

Prepared By: David Plummer & Associates

Prepared For: Venera

Prepared In: February 2018

> DPA Job #: 16216

Memo

To:	Yamilet A. Senespleda, P.E., City Engineer, City of Coral Gables						
From:	Jack S. Schnettler, P.E.	Email:	Jack.schnettler@atkinsglobal.com				
Phone:	305-514-3369	Date:	October 4, 2017				
Ref:	Venera Traffic Study – Revised Report	cc:	Chris Russo, PE				
Subject:	Review of Venera Traffic Study -	Revised	I Report				

On behalf of the City of Coral Gables, ATKINS conducted a review of the Venera Traffic Study. Subsequently a revised report was submitted, to include a statement in the front of the revised document as to how the review comments had been addressed. This memorandum covers the further review of the revised document to confirm resolution of the comments.

This further review involved checking the revised document to confirm the report changes in response to the original review comments. The following summarizes the results of that review:

- 1. It is found that the revised traffic study report has addressed all comments sufficiently, and that where appropriate, the report has been revised as indicated.
- 2. It was originally suggested by the reviewer that with regard to parking, that a queuing analysis might be required depending how parking might be controlled by a gate or payment system. Only residential parking will be gated, and there is no significant transaction involved with this situation that would create a significant processing dwell time and queue creation, such as for valet service or parking fee payment. Therefore, it is not considered that a queue analysis is needed.
- 3. In response to a staff review comment regarding an inconsistency in the intersection turning movements across Exhibits 3, 6, 10, and 12 where it appeared that some directional movements through intersections were lower in some cases for the "future with project" condition as compared to the "future without project" condition, a check was made of this concern. The noted exhibits as well as the tables (volume development tables) in Appendix C provided as part of the response to review comment #1 were reviewed. It was determined that all the exhibit traffic volumes were correct as presented. The fact that certain movements were lower for the "future with project" condition as compared to the "future without project" condition was due to the fact that the "future without project" volumes in Exhibit 6 included the trips associated with the development currently on the project site. Exhibit 12 then presented "future with project" traffic volumes by subtracting out the existing development trips and adding in the new project trips. This was confirmed by reviewing the exhibits and cross-checking with the added tables in Appendix C. So the intersection approach volumes were found to be accurate for the different analysis conditions.

Please advise if there are any questions.

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Comments Responses to the Atkins Comments on Behalf of City of Coral Gables (December 19, 2016)

Re: Review of Venera Traffic Impact Analysis Dated November 2016

1. Future without Project Intersection Capacity Analysis: Exhibit 6 provides the Total Volumes with committed development trips and background traffic. These volumes are difficult to reconcile with the committed development trips. It would be useful to show the committed development trips in Exhibit 6, or a separate diagram, in order to better understand how the committed trips were distributed through the project influence area.

Response: The volume development table has been included in Appendix C.

2. Intersection Capacity Analysis Exhibits (Exhibit 4, 7 and 13): Suggest providing the delay values for any approaches that do not fall within City's LOS Standard to show magnitude of compliance.

Response: Exhibit 4, Exhibit 7 and Exhibit 13 have been updated to show the delay in seconds.

3. Exhibit 8: Project Trip Generation: It appears a custom rate was used for the Land Use 826 AM peaks. It appears for most of the Trip Generation calculations ITE formulas were used in lieu of linear projections. However, for Land Use Code 826 there is no formula ITE formula available. A linear projection would result a total of 205 AM trips. Exhibit 8 shows a total of 27 AM peak hour trips. Please provide justification of the difference.

Response: Since ITE does not provide the rate nor the equation for LU 826 during the peak hour of the adjacent street, a ratio between the AM trips and PM trips for shopping center (LU 820) was used to calculate the AM trips for specialty retail land use. Furthermore the rate referenced in the comment above (6.84 trips / 1000 sq ft) which is provided by ITE for LU 826 for the AM peak hour of generator greatly over estimates trips during the morning peak period studied in the traffic analyses (7 - 9am).

4. Parking:

a. How will parking for the retail uses be accommodated? Will they have access to the parking garage? Will there be signage to guide visitors to that parking?

Response: Customers and visitors to the Ground Floor commercial/retail locales will have access to the first level (2nd Floor) of parking and a total of 112 parking spaces; the entrance to the garage on Venera Ave. will be uncontrolled/ungated.

b. Will the proposed parking for the residents include a gated entrance? If so, a queueing analysis will be required.

Response: Parking for residents will be restricted and provided on the 3rd and 4th Floors, for a total of 244 spaces. The gate or access control will be placed at the entrance of the "up ramp" providing access from the 2nd Floor to the 3rd Floor.

5. Page 25 (5.0 Circulation Plan): Delivery vehicle area are shown on the plan in Appendix A to be provided from San Remo Avenue, rather than Venera Avenue as stated in the text. Please revise text.

Response: Section 5.0 of the report has been revised to correctly describe the loading area.

6. Page 26, Exhibit 14: The M-Path should be shown to the north of Dixie Hwy. rather than in the median of Dixie Hwy. Please revise.

Response: Exhibit 14 has been revised to show the M-Path to the north of Dixie Highway.

7. Page 27, Exhibit 15: Route 500 has stops on both sides of Dixie Hwy. near the SW 70th St. intersection with Dixie Hwy. Please note this in the text as complement to the other stops shown on the exhibit itself.

Response: Text has been added to Section 5.0 of the report stating that there are two bus stops along South Dixie Highway near SW 70th Street.

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EXECUTIVE SUMMARY

The Venera project will be located on the east side of Yumuri Street between Venera and San Remo Avenues in Coral Gables, Florida. The site is located within the Gables Re-development Infill District (GRID), the city's traffic concurrency exception area. The project proposes a new residential development with 189 dwelling units and 31,741 SF of retail space on the ground floor. The site is currently occupied by a 40-unit apartment building, a 47 unit condominium and 2,108 square feet of professional office. Access to and from the site will be provided on a two-way driveway located on Venera Avenue. The proposed parking garage provides 356 parking spaces. This traffic study is consistent with the methodology previously discussed with and agreed to by the City of Coral Gables Public Works Department. For the purpose of this traffic study, project buildout is anticipated in 2018.

An assessment of the traffic impacts associated with the proposed project was performed in accordance with the requirements of the City of Coral Gables. The results shows that the following intersections currently operate and are projected to operate within the city's LOS standards during the morning and afternoon peak periods:

- SW 57th Avenue (Red Road) / San Remo Avenue
- SW 57th Avenue (Red Road) / Madruga Avenue
- Madruga Avenue / Yumuri Street
- Venera Avenue / Yumuri Street
- Sunset Drive / Yumuri Street
- San Remo Avenue / Yumuri Street
- San Remo Avenue / Nervia Street
- Sunset Drive / Nervia Street

The analysis shows that the southwest movement at the un-signalized intersection of Red Road and Madruga Avenue is experiencing minor delays during the morning peak period. This is due to the fact that for un-signalized intersections the software tends to overestimate delay

measurements for the minor approaches and does not account for gaps in traffic created by the upstream signalized intersections to allow the minor street traffic flow. If the minor approach delays do reach the software estimates, observed behavior shows drivers will find alternate routes. As with the existing and future without project conditions, the minor approaches of the Red Road and San Remo Avenue intersection continue to experience delays. Minor signal timing adjustments are recommended to improve the overall operations and decrease delay at this intersection.

In addition, a mobility and circulation plan was completed as part of the study. The plan shows that the project area is currently served by various Miami-Dade Transit bus routes, and the Metrorail. The project is located in an area that is conducive for pedestrian and bicycle activities providing bike paths, ample sidewalks, and crosswalks.

1.0 INTRODUCTION

1.1 Project Background

The Venera project will be located on the east side of Yumuri Street between Venera and San Remo Avenues in Coral Gables, Florida (See Exhibit 1). The site is located within the Gables Redevelopment Infill District (GRID), the city's traffic concurrency exception area. The project proposes a new residential development with 189 dwelling units and 31,741 SF of retail space on the ground floor. The site is currently occupied by a 40-unit apartment building, a 47 unit condominium and 2,108 square feet of professional office. Access to and from the site will be provided on a two-way driveway located on Venera Avenue. The proposed parking garage provides 356 parking spaces. See Appendix A for site plan. This traffic study is consistent with the methodology previously discussed with and agreed to by the City of Coral Gables Public Works Department. For the purpose of this traffic study, project buildout is anticipated in 2018.

1.2 Study Objective

The purpose of the study is to provide a traffic study that meets the requirements of the City of Coral Gables for the project. This study includes vehicular flow, trip generation, and intersection analyses.

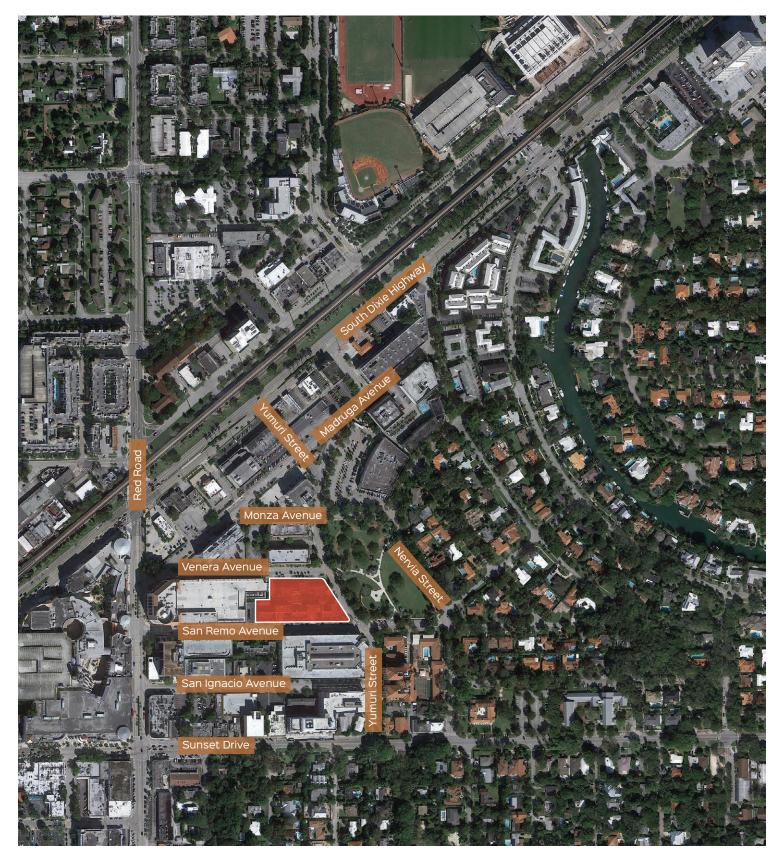




Exhibit 1
Location Map



1.3 Study Area and Methodology

The analysis undertaken follows the study methodology previously discussed with and approved by the City of Coral Gables Public Works Department (See Appendix B). A synopsis of the methodology is as follows:

- Traffic Counts (Intersections) Two-hour turning movement counts were be collected for the AM (7-9 AM) and PM (4-6 PM) periods on a typical weekday at the following intersections:
 - o SW 57th Avenue (Red Road) / San Remo Avenue (S)
 - o SW 57th Avenue (Red Road) / Madruga Avenue (U)
 - o Madruga Avenue / Yumuri Street (U)
 - o Venera Avenue / Yumuri Street (U)
 - o Sunset Drive / Yumuri Street (S)
 - o San Remo Avenue / Yumuri Street (U)
 - o San Remo Avenue / Nervia Street (U)
 - o Sunset Drive / Nervia Street (U)

S= Signalized

U=Un-signalized

- Signal Location and Timing Existing signal phasing and timing for the signalized intersection were be obtained from Miami-Dade County.
- Trip Generation project trips was estimated using trip generation information published by the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 9th Edition.
- Trip Distribution / Trip Assignment Net new external project traffic was assigned to the adjacent street network using the appropriate cardinal distribution from the <u>Miami-Dade Long Range Transportation Plan Update</u>, published by the <u>Metropolitan Planning</u> Organization. Normal traffic patterns were also be considered when assigning project trips.

- Background Traffic Available Florida Department of Transportation (FDOT) and Miami-Dade County (MDC) counts were be consulted to determine a growth factor consistent with historical annual growth in the area. The growth factor was applied to the existing traffic volumes to establish background traffic.
- Future Transportation Projects The 2016 TIP and the 2040 LRTP was reviewed and considered in the analysis at project build-out.
- Committed Developments Committed developments were provided by the city.
- Intersection analysis was done using Highway Capacity Software (HCS) based on the 2010
 <u>Highway Capacity Manual</u> (HCM) or the Synchro software. Operation analysis at driveways
 providing access to/from the site was also conducted.
- Multimodal Considerations Pedestrian, bicycle and transit facilities were defined in a
 Circulation Plan. Existing bus and mass transit routes including schedule and bus stop
 locations are discussed as part of the study.

2.0 DATA COLLECTION

Data collection for this study included roadway characteristics, intersection traffic counts, signal timing, and seasonal adjustment factors. The data collection effort is described in the following sections.

2.1 Roadway Characteristics

SW 57th Avenue (Red Road)

SW 57th Avenue is a minor arterial that provides north/south access throughout Miami-Dade County. Within the study area, SW 57th Avenue is a two-way, four-lane, divided roadway. On-street parking is provided on the east side of the roadway within the study area. Miami-Dade County has jurisdiction on this roadway. The speed limit is not posted within the study limits.

Venera Avenue

Venera Avenue is a local roadway that provides east/west access within the study area. Venera Avenue is a two-way, two-lane, undivided roadway with on-street parking on both sides of the roadway. The City of Coral Gables operates and maintains Venera Avenue. The posted speed limit is 30 mph.

Yumuri Street

Yumuri Street is a local roadway that provides north/south access within the study area. Yumuri Street is a two-way, two-lane, undivided roadway with on-street parking on both sides of the roadway. The City of Coral Gables operates and maintains Yumuri Street. The posted speed limit is 30 mph.

San Remo Avenue

San Remo Avenue is a local roadway that provides east/west access within the study area. San Remo Avenue is a two-way, two-lane, undivided roadway with on-street parking on both sides of

the roadway. The City of Coral Gables operates and maintains San Remo Avenue. The speed limit is not posted within the study limits; however, if not posted; the city's speed limit is 30 mph.

SW 72nd Street (Sunset Drive)

Within the study area, Sunset Drive is a minor arterial that provides east/west access throughout Miami-Dade County. Sunset Drive is a two-way, two-lane, undivided roadway with on-street parking on portions of the roadway within the study area. Miami-Dade County has jurisdiction on this roadway. The speed limit is not posted within the study limits; however, if not posted; the city's speed limit is 30 mph.

Madruga Avenue

Madruga Avenue is a local roadway that provides east/west access within the study area. Madruga Avenue is a two-way, two-lane, undivided roadway with on-street parking on both sides of the roadway. The City of Coral Gables operates and maintains Madruga Avenue. The speed limit is not posted within the study limits; however, if not posted; the city's speed limit is 30 mph.

Nervia Street

Nervia Street is a local roadway that provides north/south access within the study area. Nervia Street is a two-way, two-lane, undivided roadway with on-street parking on portion of the roadway. The City of Coral Gables operates and maintains Madruga Avenue. The speed limit is not posted within the study limits; however, if not posted; the city's speed limit is 30 mph.

2.2 Traffic Counts

Vehicle turning movement counts were collected on September 22, 2016 the study intersections during the AM (7-9 AM) and PM (4-6 PM) peak periods. The counts were adjusted to reflect average annual daily traffic conditions using the latest weekly volume adjustment factors obtained from FDOT. A weekly volume adjustment factor (Miami-Dade County South) of 1.01 corresponding to the date of the counts was used. Traffic counts are provided in Appendix C.

2.3 Intersection Data

Signal timing data was obtained from Miami-Dade County for the signalized intersections analyzed in this study. This information was used for the signal phasing and timing required for the intersection capacity analysis. A field survey was also conducted to obtain the intersection lane configurations to be used in the intersection analysis. Exhibit 2 shows the existing lane configurations at the analyzed intersections. Existing volumes for the morning and afternoon peak period at the intersections analyzed are shown in Exhibit 3. Signal timings are also provided in Appendix C.

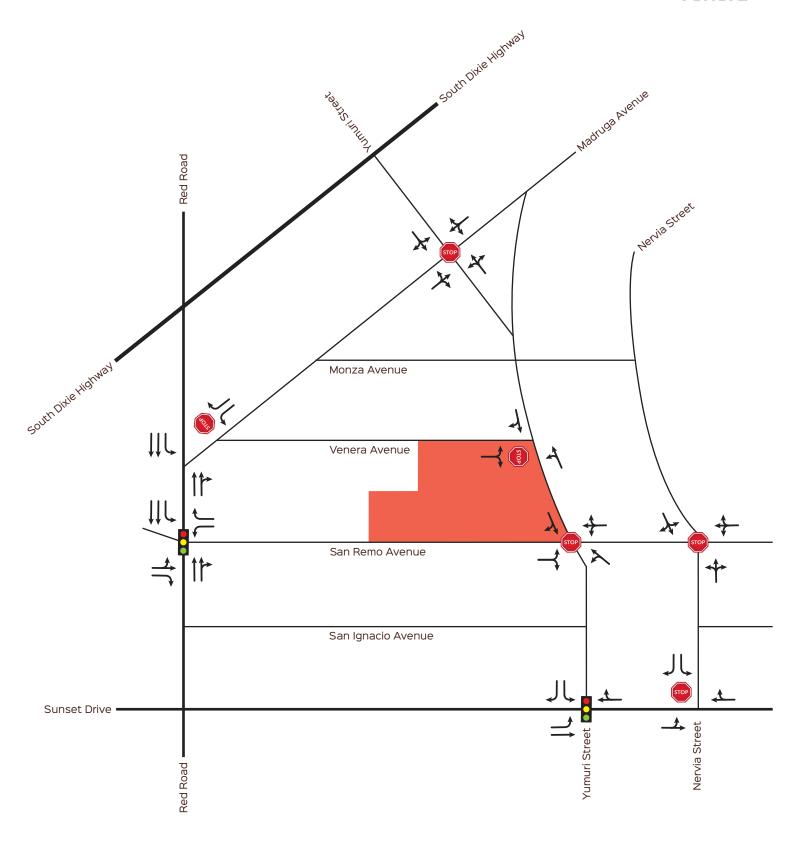




Exhibit 2

Existing Lane Configuration



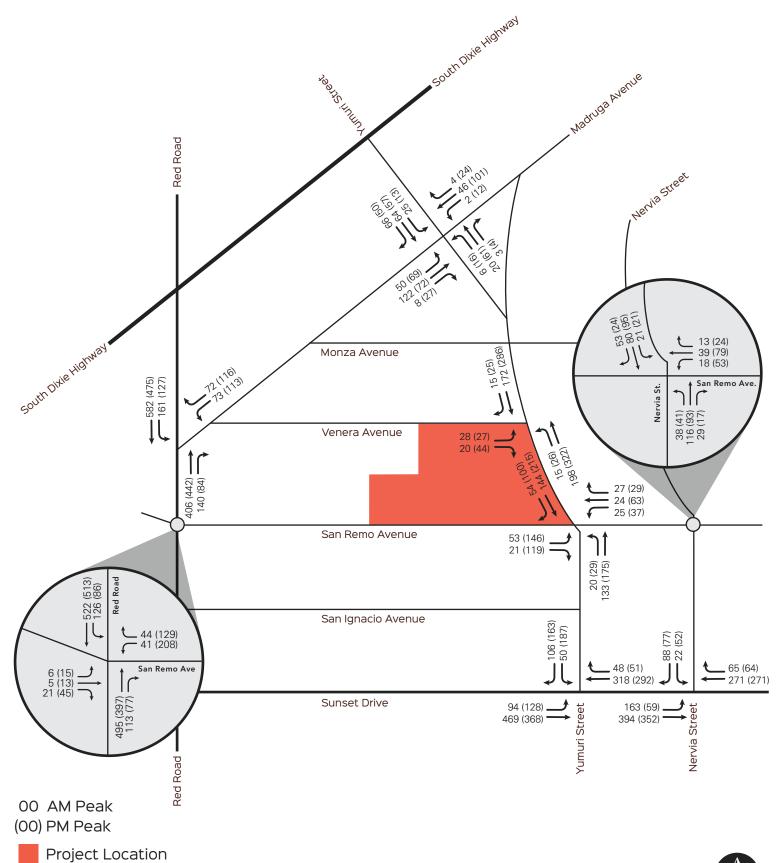


Exhibit 3

Existing AM & PM Peak Period Traffic Volumes



2.4 Walking / Other Modes of Transportation

Pedestrian activity is an essential element within the study area. The project site is located in an area where pedestrian activity is common between the existing site and surrounding properties. The following destinations, amongst others, are within walking distance of the project:

The Shops at Sunset Place – directly west of Red Road

Whole Food Market – directly west of project site

Publix Super Market – just north on Monza Avenue

William H Kerdyk Jr and Family Park – directly east of Yumuri Street

This area is also serviced by Miami-Dade transit bus routes. The South Miami and University Metrorail stations are also within walking distance. See Section 5.0 of this report for the circulation plan including details on pedestrian access and available transit.

2.5 Intersection Capacity Analysis

The Synchro software was used to perform intersection capacity analysis at the analyzed intersections. Synchro is a macroscopic analysis and optimization software application that implements the Intersection Capacity Utilization method for determining intersection capacity. Synchro also supports the Highway Capacity Manual's methodology for signalized / un-signalized intersections. Exhibit 4 shows the resulting LOS for existing conditions during morning and afternoon peak periods. The results of the analysis show that all the intersections currently operate within the city's LOS standards. It should be noted that the eastbound approach of the Red Road and San Remo Avenue intersection is a private driveway and was not included in the intersection capacity analysis. Results also show that the minor approaches of the Red Road and San Remo Avenue intersection are currently experiencing delays. This is due to the fact that for un-signalized intersections the software tends to overestimate delay measurements for the minor approaches and does not account for gaps in traffic created by the upstream signalized intersections to allow the minor street traffic flow. If the minor approach delays do reach the software estimates, observed

behavior shows drivers will find alternate routes. Intersection capacity analysis worksheets are included in Appendix D.

Exhibit 4: Existing Intersection Capacity Analysis Weekday AM and PM Peak Period Conditions

	Ruay Avi and		AM Peak			Peak		
Intersection	Signalized/ Unsignalized	Direction	LOS	DELAY (sec)	LOS	DELAY (sec)	LOS Standard*	
		NB	A	3.6	A	4.6	Е	
CW 57 th Assess (Ded Deed) /		SB	A	3.6	A	4.7	Е	
SW 57 th Avenue (Red Road) / San Remo Avenue	S	EB	F	90.6	F	90.2	E + 50	
San Remo Avenue		WB	Е	78.1	F	201.2	E + 50	
		Overall	В	10.2	D	53.5	E + 50	
SW 57 th Avenue (Red Road) / Madruga Avenue	U	SWB	Е	37.5	D	27.6	E + 50	
		NB	A	9.1	A	9.4	E + 50	
	U	SB	A	8	A	8.9	E + 50	
Madruga Avenue / Yumuri Street		EB	A	8.6	Α	8.8	Е	
		WB	A	8	A	8.8	Е	
Venera Avenue / Yumuri Street	U	ЕВ	В	11.9	В	13.4	Е	
		NB	A	9.3	В	11.3	Е	
San Remo Avenue / Yumuri		SB	A	9.4	В	13.2	Е	
Street	U	EB	A	8.8	В	12.5	Е	
		WB	A	8.7	В	10.5	E	
		SB	С	22.3	С	32.3	Е	
Sunset Drive / Yumuri Street	a	EB	Α	8.3	Α	4.9	Е	
Sunset Drive / Yumuri Street	S	WB	В	13.4	A	9.3	Е	
		Overall	В	12.0	В	14.2	$\boldsymbol{\mathit{E}}$	
		NB	A	9.9	A	8.8	Е	
San Remo Avenue / Nervia Street	U	SB	A	9.5	A	8.6	Е	
		WB	A	9.1	A	9.1	E	
Sunset Drive / Nervia Street	U	SB	С	15.3	В	14.1	Е	

Source: David Plummer & Associates

^{*}LOS standard is based on the city's Comprehensive Plan (E +50 for parallel roads within $\frac{1}{2}$ mile of commuter rails).

3.0 PLANNED AND PROGRAMED ROADWAY IMPROVEMENTS

The 2016 Miami-Dade County <u>Transportation Improvement Program</u> (TIP) and the <u>2040 Long Range Transportation Program</u> (LRTP) were reviewed to identify any programmed or planned projects within the limits of the study area established. These documents show no officially programmed or planned capacity improvement projects within the study area.

4.0 FUTURE TRAFFIC CONDITIONS

4.1 Background Traffic and Committed Developments

Average Daily Traffic counts published by the Miami-Dade Public Works Department and the FDOT were reviewed to determine historic growth in the area. This analysis indicated that traffic has decreased in the past years. However, a conservative 0.5% annual growth rate was used for this study. Historic growth rate documentation is included in Appendix C.

Three committed developments in the vicinity of the project site were considered for estimating future traffic volumes in this study: Paseo de la Riviera, 1515 Sunset Drive, and UHealth. Exhibit 5 provides a tabulation of AM and PM peak hour trips generated by the committed development, along with the approved land uses. Committed development information is included in Appendix E.

Exhibit 5: Committed Development AM and PM Peak Trip Generation*

Project	ITE Land Use	Size/Units	AM Peak Hour Vehicle Trips			PM Peak Hour Vehicle Trips		
Troject	TTE Edition Colo	Sizer Cines	In	Out	Total	In	Out	Total
1515 Sunset	Office Building (Land Use 710)	61,539 SF	114	16	130	25	122	147
	Apartments (Land Use 223)	236 DU	21	50	71	54	38	92
Paseo de la	Hotel (Land Use 310)	252 Rooms	78	56	134	78	73	151
Riviera	Restaurant (Land Use 931)	4,380 SF	0	0	0	22	11	33
	Specialty Retail (Land Use 826)	14,094 SF	0	0	0	17	21	38
UHealth Gables	Medical Offices/ Surgery/ Imaging (Land Use 720)	114,580 SF	216	58	274	92	237	329
	Clinic (Land Use 630)	74,825 SF	255	68	323	105	283	388

^{*} Committed development documentation is included in Appendix E.

4.2 Future without Project Intersection Capacity Analysis

Future without project conditions was obtained by adding background traffic with committed development trips. Exhibit 6 shows the projected turning movements for future without project traffic. Exhibit 7 shows the resulting LOS for morning and afternoon peak conditions for future without project. The overall LOS of all intersections continues to be within the city's LOS standards. The minor approaches of the Red Road and San Remo Avenue intersection continue to experience delays. Capacity worksheets are included in Appendix D.

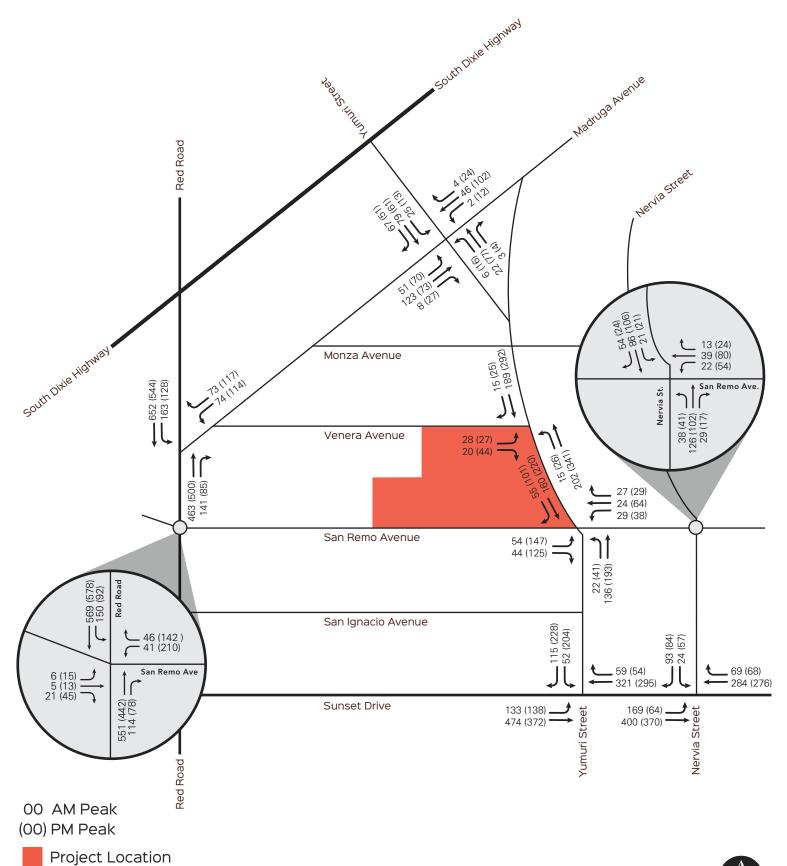


Exhibit 6

Future Without Project AM & PM Peak Period Traffic Volumes



Exhibit 7: Future without Project Intersection Capacity Analysis Weekday AM and PM Peak Period Conditions

Weekday AM and PM Peak Period Conditions										
	a		AM	Peak	PM	Peak	T OG			
Intersection	Signalized/ Unsignalized	Direction	LOS	DELAY (sec)	LOS	DELAY (sec)	LOS Standard*			
		NB	A	3.7	A	4.7	E			
SW 57 th Avenue (Red Road) /		SB	A	3.8	A	4.8	E			
Sw 5/" Avenue (Red Road)/ San Remo Avenue	S	EB	F	90.6	F	90.2	E + 50			
		WB	E	78.1	F	200.2	E + 50			
		Overall	\boldsymbol{A}	9.9	D	51.2	E + 50			
SW 57 th Avenue (Red Road) / Madruga Avenue	U	SWB	Е	48.5	Е	36.4	E + 50			
		NB	A	9.1	A	9.5	E + 50			
	U	SB	A	8.1	A	9.1	E + 50			
Madruga Avenue / Yumuri Street		EB	A	8.8	A	8.9	Е			
		WB	A	8	A	9	E			
Venera Avenue / Yumuri Street	U	ЕВ	В	12.2	В	13.6	Е			
		NB	A	9.6	В	12.5	Е			
San Remo Avenue / Yumuri	T T	SB	A	9.9	В	13.8	E			
Street	U	EB	A	9.1	В	13.1	E			
		WB	A	8.9	В	10.9	E			
		SB	С	22.3	С	27.3	Е			
Sunset Drive / Yumuri Street	a	EB	A	8.4	A	7.5	E			
Sunset Drive / 1 umuri Street	S	WB	В	13.7	В	13.1	E			
		Overall	В	12.2	В	15.5	$\boldsymbol{\mathit{E}}$			
		NB	В	10.2	A	9	Е			
San Remo Avenue / Nervia Street	U	SB	A	9.8	A	8.8	E			
		WB	A	9.2	A	9.2	E			
Sunset Drive / Nervia Street	U	SB	С	16.1	В	14.8	Е			

Source: David Plummer & Associates

^{*}LOS standard is based on the city's Comprehensive Plan (E +50 for parallel roads within ½ mile of commuter rails).

