:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
10:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
11:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
12:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
13:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
14:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
15:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
16:00	655	224	WB	420-Yes	140-Yes	Both	630-Yes	70-Yes	Both	504-Yes	112-Yes	Both
17:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
18:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
19:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
20:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
21:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
22:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—
23:00	0	0	EB	420-No	140-No	—	630-No	70-No	—	504-No	112-No	—

Monroe Street at Split Rock Drive (Ortega Hills Way)

Albert Grover and Associates

Opening Day 2008 With Project

Monroe Street at Split Rock Drive (Ortega Hills Way)

Study Name : ODWP2008-Monroe St at Split Rock Dr-Ortega Hills

Wy

Signal Warrants - Summary

Study Date : 05/30/06
Page No. : 1

Major Street Approaches

Northbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 212

Southbound: Monroe Street

Number of Lanes: 2

Approach Speed: 50

Total Approach Volume: 514

Minor Street Approaches

Eastbound: Split Rock Drive

Number of Lanes: 1

Total Approach Volume: 16

Westbound: Ortega Hills Way

Number of Lanes: 1

Total Approach Volume: 279

Warrant Summary (Rural values apply.)

Warrant 1 - Eight Hour Vehicular Volumes	Not Evaluated
Warrant 1A - Minimum Vehicular Volume	Not Evaluated
Warrant 1B - Interruption of Continuous Traffic	Not Evaluated
Warrant 1 A&B - Combination of Warrants	Not Evaluated
Warrant 2 - Four Hour Volumes	Not Evaluated
Warrant 3 - Peak Hour	Not Satisfied
Warrant 3A - Peak Hour Delay	Not Satisfied
Total approach volumes and delays on minor street do not exceed minimums for any hour.	
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

Albert Grover and Associates

Opening Day 2008 With Project

Monroe Street at Split Rock Drive (Ortega Hills Way)

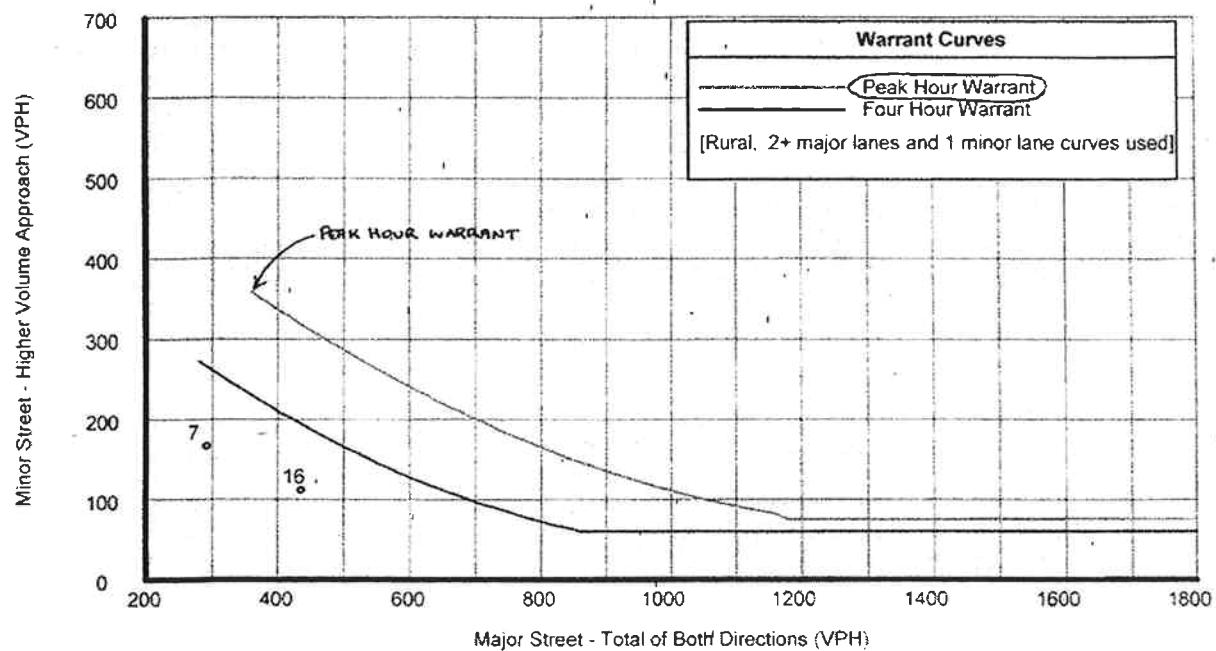
Study Name : ODWP2008-Monroe St at Split Rock Dr-Ortega Hills

Wy

Signal Warrants - Summary

Study Date : 05/30/08

Page No. : 2



Hour Begin	Major Total	Higher Minor Vol	Dir	War-1A			War-1B			War-1A&B		
				Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	EB	420-No	105-No	—	630-No	52-No	---	504-No	84-No	—
01:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	—
02:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	—
03:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	—
04:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	—
05:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	—
06:00	0	0	EB	420-No	105-No	---	630-No	52-No	---	504-No	84-No	—
07:00	291	167	WB	420-No	105-Yes	Minor	630-No	52-Yes	Minor	504-No	84-Yes	Minor
08:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
09:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
10:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
11:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
12:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
13:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
14:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
15:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
16:00	435	112	WB	420-Yes	105-Yes	Both	630-No	52-Yes	Minor	504-No	84-Yes	Minor
17:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
18:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
19:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
20:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
21:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
22:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—
23:00	0	0	EB	420-No	105-No	—	630-No	52-No	—	504-No	84-No	—