4.3 Project Trip Generation

Trip generation for the proposed project and the existing use was estimated using the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 9th Edition. This manual provides gross trip generation rates and/or equations by land use type. These rates and equations estimate vehicle trip ends at a free-standing site's driveways. See Appendix F for project trip generation worksheets.

The proposed development plan incorporates residential and retail land uses, which can satisfy the work trip, dining, and retail needs for some residents, employees, and visitors without making a trip off-site. An internalization matrix was developed to establish the appropriate number of internal project trips. Internal capture rates used are also included in Appendix F.

As previously mentioned, the project site is located in an area where pedestrian activity is common between the existing site and surrounding properties. The University and South Miami Metrorail stations are within walking distance. This area is also serviced by Miami-Dade transit bus routes (see Section 5.0 of this report for the circulation plan including details on pedestrian access and available transit). A 10% adjustment was applied to the trip generation of the existing and proposed uses to account for other modes of transportation. The project trip generation summary is provided in Exhibit 8.

Exhibit 8: Project Trip Generation Summary

Proposed ITE Land Use	Size/Units		Peak H		PM Peak Hour Vehicle Trips		
Designation ¹		In	Out	Total	In	Out	Total
Residential Condominium (Land Use 230)	189 DU	15	71	86	68	33	101
Specialty Retail (Land Use 826)	31,741 SF	17	10	27	43	55	98
Subtotal Gross Trips		32	81	113	111	88	199
Transit/Pedestrian Trips	10%	-4	-8	-11	-9	-7	-16
Internalization ²	AM 1.80% PM 18.1%	-1	-1	-2	-18	-18	-36
Net External Trips (Propos	sed)	27	72	100	84	63	147

Existing ITE Land Use	Size/Units		Peak H		PM Peak Hour Vehicle Trips			
Designation ¹		In	Out	Total	In	Out	Total	
Apartment (Land Use 220)	40 DU	5	18	23	26	14	40	
Residential Condominium (Land Use 230)	47 DU	5	23	28	21	11	32	
Office (Land Use 710)	2,108 SF	3	0	3	1	2	3	
Subtotal Gross Trips		13	41	54	48	27	75	
Transit/Pedestrian Trips	10%	-1	-4	-5	-5	-3	-8	
Net External Trips (Existi	ng)	12	37	49	43	24	67	

Proposed Uses	27	72	100	84	63	147
Existing Uses	-12	-37	-49	-43	-24	-67
Net New External Trips	15	35	51	41	39	80

¹ Based on ITE <u>Trip Generation Manual</u>, Ninth Edition, ² Based on ITE <u>Trip Generation Manual User's Guide and Handbook</u>, Ninth Edition

4.4 Project Trip Assignment

Project traffic was distributed and assigned to the study area using the Cardinal Distribution for TAZ 1103 shown in Exhibit 9. The Cardinal Distribution gives a generalized distribution of trips from a TAZ to other parts of Miami-Dade County. The distribution can be summarized as follows: 35.91% to the north, 12.65% to the south, 12.28% to the east, and 39.31% to the west. For estimating trip distribution for the project traffic, consideration was given to conditions such as the roadway network accessed by the project traffic, roadways available to travel in the desired direction, and attractiveness of traveling on a specific roadway. Project trip distribution and project trip assignment for the proposed project is shown in Exhibit 10 and Exhibit 11, respectively.

Exhibit 9: Cardinal Distribution (TAZ 1103)

Direction	Distribution
NNE	22.54%
ENE	10.51%
ESE	1.77%
SSE	1.50%
SSW	11.15%
WSW	27.57%
WNW	11.74%
NNW	13.37%
Total	100.00%

Source: Miami-Dade Long Range Transportation Plan

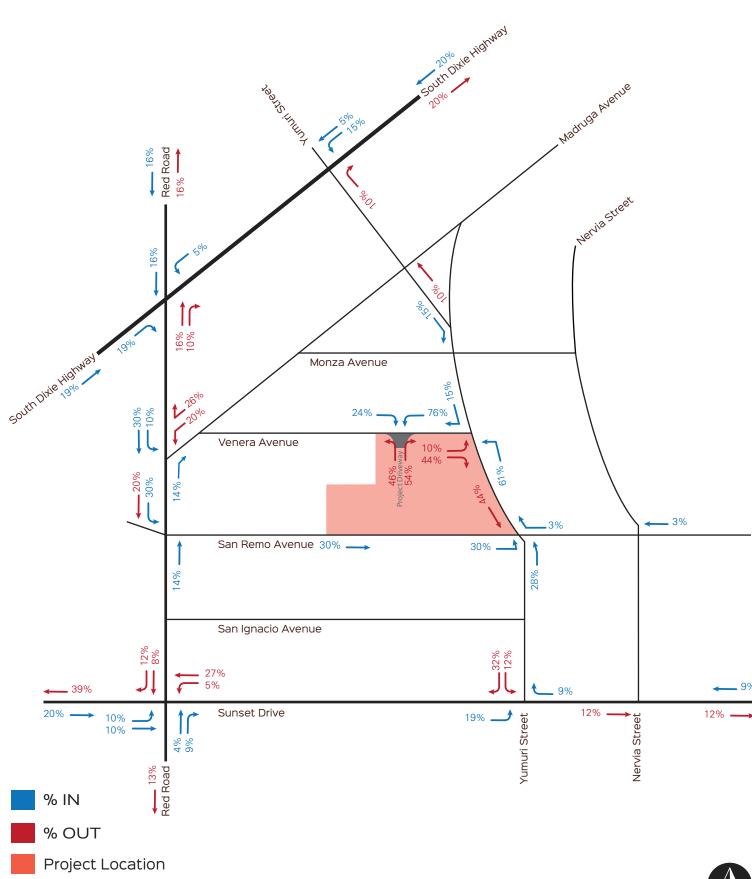


Exhibit 10

Project Trip Distribution



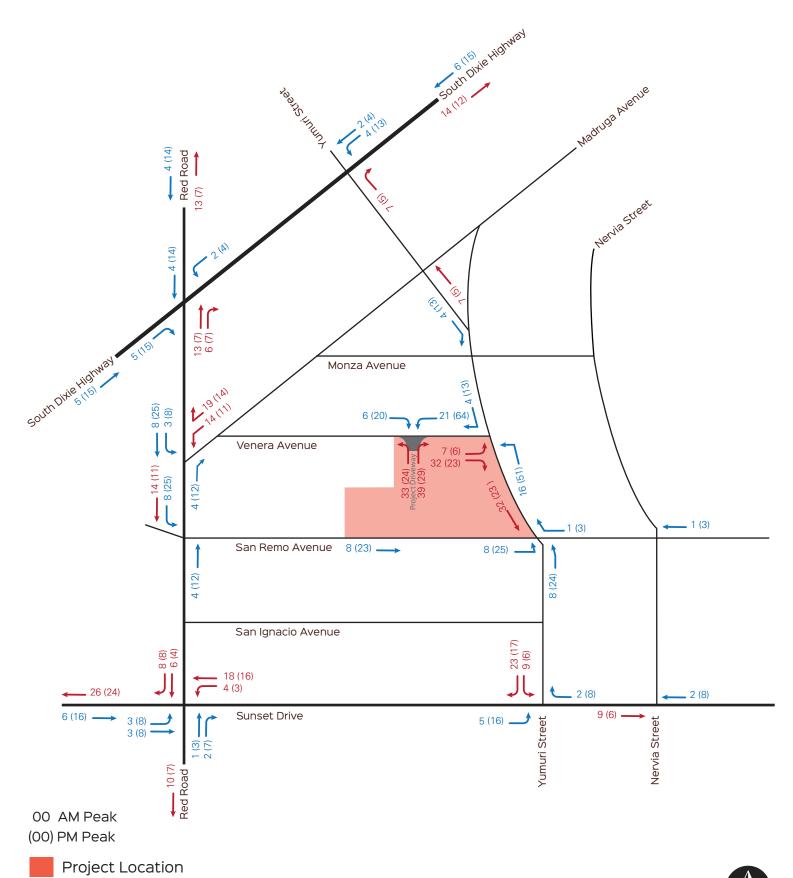


Exhibit 11

Project Trip Assignment



4.5 Future With Project Intersection Capacity Analysis

The trip assignments in the previous section, traffic projections for the project, committed developments and background growth were combined to obtain future traffic with project at the analyzed intersections. Exhibit 12 shows the projected turning movement volumes for future with project. Exhibit 13 shows the resulting LOS for the morning and afternoon peak conditions for future with project. The overall LOS of all intersections analyzed is currently and projected to be within the city's LOS standard during the morning and afternoon peak periods. Capacity worksheets are included in Appendix D.

The analysis shows that the southwest movement at the un-signalized intersection of Red Road and Madruga Avenue is experiencing minor delays during the morning peak period. This is due to the fact that for un-signalized intersections the software tends to overestimate delay measurements for the minor approaches and does not account for gaps in traffic created by the upstream signalized intersections to allow the minor street traffic flow. If the minor approach delays do reach the software estimates, observed behavior shows drivers will find alternate routes. As with the existing and future without project conditions, the minor approaches of the Red Road and San Remo Avenue intersection continue to experience delays. Minor signal timing adjustments are recommended to improve the overall operations and decrease delay at this intersection.

It should be noted that the proposed project is located within the City of Coral Gables Redevelopment and Infill District (GRID), which is a Transportation Concurrency Area established by the city to promote development within its boundaries. In essence, this ordinance establishes that roadways within the geographical area of the GRID are exempt from the citywide traffic LOS Standards.

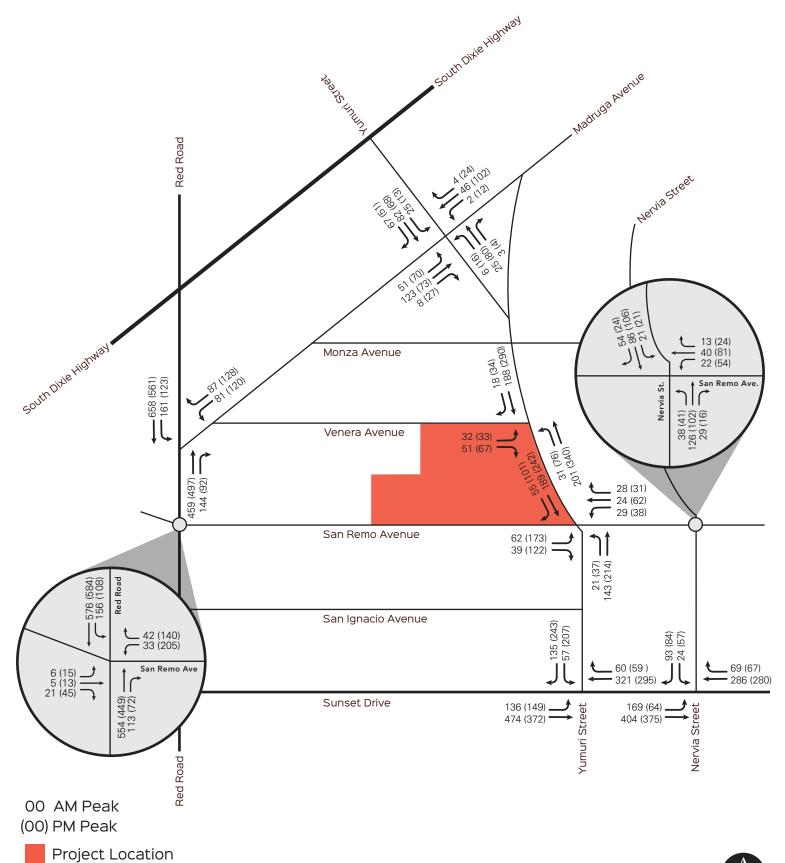


Exhibit 12

Future With Project AM & PM Peak Period Traffic Volumes



Exhibit 13: Future with Project Intersection Capacity Analysis Weekday AM and PM Peak Period Conditions

			AM	I Peak	PM	Peak	
Intersection	Signalized/ Unsignalized	Direction	LOS	DELAY (sec)	LOS	DELAY (sec)	LOS Standard*
		NB	A	3.5	A	6.3	Е
SW 57 th Avenue (Red Road) /		SB	A	3.6	A	6.5	E
San Remo Avenue (Red Road) /	S	EB	E + 13	90.6	E + 13	90.2	E + 50
San Kemo Avenue		WB	Е	78.4	E + 40	111.6	E + 50
		Overall	\boldsymbol{A}	9.1	C	32.4	E + 50
SW 57 th Avenue (Red Road) / Madruga Avenue	U	SWB	F	52.1	Е	37.8	E + 50
		NB	A	9.2	A	9.6	E + 50
Madanaa Aaaaaa / Waaaaai Staaat	U	SB	Α	8.1	Α	9.1	E + 50
Madruga Avenue / Yumuri Street		EB	A	8.8	A	9	E
		WB	A	8.1	A	9.1	Е
Venera Avenue / Yumuri Street	U	EB	В	12.4	С	15.4	E
		NB	A	9.8	В	13.6	Е
	U	SB	В	10.6	С	15.5	Е
San Remo Avenue / Yumuri Street		EB	A	9.4	В	14.7	E
Succi		WB	A	9.1	В	11.4	E
		Overall	\boldsymbol{A}	10.0	В	14.3	$\boldsymbol{\mathit{E}}$
		SB	С	22.3	С	26.9	Е
Sunset Drive / Yumuri Street	G	EB	A	8.4	A	7.5	Е
Sunset Drive / Tumuri Street	S	WB	В	13.7	В	13.1	E
		Overall	В	12.4	В	15.6	$\boldsymbol{\mathit{E}}$
		NB	В	10.4	A	8.9	Е
San Remo Avenue / Nervia Street	U	SB	A	9.8	A	8.8	E
		WB	A	9.3	A	9.2	E
Sunset Drive / Nervia Street	U	SB	С	16.3	В	14.9	Е
Project Driveway / Venera Avenue	U	NB	A	9.2	A	9.8	N/A

Source: David Plummer & Associates

(1) PM Peak LOS with Signal Timing Improvements.

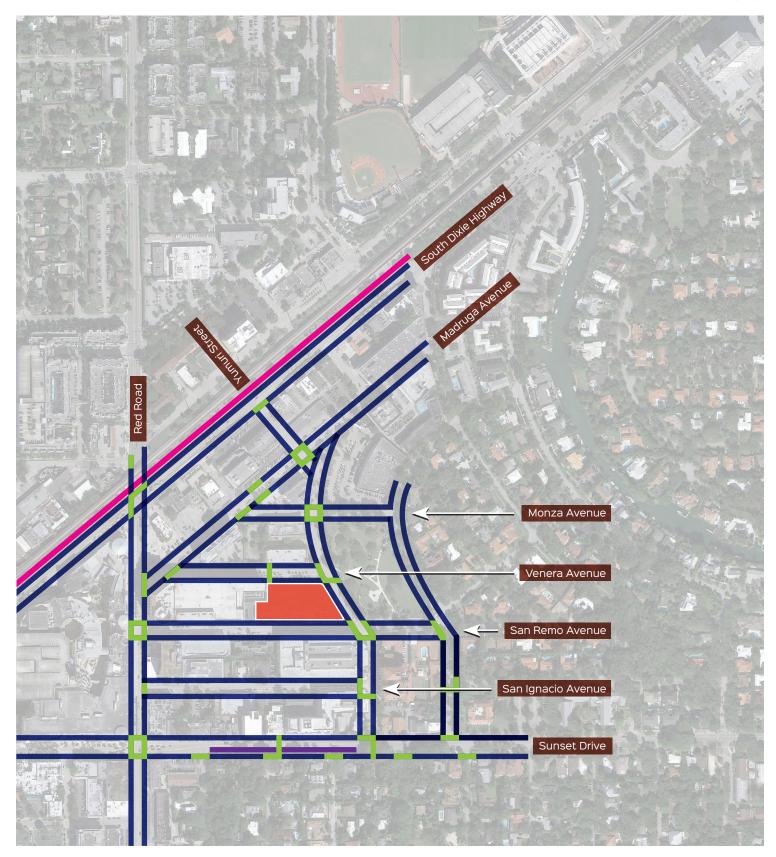
^{*}LOS standard is based on the city's Comprehensive Plan (E +50 for parallel roads within $\frac{1}{2}$ mile of commuter rails).

5.0 CIRCULATION PLAN

As mentioned before, access to and from the site will be provided on a two-way driveway located on Venera Avenue. The delivery truck load/off-load areas is will be accessed via San Remo Avenue. The project will provide ample sidewalks along the principle, side and rear frontage of the site. It will also provide ground level pedestrian access at two separate lobby entrances (one on San Remo Avenue and one on Venera Avenue), retail space entrances on Venera Avenue and Yumuri Street, and residential units on San Remo Avenue.

The project is located in an area that is conducive for pedestrian activities. South Dixie Highway, Red Road, San Remo Avenue, Venera Avenue, SW 72nd Street, Nervia Street, Yumuri Street, and Madruga Avenue provide sidewalks on both sides of the road. Furthermore there is a midblock crosswalk located at the west end of the project site on Venera Avenue. Signalized intersections adjacent to the site have clearly marked crosswalks and provide pedestrian signals. A bike path is provided under the elevated Metrorail (M-Path) and bike lines are provided along SW 72nd Street. A circulation and mobility plan was prepared for the site (see Exhibit 14). The plan shows the project driveways, location of street signals, delivery areas, sidewalk connections, and pedestrian crosswalks.

The area surrounding the project is served by transit. There are three Miami Dade transit bus routes (Route 37, 57 and 500) that traverse this area of Coral Gables. The closest bus stops to the project site are located on Sunset Drive, Red Road at Yumuri Street. It should be noted that Route 500 has stops on both sides of South Dixie Highway near the SW 70th Street. This project is located between two Metrorail Stations, approximately 0.8 miles south of the University Station and 0.3 miles north of the South Miami Station. Both the Metrorail Orange and Green line provide service to these stations. Exhibit 15 shows the available bus routes and bus stops in the area. Appendix G shows the bus route maps and schedules.

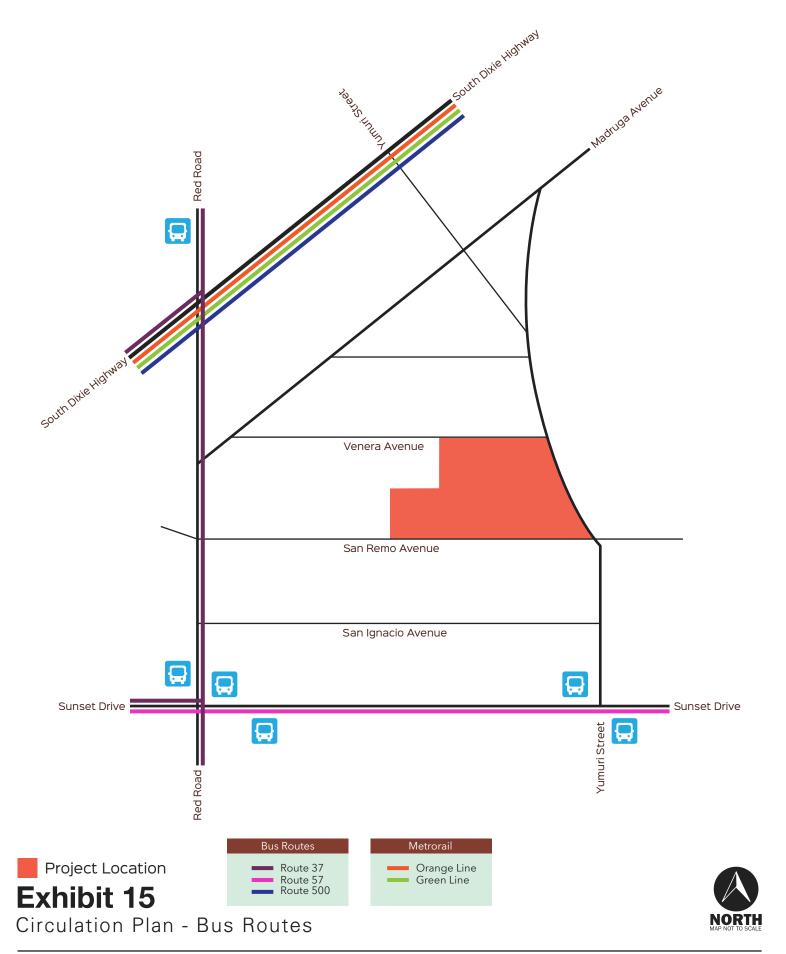




SidewalksBike LaneCrosswalksM Path







6.0 CONCLUSIONS

An assessment of the traffic impacts associated with the proposed project was performed in accordance with the requirements of the city of Coral Gables. The results shows that the following intersections currently operate and are projected to operate within the city's LOS standards during the morning and afternoon peak periods:

- SW 57th Avenue (Red Road) / San Remo Avenue
- SW 57th Avenue (Red Road) / Madruga Avenue
- Madruga Avenue / Yumuri Street
- Venera Avenue / Yumuri Street
- Sunset Drive / Yumuri Street
- San Remo Avenue / Yumuri Street
- San Remo Avenue / Nervia Street
- Sunset Drive / Nervia Street

The analysis shows that the southwest movement at the un-signalized intersection of Red Road and Madruga Avenue is experiencing minor delays during the morning peak period. This is due to the fact that for un-signalized intersections the software tends to overestimate delay measurements for the minor approaches and does not account for gaps in traffic created by the upstream signalized intersections to allow the minor street traffic flow. If the minor approach delays do reach the software estimates, observed behavior shows drivers will find alternate routes. As with the existing and future without project conditions, the minor approaches of the Red Road and San Remo Avenue intersection continue to experience delays. Minor signal timing adjustments are recommended to improve the overall operations and decrease delay at this intersection.

In addition, a mobility and circulation plan was completed as part of the study. The plan shows that the project area is currently served by various Miami-Dade Transit bus routes, and the Metrorail. The project is located in an area that is conducive for pedestrian and bicycle activities providing a bike paths, ample sidewalks, and crosswalks.

Appendix A Site Plan

П П 1500 VENERA AVE, 33146

AMOH

PLANNING AND ZONING BOARD SUBMITTAL 08-07-2017 1ST COMMISSION MEETING 02-13-2018

FULL BLOCK SITE PLAN

A-2

FULL BLOCK SITE PLAN





SHOMA

PLANNING AND ZONING BOARD SUBMITTAL 08-07-2017 1ST COMMISSION MEETING 02-13-2018

AERIAL LOCATION

A-3

Bermello Ajamil & Partners, In 2601 SOUTH BAYSHORE DRIVE, SUITE MIAMI, FL 3 P: (305) 859-www. BERMELLOAJAMIL.

SHOMA

PLANNING AND ZONING
BOARD SUBMITTAL
08-07-2017
1ST COMMISSION MEETING
02-13-2018

GROUND FLOOR

A-6

Appendix B Methodology

1750 PONCE DE LEON BOULEVARD, CORAL GABLES, FLORIDA 33134 305 447-0900 • FAX: 305 444-4986 • EMAIL: DPA@DPLUMMER.COM

Venera Traffic Analysis Methodology

August 25, 2016

DPA will undertake a Traffic Impact Analysis as required by the City of Coral Gables. The analyses are for the existing conditions, future conditions with committed development, and the future conditions with project and committed developments.

The site is located on the east side of Yumuri Street between Venera and San Remo Avenues in Coral Gables, FL.

Existing Site: Villa San Remo (47 Condo Units) and 1500 Venera (40 Apartments)

Proposed Plan: 172 residential units

The methodology is outlined below:

- Traffic Counts (Intersections) Two-hour turning movement counts will be collected for the AM (7-9 AM) and PM (4-6 PM) hours on a typical weekday at the following intersections:
 - o SW 57th Avenue (Red Road) / San Remo Avenue (S)
 - o SW 57th Avenue (Red Road) / Madruga Avenue (U)
 - o Madruga Avenue / Yumuri Street (U)
 - o Venera Avenue / Yumuri Street (U)
 - o Sunset Drive / Yumuri Street (S)
 - o San Remo Avenue / Yumuri Street (U)
 - o San Remo Avenue / Nervia Street (U)
 - o Sunset Drive / Nervia Street (U)

S= Signalized

U=Un-signalized

- Signal Location and Timing Existing signal phasing and timing for the signalized intersection will be obtained from Miami-Dade County.
- Trip Generation project trips will be estimated using trip generation information published by the Institute of Transportation Engineers (ITE) <u>Trip Generation</u> Manual, 9th Edition.



- Trip Distribution / Trip Assignment Net new external project traffic will be assigned to the adjacent street network using the appropriate cardinal distribution from the <u>Miami-Dade Long Range Transportation Plan Update</u>, published by the <u>Metropolitan Planning Organization</u>. Normal traffic patterns will also be considered when assigning project trips.
- Background Traffic Available Florida Department of Transportation (FDOT) and Miami-Dade County (MDC) counts will be consulted to determine a growth factor consistent with historical annual growth in the area. The growth factor will be applied to the existing traffic volumes to establish background traffic
- Future Transportation Projects The 2016 TIP and the 2040 LRTP will be reviewed and considered in the analysis at project build-out.
- Committed Developments Committed developments will be provided by the city.
- Intersection analysis will be done using Highway Capacity Software (HCS) based on the 2010 <u>Highway Capacity Manual</u> (HCM) or the Synchro software. Operation analysis at driveways providing access to/from the site will also be conducted.
- Multimodal Considerations Pedestrian, bicycle and transit facilities will be defined in a Circulation Plan. Existing bus and mass transit routes including schedule and bus stop locations will be discussed as part of the study.

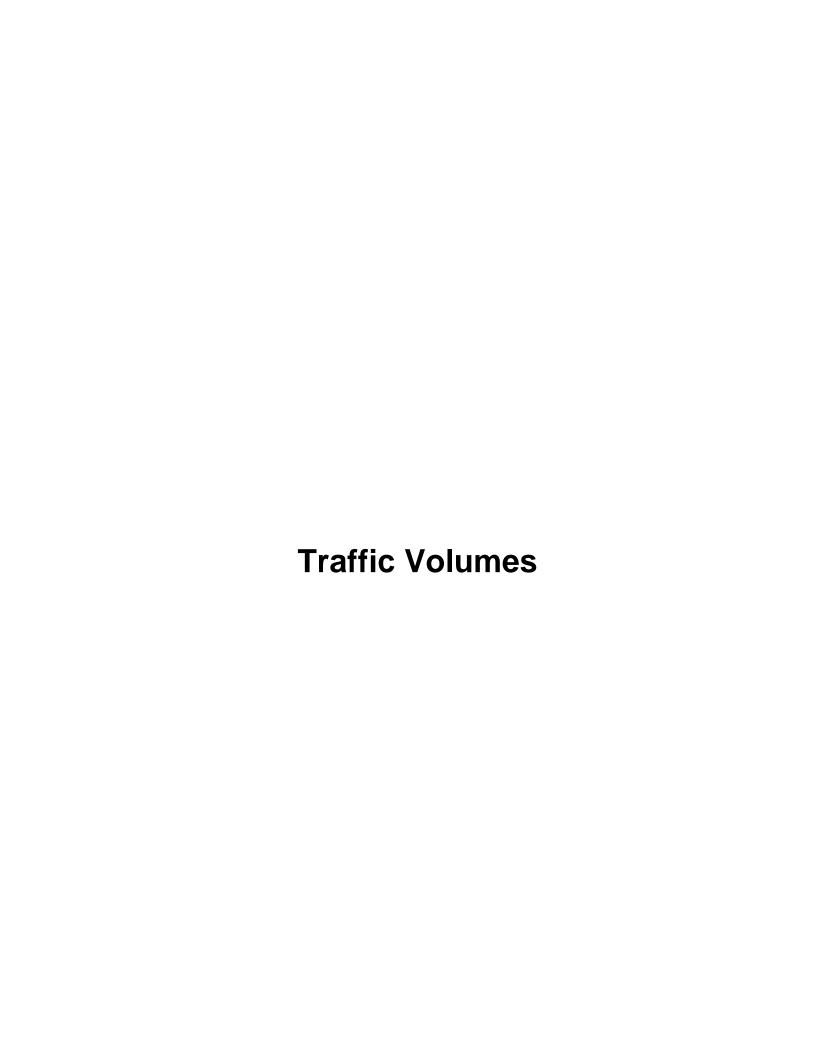
QUEUING ANALYSIS

If a gated parking entrance is proposed, a queuing analysis will be required. The potential queue will be calculated based on the peak hour traffic published by ITE's <u>Trip Generation</u>, 9th Edition. The project trip generation for the PM peak hour (the critical inbound hour) will be used for the analysis. The processing time will be determined based on data provided by the gate manufacture. Data collected and processing time calculation will be included in the study.

 $w: \verb|\16\16216| methodology.docx|$

Appendix C Data Collection

Traffic Volumes
Signal Timings
Historic Background Growth



TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:SW 57th Avenue (Red Road) & San Remo AvenueCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

			SW 5	7th Aven	ue (Re	d Road	l)				,	San Rem	o Aver	nue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND			WEST	TBOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:00 AM 07:15 AM	0	119	17	136	27	120	0	147	0	0	5	5	12	0	4	16	304
07:15 AM 07:30 AM	0	100	21	121	17	113	0	130	2	3	5	10	6	0	8	14	275
07:30 AM 07:45 AM	0	73	24	97	23	128	0	151	0	0	1	1	8	0	5	13	262
07:45 AM 08:00 AM	0	141	25	166	29	141	0	170	2	1	5	8	3	0	5	8	352
08:00 AM 08:15 AM	0	131	28	159	37	154	0	191	2	1	5	8	7	0	9	16	374
08:15 AM 08:30 AM	0	142	36	178	27	124	0	151	2	0	8	10	5	0	18	23	362
08:30 AM 08:45 AM	0	143	39	182	41	131	0	172	0	2	3	5	27	0	20	47	406
08:45 AM 09:00 AM	0	132	34	166	49	123	0	172	3	2	10	15	13	0	18	31	384

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

					SW 5	7th Aven	ue (Re	d Road)				,	San Rem	o Aver	ue			
	TII	TIME NORTHBOUND						SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUNE)	GRAND
	INTERVAL		L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
07	:00 AM	09:00 AM	0	495	113	609	126	522	0	648	6	5	21	31	41	0	44	85	1,373
PE	AK HOL	R FACTOR 0.94			0.94				0.90				0.63				0.62	0.94	

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:SW 57th Avenue (Red Road) & San Remo AvenueCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

			SW 5	7th Aven	ue (Re	d Road	l)				;	San Rem	o Aver	nue			
TIME		NORT	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND			WEST	TBOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM 04:15 PM	0	101	21	122	23	145	0	168	3	2	7	12	47	0	28	75	377
04:15 PM 04:30 PM	0	86	17	103	21	119	0	140	1	1	9	11	45	0	39	84	338
04:30 PM 04:45 PM	0	90	22	112	24	134	0	158	1	1	20	22	55	0	39	94	386
04:45 PM 05:00 PM	0	110	14	124	31	142	0	173	2	3	13	18	49	0	31	80	395
05:00 PM 05:15 PM	0	92	12	104	20	115	0	135	4	2	12	18	64	0	35	99	356
05:15 PM 05:30 PM	0	100	23	123	15	106	0	121	5	3	11	19	64	0	30	94	357
05:30 PM 05:45 PM	0	107	22	129	20	122	0	142	8	7	12	27	51	0	24	75	373
05:45 PM 06:00 PM	0	101	22	123	17	133	0	150	5	6	6	17	37	0	30	67	357

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

			SW 5	7th Aven	ue (Re	d Roac	l)				;	San Rem	o Aven	ue			
TIME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 PM 06:00 PM	0	397	77	475	86	513	0	599	15	13	45	73	208	0	129	337	1,484
PEAK HOUR FACTOR	HOUR FACTOR 0.93			0.93				0.92				0.72				0.89	0.95

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:SW 57th Avenue (Red Road) & Madruga AvenueCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

			SW 5	7th Aven	ue (Re	d Road	l)					Madruga	Aven	ue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND			WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:00 AM 07:15 AM	0	86	33	119	62	125	0	187	0	0	0	0	22	0	32	54	360
07:15 AM 07:30 AM	0	91	22	113	30	113	0	143	0	0	0	0	19	0	18	37	293
07:30 AM 07:45 AM	0	59	20	79	30	145	0	175	0	0	0	0	14	0	9	23	277
07:45 AM 08:00 AM	0	116	29	145	24	159	0	183	0	0	0	0	14	0	10	24	352
08:00 AM 08:15 AM	0	101	36	137	42	154	0	196	0	0	0	0	30	0	13	43	376
08:15 AM 08:30 AM	0	103	40	143	42	135	0	177	0	0	0	0	10	0	23	33	353
08:30 AM 08:45 AM	0	144	44	188	52	154	0	206	0	0	0	0	18	0	21	39	433
08:45 AM 09:00 AM	0	103	53	156	36	167	0	203	0	0	0	0	17	0	16	33	392

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

			SW 5	7th Aven	ue (Re	d Roac	l)					Madruga	Avenu	ue			
TIME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
07:00 AM 09:00 AM	1 0	406	140	545	161	582	0	742	0	0	0	0	73	0	72	144	1,432
PEAK HOUR FACTOR	K HOUR FACTOR			0.83				0.95				NA				0.86	0.90

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:SW 57th Avenue (Red Road) & Madruga AvenueCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

			SW 5	7th Aven	ue (Re	d Road	l)					Madruga	Aveni	ue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM 04:15 PM	0	96	27	123	25	107	0	132	0	0	0	0	45	0	39	84	339
04:15 PM 04:30 PM	0	115	16	131	37	133	0	170	0	0	0	0	29	0	27	56	357
04:30 PM 04:45 PM	0	113	18	131	39	127	0	166	0	0	0	0	20	0	30	50	347
04:45 PM 05:00 PM	0	121	17	138	23	139	0	162	0	0	0	0	19	0	22	41	341
05:00 PM 05:15 PM	0	101	12	113	33	101	0	134	0	0	0	0	26	0	25	51	298
05:15 PM 05:30 PM	0	117	28	145	36	98	0	134	0	0	0	0	36	0	25	61	340
05:30 PM 05:45 PM	0	111	23	134	32	123	0	155	0	0	0	0	25	0	39	64	353
05:45 PM 06:00 PM	0	102	25	127	27	112	0	139	0	0	0	0	24	0	22	46	312

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				SW 5	7th Aven	ue (Re	d Road	l)					Madruga	a Aveni	ıe			
-	TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INT	INTERVAL		Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 P	PM 06:00 PM				526	127	475	0	602	0	0	0	0	113	0	116	229	1,357
PEAK H	CHOUR FACTOR 0.				0.95				0.93				NA				0.69	0.97

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Madruga Avenue & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumuri	Street	t						Madruga	Aven	ue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:00 AM 07:15 AM	2	9	0	11	2	13	35	50	24	22	0	46	0	20	0	20	127
07:15 AM 07:30 AM	0	5	0	5	1	10	16	27	6	13	2	21	0	10	1	11	64
07:30 AM 07:45 AM	2	2	0	4	7	3	12	22	8	18	1	27	0	6	1	7	60
07:45 AM 08:00 AM	1	2	2	5	1	19	10	30	9	25	3	37	1	6	0	7	79
08:00 AM 08:15 AM	2	2	1	5	10	20	23	53	10	27	2	39	0	11	0	11	108
08:15 AM 08:30 AM	1	7	1	9	9	26	6	41	4	38	2	44	1	11	2	14	108
08:30 AM 08:45 AM	2	11	0	13	8	15	14	37	23	51	1	75	1	12	1	14	139
08:45 AM 09:00 AM	2	1	1	4	11	21	15	47	15	47	4	66	1	16	2	19	136

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

						Yumur	Stree	t						Madruga	a Aveni	ıe			
	TII	ME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
	INTERVAL		L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
07:0	00 AM	09:00 AM	6	20	3	28	25	64	66	155	50	122	8	179	2	46	4	52	415
PEA	K HOU	DUR FACTOR 0.6								0.84				0.75				0.76	0.88

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Madruga Avenue & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumuri	Street	t						Madruga	Aven	ue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM 04:15 PM	10	18	0	28	2	21	19	42	16	20	8	44	1	33	9	43	157
04:15 PM 04:30 PM	3	10	0	13	1	17	16	34	14	17	8	39	2	24	6	32	118
04:30 PM 04:45 PM	3	20	2	25	3	23	17	43	19	15	3	37	1	23	4	28	133
04:45 PM 05:00 PM	2	14	1	17	3	16	13	32	21	23	5	49	2	23	5	30	128
05:00 PM 05:15 PM	2	26	0	28	4	7	9	20	13	16	10	39	6	33	11	50	137
05:15 PM 05:30 PM	6	17	1	24	4	9	5	18	23	18	9	50	5	25	3	33	125
05:30 PM 05:45 PM	2	6	2	10	3	6	8	17	14	15	5	34	5	20	5	30	91
05:45 PM 06:00 PM	3	9	2	14	6	14	12	32	17	18	6	41	2	19	4	25	112

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Yumuri	Street	t						Madruga	a Aven	ue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	TBOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM 06:00 PM 16 61 4		80	13	57	50	120	69	72	27	168	12	101	24	137	506		
PEAK HOUR FACTOR	CHOUR FACTOR 0.7			0.74				0.88				0.86				0.77	0.85

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Venera Avenue & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumuri	Street	t						Venera	Avenu	е			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:00 AM 07:15 AM	7	31	0	38	0	41	9	50	13	0	3	16	0	0	0	0	104
07:15 AM 07:30 AM	1	61	0	62	0	38	3	41	6	0	7	13	0	0	0	0	116
07:30 AM 07:45 AM	3	26	0	29	0	22	1	23	4	0	0	4	0	0	0	0	56
07:45 AM 08:00 AM	3	31	0	34	0	43	4	47	3	0	0	3	0	0	0	0	84
08:00 AM 08:15 AM	2	46	0	48	0	52	2	54	10	0	11	21	0	0	0	0	123
08:15 AM 08:30 AM	7	93	0	100	0	53	5	58	5	0	9	14	0	0	0	0	172
08:30 AM 08:45 AM	3	70	0	73	0	43	2	45	8	0	7	15	0	0	0	0	133
08:45 AM 09:00 AM	3	34	0	37	0	48	3	51	7	0	3	10	0	0	0	0	98

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

						Yumur	Stree	t						Venera	Avenu	е			
	TII	ME		NORT	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
	INTERVAL		L	Т	R	TOTAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:	00 AM	09:00 AM	AM 15 198 0 213			213	0	172	15	186	28	0	20	48	0	0	0	0	447
PE	AK HOL	HOUR FACTOR 0.6				0.65				0.90				0.71				NA	0.76

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Venera Avenue & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumuri	Street	t						Venera	Avenu	е			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM 04:15 PM	7	101	0	108	0	63	6	69	8	0	20	28	0	0	0	0	205
04:15 PM 04:30 PM	2	63	0	65	0	57	4	61	4	0	13	17	0	0	0	0	143
04:30 PM 04:45 PM	9	85	0	94	0	63	5	68	8	0	14	22	0	0	0	0	184
04:45 PM 05:00 PM	6	76	0	82	0	69	8	77	7	0	15	22	0	0	0	0	181
05:00 PM 05:15 PM	8	97	0	105	0	87	7	94	7	0	8	15	0	0	0	0	214
05:15 PM 05:30 PM	6	96	0	102	0	69	7	76	6	0	2	8	0	0	0	0	186
05:30 PM 05:45 PM	6	69	0	75	0	56	7	63	8	0	7	15	0	0	0	0	153
05:45 PM 06:00 PM	7	50	0	57	0	67	5	72	6	0	9	15	0	0	0	0	144

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Yumur	Stree	t						Venera	Avenu	е			
TIME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 PM 06:00 PM	26	322	0	347	0	268	25	293	27	0	44	72	0	0	0	0	712
PEAK HOUR FACTOR	K HOUR FACTOR 0.			0.91				0.84				0.76				NA	0.89

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:San Remo Avenue & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumuri	i Street	i i					;	San Rem	o Aver	nue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:00 AM 07:15 AM	5	24	0	29	0	41	3	44	13	0	4	17	2	1	0	3	93
07:15 AM 07:30 AM	7	31	0	38	0	40	10	50	9	0	2	11	12	4	22	38	137
07:30 AM 07:45 AM	4	16	0	20	0	16	7	23	9	0	6	15	1	4	1	6	64
07:45 AM 08:00 AM	1	28	0	29	0	35	6	41	9	0	2	11	1	3	1	5	86
08:00 AM 08:15 AM	6	29	0	35	0	38	25	63	14	0	5	19	10	7	7	24	141
08:15 AM 08:30 AM	7	64	0	71	0	44	21	65	19	0	7	26	5	9	14	28	190
08:30 AM 08:45 AM	6	46	0	52	0	37	15	52	18	0	5	23	14	15	7	36	163
08:45 AM 09:00 AM	4	25	0	29	0	35	19	54	14	0	10	24	4	5	2	11	118

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Yumuri	Stree	t					;	San Rem	o Aver	nue			
TIME						SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	E I K		R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
07:00 AM 09:00 AM	20	133	0	153	0	144	54	198	53	0	21	74	25	24	27	76	501
PEAK HOUR FACTOR								0.90				0.88				0.69	0.81

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:San Remo Avenue & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumur	Street	t					;	San Rem	o Aver	nue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM 04:15 PM	2	60	0	62	0	61	24	85	38	0	28	66	5	14	7	26	239
04:15 PM 04:30 PM	11	34	0	45	0	47	27	74	26	0	27	53	16	15	6	37	209
04:30 PM 04:45 PM	7	49	0	56	0	55	25	80	36	0	29	65	11	21	13	45	246
04:45 PM 05:00 PM	5	40	0	45	0	65	21	86	32	0	33	65	4	19	4	27	223
05:00 PM 05:15 PM	6	60	0	66	0	40	40	80	41	0	37	78	7	14	5	26	250
05:15 PM 05:30 PM	11	41	0	52	0	60	28	88	57	0	31	88	6	10	8	24	252
05:30 PM 05:45 PM	8	42	0	50	0	45	15	60	29	0	30	59	10	14	9	33	202
05:45 PM 06:00 PM	8	21	0	29	0	52	18	70	31	0	20	51	14	17	6	37	187

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

					Yumur	Stree	t					;	San Rem	o Aver	ue			
TI	TIME NORTHBOUND				D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUNE)	GRAND
INTE	INTERVAL		T	R	TOTAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM	:00 PM 06:00 PM 29 175 0 205		205	0	215	100	315	146	0	119	265	37	63	29	129	913		
PEAK HOU	K HOUR FACTOR 0.8			0.83				0.95				0.84				0.68	0.96	

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Sunset Drive & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumuri	i Street	t						Sunse	t Drive	!			
TIME		NORT	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:00 AM 07:15 AM	0	0	0	0	8	0	25	33	18	79	0	97	0	38	4	42	172
07:15 AM 07:30 AM	0	0	0	0	19	0	27	46	16	122	0	138	0	51	4	55	239
07:30 AM 07:45 AM	0	0	0	0	4	0	24	28	16	105	0	121	0	49	3	52	201
07:45 AM 08:00 AM	0	0	0	0	10	0	26	36	21	111	0	132	0	76	10	86	254
08:00 AM 08:15 AM	0	0	0	0	14	0	23	37	25	145	0	170	0	96	13	109	316
08:15 AM 08:30 AM	0	0	0	0	18	0	25	43	39	142	0	181	0	99	33	132	356
08:30 AM 08:45 AM	0	0	0	0	12	0	33	45	28	96	0	124	0	118	20	138	307
08:45 AM 09:00 AM	0	0	0	0	14	0	27	41	24	128	0	152	0	102	8	110	303

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

						Yumur	Stree	t						Sunse	t Drive	!			
	TII	TIME NORTHBOUND						SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
	INTERVAL		L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:	00 AM	09:00 AM	AM 0 0 0 0			0	50	0	106	156	94	469	0	563	0	318	48	366	1,085
PE	AK HOL	HOUR FACTOR NA				NA				0.92				0.87				0.89	0.90

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Sunset Drive & Yumuri StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Yumuri	Street	t						Sunse	t Drive	!			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	TBOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	Т	R	TOTAL	L	T	R	TOTAL	TOTAL
04:00 PM 04:15 PM	0	0	0	0	38	0	68	106	35	94	0	129	0	87	14	101	336
04:15 PM 04:30 PM	0	0	0	0	39	0	38	77	24	82	0	106	0	73	15	88	271
04:30 PM 04:45 PM	0	0	0	0	48	0	35	83	34	80	0	114	0	76	19	95	292
04:45 PM 05:00 PM	0	0	0	0	50	0	30	80	39	96	0	135	0	48	9	57	272
05:00 PM 05:15 PM	0	0	0	0	37	0	26	63	43	100	0	143	0	47	8	55	261
05:15 PM 05:30 PM	0	0	0	0	63	0	49	112	33	89	0	122	0	75	10	85	319
05:30 PM 05:45 PM	0	0	0	0	47	0	41	88	27	103	0	130	0	89	15	104	322
05:45 PM 06:00 PM	0	0	0	0	48	0	36	84	19	84	0	103	0	83	10	93	280

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Yumuri	Street	t						Sunse	t Drive	!			
TIME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 PM 06:00 PM 0 0		0	0	187	0	163	350	128	368	0	496	0	292	51	342	1,188	
PEAK HOUR FACTOR	K HOUR FACTOR NA							0.77				0.87				0.81	0.92

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:San Remo Avenue & Nervia StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Nervia	Street						;	San Rem	o Aver	nue			
TIME		NORTI	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	TOTAL
07:00 AM 07:15 AM	8	13	0	21	3	12	2	17	0	0	0	0	2	6	0	8	46
07:15 AM 07:30 AM	15	11	3	29	3	18	23	44	0	0	0	0	3	18	1	22	95
07:30 AM 07:45 AM	4	21	5	30	4	15	4	23	0	0	0	0	3	3	0	6	59
07:45 AM 08:00 AM	10	13	7	30	0	9	12	21	0	0	0	0	1	3	5	9	60
08:00 AM 08:15 AM	7	30	14	51	8	37	23	68	0	0	0	0	6	11	3	20	139
08:15 AM 08:30 AM	22	63	12	97	7	47	28	82	0	0	0	0	14	11	9	34	213
08:30 AM 08:45 AM	6	41	13	60	6	11	9	26	0	0	0	0	4	19	6	29	115
08:45 AM 09:00 AM	3	37	4	44	10	10	4	24	0	0	0	0	2	6	1	9	77

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Nervia	Street						,	San Rem	o Aver	ue			
TIME		NORT	HBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	L T R TOTAL				Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
07:00 AM 09:00 AM	38	116	29	183	21	80	53	154	0	0	0	0	18	39	13	69	406
PEAK HOUR FACTOR				0.65				0.61				NA				0.68	0.64

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:San Remo Avenue & Nervia StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Nervia	Street						;	San Rem	o Aver	ue			
TIME		NORTI	IBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	IBOUNE)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 PM 04:15 PM	16	23	9	48	2	26	13	41	0	0	0	0	18	16	4	38	127
04:15 PM 04:30 PM	10	23	4	37	6	24	7	37	0	0	0	0	28	23	12	63	137
04:30 PM 04:45 PM	16	32	3	51	5	16	7	28	0	0	0	0	9	25	8	42	121
04:45 PM 05:00 PM	8	25	3	36	9	22	3	34	0	0	0	0	6	17	4	27	97
05:00 PM 05:15 PM	10	27	1	38	6	24	4	34	0	0	0	0	5	14	5	24	96
05:15 PM 05:30 PM	10	21	3	34	7	30	2	39	0	0	0	0	10	14	3	27	100
05:30 PM 05:45 PM	5	18	9	32	3	20	2	25	0	0	0	0	16	24	6	46	103
05:45 PM 06:00 PM	6	15	2	23	3	26	10	39	0	0	0	0	12	24	5	41	103

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Nervia	Street						;	San Rem	o Aver	ue			
TIME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	TBOUND)		WEST	TBOUND)	GRAND
INTERVAL	INTERVAL L T R TOTA			TOTAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 PM 06:00 P	И 41	93	17	151	21	95	24	140	0	0	0	0	53	79	24	156	446
PEAK HOUR FACTO	R			0.84				0.85				NA				0.67	0.88

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Sunset Drive & Nervia StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Nervia	Street							Sunse	t Drive	!			
TIME		NORTI	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	L	Т	R	TOTAL	L	T	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
07:00 AM 07:15 AM	0	0	0	0	6	0	10	16	16	73	0	89	0	38	3	41	146
07:15 AM 07:30 AM	0	0	0	0	9	0	11	20	18	126	0	144	0	50	10	60	224
07:30 AM 07:45 AM	0	0	0	0	6	0	9	15	30	90	0	120	0	46	13	59	194
07:45 AM 08:00 AM	0	0	0	0	5	0	15	20	35	93	0	128	0	71	10	81	229
08:00 AM 08:15 AM	0	0	0	0	6	0	31	37	59	106	0	165	0	77	27	104	306
08:15 AM 08:30 AM	0	0	0	0	4	0	54	58	97	92	0	189	0	62	32	94	341
08:30 AM 08:45 AM	0	0	0	0	3	0	33	36	36	83	0	119	0	93	22	115	270
08:45 AM 09:00 AM	0	0	0	0	4	0	11	15	32	117	0	149	0	99	12	111	275

AM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Nervia	Street							Sunse	t Drive	!			
TIME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	INTERVAL L T R TOTA			TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
07:00 AM 09:00 AM	0	0	0	0	22	0	88	110	163	394	0	557	0	271	65	336	1,002
PEAK HOUR FACTOR				NA				0.63				0.82				0.92	0.87

TURNING MOVEMENT COUNTS

Project Name:VeneraProject Number:16216Location:Sunset Drive & Nervia StreetCount Date:9/22/2016Observer:Traffic Survey Specialists, Inc.Day of Week:Thursday

				Nervia	Street							Sunse	t Drive	!			
TIME		NORTI	IBOUN	D		SOUTI	HBOUN	D		EAST	BOUND)		WEST	IBOUNE)	GRAND
INTERVAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 PM 04:15 PM	0	0	0	0	11	0	24	35	21	85	0	106	0	78	20	98	239
04:15 PM 04:30 PM	0	0	0	0	22	0	31	53	12	84	0	96	0	59	9	68	217
04:30 PM 04:45 PM	0	0	0	0	15	0	18	33	15	85	0	100	0	81	26	107	240
04:45 PM 05:00 PM	0	0	0	0	15	0	9	24	16	101	0	117	0	52	15	67	208
05:00 PM 05:15 PM	0	0	0	0	8	0	17	25	16	71	0	87	0	47	21	68	180
05:15 PM 05:30 PM	0	0	0	0	8	0	10	18	6	87	0	93	0	55	14	69	180
05:30 PM 05:45 PM	0	0	0	0	9	0	21	30	18	96	0	114	0	75	14	89	233
05:45 PM 06:00 PM	0	0	0	0	15	0	23	38	12	89	0	101	0	89	8	97	236

PM PEAK PERIOD TURNING MOVEMENT COUNT SUMMARY ANNUAL AVERAGE DAILY TRAFFIC CONDITIONS

				Nervia	Street							Sunse	t Drive	!			
TIME		NORT	HBOUN	D		SOUT	HBOUN	D		EAST	BOUND)		WEST	BOUND)	GRAND
INTERVAL	INTERVAL L T R TOTA			TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	L	Т	R	TOTAL	TOTAL
04:00 PM 06:00 PM	0	0	0	0	52	0	77	129	59	352	0	411	0	271	64	335	875
PEAK HOUR FACTOR				NA				0.68				0.90				0.79	0.94

SAN REMO AVENUE & RED ROAD CORAL GABLES, FLORIDA COUNTED BY: ARIEL PEREZ

SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 57AVSANR

Page : 1

	ROAD				SAN REMO		Ξ		RED ROAL				SUNSET				
Fro	om Nor	th			From Eas	3t			From Sou	uth			From Wes	st		1	
נט:	rurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Tota
Date 09/22,	/16					- -					-						
07:00	0	27	120	0	0	12	0	4	0	0	119	17	0	0	0	5	30
07:15	1	16	113	0	0	6	0	8	0	0	100	21	0	2	3	5	27
07:30	0	23	128	0	0	8	0	5	0	0	73	24	0	0	0	1	26
07:45	0	29	141	0_	1 0	3	0	5_	0	0	141	25	0	2	1	5	35
Hr Total	1	95	502	0	0	29	0	22) 0	0	433	87	0	4	4	16	119
08:00	0	37	154	0	0	7	0	9	0	0	131	28	1 0	2	1	5	37
08:15	1	26	124	0	0	5	0	18	0	0	142	36	0	2	0	8	36
08:30	0	41	131	0	1	26	0	20	0	0	143	39	0	0	2	3	40
08:45	1	48	123	0	0	13	0	18	0	0	132	34	0	3	2	10	38
Hr Total	2	152	532	0	1	51	0	65	0	0	548	137	0	7	5	26	152
	* BRE	ZAK * -					-	· 	-		- -			-			
16:00	0	23	145	0	0	47	0	28	0	0	101	21	0	3	2	7	37
16:15	0	21	119	. 0	0	45	0	39	0	0	86	17	0	1	1	9	33
16:30	0	24	134	0	0	55	0	39	0	0	90	22	0	1	1	20	38
16:45	0	31	142	0	0	49	0	31	0	0	110	14	0	2	3	13	39
Hr Total	0	99	540	0	0	196	0	137	0	0	387	74	0	7	7	49	149
17:00	0	20	115	0	0	64	0	35	1	0	91	12	j 0	4	2	12	35
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17:45	1	16	133	0	1 0	37	0	30	1 0	0	101	22	0	5	6	6	35
Hr Total	1	71	476	0	0	216	0	119	2	0	398	79	0	22	18	41	144
																	

SAN REMO AVENUE & RED ROAD
CORAL GABLES, FLORIDA
COUNTED BY: ARIEL PEREZ
SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 57AVSANR

Page : 2

					ALL V	EHICLES								
RED ROAD From North		SAN REMO From East				RED ROAI From Sou				SUNSET P				
UTurn Left	_	 UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Total
Date 09/22/16 Peak Hour Analysis By			the De		07.00 =		n 09/2	2/16						
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TRAFFIC SURVEY SPECIALISTS, INC.

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

SAN REMO AVENUE & RED ROAD

CORAL GABLES, FLORIDA

SIGNALIZED

COUNTED BY: ARIEL PEREZ

Site Code : 00160208 Start Date: 09/22/16

File I.D. : 57AVSANR Page : 3

	D ROAL				SAN REMO		E		RED ROAL				SUNSET P				
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Date 09/22	•											-					
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SAN REMO AVENUE & RED ROAD CORAL GABLES, FLORIDA COUNTED BY: ARIEL PEREZ

SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.

85 SE 4TH AVENUE, UNIT 109

DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 57AVSANR

age : 1

PEDESTRIANS & BIKES

	ED ROA				SAN REM		E		RED ROA				SUNSET From We				
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	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Total
Date 09/2	2/16 -								-								
07:00	0	1	0	48	0	2	0	0	0	1	0	15	0	2	0	0	69
07:15	0	0	0	10	0	2	0	2	0	0	0	12	0	0	0	1	27
07:30	0	0	0	5	0	1	0	0	0	. 0	0	9	0	0	0	0	19
07:45	0	0	0	7	0	0	0	4	0	0	0	19	0	0	0	4	34
Hr Total	0	1	0	70	0	5	0	6	0	1	0	55	0	2	0	5	145
08:00	0	0	0	5	0	0	0	1	0	0	0	16	0	1	0	4	27
08:15	0	0	0	3	0	1	0	3	0	0	0	9	0	0	0	2	18
08:30	0	0	0	4	0	1	0	3	0	0	0	11	0	1	0	1	2
08:45	0	0	0	5	0	0	0	0	0	0	0	8	0	0	0	5	18
Hr Total	0	0	0	17	0	2	0	7	0	0	0	44	0	2	0	12	84
	- * BR	EAK * -															
16:00	0	1	0	9	0	0	0	7	0	0	0	14	0	0	0	4	35
16:15	0	0	0	15	0	2	0	3	0	0	0	10	0	1	0	3	34
16:30	0	1	0	7	0	0	0	4	0	0	0	11	0	1	0	2	26
16:45	0	0	0	18	0	2	00	3	0	2	0	3	1 0	2	0	2	32
Hr Total	0	2	0	49	0	4	0	17	0	2	0	38	0	4	0	11	12
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17:30	0	0	0	4	0	0	0	1	0	0	0	3	0	0	0	0	1
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Coral Gables, Florida
July 15,2014
drawn by: Luis Palomino
Signalized

MADRUGA AVENUE & RED ROAD
CORAL GABLES, FLORIDA
COUNTED BY: ROLANDO MARTINEZ

NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16

File I.D. : 57AVMADR

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RED ROAD From North					MADRUGA From Eas				RED ROA		-		 From We:	 			
τ	JTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Total
Date 09/22	2/16	- -															-
07:00	0	62	125	0	0	22	0	32	0	0	86	33	0	0	0	0	360
07:15	0	30	113	0	0	19	0	18	0	0	91	22	0	0	0	0	293
07:30	1	29	145	0	0	14	0	9	1	0	58	20	0	0	0	0	277
07:45	1	23_	159	0	0	14	0	10	0	0	116	29	0	0	0_	0	352
Hr Total	2	144	542	0	0	69	0	69	1	0	351	104	0	0	0	0	1282
08:00	1	41	154	0	0	30	0	13	0	0	101	36	0	0	0	0	376
08:15	0	42	135	0	0	10	0	23	1	0	102	40	0	0	0	0	353
08:30	1	51	154	0	0	18	0	21	2	0	142	44	0	0	0	0	433
08:45	0	36	167	0] 0	17	0	16	1	0	102	53	0	0	0	0	392
Hr Total	2	170	610	0	0	75	0	73	4	0	447	173	0	0	0	0	1554
	- * BRI	EAK * -				- -											
16:00	1	24	107	0	0	45	0	39	1	0	95	27	1 0	0	0	0	339
16:15	0	37	133	0	0	29	0	27	1	0	114	16	0	0	0	0	357
16:30	1	38	127	0	0	20	0	30	1	0	112	18	0	0	0	0	347
16:45	0	23	139	0	0	19	0	22	0	0	121	17	0	0	0	0	341
Hr Total	2	122	506	0	0	113	0	118	3	0	442	78	0	0	0	0	1384
17:00	0	33	101	0	0	26	0	25	1	0	100	12	0	0	0	0	298
17:15	0	36	98	0	0	36	0	25	0	0	117	28	0	0	0	0	340
17:30	2	30	123	0	0	25	0	39	0	0	111	23	0	0	0	0	353
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TRAFFIC SURVEY SPECIALISTS, INC.

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

COUNTED BY: ROLANDO MARTINEZ

CORAL GABLES, FLORIDA

MADRUGA AVENUE & RED ROAD

NOT SIGNALIZED

PHONE (561)272-3255

Start Date: 09/22/16 File I.D. : 57AVMADR Page : 2

Site Code : 00160208

			ALL V	EHICLES								
RED ROAD From North	MADRUGA From Eas			RED ROAL				 From Wes	t			
UTurn Left Thru	Right UTurn	Left Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Total
Date 09/22/16												
Peak Hour Analysis By Entire			07:00 to			2/16						ı
Peak start 08:00	08:00			08:00			1.00	08:00		0	•	
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MADRUGA AVENUE & RED ROAD
CORAL GABLES, FLORIDA
COUNTED BY: ROLANDO MARTINEZ
NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 57AVMADR

age : 3

									EHICLES								
RED ROAD MADRUGA AVENUE								RED ROAL]		
From North			From Eas			From Son	uth			From Wes	t	l					
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olume	0	37	133	0	0	45	0	39	0	0	121	17	0	0	0	0	
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TRAFFIC SURVEY SPECIALISTS, INC.

MADRUGA AVENUE & RED ROAD

CORAL GABLES, FLORIDA
COUNTED BY: ROLANDO MARTINEZ

NOT SIGNALIZED

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

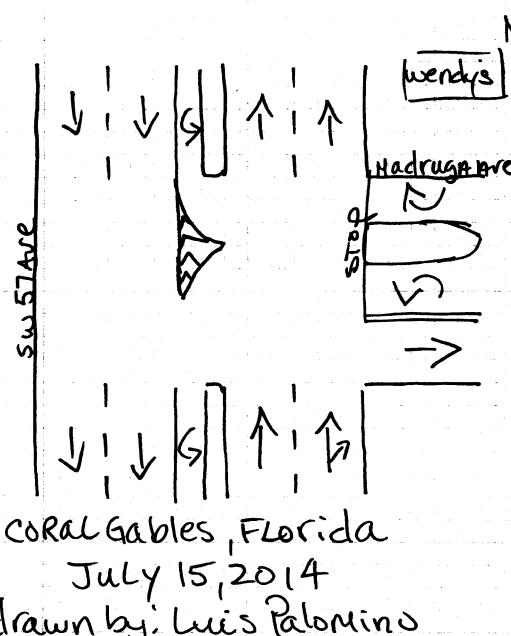
Site Code : 00160208 Start Date: 09/22/16

File I.D. : 57AVMADR
Page : 1

PEDESTRIANS & BIKES

	RED ROA From No				MADRUGA From Ea				RED ROA				 From We	 			
ate 09/2		BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Tota
ace 09/2	22/10 -																
7:00	0	0	0	0	0	1	0	0	0	0	0	0	ļ 0	0	0	0	
7:15	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
7:30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
7:45	0	0	0	0	0	2	0	0	0	0	0	0	0	0	. 0	0	
r Total	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	
8:00	0	0	0	0	0	1	0	3	0	0	0	1	0	0	0	0	
8:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:30	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
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6:30	0	0	0	0	0	1	0	6	0	1	0	0	0	0	0	0	
6:45	0	0	0	2	0	0	0	2	0	0	0	1	0	0	0	0	
r Total	0	0	0	2	0	3	0	10	0	1	0	3	0	0	0	. 0	1
7:00	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	
7:15	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	
7:30	0	0	0	2	0	1	0	4	0	1	0	2	0	0	0	0	1
7:45	0	0	00	2	0	0	0	0	0	0	0	0	0	0	0	0	
r Total	0	0	0	4	0	1	0	12	0	1	0	3	1 0	0	0	0	2

TOTAL 0 0 0 6 0 11 0 26 0 2 0 7 0 1 0 0 53



drawn by: Luis Palomins not signalized

MADRUGA AVENUE & YUMURI STREET

COUNTED BY: AMBER PALOMINO

CORAL GABLES, FLORIDA

NOT SIGNALIZED

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Start Date: 09/22/16

File I.D. : MADRYUMU

Site Code : 00160208

Page : 1

Y	UMURI S	STREET			MADRUGA	AVENUE			YUMURI	STREET			MADRUGA	AVENUE			
F	rom No	rth			From Eas	st			From So	uth			From We	st			
,	I III	Left	(The seaso	Right	 UTurn	Left	(Tile see s	Right	 UTurn	Left	(The second	Diabt	 UTurn	Left	Thru	 Right	Tota]
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07:15	1	6	3	12	1 0	0	6	1 1	1 0	2	2	0	1 0	8	18	1	60
07:30 07:45	0	1	3 19	10	1 0	1	6	0] 0 0	1	2	2		9	18 25	3	79
Hr Total	1	10	45	73		1	42	2		4	18	2		47	78	6	330
08:00	0	10	20	23	0	0	11	0	0	2	2	1	0	10	27	2	108
08:15	0	9	26	6	0	1	11	2	0	1	7	1	0	4	38	2	108
08:30	0	8	15	14	0	1	12	1	0	2	11	0	1	22	51	1	139
08:45	0	11	21	15	0	1	16	2	0	2	1	1	0	15	47	4	136
Hr Total	0	38	82	58	0	3	50	5	0	7	21	3	1	51	163	9	491
	- * BRI	EAK * -															
16:00	0	2	21	19	0	1	33	9	0	10	18	0	1	15	20	8	157
16:15	0	1	17	16	0	2	24	6	0	3	10	0	0	14	17	8	118
16:30	0	3	23	17	0	1	23	4	0	3	20	2	0	19	15	3	133
16:45	. 0	3	16	13	0	2	23	5	0	2	14	1	0	21	23	5	128
Hr Total	0	9	77	65	0	6	103	24	0	18	62	3	1	69	75	24	536
17:00	0	4	7	9	0	6	33	11	0	2	26	0	0	13	16	10	137
17:15	0	4	9	5	0	5	25	3	0	6	17	1	0	23	18	9	125
17:30	0	3	6	8	0	5	20	5	0	2	6	2	•	14	15	5	91
17:45	0	6	14	12	0	2	19	4		. 3	9	2		17	18	6	112
Hr Total	0	17	36	34	0	18	97	23	0	13	58	5	0	67	67	30	465
TOTAL	1	74	240	230	l 0	28	292	54	1	42	159	13	2	234	383	69	1822

MADRUGA AVENUE & YUMURI STREET
CORAL GABLES, FLORIDA
COUNTED BY: AMBER PALOMINO
NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code: 00160208 Start Date: 09/22/16 File I.D.: MADRYUMU

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						ALL V	EHICLES								
YUMURI STRE From North	ET		DRUGA F				YUMURI S				MADRUGA From Wes				
UTurn Le						Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	Total
Date 09/22/16														+	
Peak Hour Analysis Peak start 08:00	By Entire	Intersecti	on for .00.	the Pe	eriod:	07:00 t	O 09:00 C		2/16		08:00			ı	
	38 82	58	08:00	3	50	5	•	, 7	21	3	•	51	163	9	
	1% 46%	33%	0%	- 5%	86%	98		23%	68%	10%	•	23%	73%	4%	
Pk total 178		i	58				31				224				
Highest 08:00		j	08:45				08:30)			08:30			ĺ	
Volume 0	10 20	23	0	1	16	2	0	2	11	0	1	22	51	1	
Hi total 53			19				13				75				
PHF .84			.76				.60				.75				
				Y	UMUR	I ST	REET				1				
	•	0 -	58		82		38		52 21 5						
														•	0
		0	58		82	:	38		78				0		
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MADROGA AVE	NOE												5		
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	163	224			Inte	rsec	tion '	Tota:	1	1					38
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MADRUGA AVENUE & YUMURI STREET

CORAL GABLES, FLORIDA

NOT SIGNALIZED

COUNTED BY: AMBER PALOMINO

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : MADRYUMU

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						ALL V	EHICLES								
YUMURI STREET From North	r		MADRUGA From Eas				YUMURI S				MADRUGA From Wes				
UTurn Left			 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Total
Peak Hour Analysis By			ation for	the De	riod.	16:00 +	o 18.00 c	n 09/2	2/16						
Peak start 16:00	Encire	Incersed	16:00		erroa:	16:00 6	16:00		2/10		16:00				l
	9 77	65	•	6	103	24	•	18	62	3		69	75	24	!
Percent 0% 69		43%	!	5%	77%	18%	,	22%	75%	4%	1%	41%	44%	14%	
Pk total 151			133				83				169				
Highest 16:30			16:00				16:00)			16:45				
Volume 0	3 23	17	0	1	33	9	0	10	18	0	0	21	23	5	
Hi total 43			43				28				49				
PHF .88		ĺ	.77				.74				.86				
				Y	UMUF	RI ST	REET								
	•	0 -	65		77	7 -	9		70 62 24						0
		0	65		77	7	9		 156				0	•	0
				1	51		"								
MADRUGA AVEN	UE					-	307 -				ſ	2	24	•	24
18					• AT	J. VE	HICLE	S							
103 65	186				211						133	10		• 1	03
- 70	70	 													
	70		3	55					22	0			6	•	6
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75	75	16 I	9		Inte		tion ' 536	Tota	1		_	8	37		9 75 3
• 24	24	-					100				 Mad	RUG	A AVE	ENUE	5
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• 0							1	Ų.	Ī		1				
	0				77 24	[,]]]	18	•	62	•	3 •		0		
					107	·	18		62		3		0		
				Y	UMUR	 RI ST	REET								

MADRUGA AVENUE & YUMURI STREET

COUNTED BY: AMBER PALOMINO

CORAL GABLES, FLORIDA

NOT SIGNALIZED

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : MADRYUMU

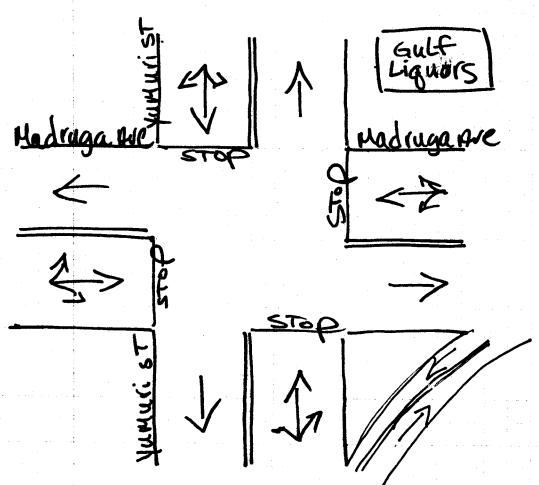
ie i.D. : MADRIC

60

PEDESTRIANS & BIKES

	MURI om No	STREET rth			MADRUGA				YUMURI				MADRUGA From We		i		
					İ												m - + - 3
		BIKES		Peds	,	BIKES	-		Left		•	Peds	Left	BIKES	Right	Peds	Total
Date 09/22	/16 -																
07:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:15	0	0	0	1	0	0	. 0	1	0	0	0	0	0	1	0	0	3
07:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
07:45	0	0	0	1_	<u> </u>	0	0	1	0	. 0	0	0	1 0	0	0	1	3
Hr Total	0	0	0	3	0	0	0	2	0	0	0	0	0	1	0	2	8
08:00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:15	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	3
08:30	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
08:45	0_	0	0	0	0	0	0	0	0	0	0	111	0	0	. 0	0_	1
Hr Total	0	0	0	2	0	0	0	0	0	0	0	5	0	0	0	0	-
	* BR	EAK * -															
16:00	0	0	0	1	0	0	0	4	0	0	0	4	0	0	0	1	10
16:15	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
16:30	0	0	0	3	1 0	0	0	2	0	0	0	4	0	0	0	0	9
16:45	0	0	0	0] 0	0	0	0	0	0	0	0	0	0	0	0	(
Hr Total	0	1	0	4	0	0	0	7	0	0	0	8	0	0	0	1	2
17:00	0	0	0	3	0	0	0	1	0	2	0	2	0	0	0	1	9
17:15	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0	1	
17:30	0	0	0	2	0	0	0	1	0	1	0	4	1 0	0	0	0	8
17:45	.0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	
Hr Total	0	0	0	5	0	0	0	5	0	5	0	7	0	0	0	2	24

TOTAL 0 1 0 14 | .0 0 0 14 | 0 5 0 20 | 0 1 0 5 |



Coral Gable Florida
July 15,2014
drawn by: Luis Palomino
notsignalized

VENERA AVENUE & YUMURI STREET CORAL GABLES, FLORIDA COUNTED BY: CRISTINA PALOMINO

NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.

85 SE 4TH AVENUE, UNIT 109

DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16

File I.D. : VENEYUMU
Page : 1

ALL VEHICLES

	YUMURI S	STREET							YUMURI	STREET			VENERA	AVENUE			
	From No	rth			From Eas	st			From So	uth			From We	st		I	
	UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	Total
Date 09					' 				, 		- -		· 		 -		
07:00	0	0	41	9	0	0	0	0	0	7	31	0	0	13	0	3	104
07:15	0	0	38	3	0	0	0	0	0	1	61	0	0	6	0	7	116
07:30	0	0	22	1	0	0	0	0	0	3	26	0	0	4	0	0	56
07:45	0	0	43	4	0	0	0	0	1	2	31	0	0	3	0	0	84
Hr Tota	1 0	0	144	17	0	0	0	0	1	13	149	0	0	26	0	10	360
08:00	1	0	51	2	0	0	0	0	0	2	46	0	0	10	0	11	123
08:15	0	0	53	5	0	0	0	0	0	7	93	. 0	1	5	0	9	172
08:30	0	0	43	2	0	0	0	0	0	3	70	0	0	8	0	7	133
08:45	0	0	48	3	0	0	0	0	0	3	34	0	0	7	0	3	98
Hr Tota	1 1	0	195	12	0	0	0	0	0	15	243	0	0	30	0	30	526
	* BRI	EAK * -															
16:00	0	0	63	6	l 0	0	0	0	1 0	7	101	0	1 0	8	0	20	205
16:15	0	0	57	4	,	0	0	0	0	2	63	0		4	0	13	143
16:30	0	0	63	5	1 0	0	0	0	. 0	9	85	0		8	0	14	184
16:45	0	0	69	8	l 0	0	0	0	0	6	76	0		7	0	15	181
Hr Tota	1 0	0	252	23	0	0	0	0		24	325	0		27	0	62	713
																1	
17:00	0	0	87	7	0	0	0	0	1 0	8	97	0	0	7	0	8	214
17:15	0	0	69	7	0	0	0	0	. 0	6	96	0	0	6	0	2	186
17:30	0	0	56	7	0	0	0	0		6	69	0	1 0	8	0	7	153
17:45	0	0	67	5	. 0	0	0	0		7	50	0	. 0	6	0	9	144
Hr Tota	1 0	0	279	26	0	0	0	0	0	27	312	0	0	27	0	26	697
									-								
TOTAL	1	0	870	78	0	0	0	0	1	79	1029	0	0	110	0	128	2296

\

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

VENERA AVENUE & YUMURI STREET

CORAL GABLES, FLORIDA COUNTED BY: CRISTINA PALOMINO

NOT SIGNALIZED

Site Code : 00160208 Start Date: 09/22/16 File I.D. : VENEYUMU

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								EHICLES								
YUMURI S				 From Eas	st			YUMURI S				VENERA #				
UTurn	Left	Thru	Right.	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 Tota
Date 09/22/16																
eak Hour Analys	is By	Entire	Interse	ction for	the P	eriod:	07:00 t	0 09:00	on 09/2	2/16						
eak start 08:00				08:00				08:00				08:00				
olume 1	0	195	12		0	0	0	,	15	243	0	0	30	0	30	l i
ercent 0%	0%	94%	6%		0%	0%	0%	'	6%	94%	0%	0% 60	50%	0%	50%	
k total 208 ighest 08:15				0 07:00	,			258 08:1	=			08:00	1			
ighest 08:15 olume 0	0	53	5 -	'	,	0	0	'	, 7	93	0	•	10	0	11	I
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			ı	,	Y	UMUF	RI ST	REET				ı				
	•		0	12	•	195	5 •	1		30 243 0						
			-	. – – – –	.		-								•	0
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JENERA AVI	יון וואי			L			_	481				Γ		0	•	U
ENEKA AVI	711017													O		
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												-				
			į			ZUMUF		REET								

VENERA AVENUE & YUMURI STREET CORAL GABLES, FLORIDA COUNTED BY: CRISTINA PALOMINO

NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : VENEYUMU

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		ALL V	/EHICLES						
YUMURI STREET From North	 From East		YUMURI ST			VENERA AV From West			
UTurn Left Thru			 UTurn	Left T	hru Right	UTurn	Left Thru	Right	Total
Date 09/22/16 Peak Hour Analysis By Entire			-0 18.00 0	n 09/22/1					
Peak start 16:30	16:30	ne reliou. 10.00 t	16:30	1 05,22,1	.0	16:30			1
Volume 0 0 288	27 0	0 0 0	•	29	354 0	. 0	28 0	39	
Percent 0% 0% 91%	9% 0%	0% 0% 0%	0%	8%	92% . 0%	0%	42% 0%	58%	
Pk total 315	0		383			67			
Highest 17:00	07:00		17:00			16:30			
Volume 0 0 87 Hi total 94	7 0	0 0 0	0 105	8	97 0	0 22	8 0	14	
PHF .84	.0		.91			.76			
		YUMURI ST	REET						
•	0 27	· 288 ·	0	35					
					0 - -			•	0
	0 27	288	0	38	32		0		
		315 —	"						
VENERA AVENUE	L		697 -			Ī	0	•	0
29		· ALL VE	EHICLES	5					
0 56 27						0	0	•	0
	_					1			
· 28]							•	0
20	12	3			0		0		Ū
• 0					ı	L			
0	67	Intersec	tion T	Cotal					0
			765				0		0
	-								0
· 39									
39			710 -						
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. 0									
0		3.00 ⋅	29	35	94 •	0 .	0		
		288 39							
		327	29	35	54	0	0		
		YUMURI SI	REET						

VENERA AVENUE & YUMURI STREET CORAL GABLES, FLORIDA

COUNTED BY: CRISTINA PALOMINO

NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

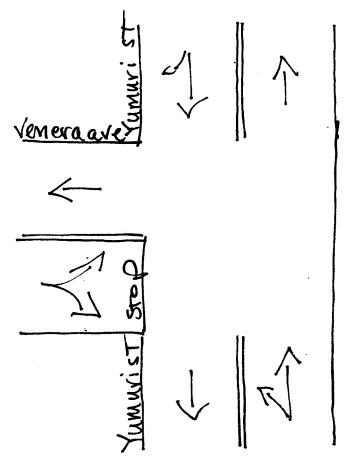
PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : VENEYUMU

Page : 1

PEDESTRIANS & BIKES

	YUMURI From No				 From Ea	ıst			YUMURI				VENERA From We			1	
Date 09/		BIKES	_	Peds	 Left 	BIKES	Right	Peds	 Left	BIKES	Right	Peds	 Left	BIKES	Right	Peds	Total
07:00	0	0	0	0	1 0	0	0	0	1 0	0	0	1	0	0	0	0	1
07:15	0	0	0	0	. 0	0	0	0	1 0	0	0	0	1 0	0	0	2	2
07:30	0	0	0	0	0	0	0	0	1 0	0	0	0	0	0	0	1	1
07:45	0	0	0	0		0	0	0		0	0	0		0	0	0	c
Hr Total	. 0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	4
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
08:15	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	2	7
08:30	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	1	4
08:45	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	C
Hr Total	. 0	0	0	0	0	0	0	0	0	0	0	7	0	1	0	3	11
	* BR	EAK * -								-							
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
16:15	0	0	0	1	0	0	0	0	0	0	0	4	0	1	0	6	12
16:30	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	1	٤
16:45	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3
Hr Total	0	0	0	3	0	0	0	0	0	0	0	12	0	2	0	7	24
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
17:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
17:45	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	
Hr Total	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	3	. 5
TOTAL	0	0	0	3	0	0	0	0	0	0	0	21	0	4	0	16	44



CoracGables, Florida Jeflember 22, 2016 drawn by his Palomino Not signalized

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

SAN REMO AVENUE & YUMURI STREET CORAL GABLES, FLORIDA COUNTED BY: LUIS PALOMINO

NOT SIGNALIZED

Start Date: 09/22/16

File I.D. : SANRYUMU

Site Code : 00160208

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	UMURI S				SAN REMO		E		YUMURI				SAN REM		E	1	
r	rom No	rtn			From Eas	3 C			From So	ucn			FION WE	BL		l I	
τ	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Total
Date 09/22	2/16																
07:00	0	0	41	3	0	2	1	0	0	5	24	0	0	13	0	4	93
07:15	0	0	40	10	0	12	4	22	0	7	31	0	0	9	0	2	137
07:30	0	0	16	7	0	1	4	1	0	4	16	0	0	9	0	6	64
07:45	0	0	35	6	0	1	3	1	1 0	1	28	0	0	9	0	2	86
Hr Total	0	0	132	26	0	16	12	24	0	17	99	0	0	40	0	14	380
08:00	0	0	38	25	0	10	7	7	0	6	29	0	0	14	0	5	141
08:15	0	0	44	21	0	5	9	14	0	7	64	0	0	19	0	7	190
08:30	0	0	37	15	0	14	15	7	0	6	46	0	0	18	0	5	163
08:45	. 0	0	35	19	0	4	5	. 2	0	4	25	0	0	14	0	10	118
Hr Total	0	0	154	80	0	33	36	30	0	23	164	0	0	65	0	27	612
	- * BRI	EAK * -				 -		·							-		
16:00	0	0	61	24	0	5	14	7	0	2	60	0	0	38	0	28	239
16:15	0	0	47	27	0	16	15	6	0	11	34	0	0	26	0	27	209
16:30	0	0	55	25	0	11	21	13	0	7	49	0	0	36	0	29	246
16:45	0	0	65	21	0	4	19	4	0	5	40	00	0	32	0	33	223
Hr Total	0	0	228	97	0	36	69	30	0	25	183	0	0	132	0	117	917
17:00	0	0	40	40	ļ o	7	14	5	0	6	60	0	0	41	0	37	250
17:15	0	0	60	28	0	6	10	8	0	11	41	0	0	57	0	31	252
17:30	0	0	45	15	0	10	14	9	0	8	42	0	0	29	0	30	202
17:45	. 0	0	52	18	0	14	17	6	0	8	21	0	0	31	0	20	187
Hr Total	0	0	197	101	0	37	55	28	0	33	164	0	0	158	0	118	891
TOTAL	0	0	711	304	0	122	172	112	 I 0	98	610	0		395	 0	276	2800

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

SAN REMO AVENUE & YUMURI STREET CORAL GABLES, FLORIDA COUNTED BY: LUIS PALOMINO PHONE (561)272-3255 NOT SIGNALIZED

Site Code : 00160208 Start Date: 09/22/16 File I.D. : SANRYUMU

Page : 2

		ALL V	EHICLES						
YUMURI STREET From North	SAN REMO From East		YUMURI STREE	T		AN REMO			
UTurn Left Thru Date 09/22/16	Right UTurn	Left Thru Right	UTurn Lef	t Thru I	l Right	UTurn	Left Thr	ı Right	Total
Peak Hour Analysis By Entire	Intersection for	the Period: 07:00 t	o 09:00 on 09	/22/16					
Peak start 08:00	08:00		08:00		1	08:00			1
Volume 0 0 154	80 0	33 36 30	0 2	3 164	0	0	65	0 27	1
Percent 0% 0% 66%	34% 0%	33% 36% 30%	0% 12	% 88 %	0%	0%	71% 0	29%	}
Pk total 234	99		187			92			
Highest 08:15	08:30		08:15			08:15			
Volume 0 0 44	21 0	14 15 7	0	7 64	0	0	19	0 7	-
Hi total 65	36		71			26			
PHF .90	.69		.66		1	.88			
		YUMURI ST	REET						
•	0 - 80	154	0	65 164 30					
	0 80	154		259			0	•	0
		l 234 	, II			<u> </u>			
SAN REMO AVENUE	L		493 ——		ا		30	•	30
23		· ALL VE	HICLES	_		_			
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• 65						I			
65	1			1				•	33
-	23	31		99			33		
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. 0	92		tion Tot 612	al			0		0
· 27									0
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				87 —	<u> </u>				
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0		33∥⋅	23 •	164 .		0 -	0		
		154 27							
		27∥							
	1								
•		214	23	164		0	0		
		N N	[
		YUMURI ST	REET						

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

File I.D. : SANRYUMU Page : 3

Site Code : 00160208

Start Date: 09/22/16

NOT SIGNALIZED

CORAL GABLES, FLORIDA

COUNTED BY: LUIS PALOMINO

SAN REMO AVENUE & YUMURI STREET

Fı	UMURI S				SAN REMO		E		YUMURI 8				SAN REMO		Ε		1
τ	JTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	Total
ate 09/22																	
			Entire	Inters	ection for		eriod:	16:00 t			2/16						
eak start					16:30				16:30				16:30		_		
olume	0	0	220	114		28	64	30	*	29	190	0		166	0	130	
ercent	0%	0%	66%	34%		23%	52%	25%		13%	87%	0%	0%	56%	0%	44%	1
k total	334 17:15				122 16:30	,			219	,			17:15				1
ighest	17:15	0	60	28		, 11	21	13	'	6	60	0	•	57	0	31	1
olume i total	88	U	60	20	45	11	21	13	1 66	0	60	U	88	٥,	Ū	31	1
HF	. 95				.68				.83				.84				1
iir	. 23				, .00				, .03				1 .04				1
						Y	UMUR	I ST	REET								
						1											
		•		0	114	: •	220	' ·	0		166						
											190						
											30						^
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	0		0				220 130]								
	0		0				220 130						-		. _		
	0		0				220 130		29		190		-		. <u>-</u> 0		
	0		0				220 130 378		29		190		-		0		
	0		0				220 130 378		29 REET		190		<mark>-</mark>		0		

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

NOT SIGNALIZED

CORAL GABLES, FLORIDA

COUNTED BY: LUIS PALOMINO

SAN REMO AVENUE & YUMURI STREET

PHONE (561)272-3255

Start Date: 09/22/16 File I.D. : SANRYUMU

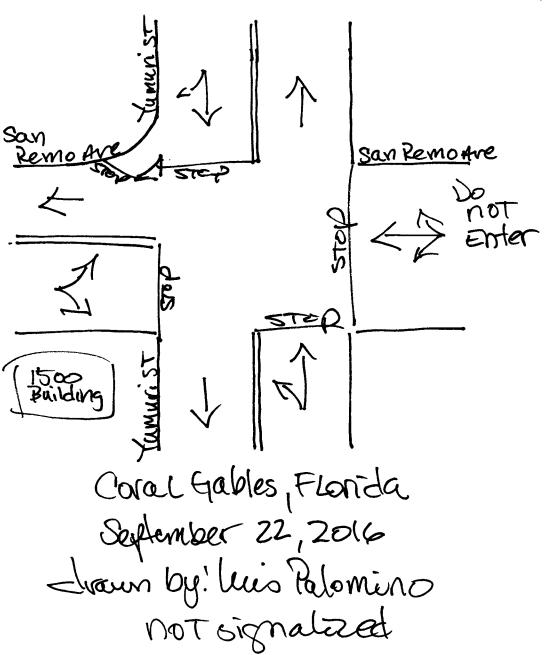
Page : 1

Site Code : 00160208

PEDESTRIANS & BIKES

	YUMURI From No				SAN REM From Ea		E		YUMURI From Sc				SAN REM		JE		
Date 09		BIKES	Right	Peds	 Left 	BIKES	Right	Peds	 Left 	BIKES	Right	Peds	 Left	BIKES	Right	 Peds 	Total
	,																
07:00	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
07:15	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
07:30	0	0	0	1	0	2	0	0	0	0	0	1	0	0	0	2	6
07:45	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	4
Hr Tota	1 0	0	0	1	0	2	0	0	0	0	0	9	0	0	0	3	15
08:00	0	1	0	2	0	0	0	0	0	0	0	2	0	0	0	0	5
08:15	0	0	0	0	0	1	0	2	0	0	0	22	0	0	0	15	40
08:30	0	0	0	3	0	0	0	3	0	0	0	7	0	1	0	4	18
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0
Hr Tota	1 0	1	0	5	0	1	0	5	0	0	0	31	0	1	0	19	63
	* BR	EAK * -															
16:00	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	10
16:15	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4	8
16:30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2
16:45	0	1	. 0	0	0	0	0	3	0	. 0	0	2	0	0	0	4	10
Hr Total	L O	1	0	0	0	0	0	4	0	0	0	11	0	0	0	14	30
17:00	0	0	0	0	0	0	0	0	1 0	0	0	1	0	0	0	1	2
17:15	0	0	0	0	. 0	2	0	0	1 0	1	0	0	•	1	0	0 1	4
17:30	0	0	0	0	1 0	0	0	0	1 0	1	0	0	1 0	0	0	0 1	1
17:45	0	0	0	1		0	0	0	0	0	0	3	1	0	0	0	4
Hr Total		0	0	1	, , , , , , , , , , , , , , , , , , , 	2	0	0		2	0	4		1	0	1	11
TOTAL	0	2	0	7	0	5	0	9	0	2	0	55	0	2	0	37	119

North



85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

COUNTED BY: SEBASTIAN SALVO NOT SIGNALIZED

CORAL GABLES, FLORIDA

SAN REMO AVENUE & NERVIA STREET

ALL VEHICLES

Site Code : 00160208 Start Date: 09/22/16

File I.D. : SANRNERV

Page : 1

1	NERVIA	STREET			SAM REM	O AVENU	E		NERVIA	STREET			SAM REM	O AVENU	E		1
1	From No	rth			From Ea	st			From So	uth			From We	st			l
					1				1				I				ļ
	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Total
Date 09/	22/16 -																
07:00	0	3	12	2	1 0	2	6	0	0	8	13	. 0	1 0	0	0	0	46
07:15	0	3	18	23		3	18	1		15	11	3	. 0	0	0	0	95
07:30	0	4	15	4	0	3	3	0		4	21	5		0	0	0	59
07:45	0	0	9	12	. 0	1	3	5		10	13	7	. 0	0	. 0	0	60
Hr Total	0	10	54	41	0	9	30	6	j 0	37	58	15	0	0	0	0	
08:00	0	8	37	23	1 0	6	11	3	0	7	30	14	0	0	0	0	139
08:15	0	7	47	28	0	14	11	9		22	63	12	'	0	0	0	1
08:30	0	6	11	9	0	4	19	6		6	41	13	0	0	0	0	115
08:45	0	10	10	4	0	2	6	1		3	37	4	· 0	0	0	0	<u> 77</u>
Hr Total	0	31	105	64	0	26	47	19	0	38	171	43	0	0	0	0	544
	* BR	EAK * ~															
16:00	0	2	26	13	[0	18	16	4	0	16	23	9	1 0	0	0	0	127
16:15	0	6	24	7	0	28	23	12		10	23	4	. 0	0	0	0	137
16:30	0	5	16	7	0	9	25	8	0	16	32	3	0	0	0	0	121
16:45	00	9	22	3	0	6	17	4	0	8	25	3	0	0	0	0	97
Hr Total	0	22	88	30	0	61	81	28	0	50	103	19	0	0	0	0	482
17:00	0	6	24	4	0	5	14	5	0	10	27	1	0	0	0	0	96
17:15	0	7	30	2	1	9	14	3	0	10	21	3	0	0	0	0	100
17:30	0	3	20	2	1	15	24	6	0	5	18	9	0	0	0	0	103
17:45	0	3	26	10	1	11	24	_5_	0	6	15	2	. 0	0	0	0	103
Hr Total	0	19	100	18	3	40	76	19	0	31	81	15	0	0	0	0	
															-		
TOTAL	0	82	347	153	3	136	234	72	0	156	413	92	0	0	0	0	1688

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16

File I.D. : SANRNERV Page : 2

NOT SIGNALIZED

CORAL GABLES, FLORIDA

SAN REMO AVENUE & NERVIA STREET

COUNTED BY: SEBASTIAN SALVO

	RVIA S				SAM REMO		E		NERVIA !				SAM REMO		E		
Fro	m Nort	tn			From Eas	τ			From Soi	utn			FION Wes	C			1
UT	Turn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Tota
ate 09/22/	16	-															
eak Hour A	analys:	is By	Entire	Interse	ction for	the P	eriod:	07:00 to	09:00	on 09/2	2/16						
eak start	08:00				08:00				08:00	0			08:00	1			1
olume	0	31	105	64	0	26	47	19	0	38	171	43	0	0	0	0	1
ercent	0%	16%	52%	32%	0%	28%	51%	21%	0%	15%	68%	17%	0%	0%	0%	0%	1
k total	200				92				252				0				1
lighest	08:15				08:15				08:1	5			07:00	1			[
olume	0	7	47	28	0	14	11	9	0	22	63	12	0	0	0	0	1
i total	82				34				97				0				1
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38 47	3 7 1		149			2				S			92			,	47
38 47 64	3 7 1				1					S	16		92	4	17	,	
38 47 64	3 7 1		149		1	49				S	16	6	92	4			47
3 8 4 7 6 4	3 7 1 0		149		1					S	16	6	92	4	17		47
3 8 4 7 6 4	3 7 1 0		0		1		· AL	L VEI	HICLE			6	92	4	17		47 26
3 8 4 7 6 4	3 7 1 0		149		1		· AL	L VE	HICLE tion			6	92	2	17 26		47 26 31
3 8 4 7 6 4	3 7 1 0		0		1		· AL	L VE	HICLE			6	92	2	17		47 26 31 0
3 8 4 7 6 4	3 7 1 1 0		0		1		· AL	L VE	HICLE tion			6	92	2	17 26		47 26 31
3 8 4 7 6 4	3 7 1 1 0		0		1		· AL	L VE	HICLE tion			6		2		ZENI IE	47 26 31 0 43
3 8 4 7 6 4	3 7 1 1 0		0		1		· AL	L VEI	HICLE tion 544			6		2		/ENUE	47 26 31 0 43
3 8 4 7 6 4 ·	3 7 1 1 0		0		1		· AL	L VEI	HICLE tion	Tota	1.	6		2		/ENUE	47 26 31 0 43
3 8 4 7 6 4 ·	3 7 1 1 0		0] -]	1		· AL	L VEI	HICLE tion 544		1.	6		2		/ENUE	47 26 31 0 43
3 8 4 7 6 4	3 7 1 1 0		0 0		1		· AI	rsect	tion 544	Tota:	1 2 -	6	SAM	2		/ENUE	47 26 31 0 43
3 8 4 7 6 4 ·	3 7 1 1 0		0	-] -]	1		· AI	rsect	HICLE tion 544	Tota:	1.	6		2		/ENUE	47 26 31 0 43
3 8 4 7 6 4 	3 7 1 1 0		0 0	- - 0]-	1		· AI	ersect	tion 544	Tota:	1 2 -	6	SAM	2		/ENUE	47 26 31 0 43
3 8 4 7 6 4 0	3 7 1 1 0		0 0	- - 0]	1		· AI	ersect	tion 544	Tota:	1 2 -	6	SAM	2		/ENUE	47 26 31 0 43
3 8 4 7 6 4 0	3 7 1 1 0		0 0]]	1		· AI	ersect	tion 544	Tota:	1 2 — 171 	6	SAM	2	17 26 74 10 AV	/ENUE	47 26 31 0 43
3 8 4 7 6 4 0	3 7 1 1 0		0 0]]	1		· AI	ersect	tion 544	Tota:	1 2 -	6	SAM	2		/ENUE	47 26 31 0 43
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SAN REMO AVENUE & NERVIA STREET

COUNTED BY: SEBASTIAN SALVO

CORAL GABLES, FLORIDA

NOT SIGNALIZED

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

File I.D. : SANRNERV

Start Date: 09/22/16 Page : 3

Site Code : 00160208

						ALL V	EHICLES								
NERVIA STRE From North	ET		SAM REMO		E		NERVIA S				SAM REMO From Wes		E		
UTurn Le	ft Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	 Total
Date 09/22/16															
Peak Hour Analysis	By Entire	Interse			eriod:	16:00 t			2/16						
Peak start 16:00			16:00				16:00				16:00		_	_	
	22 88	30	•	61	81	28	•	50	103	19	•	0	0	0	
	6% 63%	21%	•	36%	48%	16%	0% 172	29%	60%	11%	0%	0%	0%	0%	1
Pk total 140 Highest 16:00			170	:			16:30				07:00				l I
Volume 0	2 26	13		, 28	23	12	•	16	32	3		0	. 0	0	i I
Hi total 41			63				51				0				i İ
PHF .85			.67				.84				.0				İ
				N	IERVI	A SI	REET				I				
		0.	30	, .	88	$ \cdot $	22		0						
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									28						_
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		0	30	'	88	3	22		131				0		
				1	40	<u> </u>									
SAM REMO AVI	ENUE		<u>i_</u>			-	271 -		-, , a ,			:	28	•	28
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SAN REMO AVENUE & NERVIA STREET

CORAL GABLES, FLORIDA COUNTED BY: SEBASTIAN SALVO

NOT SIGNALIZED

TOTAL

0

0

0 13 |

85 SE 4TH AVENUE, UNIT 109

DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Page : 1

8 | 0 1 0 25 |

58

Start Date: 09/22/16 File I.D. : SANRNERV

Site Code : 00160208

PEDESTRIANS & BIKES

	NERVIA From No				SAM REM		E		NERVIA From Sc				SAM REM From We		ΙE		
Date 09/		BIKES	Right	Peds	 Left	BIKES	Right	Peds	 Left 	BIKES	Right	Peds	Left	BIKES	Right	Peds	Tota
											•						
07:00	0	0	0	1		1	0	1		0	0	1	,	0	0	1	
07:15	0	0	0	1	0	0	0	0	•	0	0	1	0	0	0	0	
07:30	0	0	0	0	0	. 0	0	2		0	0	0	0	0	0	0	
07:45	0	0	0	0	0	0	0	1		0	0_	0		0	0	3	1
Hr Total	0	0	0	2	0	1	0	4	0	0	0	2	0	0	0	4	1
08:00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
08:15	0	0	0	7	0	0	0	0	0	1	0	2	0	0	0	12	2
08:30	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	
08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00	0	
Hr Total	. 0	0	0	9	0	0	0	0	0	1	0	3	0	0	0	15	2
	* BR	EAK * -															
16:00	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	1	
16:15	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
16:30	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	
16:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:30	0	0	0	0	0	0	0	2		0	0	0	0	0	0	0	
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Coral Gables, Florida 5eptember 22,2016 - Iraun by: Luis Palomino not signalized

SUNSET DRIVE & YUMURI STREET

CORAL GABLES, FLORIDA

SIGNALIZED

COUNTED BY: ALEX RICKETTS

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 72STYUMU

Page : 1

YUM	MURI S	TREET			SUNSET I	DRIVE							SUNSET				
Fre	om Nor	th			From Eas	st			From So	uth			From We	st			
ī	Turn	Left	Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Tota
Date 09/22,														- -			
07:00	0	8	0	25	0	0	38	4	0	0	0	0	0	18	79	0	172
07:15	0	19	0	27	0	0	51	4	0	0	0	0	0	16	122	0	23
07:30	0	4	0	24	0	0	49	3	0	0	0	0	0	16	105	0	20
07:45	0	10	0	26	0	0	76	10	0	0	0_	0	0	21	111	0	25
Hr Total	0	41	0	102	0	0	214	21	0	0	0	0	0	71	417	0	86
08:00	0	14	0	23	1 0	0	96	13	0	0	0	0	0	25	145	0	31
08:15	0	18	0	25	0	0	99	33	0	0	0	0	0	39	142	0	35
08:30	0	12	0	33	0	0	118	20	0	0	0	0	0	28	96	0	30
08:45	0	14	0	27	0	0	102	8	0	0	0	0	0	24	128	0	30
Hr Total	0	58	0	108	0	0	415	74	0	0	0	0	0	116	511	0	128
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16:15	0	39	0	38	0	0	73	15	0	0	0	0	0	24	82	0	27
16:30	0	48	0	35	0	0	76	19	0	0	0	0	0	34	80	0	29
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17:15	0	63	0	49	0	0	75	10	0	0	0	0	0	33	89	0	31
17:30	0	47	0	41	0	0	89	15	0	0	0	0	0	27	103	0	32
17:45	0	48	0	36	1 0	0	83	10	0	0_	0	0	0	19	84	0	28
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SUNSET DRIVE & YUMURI STREET

CORAL GABLES, FLORIDA

SIGNALIZED

COUNTED BY: ALEX RICKETTS

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 72STYUMU

			. 				АШ V									
YUMURI	STREET			SUNSET D	RIVE							SUNSET D	RIVE			1
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Peak Hour Analy	ysis By	Entire	Interse	ection for	the P	eriod:	07:00 t	o 09:00 c	n 09/2	2/16						
Peak start 08:				08:00				08:00				08:00				l
Volume 0	58	0	108	0	0	415	74	0	0	0	0	0	116	511	0	l
Percent 0%	35%	0%	65%	0%	0%	85%	15%		0%	0%	0%	•	19%	81%	0%	
Pk total 166				489				0				627]
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SUNSET DRIVE & YUMURI STREET

COUNTED BY: ALEX RICKETTS

CORAL GABLES, FLORIDA

SIGNALIZED

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16

File I.D. : 72STYUMU Page : 3

	MURI S				SUNSET From Eas				From Sou	ıth			SUNSET D			 -	
t te 09/22	Turn	Left	Thru	Right	UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	Tot
			Entire	Interse	ction for	the P	eriod:	16:00 t	o 18:00 d	n 09/2	2/16						
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olume	0	195	0	152	•	0	294	43		0	0	0	0	122	376	0	
ercent	0%	56%	0%	44%	•	0%	87%	13%		0%	0%	0%	0%	24%	76%	0%	
total	347				337				0				498			1	
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SUNSET DRIVE & YUMURI STREET
CORAL GABLES, FLORIDA
COUNTED BY: ALEX RICKETTS
SIGNALIZED

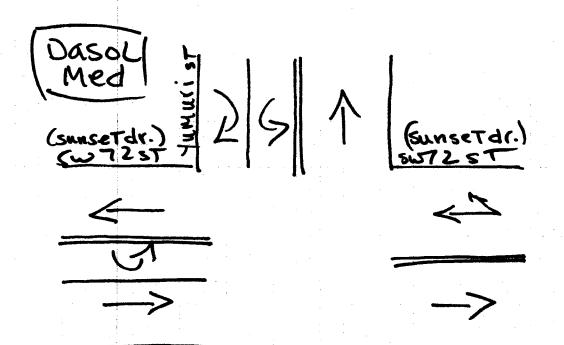
TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 72STYUMU

Page : 1

PEDESTRIANS & BIKES

	YUMURI From No				SUNSET From Ea				 From Sc	outh			SUNSET From We				
	FIOR NO	1 (11														1	
		BIKES	-		Left		Right	Peds	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Tota
Date 09/	22/16 -					-											
07:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
07:30	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45	0_	1	0	0	1 0	1	0	00	0	0	0	0	0	0	0	0	
Hr Total	. 0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
08:00	0	1	0	0	0	0	0	5	0	0	0	0	0	0	0	0	
08:15	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
08:30	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
08:45	. 0	0	0	2.	0	2	0	1	0	0	0	0	0	0	0	0	
Hr Total	. 0	2	0	3	0	2	0	7	0	0	0	0	0	0	0	1	1
	* BF	EAK * -					- -				-	-		· •			
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
16:15	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	
16:30	0	0	0	2	0	1	0	3	0	0	0	0	0	0	0	0	
16:45	0	0	0	0	0	0	0	1	1 0	. 0	0	0	0	0	0	0	
Hr Total	L 0	0	0	2	0	1	0	7	1 0	0	0	0	0	1	0	0	:
17:00	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	
17:15	0	0	0	0	0	0	0	0	0	0	0	0) 0	1	0	0	
17:30	0	0	0	0	0	0	0	3	0	0	0	0	0	1	0	0	
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Coral Gables, Florida
July 15,2014
Jawn by: Luis Palomino
Signalized

SUNSET DRIVE & NERVIA STREET CORAL GABLES, FLORIDA COUNTED BY: DREXYL EITNIEAR

NOT SIGNALIZED

TOTAL

145

0

327

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0 1071

TRAFFIC SURVEY SPECIALISTS, INC.

85 SE 4TH AVENUE, UNIT 109

DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16

File I.D. : 72STNERV
Page : 1

ALL VEHICLES

	RVIA S om Nor	TREET			SUNSET				 From So	uth			SUNSET			1	
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	Turn	Left		Right	UTurn	Left		Right	UTurn	Left		Right	UTurn	Left	Thru	Right	Tota
ate 09/22	/16																·
7:00	0	6	0	10	0	0	38	3	0	0	0	0	0	16	73	0	1
7:15	0	9	0	11	0	0	50	10	0	0	0	0	0	18	126	0	2
7:30	0	6	0	9	0	0	46	13	0	0	0	0	0	30	90	0	1
7:45	0	5_	0	15	0	0	71	10	0	0	0	0	1 0	35	93	0	2
r Total	0	26	0	45	0	0	205	36	0	0	0	0	0	99	382	0	7
8:00	0	6	0	31	0	0	77	27	0	0	0	0	0	59	106	0	3
8:15	0	4	0	54	0	0	62	32	0	0	0	0	0	97	92	0	3
B:30	0	3	0	33	0	0	93	22	0	0	0	0	1	35	83	0	2
8:45	1	3	0	. 11	0	0	99	12	0	. 0	0	0] 0	32	117	0	2
r Total	1	16	0	129	0	0	331	93	0	0	0	0	1	223	398	0	11
	* BRE	EAK * -															
6:00	0	11	0	24	0	0	78	20	0	0	0	0	0	21	85	0	2
6:15	0	22	0	31	0	0	59	9	0	0	0	0	0	12	84	0	2
6:30	0	15	0	18	0	0	81	26	0 -	0	0	0	0	15	85	0	2
6:45	0	15	0	. 9	1	0	51	15	0	0	0	0	0	16	101	0	2
r Total	0	63	0	82	1	0	269	70	0	0	0	0	0	64	355	0	9
7:00	0	8	0	17	0	0	47	21	0	0	0	0	0	16	71	0	1
7:15	0	8	0	10	0	0	55	14	0	0	0	0	0	6	87	0	1
7:30	0	9	0	21	0	0	75	14	0	0	0	0	0	18	96	0	2
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SUNSET DRIVE & NERVIA STREET CORAL GABLES, FLORIDA COUNTED BY: DREXYL EITNIEAR

NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC. 85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255

Site Code : 00160208 Start Date: 09/22/16 File I.D. : 72STNERV

Page : 2

							ALL V	EHICLES								
NERVIA :				SUNSET D				 From Sou	ıth	_		SUNSET D				
UTurn	Left	Thru		UTurn					Left	Thru	Right	UTurn	Left	Thru	Right	Total
Date 09/22/16 -										0/16						
Peak Hour Analy		Entire	Interse			eriod:	07:00 t			2/16		08:00				
Peak start 08:0 Volume 1		0	129	08:00	0	331	93	08:00	, 0	0	0	•	223	398	0	
Percent 1%	11%	0%		,	0%	78%	22%	•	0%	0%	0%	•	36%	64%	0%	
Pk total 146				424				0				622				
Highest 08:1	5			08:30				07:00)			08:15				
Volume 0	4	0	54	0	0	93	22	0	0	0	0	0	97	92	0	
Hi total 58				115) 0				189				
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SUNSET DRIVE & NERVIA STREET
CORAL GABLES, FLORIDA
COUNTED BY: DREXYL EITNIEAR
NOT SIGNALIZED

TRAFFIC SURVEY SPECIALISTS, INC.

85 SE 4TH AVENUE, UNIT 109

DELRAY BEACH, FLORIDA

PHONE (561)272-3255

Site Code: 00160208 Start Date: 09/22/16 File I.D.: 72STNERV

ge : 3

								ALL V	EHICLES								
	ERVIA S				SUNSET D				 From Sou	uth			SUNSET				
	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 UTurn	Left	Thru	Right	 Tota
Date 09/2																	·
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SUNSET DRIVE & NERVIA STREET

COUNTED BY: DREXYL EITNIEAR

CORAL GABLES, FLORIDA

NOT SIGNALIZED

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA

PHONE (561)272-3255

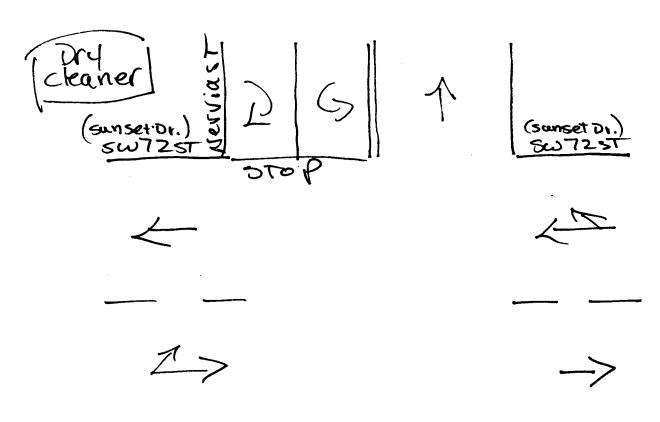
Site Code : 00160208 Start Date: 09/22/16 File I.D. : 72STNERV

Page : 1

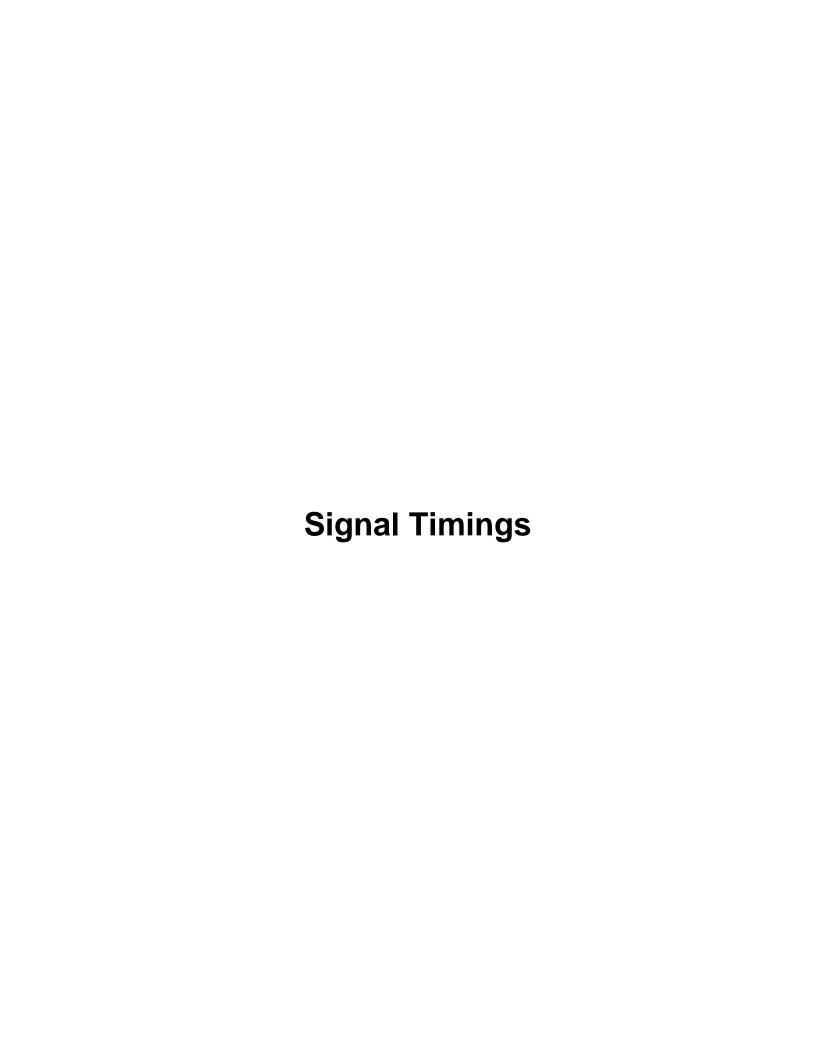
PEDESTRIANS & BIKES

	NERVIA From No				SUNSET From Ea				 From Sc	uth			SUNSET From We			 	
	Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	 Left	BIKES	Right	Peds	Left	BIKES	Right	Peds	Total
Date 09	/22/16 -							. 									
07:00	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	3
07:15	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	2
07:30	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	(
07:45	0	2	0	2	0	0	0	0		0	0	0	0	0	0	0	
Hr Tota	1 0	3	0	4	0	0	0	0	0	1	0	0	0	0	0	1	ç
08:00	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
08:15	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	:
08:30	0	0	0	4	0	0	0	2	0	0	0	0	0	0	0	0	
08:45	0	0	0	2	0	0	0	0		_ 0	0	0	0	0	0	0	
Hr Tota	1 0	0	0	11	0	0	0	2	0	0	0	0	0	0	0	0	1
	* BF	EAK * -							-								
16:00	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	:
16:15	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	
16:30	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	:
16:45	0	. 0	. 0	2	0	0	0	0	0	2	0	0	0	0	. 0	0	
Hr Tota	1 0	0	0	10	0	0	0	0	0	4	0	0	0	0	0	0	1
	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	!
17:00		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:00 17:15	0				•		0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	U	·									
17:15 17:30		0 2	0	0	0	0	0	0	0	1	0	0	1 0	1	0	0	1
17:15	0 0								0	1	0	0		1	0	0	1

North



Coral Gables, Florida September 22, 2016 L'awn by: Luis Palomino not signalized



Print Date: for 5129: Sunset Dr&Yumuri St

Print Time: 2:47 PM

<u>Asset</u> 5129		Intersection set Dr&Yum	_		TOD Schedule DW-2	Op Mode	<u>Plan#</u> N/A	<u>Cyc</u> 0	le <u>Offset</u> 0	TOD Setting N/A	Active Active PhaseBank Maximum 0 Max 0
			<u> </u>	Splits_							
<u>PH 1</u>	<u>PH 2</u>	<u>PH 3</u>	<u>PH 4</u>	<u>PH 5</u>	<u>PH 6</u>	<u>PH 7</u>	<u>PH 8</u>				
EBL	WBT	-	-	-	EBT	-	SBL				
0	0	0	0	0	0	0	0				



1/25/2016





Active Phase	e Bank:	Phase	Bank 1

<u>Phase</u>	<u>Walk</u>	Don't Walk	Min Initial	<u>Veh Ext</u>	Max Limit	<u>Max 2</u>	<u>Yellow</u>	<u>Red</u>
	Phase Bank							
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3		
1 EBL	0 - 0 - 0	0 - 0 - 0	5 - 5 - 5	2 - 2 - 2	5 - 5 - 5	10 - 7 - 0	3	0
2 WBT	0 - 0 - 0	0 - 0 - 0	15 - 15 - 15	1 - 1 - 1	30 - 30 - 35	0 - 45 - 0	4	1
3 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
4 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
5 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
6 EBT	0 - 0 - 0	0 - 0 - 0	15 - 15 - 15	1 - 1 - 1	30 - 30 - 35	0 - 45 - 0	4	1
7 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
8 SBL	0 - 0 - 0	0 - 0 - 0	7 - 7 - 7	2.5 - 2.5 - 2.5	15 - 15 - 18	25 - 20 - 0	4	0.5

|--|

Permitted Phases	
	<u>12345678</u>
Default	1236-8
External Permit 0	-236-8
External Permit 1	-236-8
External Permit 2	-236-8

Current TOD Schedule	<u>Plan</u>	<u>Cycle</u>	1 EBL	2 WBT	3	4	5	6 EBT	7	8 SBL	Ring Offset	<u>Offset</u>

Local TOD Schedule								
<u>Time</u>	<u>Plan</u>	<u>DOW</u>						
0000	Flash	Su M T W	Th F S					
0530	Free	MTW	Th F					
0600	Free	Su	S					

Print Time: 2:47 PM

Current Time of Day Function									
	•								
<u>Time</u>	<u>Function</u>	Settings *	Day of Week						
0000	TOD OUTPUTS		SuM T W ThF S						
0530	TOD OUTPUTS	3	M T W ThF						
0630	TOD OUTPUTS	2-	M T W ThF						
0900	TOD OUTPUTS	3	M T W ThF						
1500	TOD OUTPUTS	2-	M T W ThF						
1900	TOD OUTPUTS	3	M T W ThF						
2000	TOD OUTPUTS	1	M T W ThF						

l	Local	Time of Day Function			
l	<u>Time</u>	<u>Function</u>	Settings *	Day of Wee	<u>k</u>
l	0000	TOD OUTPUTS		SuM T W ThF	S
l	0530	TOD OUTPUTS	3	M T W Th	F
l	0600	TOD OUTPUTS	1	Su	S
l	0630	TOD OUTPUTS	2-	M T W Th	F
l	0900	TOD OUTPUTS	3	M T W Th	F
l	1000	TOD OUTPUTS	3	Su	S
l	1500	TOD OUTPUTS	2-	M T W Th	F
_	1900	TOD OUTPUTS	3	M T W Th	F
	2000	TOD OUTPUTS	1	M T W Th	F
	2000	TOD OUTPUTS	1	Su	S

* Settings
Blank - FREE - Phase Bank 1, Max 1
Blank - Plan - Phase Bank 1, Max 2
1 - Phase Bank 2, Max 1
2 - Phase Bank 2, Max 2
3 - Phase Bank 3, Max 1
4 - Phase Bank 3, Max 2
5 - EXTERNAL PERMIT 1
6 - EXTERNAL PERMIT 2
7 - X-PED OMIT
8 - TBA

No Calendar Defined/Enabled

TOD Schedule Report

for 5128: Red Rd&San Remo Av

Print Time: **Print Date:** 6/22/2016

<u>Asset</u>	<u>Intersection</u>	TOD Schedule	Op Mode	Plan#	<u>Cycle</u>	<u>Offset</u>	TOD Setting	<u>Active</u> <u>PhaseBank</u>	Active Maximum
5128	Red Rd&San Remo Av	DOW-4		N/A	0	0	N/A	0	Max 0

Splits

				piits			
<u>PH 1</u>	<u>PH 2</u>	<u>PH 3</u>	<u>PH 4</u>	<u>PH 5</u>	<u>PH 6</u>	<u>PH 7</u>	<u>PH 8</u>
-	SBT	-	WBT	-	NBT	WBL	EBT
0	0	0	0	0	0	0	0
	1		←		lack	•	\rightarrow

<u>Phase</u>	<u>Walk</u>	Don't Walk	Min Initial	Veh Ext Max Limit		<u>Max 2</u>	<u>Yellow</u>	Red
	Phase Bank							
	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3		
1 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 -0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
2 SBT	7 - 7 - 7	10 - 10 - 10	7 - 7 - 7	1 - 1 - 1	30 - 30 - 30	0 - 30 - 30	4	2.6
3 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
4 WBT	7 - 7 - 7	14 - 14 - 14	15 - 7 - 7	2.5 -2.5 - 2.5	13 - 13 - 13	53 - 13 - 13	4	2.3
5 -	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0 - 0 - 0	0	0
6 NBT	7 - 7 - 7	10 - 10 - 10	7 - 7 - 7	1 - 1 - 1	30 - 30 - 30	0 - 30 - 30	4	2.6
7 WBL	0 - 0 - 0	0 - 0 - 0	5 - 5 - 5	2 - 2 - 2	5 - 5 - 5	23 - 5 - 5	3.7	2.3
8 EBT	7 - 7 - 7	14 - 14 - 14	15 - 7 - 7	2.5 -2.5 - 2.5	13 - 13 - 13	35 - 13 - 13	4	2.3

Last In Service Date: unknown

<u>12345678</u>
-2-4-678
-2-4-6-8
-2-4-6-8
-2-4-6-8

2:07 AM

Print Date: 6/22/2016

for 5128: Red Rd&San Remo Av

Print Time: 2:07 AM

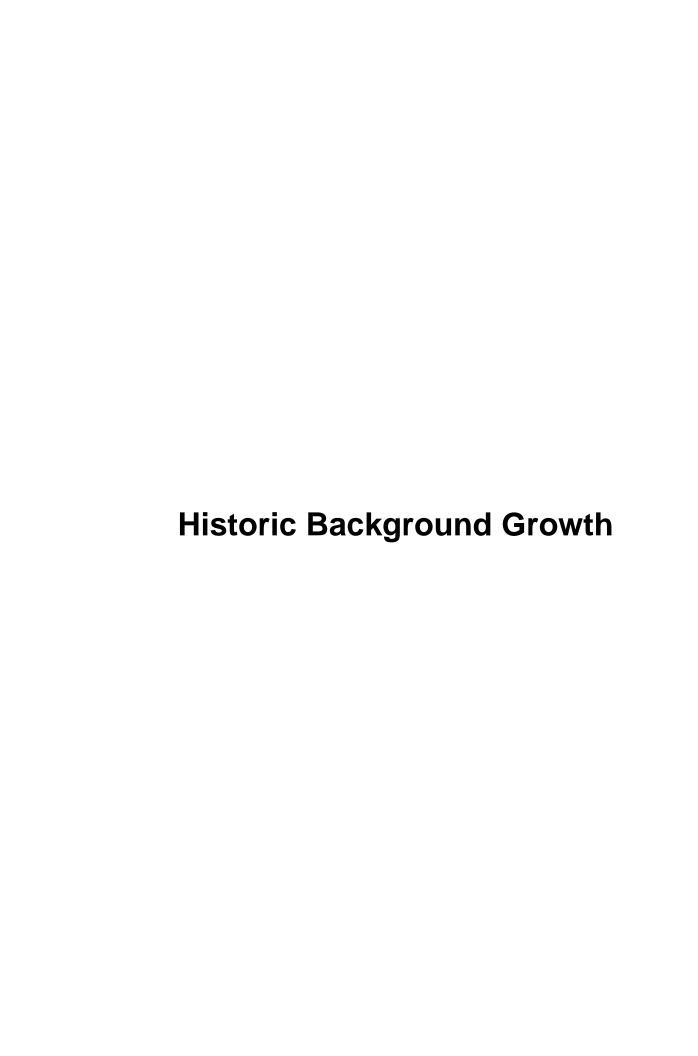
						Green 1	<u>ime</u>					
Current			1	2	3	4	5	6	7	8		
TOD Schedule Pla	<u>n Cy</u>	<u>cle</u>	-	SBT	-	WBT	-	NBT	WBL	EBT	Ring Offset	<u>Offset</u>
1		120	0	85	0	22	0	85	5	11	0	43
2		100	0	65	0	22	0	65	5	11	0	20
3		140	0	82	0	45	0	82	17	22	0	66
4		150	0	104	0	33	0	104	5	22	0	51
5		130	0	92	0	25	0	92	5	14	0	35
6		180	0	127	0	40	0	127	12	22	0	60
7		90	0	63	0	14	0	63	0	14	0	28
8		190	0	137	0	40	0	137	12	22	0	41
11		130	0	83	0	34	0	83	6	22	0	115
12		120	0	86	0	21	0	86	5	10	0	42
13		80	0	53	0	14	0	53	0	14	0	54
14		140	0	101	0	26	0	101	5	15	0	51
15		115	0	80	0	22	0	80	5	11	0	51
16		115	0	80	0	22	0	80	5	11	0	51
17		180	0	117	0	50	0	117	20	24	0	62
18		190	0	127	0	50	0	127	20	24	0	94
19		160	0	118	0	29	0	118	11	12	0	0
20		160	0	111	0	36	0	111	10	20	0	112
21		150	0	96	0	41	0	96	13	22	0	93
23		180	0	131	0	36	0	131	10	20	0	112
25		150	0	102	0	35	0	102	10	19	0	115

Local TOD	Schedule		
<u>Time</u>	<u>Plan</u>	<u>DOW</u>	
0000	Free	M T W Th F	
0000	13	Su	S
0100	Free	Su	S
0130	Free	M T W Th F	
0200	Free	Su	S
0530	Free	M T W Th F	
0600	17	M T W Th F	
0630	11	Su	S
0730	18	M T W Th F	
0930	23	M T W Th F	
1000	21	Su	S
1100	20	M T W Th F	
1500	6	M T W Th F	
1600	8	M T W Th F	
1900	19	M T W Th F	
2000	2	M T W Th	
2000	3	Su	S
2000	4	F	
2200	7	M T W Th	
2300	13	M T W Th	

Current Time of Day Function					
<u>Time</u>	<u>Function</u>	Settings *	Day of Week		
0000	TOD OUTPUTS	51	M T W ThF		
0625	TOD OUTPUTS		M T W ThF		

	Local	Time of Day Function			
	<u>Time</u>	<u>Function</u>	Settings *	Day of V	<u>Veek</u>
	0000	TOD OUTPUTS		Su	S
١	0000	TOD OUTPUTS	51	MTW	ThF
	0100	TOD OUTPUTS	51	Su	S
	0625	TOD OUTPUTS		MTW	ThF
	0630	TOD OUTPUTS		Su	S

* Settings
Blank - FREE - Phase Bank 1, Max 1
Blank - Plan - Phase Bank 1, Max 2
1 - Phase Bank 2, Max 1
2 - Phase Bank 2, Max 2
3 - Phase Bank 3, Max 1
4 - Phase Bank 3, Max 2
5 - EXTERNAL PERMIT 1
6 - EXTERNAL PERMIT 2
7 - X-PED OMIT
8 - TBA



VeneraBackground Growth Rate

Station	Location	2010	2011	2012	2013	2014	2015
9800	SR 5/US-1 200' S GRANADA BLVD @r-178	83,500	81,500	77,500	74,000	78,500	79,500
0034	SR 959/Red Rd / SW 57 AV, 200' N SR 5 /US-1	22,000	24,500	23,500	21,400	23,500	26,000
0127	SR 5 / US - 1, 400' E OF SW 57 AVE.	77,000	79,500	82,000	74,000	79,500	70,000
7015	GRANADA BLVD. 600 FT EAST OF US 1	4,100	4,300	4,300	3,800	3,800	3,000
	Total	186,600	189,800	187,300	173,200	185,300	178,500
	Yearly Growth		1.7%	-1.3%	-7.5%	7.0%	-3.7%
	Growth Trend						-0.8%

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2015 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 0034 - SR 959/RED RD/SW 57 AV, 200' N SR 5/US-1

YEAR	AADT	DI	RECTION 1	DI	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2015	26000 C	N	12500		13500	9.00	57.40	8.60
2014	23500 C	N	11500	S	12000	9.00	59.30	6.90
2013	21400 C	N	9400	S	12000	9.00	58.90	5.40
2012	23500 C	N	11000	S	12500	9.00	59.70	10.00
2011	24500 C	N	11500	S	13000	9.00	58.20	3.20
2010	22000 C	N	11500	S	10500	7.85	7 58.27	3.20
2009	23000 C	N	11500	S	11500	7.98	59.96	4.50
2008	23500 F	N	12000	S	11500	8.07	7 66.31	5.80
2007	23500 C	N	12000	S	11500	7.90	63.12	5.80
2006	22500 C	N	10500	S	12000	7.39	58.66	13.10
2005	20500 C	N	10000	S	10500	7.70	65.70	11.90
2004	20400 C	N	9900	S	10500	8.20	67.10	11.90
2003	22000 C	N	11000	S	11000	8.10	72.30	3.30
2002	22500 C	N	11500	S	11000	9.20	68.00	3.60
2001	19400 C	N	9400	S	10000	8.20	53.50	2.40
2000	23500 C	N	11500	S	12000	8.20	53.10	3.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; F = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2015 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 0127 - SR 5/US-1, 400' E OF SW 57 AVE.

YEAR	AADT	DI	RECTION 1	DI	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2015	70000 C	N	35000	S	35000	9.00	57.40	3.70
2014	79500 C	N	39000	S	40500	9.00	59.30	3.40
2013	74000 C	N	37500	S	36500	9.00	58.90	5.00
2012	82000 C	N	41000	S	41000	9.00	59.70	5.10
2011	79500 C	N	40000	S	39500	9.00	58.20	3.90
2010	77000 C	N	39000	S	38000	7.87	58.27	4.30
2009	78000 C	N	39000	S	39000	7.98	59.96	4.90
2008	82000 C	N	41500	S	40500	8.07	66.31	3.70
2007	82500 C	N	42000	S	40500	7.90	63.12	3.50
2006	79000 C	N	40000	S	39000	7.39	58.66	8.00
2005	81000 C	N	41500	S	39500	7.70	65.70	5.50
2004	92500 C	N	48500	S	44000	8.20	67.10	4.90
2003	89000 C	N	45000	S	44000	8.10	72.30	3.40
2002	84000 C	N	44000	S	40000	9.20	68.00	4.30
2001	87500 C	N	42000	S	45500	8.20	53.50	3.00
2000	81500 C	N	42500	S	39000	8.20	53.10	3.20

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; F = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2015 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 7015 - GRANADA BLVD. 600 FT EAST OF US1

YEAR	AADT	DI	RECTION 1	DII	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2015	3000 C	E	1500	W	1500	9.00	57.40	3.10
2014	3800 F	E	1800	W	2000	9.00	59.30	44.50
2013	3800 C	E	1800	W	2000	9.00	58.90	44.50
2012	4300 F	E	2200	W	2100	9.00	59.70	5.10
2011	4300 C	E	2200	W	2100	9.00	58.20	3.90
2010	4100 F	E	2000	W	2100	7.87	58.27	4.30
2009	4100 C	E	2000	W	2100	7.98	59.96	4.90

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; F = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2015 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 9800 - SR 5/US-1, 200' S GRANADA BLVD @R-178

YEAR	AADT	DI	RECTION 1	DI	RECTION 2	*K FACTOR	D FACTOR	T FACTOR
2015	79500 C	N	42500	S	37000	9.00	57.40	4.30
2014	78500 C	N	40500	S	38000	9.00	59.30	4.40
2013	74000 C	N	40000	S	34000	9.00	58.90	4.80
2012	77500 C	N	39500	S	38000	9.00	59.70	3.80
2011	81500 C	N	42000	S	39500	9.00	58.20	5.70
2010	83500 C	N	43000	S	40500	7.87	58.27	5.70
2009	78000 C	N	38500	S	39500	7.98	59.96	5.20
2008	77000 C	N	39000	S	38000	8.07	66.31	5.40
2007	76500 C	N	36000	S	40500	7.90	63.12	5.30
2006	80500 C	N	40000	S	40500	7.39	58.66	4.00
2005	79500 C	N	39500	S	40000	7.70	65.70	7.20
2004	86000 C	N	46500	S	39500	8.20	67.10	7.20
2003	81500 C	N	38500	S	43000	8.10	72.30	2.30
2002	80000 C	N	38500	S	41500	9.20	68.00	3.00
2001	86000 C	N	45500	S	40500	8.20	53.50	2.80
2000	78000 C	N	40000	S	38000	8.20	53.10	2.80

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE

S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; F = FOURTH YEAR ESTIMATE

V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

Appendix D Intersection Capacity Analysis Worksheets

1500 Venera & 1537 San Remo - AM Intersection Assignment

			BACKGROUND		UHealtl	h	Pase	o de la R	liviera	1515	Sunset	Drive		FUTURE	EX	ISTING U	SES		PROJECT	-	FUTURE
INTERSECTION	MOVE	EXISTING	Growth rate: 0.5%	Out	In	Total	Out	In	Total	Out	In	Total	COM	wo	Out	In	Total	Out	In	Total	WITH
	MENT	2016	No. of years: 2	0	0	0	90	87	177	16	114	130	DEV	PROJECT	37	12	49	72	27	99	PROJECT
	NBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	NBT	495	500		45	45	0%	5%	4	13%	0%	2	51	551	0%	10%	1	0%	14%	4	554
	NBR	113	114			0	0%	0%	0	0%	0%	0	0	114	0%	13%	2	0%	0%	0	113
1_Red Road &	SBL	126	127			0	0%	0%	0	0%	20%	23	23	150	0%	20%	2	0%	30%	8	156
San Remo	SBT	522	527	12		12	5%	0%	5	0%	22%	25	42	569	20%	0%	7	20%	0%	14	576
Avenue	SBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
(S)	EBL	6	6			0	0%	0%	0	0%	0%	0	0	6	0%	0%	0	0%	0%	0	6
	EBT	5	5			0	0%	0%	0	0%	0%	0	0	5	0%	0%	0	0%	0%	0	5
	EBR	21	21			0	0%	0%	0	0%	0%	0	0	21	0%	0%	0	0%	0%	0	21
	WBL	41	41			0	0%	0%	0	0%	0%	0	0	41	22%	0%	8	0%	0%	0	33
PHF = 0.94	WBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBR	44	44	ļ		0	0%	0%	0	10%	0%	2	2	46	11%	0%	4	0%	0%	0	42
TOTAL		1373	1387	12	45	57	5%	5%	9	23%	42%	52	117	1504	53%	43%	25	20%	44%	26	1506
	NBT	406	410		45	45	0%	5%	4	23%	0%	4	53	463	11%	0%	4	0%	0%	0	459
2_Red Road &	NBR	140	141			0	0%	0%	0	0%	0%	0	0	141	0%	10%	1	0%	14%	4	144
Madruga Avenue	_	161	163			0	0%	0%	0	0%	0%	0	0	163	0%	32%	4	0%	10%	3	161
(U)	SBT	582	588	12		12	5%	0%	5	0%	42%	48	64	652	0%	20%	2	0%	30%	8	658
	WBL	73	74			0	0%	0%	0	0%	0%	0	0	74	20%	0%	7	20%	0%	14	81
PHF = 0.90	WBR	72	73	40	4.5	0	0%	0%	0	0%	0%	0	0	73	12%	0%	4	26%	0%	19	87
TOTAL	ADA/DI	1434	1448	12	45	57	5%	5%	9	23%	42%	52	117	1566	43%	62%	23	46%	54%	48	1590
	NWBL	6	6			0	0%	0%	0	0%	0%	0	0	6	0%	0%	0	0%	0%	0	6
	NWBT	20	20			0	0%	0%	0	13%	0%	2	2	22	13%	0%	5	10%	0%	7	25
3 Madruga	NWBR	3	3 25			0	0%	0%	0	0%	0%	0	0	3	0%	0%	0	0%	0%	0	3
Avenue &	SEBL	25				_	0%	0%	0	0%	0%	0	0	25	0%	0%	Ŭ	0%	0%	0	25
Yumuri Street	SEBT SEBR	64 66	65 67			0	0% 0%	0% 0%	0	0%	13%	15 0	15 0	79 67	0% 0%	13%	2	0% 0%	15% 0%	4 0	82 67
(U)	NEBL	50	51			0	0%	0%	0	0% 0%	0% 0%	0	0	51	0%	0% 0%	0	0%	0%	0	51
(0)	NEBT	122	123			0	0%	0%	0	0%	0%	0	0	123	0%	0%	0	0%	0%	0	123
	NEBR	8	8			0	0%	0%	0	0%	0%	0	0	8	0%	0%	0	0%	0%	0	8
	SWBL	2	2			0	0%	0%	0	0%	0%	0	0	2	0%	0%	0	0%	0%	0	2
	SWBT	46	46			0	0%	0%	0	0%	0%	0	0	46	0%	0%	0	0%	0%	0	46
PHF = 0.88	SWBR	4	4			0	0%	0%	0	0%	0%	0	0	4	0%	0%	0	0%	0%	0	4
TOTAL	0112.1	416	420	0	0	0	0%	0%	0	13%	13%	17	17	437	13%	13%	6	10%	15%	11	442
	NBL	15	15	i -	Ī	0	0%	0%	0	0%	0%	0	0	15	0%	3%	0	0%	61%	16	31
	NBT	198	200			0	0%	0%	0	13%	0%	2	2	202	4%	0%	1	0%	0%	0	201
	NBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
4_Venera	SBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
Avenue &	SBT	172	174			0	0%	0%	0	0%	13%	15	15	189	0%	4%	0	0%	0%	0	188
Yumuri Street	SBR	15	15			0	0%	0%	0	0%	0%	0	0	15	0%	9%	1	0%	15%	4	18
(U)	EBL	28	28			0	0%	0%	0	0%	0%	0	0	28	9%	0%	3	10%	0%	7	32
	EBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	EBR	20	20			0	0%	0%	0	0%	0%	0	0	20	3%	0%	1	44%	0%	32	51
	WBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
PHF = 0.76	WBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
TOTAL		448	452	0	0	0	0%	0%	0	13%	13%	17	17	469	16%	16%	8	54%	76%	59	521

1500 Venera & 1537 San Remo - AM Intersection Assignment

	MOVE	EVICTING	BACKGROUND		UHealth	1	Pased	de la R	iviera	1515	Sunset	Drive	COM	FUTURE	EXI	STING U	SES		PROJECT		FUTURE
INTERSECTION	MOVE	EXISTING	Growth rate: 0.5%	Out	In	Total	Out	In	Total	Out	In	Total	COM	wo	Out	ln	Total	Out	In	Total	WITH
		2016	No. of years: 2	0	0	0	90	87	177	16	114	130		PROJECT	37	12	49	72	27	99	PROJECT
	NBL	20	20			0	0%	0%	0	10%	0%	2	2	22	0%	10%	1	0%	0%	0	21
	NBT	133	134			0	0%	0%	0	13%	0%	2	2	136	0%	6%	1	0%	28%	8	143
	NBR SBL	0 0	0 0			0	0% 0%	0% 0%	0	0% 0%	0% 0%	0	0	0 0	0% 0%	0% 0%	0	0% 0%	0% 0%	0 0	0
5_San Remo	SBT	144	145			0	0%	0%	0	0%	13%	15	15	160	9%	0%	3	44%	0%	32	189
Avenu & Yumuri	SBR	54	55			0	0%	0%	0	0%	0%	0	0	55	0%	0%	0	0%	0%	0	55
Street (U)	EBL	53	54			0	0%	0%	0	0%	0%	0	0	54	0%	0%	0	0%	30%	8	62
	EBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	EBR	21	21			0	0%	0%	0	0%	20%	23	23	44	13%	0%	5	0%	0%	0	39
	WBL	25	25			0	0%	0%	0	0%	3%	3	3	29	0%	0%	0	0%	0%	0	29
PHF = 0.81	WBT	24	24			0	0%	0%	0	0%	0%	0	0	24	0%	3%	0	0%	0%	0	24
	WBR	27	27	_		0	0%	0%	0	0%	0%	0	0	27	0%	3%	0	0%	3%	1 10	28
TOTAL	CDI	501	506	0	0	0	0%	0%	0	23%	36%	45	45	551	22%	22%	11	44%	61%	48	588
6_Sunset Drive&	SBL SBR	50 106	51 107			0	0% 0%	0% 0%	0	12%	0% 0%	2 8	2 8	52 115	12% 10%	0% 0%	4 4	12% 32%	0%	9 23	57 135
Yumuri Street	EBL	94	95			0	0% 0%	0% 0%	0	52% 0%	0% 33%	38	38	133	0%	10%	1	32% 0%	0% 19%	23 5	135
(S)	EBT	469	474			0	0%	0%	0	0%	0%	0	0	474	0%	0%	Ó	0%	0%	0	474
	WBT	318	321			ő	0%	0%	Ö	0%	0%	0	0	321	0%	0%	0	0%	0%	Ö	321
PHF = 0.90	WBR	48	48			0	0%	0%	0	0%	9%	10	10	59	0%	6%	1	0%	9%	2	60
TOTAL		1085	1096	0	0	0	0%	0%	0	64%	42%	58	58	1154	22%	16%	10	44%	28%	39	1183
	NBL	38	38			0	0%	0%	0	0%	0%	0	0	38	0%	0%	0	0%	0%	0	38
	NBT	116	117		4	4	0%	5%	4	0%	0%	0	8	126	0%	0%	0	0%	0%	0	126
	NBR	29	29			0	0%	0%	0	0%	0%	0	0	29	0%	3%	0	0%	0%	0	29
7_San Remo	SBL	21	21	4		0	0%	0%	0	0%	0%	0	0	21	0%	0%	0	0%	0%	0	21
Avenue & Nervia	SBT SBR	80 53	81 54	1		1 0	5% 0%	0% 0%	5 0	0% 0%	0% 0%	0	6 0	86 54	0% 0%	0% 0%	0	0% 0%	0% 0%	0 0	86 54
Street (U)	EBL	0	0			0	0% 0%	0%	0	0%	0%	0	0	0	0% 0%	0% 0%	0	0%	0%	0	0
	EBT	0	0			0	0%	0%	0	0%	0%	0	0	Ö	0%	0%	0	0%	0%	0	0
	EBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBL	18	18			0	0%	0%	0	0%	3%	3	3	22	0%	0%	0	0%	0%	0	22
PHF = 0.64	WBT	39	39			0	0%	0%	0	0%	0%	0	0	39	0%	3%	0	0%	3%	1	40
	WBR	13	13			0	0%	0%	0	0%	0%	0	0	13	0%	0%	0	0%	0%	0	13
TOTAL		407	411	1	4	5	5%	5%	9	0%	3%	3	17	428	0%	6%	1	0%	3%	1	428
	NBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	NBT	0	0 0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	NBR SBL	0 22	22	0		0	0% 2%	0% 0%	0 2	0% 0%	0% 0%	0	0 2	0 24	0% 0%	0% 0%	0	0% 0%	0% 0%	0 0	0 24
8_Sunset Drive	SBT	0	0	U		0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
& Nervia Street	SBR	88	89	1		1	3%	0%	3	0%	0%	0	4	93	0%	0%	0	0%	0%	0	93
(U)	EBL	163	165	•	2	2	0%	3%	3	0%	0%	0	5	169	0%	0%	0	0%	0%	0	169
	EBT	394	398			0	0%	0%	0	12%	0%	2	2	400	12%	0%	4	12%	0%	9	404
	EBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
PHF = 0.87	WBT	271	274			0	0%	0%	0	0%	9%	10	10	284	0%	6%	1	0%	9%	2	286
	WBR	65	66	<u> </u>	2	2	0%	2%	2	0%	0%	0	4	69	0%	3%	0	0%	0%	0	69
TOTAL	ND	1003	1013	1	4	5	5%	5%	9	12%	9%	12	26	1039	12%	9%	6	12%	9%	11	1045
9_Project	NBL NBR	0 0	0 0			0			0			0	0	0 0			0	46%	0% 0%	33	33
Driveway & San	EBT	48	0 48			0			0			0	0	48			4	54% 0%	0%	39 0	39 44
Remo Avet	EBR	0	0			0			0			0	0	0			0	0%	24%	6	6
(U)	WBL	0	0			0			0			0	0	0			0	0%	76%	21	21
PHF = 0.87	WBT	30	30			0			0			0	0	30			1	0%	0%	0	29
TOTAL		78	79	0	0	0	0%	0%	0	0%	0%	0	0	79	0%	0%	6	100%	100%	99	172
							-,-		-	-,-											

Venera- PM Intersection Assignment

	1101/5	=>//O=!\	BACKGROUND		UHealtl	1	Paseo	de la F	Riviera	1515	Sunset	Drive	0011	FUTURE	EX	ISTING U	SES		PROJEC	Γ	FUTURE
INTERSECTION	MOVE	EXISTING	Growth rate: 0.5%	Out	In	Total	Out	In	Total	Out	In	Total	COM	wo	Out	In	Total	Out	In	Total	WITH
	MENT	2016	No. of years: 2	0	0	0	102	123	225	122	25	147	DEV	PROJECT	24	43	67	53	84	137	PROJECT
	NBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	NBT	397	401		19	19	0%	5%	6	13%	0%	16	41	442	0%	10%	4	0%	14%	12	449
	NBR	77	78			0	0%	0%	0	0%	0%	0	0	78	0%	13%	6	0%	0%	0	72
1_Red Road &	SBL	86	87			0	0%	0%	0	0%	20%	5	5	92	0%	20%	9	0%	30%	25	108
San Remo	SBT	513	518	49		49	5%	0%	5	0%	22%	6	60	578	20%	0%	5	20%	0%	11	584
Avenue	SBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
(S)	EBL	15	15			0	0%	0%	0	0%	0%	0	0	15	0%	0%	0	0%	0%	0	15
	EBT	13	13			0	0%	0%	0	0%	0%	0	0	13	0%	0%	0	0%	0%	0	13
	EBR	45	45			0	0%	0%	0	0%	0%	0	0	45	0%	0%	0	0%	0%	0	45
	WBL	208	210			0	0%	0%	0	0%	0%	0	0	210	22%	0%	5	0%	0%	0	205
PHF =0.95	WBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBR	129	130			0	0%	0%	0	10%	0%	12	12	142	11%	0%	3	0%	0%	0	140
TOTAL	NIDI #	1483	1498	49	19	68	5%	5%	11	23%	42%	39	118	1616	53%	43%	31	20%	44%	48	1632
	NBL*	0	0		40	0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	NBT NBR	442 84	446 85		19	19 0	0% 0%	5% 0%	6 0	23% 0%	0% 0%	28 0	53 0	500 85	11% 0%	0% 10%	3 4	0% 0%	0% 14%	0 12	497 92
	SBL*	0 4 127	128			0	0% 0%	0% 0%	0	0%	0%	0	0	128	0%	32%	14	0%	10%	8	123
2_Red Road &	SBT	475	480	49		49	5%	0%	5	0%	42%	11	65	544	0%	20%	9	0%	30%	25	561
Madruga Avenue	SBR	0	0	43		0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
(U)	EBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	EBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	EBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBL	113	114			0	0%	0%	0	0%	0%	0	0	114	20%	0%	5	20%	0%	11	120
	WBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
PHF = 0.97	WBR*	116	117			0	0%	0%	0	0%	0%	0	0	117	12%	0%	3	26%	0%	14	128
TOTAL		1357	1371	49	19	68	5%	5%	11	23%	42%	39	118	1488	43%	62%	37	46%	54%	70	1521
	NWBL	16	16			0	0%	0%	0	0%	0%	0	0	16	0%	0%	0	0%	0%	0	16
	NWBT	61	62			0	0%	0%	0	13%	0%	16	16	77	13%	0%	3	10%	0%	5	80
	NWBR	4	4			0	0%	0%	0	0%	0%	0	0	4	0%	0%	0	0%	0%	0	4
3_Madruga	SEBL	13	13			0	0%	0%	0	0%	0%	0	0	13	0%	0%	0	0%	0%	0	13
Avenue &	SEBT	57	58			0	0%	0%	0	0%	13%	3	3	61	0%	13%	6	0%	15%	13	68
Yumuri Street	SEBR	50	51			0	0%	0%	0	0%	0%	0	0	51	0%	0%	0	0%	0%	0	51
(U)	NEBL	69	70 70			0	0%	0%	0	0%	0%	0	0	70	0%	0%	0	0%	0%	0	70
	NEBT	72	73			0	0%	0%	0	0%	0%	0	0	73	0%	0%	0	0%	0%	0	73
	NEBR	27	27			0	0%	0%	0	0%	0%	0	0	27	0%	0%	0	0%	0%	0	27
	SWBL SWBT	12 101	12 102			0	0% 0%	0% 0%	0	0% 0%	0% 0%	0 0	0 0	12 102	0% 0%	0% 0%	0	0% 0%	0% 0%	0	12 102
PHF = 0.85	SWBR	24	24			0	0% 0%	0% 0%	0	0%	0%	0	0	24	0%	0%	0	0%	0%	0	24
TOTAL	SWDIX	506	511	0	0	0	0%	0%	0	13%	13%	19	19	530	13%	13%	9	10%	15%	18	539
	NBL	26	26			0	0%	0%	0	0%	0%	0	0	26	0%	3%	1	0%	61%	51	76
	NBT	322	325			0	0%	0%	0	13%	0%	16	16	341	4%	0%	1	0%	0%	0	340
	NBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
4_Venera	SBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
Avenue &	SBT	286	289			0	0%	0%	0	0%	13%	3	3	292	0%	4%	2	0%	0%	0	290
Yumuri Street	SBR	25	25			0	0%	0%	0	0%	0%	0	0	25	0%	9%	4	0%	15%	13	34
(U)	EBL	27	27			0	0%	0%	0	0%	0%	0	0	27	0%	0%	0	10%	0%	5	33
	EBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	EBR	44	44			0	0%	0%	0	0%	0%	0	0	44	3%	0%	1	44%	0%	23	67
	WBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
PHF = 0.89	WBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
TOTAL		730	737	0	0	0	0%	0%	0	13%	13%	19	19	756	7%	16%	9	54%	76%	92	840

Venera- PM Intersection Assignment

	MOVE	EVICTING	BACKGROUND		UHealth	1	Pased	de la F	Riviera	1515	Sunset	Drive	COM	FUTURE	EX	STING U	SES		PROJEC	ſ	FUTURE
INTERSECTION	MOVE MENT	EXISTING	Growth rate: 0.5%	Out	In	Total	Out	In	Total	Out	In	Total	COM DEV	wo	Out	In	Total	Out	In	Total	WITH
	MILITI	2016	No. of years: 2	0	0	0	102	123	225	122	25	147	DLV	PROJECT	24	43	67	53	84	137	PROJECT
	NBL	29	29			0	0%	0%	0	10%	0%	12	12	41	0%	10%	4	0%	0%	0	37
	NBT	175	177			0	0%	0%	0	13%	0%	16	16	193	0%	6%	3	0%	28%	24	214
	NBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
5_San Remo	SBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
Avenu & Yumuri	SBT	215	217			0	0%	0%	0	0%	13%	3	3	220	9%	0%	2	44%	0%	23	242
Street (U)	SBR	100	101 147			0	0%	0%	0	0%	0%	0	0	101	0%	0%	0	0%	0%	0	101
	EBL EBT	146 0	0			0	0% 0%	0% 0%	0	0% 0%	0% 0%	0	0 0	147 0	0% 0%	0% 0%	0	0% 0%	30% 0%	25 0	173 0
	EBR	119	120			0	0%	0%	0	0%	20%	5	5	125	13%	0%	3	0%	0%	0	122
	WBL	37	37			0	0%	0%	0	0%	3%	1	1	38	0%	0%	0	0%	0%	0	38
	WBT	63	64			0	0%	0%	0	0%	0%	0	0	64	0%	3%	1	0%	0%	0	62
PHF = 0.96	WBR	29	29			0	0%	0%	0	0%	0%	0	0	29	0%	3%	1	0%	3%	3	31
TOTAL		913	922	0	0	0	0%	0%	0	23%	36%	37	37	959	22%	22%	15	44%	61%	75	1019
	NBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	NBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	NBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
6 Support Drive?	SBL	187	189			0	0%	0%	0	12%	0%	15	15	204	12%	0%	3	12%	0%	6	207
6_Sunset Drive& Yumuri Street	SBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
(S)	SBR	163	165			0	0%	0%	0	52%	0%	63	63	228	10%	0%	2	32%	0%	17	243
(3)	EBL	128	129			0	0%	0%	0	0%	33%	8	8	138	0%	10%	4	0%	19%	16	149
	EBT	368	372			0	0%	0%	0	0%	0%	0	0	372	0%	0%	0	0%	0%	0	372
	EBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
PHF = 0.92	WBT	292	295			0	0%	0%	0	0%	0%	0	0	295	0%	0%	0	0%	0%	0	295
	WBR	51	52			0	0%	0%	0	0%	9%	2	2	54	0%	6%	3	0%	9%	8	59
TOTAL	NDI	1189	1201	0	0	0	0%	0%	0	64%	42%	89	89	1289	22%	16%	12	44%	28%	47	1324
	NBL NBT	41	41 94		2	0	0%	0%	0	0% 0%	0%	0	0	41	0%	0%	0	0%	0%	0	41
	NBR	93 17	17		2	2	0% 0%	5%	6 0	0% 0%	0% 0%	0	8 0	102 17	0% 0%	0% 3%	0	0% 0%	0% 0%	0	102
	SBL	21	21			0	0%	0% 0%	0	0%	0%	0	0	21	0%	0%	0	0%	0%	0	16 21
7_San Remo	SBT	95	96	5		5	5%	0%	5	0%	0%	0	10	106	0%	0%	0	0%	0%	0	106
Avenue & Nervia	SBR	24	24			0	0%	0%	0	0%	0%	0	0	24	0%	0%	0	0%	0%	0	24
Street (U)	EBL	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	EBT	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	EBR	0	0			0	0%	0%	0	0%	0%	0	0	0	0%	0%	0	0%	0%	0	0
	WBL	53	54			0	0%	0%	0	0%	3%	1	1	54	0%	0%	0	0%	0%	0	54
DUE 0.00	WBT	79	80			0	0%	0%	0	0%	0%	0	0	80	0%	3%	1	0%	3%	3	81
PHF = 0.88	WBR	24	24			0	0%	0%	0	0%	0%	0	0	24	0%	0%	0	0%	0%	0	24
TOTAL		447	451	5	2	7	5%	5%	11	0%	3%	1	19	470	0%	6%	3	0%	3%	3	470
8 Sunset Drive	SBL	52	53	2		2	2%	0%	2	0%	0%	0	4	57	0%	0%	0	0%	0%	0	57
& Nervia Street	SBR	77	78	3		3	3%	0%	3	0%	0%	0	6	84	0%	0%	0	0%	0%	0	84
(U)	EBL	59	60		1	1	0%	3%	4	0%	0%	0	5	64	0%	0%	0	0%	0%	0	64
(-)	EBT	352	356			0	0%	0%	0	12%	0%	15	15	370	12%	0%	3	12%	0%	6	374
PHF = 0.94	WBT	271	274			0	0%	0%	0	0%	9%	2	2	276	0%	6%	3	0%	9%	8	281
	WBR	64	65		1	1 -	0%	2%	2	0%	0%	0	3	68	0%	3%	1 -	0%	0%	0	67
TOTAL	ND	875	884	5	2	7	5%	5%	11	12%	9%	17	35	919	12%	9%	7	12%	9%	14	926
9_Project	NBL	0	0			0			0			0	0	0			0	46%	0%	24	24
Driveway & San	NBR	71	0			0			0			0	0	0 72			0	54%	0%	29	29 71
Remo Avet	EBT EBR	71	72 0			0			0			0	0	72 0			0	0% 0%	0% 24%	0 20	71 20
(U)	WBL	0 0	0			0			0			0	0	0			0	0%	76%	64	64
PHF = 0.94	WBT	51	52			0			0			0	0	52			5	0%	0%	0	46
TOTAL	WDI	122	123	0	0	0	0%	0%	0	0%	0%	0	0	123	0%	0%	6	100%	100%	137	254
TOTAL		122	123	U	U	U	U%	U%	U	U%	U%	U	U	123	U%	U%	0	100%	100%	13/	204

Existing Conditions

	•	→	\rightarrow	•	←	•	•	†	/	>	ţ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7	7		7		∱ î≽		ሻ	^	
Traffic Volume (vph)	6	5	21	41	0	44	0	495	113	126	522	0
Future Volume (vph)	6	5	21	41	0	44	0	495	113	126	522	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lane Util. Factor		1.00	1.00	1.00		1.00		0.95		1.00	0.95	
Frpb, ped/bikes		1.00	1.00	1.00		1.00		0.99		1.00	1.00	
Flpb, ped/bikes		0.93	1.00	0.96		1.00		1.00		0.98	1.00	
Frt		1.00	0.85	1.00		0.85		0.97		1.00	1.00	
Flt Protected		0.97	1.00	0.95		1.00		1.00		0.95	1.00	
Satd. Flow (prot)		1695	1583	1704		1583		3402		1742	3539	
Flt Permitted		0.97	1.00	0.36		1.00		1.00		0.40	1.00	
Satd. Flow (perm)		1695	1583	638		1583		3402		742	3539	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	6	5	22	44	0	47	0	527	120	134	555	0
RTOR Reduction (vph)	0	0	21	0	0	42	0	5	0	0	0	0
Lane Group Flow (vph)	0	11	1	44	0	5	0	642	0	134	555	0
Confl. Peds. (#/hr)	44		50	50		44	9		7	7		9
Confl. Bikes (#/hr)			1			1			4			2
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Actuated Green, G (s)		5.4	5.4	19.5		19.5		157.5		157.5	157.5	
Effective Green, g (s)		5.4	5.4	19.5		19.5		157.5		157.5	157.5	
Actuated g/C Ratio		0.03	0.03	0.10		0.10		0.83		0.83	0.83	
Clearance Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Vehicle Extension (s)		2.5	2.5	2.0		2.5		1.0		1.0	1.0	
Lane Grp Cap (vph)		48	44	110		162		2820		615	2933	
v/s Ratio Prot			0.00	c0.02		0.00		c0.19			0.16	
v/s Ratio Perm		0.01		c0.02						0.18		
v/c Ratio		0.23	0.01	0.40		0.03		0.23		0.22	0.19	
Uniform Delay, d1		90.3	89.7	78.6		76.7		3.4		3.4	3.3	
Progression Factor		1.00	1.00	1.00		1.00		1.00		1.00	1.00	
Incremental Delay, d2		1.8	0.1	0.9		0.1		0.2		0.8	0.1	
Delay (s)		92.0	89.8	79.5		76.8		3.6		4.2	3.4	
Level of Service		F	F	Е		Е		Α		Α	Α	
Approach Delay (s)		90.6			78.1			3.6			3.6	
Approach LOS		F			Е			Α			Α	
Intersection Summary												
HCM 2000 Control Delay			10.2	Н	CM 2000	Level of S	Service		В			
HCM 2000 Volume to Capac	ity ratio		0.25									
Actuated Cycle Length (s)			190.0	S	um of lost	t time (s)			19.0			
Intersection Capacity Utilizat	ion		63.2%	IC	U Level	of Service			В			
Analysis Period (min)			15									

c Critical Lane Group

1: Red Road & San Remo Avenue

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7	7		7		∱ ∱		7	44	
Traffic Volume (vph)	6	5	21	41	0	44	0	495	113	126	522	0
Future Volume (vph)	6	5	21	41	0	44	0	495	113	126	522	0
Confl. Peds. (#/hr)	44		50	50		44	9		7	7		9
Confl. Bikes (#/hr)			1			1			4			2
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Detector Phase	8	8	8	7		4		6		2	2	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0		5.0		5.0		5.0	5.0	
Minimum Split (s)	27.0	27.0	27.0	26.0		56.0		28.0		28.0	28.0	
Total Split (s)	30.0	30.0	30.0	26.0		56.0		134.0		134.0	134.0	
Total Split (%)	15.8%	15.8%	15.8%	13.7%		29.5%		70.5%		70.5%	70.5%	
Yellow Time (s)	4.0	4.0	4.0	4.0		4.0		4.0		4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0		2.0		3.0		3.0	3.0	
Lost Time Adjust (s)		0.0	0.0	0.0		0.0		0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lead/Lag	Lag	Lag	Lag	Lead								
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Recall Mode	None	None	None	None		None		C-Max		C-Max	C-Max	

Intersection Summary

Cycle Length: 190 Actuated Cycle Length: 190

Offset: 94 (49%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Natural Cycle: 85

Control Type: Actuated-Coordinated



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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7	7		7		∱ ∱		ሻ	^	
Traffic Volume (vph)	15	13	45	208	0	129	0	397	77	86	513	0
Future Volume (vph)	15	13	45	208	0	129	0	397	77	86	513	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lane Util. Factor		1.00	1.00	1.00		1.00		0.95		1.00	0.95	
Frpb, ped/bikes		1.00	1.00	1.00		1.00		0.99		1.00	1.00	
Flpb, ped/bikes		0.96	1.00	0.98		1.00		1.00		0.97	1.00	
Frt		1.00	0.85	1.00		0.85		0.98		1.00	1.00	
Flt Protected		0.97	1.00	0.95		1.00		1.00		0.95	1.00	
Satd. Flow (prot)		1738	1583	1739		1583		3414		1725	3539	
Flt Permitted		0.97	1.00	0.40		1.00		1.00		0.47	1.00	
Satd. Flow (perm)		1738	1583	736		1583		3414		852	3539	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	16	14	47	219	0	136	0	418	81	91	540	0
RTOR Reduction (vph)	0	0	45	0	0	118	0	6	0	0	0	0
Lane Group Flow (vph)	0	30	2	219	0	18	0	493	0	91	540	0
Confl. Peds. (#/hr)	29		21	21		29	6		9	9		6
Confl. Bikes (#/hr)			1			1			2			2
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Actuated Green, G (s)		7.2	7.2	25.2		25.2		151.8		151.8	151.8	
Effective Green, g (s)		7.2	7.2	25.2		25.2		151.8		151.8	151.8	
Actuated g/C Ratio		0.04	0.04	0.13		0.13		0.80		0.80	0.80	
Clearance Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Vehicle Extension (s)		2.5	2.5	2.0		2.5		1.0		1.0	1.0	
Lane Grp Cap (vph)		65	59	160		209		2727		680	2827	
v/s Ratio Prot			0.00	c0.09		0.01		0.14			c0.15	
v/s Ratio Perm		0.02		c0.09						0.11		
v/c Ratio		0.46	0.03	1.37		0.09		0.18		0.13	0.19	
Uniform Delay, d1		89.5	88.0	80.7		72.3		4.5		4.3	4.5	
Progression Factor		1.00	1.00	1.00		1.00		1.00		1.00	1.00	
Incremental Delay, d2		3.7	0.2	200.5		0.1		0.1		0.4	0.2	
Delay (s)		93.2	88.2	281.2		72.4		4.6		4.7	4.7	
Level of Service		F	F	F		Е		Α		Α	Α . –	
Approach Delay (s)		90.2			201.2			4.6			4.7	
Approach LOS		F			F			Α			А	
Intersection Summary												
HCM 2000 Control Delay			53.5	Н	CM 2000	Level of S	Service		D			
HCM 2000 Volume to Capacit	y ratio		0.35									
Actuated Cycle Length (s)			190.0		um of lost				19.0			
Intersection Capacity Utilization	n		55.8%	IC	CU Level of	of Service			В			
Analysis Period (min)			15									

c Critical Lane Group

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7	7		7		∱ ∱		ሻ	^	
Traffic Volume (vph)	15	13	45	208	0	129	0	397	77	86	513	0
Future Volume (vph)	15	13	45	208	0	129	0	397	77	86	513	0
Confl. Peds. (#/hr)	29		21	21		29	6		9	9		6
Confl. Bikes (#/hr)			1			1			2			2
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Detector Phase	8	8	8	7		4		6		2	2	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0		5.0		5.0		5.0	5.0	
Minimum Split (s)	27.0	27.0	27.0	18.0		44.0		28.0		28.0	28.0	
Total Split (s)	28.0	28.0	28.0	18.0		46.0		144.0		144.0	144.0	
Total Split (%)	14.7%	14.7%	14.7%	9.5%		24.2%		75.8%		75.8%	75.8%	
Yellow Time (s)	4.0	4.0	4.0	4.0		4.0		4.0		4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0		2.0		3.0		3.0	3.0	
Lost Time Adjust (s)		0.0	0.0	0.0		0.0		0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lead/Lag	Lag	Lag	Lag	Lead								
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Recall Mode	None	None	None	None		None		C-Max		C-Max	C-Max	

Intersection Summary

Cycle Length: 190 Actuated Cycle Length: 190

Offset: 94 (49%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Natural Cycle: 75

Control Type: Actuated-Coordinated



Intersection						
Int Delay, s/veh	4.8					
Movement	NBT	NBR	SBL	SBT	SWL	SWR
Lane Configurations	<u>↑</u>	ווטוז	SDL Š	† †		
Traffic Vol, veh/h	426	140	161	TT 582	73	72
Future Vol, veh/h	426	140	161	582	73	72
	420	2	2	0	0	0
Conflicting Peds, #/hr		Free				
Sign Control RT Channelized	Free -	None	Free	Free None	Stop	Stop
	-	None -	92	none -		Stop 50
Storage Length	-		92		0	
Veh in Median Storage, #		-		0	0	-
Grade, %	0	-	- 00	0	0	- 00
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	473	156	179	647	81	80
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	631	0	1234	316
Stage 1	-	-	-	-	553	-
Stage 2	-	-	-	-	681	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-			-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy			2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	947	-	169	680
Stage 1	-	-	-	-	540	-
Stage 2	_	-	-	-	464	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	-	947	-	137	679
Mov Cap-2 Maneuver	-	-	-	-	137	-
Stage 1		-	-		539	-
Stage 2	-	-		-	376	-
					370	
A I	l In		0.7		6111	
Approach	NB		SB		SW	
HCM Control Delay, s	0		2.1		37.5	
HCM LOS					E	
Minor Lane/Major Mvmt	NBT NBR	SBL	SBTSWLn18	SWLn2		
Capacity (veh/h)		947	- 137	679		
HCM Lane V/C Ratio		0.189	- 0.592			
HCM Control Delay (s)		9.7	- 63.7	11		
HCM Lane LOS		Α	- F	В		
HCM 95th %tile Q(veh)		0.7	- 3	0.4		

Intersection						
Int Delay, s/veh	5.5					
Movement	NBT	NBR	SBL	SBT	SWL	SWR
Lane Configurations	† ‡	11511	ኝ	^	ኝ	7
Traffic Vol, veh/h	442	84	127	475	113	116
Future Vol, veh/h	442	84	127	475	113	116
Conflicting Peds, #/hr	0	11	11	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None		None		Stop
Storage Length		-	92	-	0	50
Veh in Median Storage, #	. 0	-	-	0	0	-
Grade, %	0		-	0	0	_
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	456	87	131	490	116	120
	.00	,		.00		
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	553	0	1017	282
Stage 1	-	-	-	-	510	-
Stage 2		-	_		507	
Critical Hdwy		-	4.14	-	6.84	6.94
Critical Hdwy Stg 1			-		5.84	- 0.04
Critical Hdwy Stg 2		-	-		5.84	-
Follow-up Hdwy			2.22		3.52	3.32
Pot Cap-1 Maneuver	_		1013		234	715
Stage 1			-		568	-
Stage 2			-		570	_
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	_	-	1013	-	202	708
Mov Cap-2 Maneuver	-	-	-	_	202	-
Stage 1	_	-		-	562	-
Stage 2	-	-		_	496	
						
Approach	NB		SB		SW	
HCM Control Delay, s	0		1.9		27.6	
HCM LOS					D	
Minor Lane/Major Mvmt	NBT NBR	SBL	SBTSWLn18	SWLn2		
Capacity (veh/h)		1013	- 202	708		
HCM Lane V/C Ratio		0.129	- 0.577	0.169		
HCM Control Delay (s)		9.1	- 44.6	11.1		
HCM Lane LOS		Α	- E	В		
HCM 95th %tile Q(veh)		0.4	- 3.2	0.6		

Intersection			
Intersection Delay, s/veh	8.7		
Intersection LOS	Α		

Movement	SEU	SEL	SET	SER	NWU	NWL	NWT	NWR	NEU	NEL	NET	NER
Lane Configurations			4				4				4	
Traffic Vol, veh/h	0	25	64	66	0	6	20	3	0	50	122	8
Future Vol, veh/h	0	25	64	66	0	6	20	3	0	50	122	8
Peak Hour Factor	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	28	73	75	0	7	23	3	0	57	139	9
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		SE				NW				NE		
Opposing Approach		NW				SE				SW		
Opposing Lanes		1				1				1		
Conflicting Approach Left		C/W				NE				SE.		

Арргоаст	SE.	INVV	INC
Opposing Approach	NW	SE	SW
Opposing Lanes	1	1	1
Conflicting Approach Left	SW	NE	SE
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NE	SW	NW
Conflicting Lanes Right	1	1	1
HCM Control Delay	8.6	8	9.1
HCM LOS	А	Α	Α

Vol Left, % 28% 21% 16% 4%
Vol Thru, % 68% 69% 41% 88%
Vol Right, % 4% 10% 43% 8%
Sign Control Stop Stop Stop
Traffic Vol by Lane 180 29 155 52
LT Vol 50 6 25 2
Through Vol 122 20 64 46
RT Vol 8 3 66 4
Lane Flow Rate 205 33 176 59
Geometry Grp 1 1 1 1
Degree of Util (X) 0.256 0.043 0.214 0.076
Departure Headway (Hd) 4.509 4.733 4.367 4.607
Convergence, Y/N Yes Yes Yes Yes
Cap 798 756 823 777
Service Time 2.533 2.764 2.39 2.637
HCM Lane V/C Ratio 0.257 0.044 0.214 0.076
HCM Control Delay 9.1 8 8.6 8
HCM Lane LOS A A A A
HCM 95th-tile Q 1 0.1 0.8 0.2

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Intersection Delay, s/veh Intersection LOS

Movement	SWU	SWL	SWT	SWR
Lane Configurations			4	
Traffic Vol, veh/h	0	2	46	4
Future Vol, veh/h	0	2	46	4
Peak Hour Factor	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	2	52	5
Number of Lanes	0	0	1	0
Approach		SW		
Opposing Approach		NE		
Opposing Lanes		1		
Conflicting Approach Left		NW		
Conflicting Lanes Left		1		
		SE		
Conflicting Approach Right				
Conflicting Approach Right Conflicting Lanes Right		1		
		1 8		

Intersection		
Intersection Delay, s/veh	9	
Intersection LOS	Α	

Movement	SEU	SEL	SET	SER	NWU	NWL	NWT	NWR	NEU	NEL	NET	NER
Lane Configurations			4				4				4	
Traffic Vol, veh/h	0	13	57	50	0	16	61	4	0	69	72	27
Future Vol, veh/h	0	13	57	50	0	16	61	4	0	69	72	27
Peak Hour Factor	0.92	0.85	0.85	0.85	0.92	0.85	0.85	0.85	0.92	0.85	0.85	0.85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	15	67	59	0	19	72	5	0	81	85	32
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		SE				NW				NE		
Opposing Approach		NW				SE				SW		
Opposing Lanes		1				1				1		
Conflicting Approach Left		SW				NE				SE		
Conflicting Lanes Left		1				1				1		
Conflicting Approach Right		NE				SW				NW		
Conflicting Lanes Right		1				1				1		
HCM Control Delay		8.8				8.8				9.4		
HCM LOS		Α				Α				Α		

Lane	NELn1	NWLn1	SELn1	SWLn1	
Vol Left, %	41%	20%	11%	9%	
Vol Thru, %	43%	75%	47%	74%	
Vol Right, %	16%	5%	42%	18%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	168	81	120	137	
LT Vol	69	16	13	12	
Through Vol	72	61	57	101	
RT Vol	27	4	50	24	
Lane Flow Rate	198	95	141	161	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.257	0.131	0.183	0.208	
Departure Headway (Hd)	4.68	4.964	4.672	4.652	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	765	719	765	769	
Service Time	2.725	3.018	2.721	2.7	
HCM Lane V/C Ratio	0.259	0.132	0.184	0.209	
HCM Control Delay	9.4	8.8	8.8	8.9	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	1	0.4	0.7	8.0	

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Intersection Delay, s/veh Intersection LOS

Movement	SWU	SWL	SWT	SWR
Lane Configurations			4	
Traffic Vol, veh/h	0	12	101	24
Future Vol, veh/h	0	12	101	24
Peak Hour Factor	0.92	0.85	0.85	0.85
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	14	119	28
Number of Lanes	0	0	1	0
Approach		SW		
Opposing Approach		NE		
Opposing Lanes		1		
Conflicting Approach Left		NW		
Conflicting Lanes Left		1		
Conflicting Approach Right		SE		
Conflicting Lanes Right		1		
HCM Control Delay		8.9		
HCM LOS		Α		

Intersection						
	1.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			4	4	
Traffic Vol, veh/h	28	20	15	198	172	15
Future Vol, veh/h	28	20	15	198	172	15
Conflicting Peds, #/hr	0	4	3	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0		-	0	0	_
Grade, %	0	_	-	0	0	_
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	37	26	20	261	226	20
					LLU	
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	539	243	249	0	-	0
Stage 1	239	0	_	-		-
Stage 2	300		_	_		_
Critical Hdwy	6.42	6.22	4.12	_		_
Critical Hdwy Stg 1	5.42	- 0.22	T.12	_		_
Critical Hdwy Stg 2	5.42			_		_
Follow-up Hdwy	3.518	3.318	2.218	_		_
Pot Cap-1 Maneuver	503	796	1317	_		_
Stage 1	801	- 700	- 1017	_		
Stage 2	752	-	-			_
Platoon blocked, %	102					
Mov Cap-1 Maneuver	491	791	1312			_
Mov Cap-1 Maneuver	491	- 131	1012		_	
Stage 1	799	-	-	-	- -	-
Stage 2	736		_	_		_
Olago Z	700		_		-	
Approach	EB		NB		SB	
HCM Control Delay, s	11.9		0.5		0	
HCM LOS	В		0.0		U U	
Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT SBR			
Capacity (veh/h)	1312	- 583				
HCM Lane V/C Ratio	0.015	- 0.108				
HCM Control Delay (s)	7.8	0 11.9				
HCM Lane LOS	A	A B				
HCM 95th %tile Q(veh)	0	- 0.4				
	•	V. 1				

Intersection						
Int Delay, s/veh	1.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	W			4	1 -	
Traffic Vol, veh/h	27	44	26	322	286	25
Future Vol, veh/h	27	44	26	322	286	25
Conflicting Peds, #/hr	0	7	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	
Storage Length	0	-	-	-		-
Veh in Median Storage, #		-	-	0	0	_
Grade, %	0	-	_	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	30	49	29	362	321	28
					- ULI	
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	760	347	354	0	-	0
Stage 1	340	-	-	-		-
Stage 2	420	-	_			
Critical Hdwy	6.42	6.22	4.12	_		_
Critical Hdwy Stg 1	5.42	-	-	_		-
Critical Hdwy Stg 2	5.42	-		_		_
Follow-up Hdwy	3.518	3.318	2.218			
Pot Cap-1 Maneuver	374	696	1205	-		-
Stage 1	721	-	-	_		
Stage 2	663	-	-	-		-
Platoon blocked, %	- 000			_		
Mov Cap-1 Maneuver	359	688	1197	-		-
Mov Cap-2 Maneuver	359	-	-	_		
Stage 1	718	-	-	-		-
Stage 2	640	-	_	_		_
Olago Z	0-10					
Approach	EB		NB		SB	
HCM Control Delay, s	13.4		0.6		0	
HCM LOS	В					
<u></u>						
Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT SBR			
Capacity (veh/h)	1197	- 510				
HCM Lane V/C Ratio	0.024	- 0.156				
HCM Control Delay (s)	8.1	0 13.4				
HCM Lane LOS	A	A B				
HCM 95th %tile Q(veh)	0.1	- 0.6				
(1011)		- 0.0				

Intersection			
Intersection Delay, s/veh	9.2		
Intersection LOS	Α		

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations			4				4				4	
Traffic Vol, veh/h	0	53	0	21	0	25	24	27	0	20	133	0
Future Vol, veh/h	0	53	0	21	0	25	24	27	0	20	133	0
Peak Hour Factor	0.92	0.81	0.81	0.81	0.92	0.81	0.81	0.81	0.92	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	65	0	26	0	31	30	33	0	25	164	0
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		EB				WB				NB		
Opposing Approach		WB				EB				SB		
Opposing Lanes		1				1				1		
Conflicting Approach Left		SB				NB				EB		
Conflicting Lanes Left		1				1				1		
Conflicting Approach Right		NB				SB				WB		
Conflicting Lanes Right		1				1				1		
HCM Control Delay		8.8				8.7				9.3		
HCM LOS		Α				Α				Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	13%	72%	33%	0%	
Vol Thru, %	87%	0%	32%	73%	
Vol Right, %	0%	28%	36%	27%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	153	74	76	198	
LT Vol	20	53	25	0	
Through Vol	133	0	24	144	
RT Vol	0	21	27	54	
Lane Flow Rate	189	91	94	244	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.246	0.127	0.128	0.302	
Departure Headway (Hd)	4.695	5.02	4.899	4.453	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	763	711	728	804	
Service Time	2.739	3.076	2.953	2.494	
HCM Lane V/C Ratio	0.248	0.128	0.129	0.303	
HCM Control Delay	9.3	8.8	8.7	9.4	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	1	0.4	0.4	1.3	

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Intersection Delay, s/veh Intersection LOS

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Movement	SBU	SBL	SBT	SBR
Lane Configurations			-î	
Traffic Vol, veh/h	0	0	144	54
Future Vol, veh/h	0	0	144	54
Peak Hour Factor	0.92	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	0	178	67
Number of Lanes	0	0	1	0
Approach			SB	
Opposing Approach			NB	
Opposing Lanes			1	
Conflicting Approach Left			WB	
Conflicting Lanes Left			1	
Conflicting Approach Right			EB	
Conflicting Lanes Right			1	
HCM Control Delay			9.4	
HCM LOS			Α	

Intersection	
Intersection Delay, s/veh	12.3
Intersection LOS	В

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations			4				†				र्स	
Traffic Vol, veh/h	0	146	0	119	0	37	63	29	0	29	175	0
Future Vol, veh/h	0	146	0	119	0	37	63	29	0	29	175	0
Peak Hour Factor	0.92	0.96	0.96	0.96	0.92	0.96	0.96	0.96	0.92	0.96	0.96	0.96
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	152	0	124	0	39	66	30	0	30	182	0
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		EB				WB				NB		
Opposing Approach		WB				EB				SB		
Opposing Lanes		1				1				1		
Conflicting Approach Left		SB				NB				EB		
Conflicting Lanes Left		1				1				1		
Conflicting Approach Right		NB				SB				WB		
Conflicting Lanes Right		1				1				1		
HCM Control Delay		12.5				10.5				11.6		
HCM LOS		В				В				В		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	14%	55%	29%	0%	
Vol Thru, %	86%	0%	49%	68%	
Vol Right, %	0%	45%	22%	32%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	204	265	129	315	
LT Vol	29	146	37	0	
Through Vol	175	0	63	215	
RT Vol	0	119	29	100	
Lane Flow Rate	213	276	134	328	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.335	0.421	0.218	0.481	
Departure Headway (Hd)	5.669	5.496	5.841	5.277	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Сар	631	651	611	679	
Service Time	3.73	3.554	3.909	3.332	
HCM Lane V/C Ratio	0.338	0.424	0.219	0.483	
HCM Control Delay	11.6	12.5	10.5	13.2	
HCM Lane LOS	В	В	В	В	
HCM 95th-tile Q	1.5	2.1	8.0	2.6	

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Intersection Delay, s/veh Intersection LOS

intersection LOS					
Movement	SBU	SBL	SBT	SBR	
Lane Configurations			£		
Traffic Vol, veh/h	0	0	215	100	
Future Vol, veh/h	0	0	215	100	
Peak Hour Factor	0.92	0.96	0.96	0.96	
Heavy Vehicles, %	2	2	2	2	
Mvmt Flow	0	0	224	104	
Number of Lanes	0	0	1	0	
Approach			SB		
Opposing Approach			NB		
Opposing Lanes			1		
Conflicting Approach Left			WB		
Conflicting Lanes Left			1		
Conflicting Approach Right			EB		
Conflicting Lanes Right			1		
HCM Control Delay			13.2		
HCM LOS			В		

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Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	ኻ	<u> </u>	1	*****	ሻ	7		
Traffic Volume (vph)	94	469	318	48	50	106		
Future Volume (vph)	94	469	318	48	50	106		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	3.0	5.0	5.0	1000	5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00		1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00		1.00	1.00		
Flpb, ped/bikes	1.00	1.00	1.00		1.00	1.00		
Frt	1.00	1.00	0.98		1.00	0.85		
Flt Protected	0.95	1.00	1.00		0.95	1.00		
Satd. Flow (prot)	1752	1845	1806		1752	1568		
Flt Permitted	0.42	1.00	1.00		0.95	1.00		
Satd. Flow (perm)	771	1845	1806		1752	1568		
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90		
Adj. Flow (vph)	104	521	353	53	56	118		
RTOR Reduction (vph)	0	0	7	0	0	81		
Lane Group Flow (vph)	104	521	399	0	56	37		
Confl. Peds. (#/hr)	3	02.	000	3	4	O.		
Confl. Bikes (#/hr)				2	•			
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%		
Turn Type	pm+pt	NA	NA			custom		
Protected Phases	1	6	2		8	8		
Permitted Phases	6		_			1		
Actuated Green, G (s)	55.0	55.0	45.0		20.0	27.0		
Effective Green, g (s)	55.0	55.0	45.0		20.0	27.0		
Actuated g/C Ratio	0.65	0.65	0.53		0.24	0.32		
Clearance Time (s)	3.0	5.0	5.0		5.0	5.0		
Lane Grp Cap (vph)	579	1193	956		412	590		
v/s Ratio Prot	0.01	c0.28	0.22		c0.03	0.01		
v/s Ratio Perm	0.10				33.00	0.01		
v/c Ratio	0.18	0.44	0.42		0.14	0.06		
Uniform Delay, d1	6.2	7.4	12.1		25.7	20.2		
Progression Factor	1.00	1.00	1.00		1.00	1.00		
Incremental Delay, d2	0.7	1.2	1.3		0.7	0.2		
Delay (s)	6.9	8.5	13.4		26.4	20.4		
Level of Service	Α	Α	В		С	С		
Approach Delay (s)		8.3	13.4		22.3			
Approach LOS		Α	В		С			
Intersection Summary								
HCM 2000 Control Delay			12.0	НС	CM 2000	Level of Serv	ice	В
HCM 2000 Volume to Cap	acity ratio		0.37					
Actuated Cycle Length (s)			85.0	Su	ım of los	st time (s)		13.0
Intersection Capacity Utiliz			42.4%			of Service		A
Analysis Period (min)			15					
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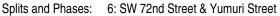
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Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	*	†	f)		7	7
Traffic Volume (vph)	94	469	318	48	50	106
Future Volume (vph)	94	469	318	48	50	106
Confl. Peds. (#/hr)	3			3	4	
Confl. Bikes (#/hr)				2		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Turn Type	pm+pt	NA	NA		Prot	custom
Protected Phases	1	6	2		8	8
Permitted Phases	6					1
Detector Phase	1	6	2		8	8
Switch Phase						
Minimum Initial (s)	5.0	15.0	15.0		7.0	7.0
Minimum Split (s)	9.5	23.0	23.0		23.0	23.0
Total Split (s)	10.0	60.0	50.0		25.0	25.0
Total Split (%)	11.8%	70.6%	58.8%		29.4%	29.4%
Yellow Time (s)	3.0	4.0	4.0		4.0	4.0
All-Red Time (s)	0.0	1.0	1.0		1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	3.0	5.0	5.0		5.0	5.0
Lead/Lag	Lead		Lag			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Max	Max	Max		Max	Max

Intersection Summary

Cycle Length: 85
Actuated Cycle Length: 85

Offset: 77.5 (91%), Referenced to phase 2:WBT and 6:EBTL, Start of Yellow

Natural Cycle: 60 Control Type: Pretimed





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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	*	†	1 >		*	7	
Traffic Volume (vph)	128	368	292	51	187	163	
Future Volume (vph)	128	368	292	51	187	163	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	3.0	5.0	5.0		5.0	5.0	
Lane Util. Factor	1.00	1.00	1.00		1.00	1.00	
Frpb, ped/bikes	1.00	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	1.00	0.98		1.00	0.85	
Flt Protected	0.95	1.00	1.00		0.95	1.00	
Satd. Flow (prot)	1752	1845	1802		1752	1568	
Flt Permitted	0.47	1.00	1.00		0.95	1.00	
Satd. Flow (perm)	871	1845	1802		1752	1568	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	
Adj. Flow (vph)	139	400	317	55	203	177	
RTOR Reduction (vph)	0	0	6	0	0	134	
Lane Group Flow (vph)	139	400	366	0	203	43	
Confl. Peds. (#/hr)	100	100	000		9	10	
Confl. Bikes (#/hr)				2	U		
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%	
Turn Type	pm+pt	NA	NA	070		custom	
Protected Phases	1	6	2		8	8	
Permitted Phases	6	U			U	1	
Actuated Green, G (s)	60.5	60.5	51.2		14.5	20.8	
Effective Green, g (s)	60.5	60.5	51.2		14.5	20.8	
Actuated g/C Ratio	0.71	0.71	0.60		0.17	0.24	
Clearance Time (s)	3.0	5.0	5.0		5.0	5.0	
Vehicle Extension (s)	2.0	1.0	1.0		2.5	2.5	
Lane Grp Cap (vph)	685	1313	1085		298	475	
v/s Ratio Prot	0.02	c0.22	c0.20		c0.12	0.02	
v/s Ratio Perm	0.02	60.22	60.20		60.12	0.02	
v/c Ratio	0.13	0.30	0.34		0.68	0.01	
Uniform Delay, d1	4.2	4.5	8.4		33.1	24.8	
Progression Factor	1.00	1.00	1.00		1.00	1.00	
Incremental Delay, d2	0.1	0.6	0.8		5.8	0.1	
Delay (s)	4.2	5.1	9.3		38.8	24.9	
Level of Service	4.2 A	3.1 A	9.5 A		30.0 D	24.9 C	
Approach Delay (s)	A	4.9	9.3		32.3	U	
Approach LOS		4.9 A	9.5 A		32.3 C		
••		A	А		U		
Intersection Summary							
HCM 2000 Control Delay			14.2	Н	CM 2000	Level of S	Service B
HCM 2000 Volume to Capac	city ratio		0.41				
Actuated Cycle Length (s)			85.0			st time (s)	13.0
Intersection Capacity Utilizat	tion		47.6%	IC	U Level	of Service	A
Analysis Period (min)			15				
c Critical Lane Group							

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Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ሻ	†	1		ሻ	7
Traffic Volume (vph)	128	368	292	51	187	163
Future Volume (vph)	128	368	292	51	187	163
Confl. Peds. (#/hr)					9	
Confl. Bikes (#/hr)				2		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Turn Type	pm+pt	NA	NA		Prot	custom
Protected Phases	1	6	2		8	8
Permitted Phases	6					1
Detector Phase	1	6	2		8	8
Switch Phase						
Minimum Initial (s)	5.0	15.0	15.0		7.0	7.0
Minimum Split (s)	9.5	23.0	23.0		23.0	23.0
Total Split (s)	10.0	60.0	50.0		25.0	25.0
Total Split (%)	11.8%	70.6%	58.8%		29.4%	29.4%
Yellow Time (s)	3.0	4.0	4.0		4.0	4.0
All-Red Time (s)	0.0	1.0	1.0		1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	3.0	5.0	5.0		5.0	5.0
Lead/Lag	Lead		Lag			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	None	C-Max	C-Max		None	None

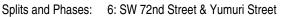
Intersection Summary

Cycle Length: 85 Actuated Cycle Length: 85

Offset: 77.5 (91%), Referenced to phase 2:WBT and 6:EBTL, Start of Yellow

Natural Cycle: 60

Control Type: Actuated-Coordinated





Intersection			
Intersection Delay, s/veh	9.6		
Intersection LOS	Α		

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations							4				4	
Traffic Vol, veh/h	0	0	0	0	0	18	39	13	0	38	116	29
Future Vol, veh/h	0	0	0	0	0	18	39	13	0	38	116	29
Peak Hour Factor	0.92	0.64	0.64	0.64	0.92	0.64	0.64	0.64	0.92	0.64	0.64	0.64
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	28	61	20	0	59	181	45
Number of Lanes	0	0	0	0	0	0	1	0	0	0	1	0

Approach	WB	NB
Opposing Approach		SB
Opposing Lanes	0	1
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right	SB	WB
Conflicting Lanes Right	1	1
HCM Control Delay	9.1	9.9
HCM LOS	Α	Α

Lane	NBLn1	WBLn1	SBLn1	
Vol Left, %	21%	26%	14%	_
Vol Thru, %	63%	56%	52%	
Vol Right, %	16%	19%	34%	
Sign Control	Stop	Stop	Stop	
Traffic Vol by Lane	183	70	154	
LT Vol	38	18	21	
Through Vol	116	39	80	
RT Vol	29	13	53	
Lane Flow Rate	286	109	273	
Geometry Grp	1	1	1	
Degree of Util (X)	0.354	0.154	0.33	
Departure Headway (Hd)	4.451	5.082	4.346	
Convergence, Y/N	Yes	Yes	Yes	
Cap	809	703	827	
Service Time	2.48	3.13	2.376	
HCM Lane V/C Ratio	0.354	0.155	0.33	
HCM Control Delay	9.9	9.1	9.5	
HCM Lane LOS	Α	Α	Α	
HCM 95th-tile Q	1.6	0.5	1.4	

Intersection					
Intersection Delay, s/veh					
Intersection LOS					
Movement	SBU	SBL	SBT	SBR	
Lane Configurations			4		
Traffic Vol, veh/h	0	21	80	53	
Future Vol, veh/h	0	21	80	53	
Peak Hour Factor	0.92	0.64	0.64	0.46	
Heavy Vehicles, %	2	2	2	2	
Mvmt Flow	0	33	125	115	
Number of Lanes	0	0	1	0	
Approach		SB			
Opposing Approach		NB			

Intersection			
Intersection Delay, s/veh	8.8		
Intersection LOS	Α		

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations							4				4	
Traffic Vol, veh/h	0	0	0	0	0	53	79	24	0	41	93	17
Future Vol, veh/h	0	0	0	0	0	53	79	24	0	41	93	17
Peak Hour Factor	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	60	90	27	0	47	106	19
Number of Lanes	0	0	0	0	0	0	1	0	0	0	1	0

Approach	WB	NB
Opposing Approach		SB
Opposing Lanes	0	1
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right	SB	WB
Conflicting Lanes Right	1	1
HCM Control Delay	9.1	8.8
HCM LOS	Α	Α

Lane	NBLn1	WBLn1	SBLn1	
Vol Left, %	27%	34%	15%	
Vol Thru, %	62%	51%	68%	
Vol Right, %	11%	15%	17%	
Sign Control	Stop	Stop	Stop	
Traffic Vol by Lane	151	156	140	
LT Vol	41	53	21	
Through Vol	93	79	95	
RT Vol	17	24	24	
Lane Flow Rate	172	177	159	
Geometry Grp	1	1	1	
Degree of Util (X)	0.216	0.229	0.198	
Departure Headway (Hd)	4.531	4.66	4.487	
Convergence, Y/N	Yes	Yes	Yes	
Cap	793	771	800	
Service Time	2.557	2.689	2.513	
HCM Lane V/C Ratio	0.217	0.23	0.199	
HCM Control Delay	8.8	9.1	8.6	
HCM Lane LOS	Α	Α	Α	
HCM 95th-tile Q	8.0	0.9	0.7	

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Intersection Delay, s/veh Intersection LOS

Movement	SBU	SBL	SBT	SBR
Lane Configurations		·	4	
Traffic Vol, veh/h	0	21	95	24
Future Vol, veh/h	0	21	95	24
Peak Hour Factor	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	24	108	27
Number of Lanes	0	0	1	0
Approach		SB		
Opposing Approach		NB		
Opposing Lanes		1		
Conflicting Approach Left		WB		
Conflicting Lanes Left		1		
Conflicting Approach Right				
_		0		
Conflicting Lanes Right		•		
Conflicting Lanes Right HCM Control Delay		8.6		

Intersection								
Int Delay, s/veh	3.1							
Movement	EBL	EBT			WBT	WBR	SBL	SBR
Lane Configurations		4			ĵ.		*	1
Traffic Vol, veh/h	163	394			271	65	22	88
Future Vol, veh/h	163	394			271	65	22	88
Conflicting Peds, #/hr	8	0			0	8	1	1
Sign Control	Free	Free			Free	Free	Stop	Stop
RT Channelized	-				-		-	None
Storage Length	-	-			-		0	75
Veh in Median Storage, #	<u> </u>	0			0	-	0	-
Grade, %	-	0			0	-	0	-
Peak Hour Factor	87	87			87	87	87	87
Heavy Vehicles, %	2	2			2	2	2	2
Mvmt Flow	187	453			311	75	25	101
Major/Minor	Major1				Major2		Minor2	
Conflicting Flow All	394	0			-	0	1186	358
Stage 1	-	-			-	•	357	-
Stage 2	-	-			-	-	829	-
Critical Hdwy	4.12	-			-	-	6.42	6.22
Critical Hdwy Stg 1	-	-			-	-	5.42	-
Critical Hdwy Stg 2	-	-			-	-	5.42	-
Follow-up Hdwy	2.218	-			-	-	3.518	3.318
Pot Cap-1 Maneuver	1165	-			-	-	208	686
Stage 1	-	-			-	-	708	-
Stage 2	-	-			-	-	429	-
Platoon blocked, %		-			-	-		
Mov Cap-1 Maneuver	1164	-			-	-	161	680
Mov Cap-2 Maneuver	-	-			-	-	161	-
Stage 1	-	-			-	-	703	-
Stage 2	-	-			-	-	334	-
Approach	EB				WB		SB	
HCM Control Delay, s	2.5				0		15.3	
HCM LOS					- 3		C	
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1	SBL n2			
Capacity (veh/h)	1164		-	- 161	680			
HCM Lane V/C Ratio	0.161	-	-	- 0.157				
HCM Control Delay (s)	8.7	0	_	- 31.5	11.2			
HCM Lane LOS	Α	A	-	- D	В			
HCM 95th %tile Q(veh)	0.6	-	_	- 0.5	0.5			
TOM OUT JUIL Q(VOII)	0.0			0.0	0.0			

Intersection								
Int Delay, s/veh	2.6							
Movement	EBL	EBT			WBT	WBR	SBL	SBR
Lane Configurations		र्स			ĵ.		*	7
Traffic Vol, veh/h	59	352			271	64	52	77
Future Vol, veh/h	59	352			271	64	52	77
Conflicting Peds, #/hr	9	0			0	9	0	0
Sign Control	Free	Free			Free	Free	Stop	Stop
RT Channelized	-	None			-		<u>.</u>	None
Storage Length		-				-	0	75
Veh in Median Storage, #	-	0			0	-	0	-
Grade, %	-	0			0	-	0	-
Peak Hour Factor	94	94			94	94	94	94
Heavy Vehicles, %	2	2			2	2	2	2
Mvmt Flow	63	374			288	68	55	82
Major/Minor	Major1				Major2		Minor2	
Conflicting Flow All	365	0			-	0	831	331
Stage 1	-	-			_	-	331	-
Stage 2		-			-	-	500	-
Critical Hdwy	4.12	-			_	-	6.42	6.22
Critical Hdwy Stg 1		-				-	5.42	-
Critical Hdwy Stg 2	-	-			_	-	5.42	-
Follow-up Hdwy	2.218	-			-	-	3.518	3.318
Pot Cap-1 Maneuver	1194	-			-	-	340	711
Stage 1	-	-			-	-	728	-
Stage 2	-	-			-	-	609	-
Platoon blocked, %		-			-	-		
Mov Cap-1 Maneuver	1194	-			-	-	312	705
Mov Cap-2 Maneuver	-	-			-		312	-
Stage 1	-	-			-		722	-
Stage 2	-	-			-		563	-
ŭ								
Approach	EB				WB		SB	
HCM Control Delay, s	1.2				0		14.1	
HCM LOS	1.2						В	
							<u> </u>	
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1	SBLn2			
Capacity (veh/h)	1194			- 312				
HCM Lane V/C Ratio	0.053	-	-	- 0.177				
HCM Control Delay (s)	8.2	0	-	- 19				
HCM Lane LOS	Α	A	-	- C				
HCM 95th %tile Q(veh)	0.2	-	-	- 0.6				
(1011)	V.L			5.0	V. I			

Future without Project Conditions

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7	Į,		7		∱ ∱		J.	† †	
Traffic Volume (vph)	6	5	21	41	0	46	0	551	114	150	569	0
Future Volume (vph)	6	5	21	41	0	46	0	551	114	150	569	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lane Util. Factor		1.00	1.00	1.00		1.00		0.95		1.00	0.95	
Frpb, ped/bikes		1.00	1.00	1.00		1.00		0.99		1.00	1.00	
Flpb, ped/bikes		0.93	1.00	0.96		1.00		1.00		0.99	1.00	
Frt		1.00	0.85	1.00		0.85		0.97		1.00	1.00	
Flt Protected		0.97	1.00	0.95		1.00		1.00		0.95	1.00	
Satd. Flow (prot)		1695	1583	1704		1583		3413		1745	3539	
Flt Permitted		0.97	1.00	0.36		1.00		1.00		0.38	1.00	
Satd. Flow (perm)		1695	1583	638		1583		3413		697	3539	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	6	5	22	44	0	49	0	586	121	160	605	0
RTOR Reduction (vph)	0	0	21	0	0	44	0	5	0	0	0	0
Lane Group Flow (vph)	0	11	1	44	0	5	0	702	0	160	605	0
Confl. Peds. (#/hr)	44		50	50		44	9		7	7		9
Confl. Bikes (#/hr)			1			1			4			2
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Actuated Green, G (s)		5.4	5.4	19.5		19.5		157.5		157.5	157.5	
Effective Green, g (s)		5.4	5.4	19.5		19.5		157.5		157.5	157.5	
Actuated g/C Ratio		0.03	0.03	0.10		0.10		0.83		0.83	0.83	
Clearance Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Vehicle Extension (s)		2.5	2.5	2.0		2.5		1.0		1.0	1.0	
Lane Grp Cap (vph)		48	44	110		162		2829		577	2933	
v/s Ratio Prot			0.00	c0.02		0.00		0.21			0.17	
v/s Ratio Perm		0.01		c0.02						c0.23		
v/c Ratio		0.23	0.01	0.40		0.03		0.25		0.28	0.21	
Uniform Delay, d1		90.3	89.7	78.6		76.7		3.5		3.6	3.4	
Progression Factor		1.00	1.00	1.00		1.00		1.00		1.00	1.00	
Incremental Delay, d2		1.8	0.1	0.9		0.1		0.2		1.2	0.2	
Delay (s)		92.0	89.8	79.5		76.8		3.7		4.8	3.5	
Level of Service		F	F	Е		Е		Α		Α	Α	
Approach Delay (s)		90.6			78.1			3.7			3.8	
Approach LOS		F			Е			Α			Α	
Intersection Summary												
HCM 2000 Control Delay			9.9	Н	CM 2000	Level of S	Service		Α			
HCM 2000 Volume to Capac	ity ratio		0.30									
Actuated Cycle Length (s)			190.0		um of lost				19.0			
Intersection Capacity Utilizati	ion		64.8%	IC	U Level	of Service			С			
Analysis Period (min)			15									

c Critical Lane Group

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્ન	7	7		7		∱ î≽		7	^	
Traffic Volume (vph)	6	5	21	41	0	46	0	551	114	150	569	0
Future Volume (vph)	6	5	21	41	0	46	0	551	114	150	569	0
Confl. Peds. (#/hr)	44		50	50		44	9		7	7		9
Confl. Bikes (#/hr)			1			1			4			2
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Detector Phase	8	8	8	7		4		6		2	2	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0		5.0		5.0		5.0	5.0	
Minimum Split (s)	27.0	27.0	27.0	26.0		56.0		28.0		28.0	28.0	
Total Split (s)	30.0	30.0	30.0	26.0		56.0		134.0		134.0	134.0	
Total Split (%)	15.8%	15.8%	15.8%	13.7%		29.5%		70.5%		70.5%	70.5%	
Yellow Time (s)	4.0	4.0	4.0	4.0		4.0		4.0		4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0		2.0		3.0		3.0	3.0	
Lost Time Adjust (s)		0.0	0.0	0.0		0.0		0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lead/Lag	Lag	Lag	Lag	Lead								
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Recall Mode	None	None	None	None		None		C-Max		C-Max	C-Max	

Cycle Length: 190 Actuated Cycle Length: 190

Offset: 94 (49%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Natural Cycle: 85

Control Type: Actuated-Coordinated





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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	7	Ť		7		∱ î≽		7	^	
Traffic Volume (vph)	15	13	45	210	0	142	0	442	78	92	578	0
Future Volume (vph)	15	13	45	210	0	142	0	442	78	92	578	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lane Util. Factor		1.00	1.00	1.00		1.00		0.95		1.00	0.95	
Frpb, ped/bikes		1.00	1.00	1.00		1.00		0.99		1.00	1.00	
Flpb, ped/bikes Frt		0.96 1.00	1.00 0.85	0.98 1.00		1.00 0.85		1.00 0.98		0.98	1.00 1.00	
Fit Protected		0.97	1.00	0.95		1.00		1.00		1.00 0.95	1.00	
Satd. Flow (prot)		1738	1583	1739		1583		3423		1728	3539	
Flt Permitted		0.97	1.00	0.40		1.00		1.00		0.45	1.00	
Satd. Flow (perm)		1738	1583	736		1583		3423		813	3539	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	16	14	47	221	0.00	149	0.00	465	82	97	608	0.00
RTOR Reduction (vph)	0	0	45	0	0	129	0	5	0	0	0	0
Lane Group Flow (vph)	0	30	2	221	0	20	0	542	0	97	608	0
Confl. Peds. (#/hr)	29		21	21		29	6	<u> </u>	9	9		6
Confl. Bikes (#/hr)			1			1			2			2
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Actuated Green, G (s)		7.2	7.2	25.2		25.2		151.8		151.8	151.8	
Effective Green, g (s)		7.2	7.2	25.2		25.2		151.8		151.8	151.8	
Actuated g/C Ratio		0.04	0.04	0.13		0.13		0.80		0.80	0.80	
Clearance Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Vehicle Extension (s)		2.5	2.5	2.0		2.5		1.0		1.0	1.0	
Lane Grp Cap (vph)		65	59	160		209		2734		649	2827	
v/s Ratio Prot		0.00	0.00	c0.09		0.01		0.16		0.40	c0.17	
v/s Ratio Perm		0.02	0.00	c0.10		0.00		0.00		0.12	0.00	
v/c Ratio Uniform Delay, d1		0.46 89.5	0.03	1.38 80.7		0.09 72.4		0.20 4.6		0.15 4.4	0.22 4.6	
Progression Factor		1.00	1.00	1.00		1.00		1.00		1.00	1.00	
Incremental Delay, d2		3.7	0.2	205.6		0.1		0.2		0.5	0.2	
Delay (s)		93.2	88.2	286.2		72.5		4.7		4.8	4.8	
Level of Service		50. <u>E</u>	66. <u>E</u>	F		72.0 E		Α.		Α.	Α.	
Approach Delay (s)		90.2	•	•	200.2	_		4.7		• •	4.8	
Approach LOS		F			F			Α			A	
Intersection Summary												
HCM 2000 Control Delay			51.2	H	CM 2000	Level of S	Service		D			
HCM 2000 Volume to Capa	city ratio		0.38		2111 2000	_0,010101	251 1100					
Actuated Cycle Length (s)	,		190.0	Sı	um of lost	time (s)			19.0			
Intersection Capacity Utiliza	tion		56.7%			of Service			В			
Analysis Period (min)			15									
0 111 11												

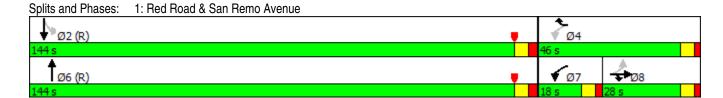
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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4	7	7		7		∱ ∱		ሻ	44	
Traffic Volume (vph)	15	13	45	210	0	142	0	442	78	92	578	0
Future Volume (vph)	15	13	45	210	0	142	0	442	78	92	578	0
Confl. Peds. (#/hr)	29		21	21		29	6		9	9		6
Confl. Bikes (#/hr)			1			1			2			2
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Bus Blockages (#/hr)	0	0	0	0	0	0	0	0	0	0	0	0
Parking (#/hr)												
Mid-Block Traffic (%)		0%			0%			0%			0%	
Shared Lane Traffic (%)												
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Detector Phase	8	8	8	7		4		6		2	2	
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0		5.0		5.0		5.0	5.0	
Minimum Split (s)	27.0	27.0	27.0	18.0		46.0		28.0		28.0	28.0	
Total Split (s)	28.0	28.0	28.0	18.0		46.0		144.0		144.0	144.0	
Total Split (%)	14.7%	14.7%	14.7%	9.5%		24.2%		75.8%		75.8%	75.8%	
Yellow Time (s)	4.0	4.0	4.0	4.0		4.0		4.0		4.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0		2.0		3.0		3.0	3.0	
Lost Time Adjust (s)		0.0	0.0	0.0		0.0		0.0		0.0	0.0	
Total Lost Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lead/Lag	Lag	Lag	Lag	Lead								
Lead-Lag Optimize?	Yes	Yes	Yes	Yes								
Recall Mode	None	None	None	None		None		C-Max		C-Max	C-Max	

Cycle Length: 190 Actuated Cycle Length: 190

Offset: 94 (49%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Natural Cycle: 75

Control Type: Actuated-Coordinated



Intersection						
Int Delay, s/veh	5.6					
Movement	NBT	NBR	SBL	SBT	SWL	SWR
Lane Configurations	<u>↑</u>	וטוו	JDL T	1	<u> </u>	7
Traffic Vol, veh/h	463	141	163	652	74	73
Future Vol, veh/h	463	141	163	652	74	73
Conflicting Peds, #/hr	403	2	2	002	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	riee -	None		None	Stop -	Stop
Storage Length	-	None -	92	None -	0	510p
Veh in Median Storage, #	- \$ 0	-	92	0	0	50
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	90	2	2	90
Mvmt Flow	514	157	181	724	82	81
IVIVIIIL FIOW	314	157	101	124	02	01
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	673	0	1319	338
Stage 1	-	-	-	-	595	-
Stage 2	-	-	-	-	724	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2		-	-	-	5.84	-
Follow-up Hdwy			2.22	-	3.52	3.32
Pot Cap-1 Maneuver		-	914	-	149	658
Stage 1	-	-	-	-	514	-
Stage 2		-	-	-	441	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver		-	914	-	119	657
Mov Cap-2 Maneuver	-	-	-	-	119	-
Stage 1	-	-	-	-	513	-
Stage 2	-	-	-	-	354	-
Approach	NB		SB		SW	
			2			
HCM LOS	0		2		48.5	
HCM LOS					E	
Minor Lane/Major Mvmt	NBT NBR	SBL	SBTSWLn1S	SWLn2		
Capacity (veh/h)			- 119	657		
HCM Lane V/C Ratio		0.198	- 0.691			
HCM Control Delay (s)		9.9	- 85.1	11.3		
HCM Lane LOS		Α.	- F	В		
HCM 95th %tile Q(veh)		0.7	- 3.7	0.4		
ricivi ootii /otiic Q(voii)		0.7	0.7	0.7		

Intersection						
Int Delay, s/veh	6.5					
-		NDD	ODI	ODT	014//	OWD
Movement	NBT	NBR	SBL	SBT	SWL	SWR
Lane Configurations	↑ }	0.5	^	^	<u> </u>	7
Traffic Vol, veh/h	500	85	128	544	114	117
Future Vol, veh/h	500	85	128	544	114	117
Conflicting Peds, #/hr	_ 0	_ 11	_ 11	_ 0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	92	-	0	50
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	515	88	132	561	118	121
Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	614	0	1114	313
Stage 1	-	-	-	-	570	-
Stage 2	-	-	-	-	544	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	_
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	961	-	202	683
Stage 1	-	-	-	-	529	-
Stage 2		-		-	546	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	961	-	172	676
Mov Cap-2 Maneuver	-	-	-	-	172	
Stage 1	_	-		-	523	-
Stage 2	-	-	-	-	471	-
Approach	NB		SB		SW	
HCM Control Delay, s	0		1.8		36.4	
HCM LOS	0		1.0		30.4 E	
I IOIVI LOO					E	
Miner Long/Maiar March	NDT NDD	ODI	ODTOM: 40	NAIL := 0		
Minor Lane/Major Mvmt	NBT NBR	SBL	SBTSWLn19			
Capacity (veh/h)		961	- 172	676		
HCM Lane V/C Ratio		0.137	- 0.683			
HCM Control Delay (s)		9.3	- 62	11.5		
HCM Lane LOS		A	- F	В		
HCM 95th %tile Q(veh)		0.5	- 4.1	0.6		

Intersection		
Intersection Delay, s/veh	8.8	
Intersection LOS	Α	

Movement	SEU	SEL	SET	SER	NWU	NWL	NWT	NWR	NEU	NEL	NET	NER
Lane Configurations			4				4				4	
Traffic Vol, veh/h	0	25	79	67	0	6	22	3	0	51	123	8
Future Vol, veh/h	0	25	79	67	0	6	22	3	0	51	123	8
Peak Hour Factor	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	28	90	76	0	7	25	3	0	58	140	9
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		SE				NW				NE		
Opposing Approach		NW				SE				SW		
Opposing Lanes		1				1				1		
Conflicting Approach Left		SW				NE				SE		
Conflicting Lanes Left		1				1				1		
Conflicting Approach Right		NE				SW				NW		
Conflicting Lanes Right		1				1				1		
HCM Control Delay		8.8				8				9.2		
HCM LOS		Α				Α				Α		

Lane	NELn1	NWLn1	SELn1	SWLn1	
Vol Left, %	28%	19%	15%	4%	
Vol Thru, %	68%	71%	46%	88%	
Vol Right, %	4%	10%	39%	8%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	182	31	171	52	
LT Vol	51	6	25	2	
Through Vol	123	22	79	46	
RT Vol	8	3	67	4	
Lane Flow Rate	207	35	194	59	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.262	0.047	0.237	0.077	
Departure Headway (Hd)	4.558	4.766	4.397	4.663	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	788	750	816	767	
Service Time	2.587	2.802	2.425	2.698	
HCM Lane V/C Ratio	0.263	0.047	0.238	0.077	
HCM Control Delay	9.2	8	8.8	8.1	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	1	0.1	0.9	0.2	

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Movement	SWU	SWL	SWT	SWR
Lane Configurations			4	
Traffic Vol, veh/h	0	2	46	4
Future Vol, veh/h	0	2	46	4
Peak Hour Factor	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	2	52	5
Number of Lanes	0	0	1	0
Approach		SW		
Opposing Approach		NE		
Opposing Lanes		1		
Conflicting Approach Left		NW		
Conflicting Lanes Left		1		
Conflicting Approach Right		SE		
Conflicting Lanes Right		1		
HCM Control Delay		8.1		
HCM LOS		Α		

Intersection		
Intersection Delay, s/veh	9.2	
Intersection LOS	Α	

Movement	SEU	SEL	SET	SER	NWU	NWL	NWT	NWR	NEU	NEL	NET	NER
Lane Configurations			4				4				4	
Traffic Vol, veh/h	0	13	61	51	0	16	77	4	0	70	73	27
Future Vol, veh/h	0	13	61	51	0	16	77	4	0	70	73	27
Peak Hour Factor	0.92	0.85	0.85	0.85	0.92	0.85	0.85	0.85	0.92	0.85	0.85	0.85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	15	72	60	0	19	91	5	0	82	86	32
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		SE				NW				NE		
Opposing Approach		NW				SE				SW		
Opposing Lanes		1				1				1		
Conflicting Approach Left		SW				NE				SE		
Conflicting Lanes Left		1				1				1		
Conflicting Approach Right		NE				SW				NW		
Conflicting Lanes Right		1				1				1		
HCM Control Delay		8.9				9				9.5		
HCM LOS		Α				Α				Α		

Lane	NELn1	NWLn1	SELn1	SWLn1	
Vol Left, %	41%	16%	10%	9%	
Vol Thru, %	43%	79%	49%	74%	
Vol Right, %	16%	4%	41%	17%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	170	97	125	138	
LT Vol	70	16	13	12	
Through Vol	73	77	61	102	
RT Vol	27	4	51	24	
Lane Flow Rate	200	114	147	162	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.264	0.158	0.193	0.213	
Departure Headway (Hd)	4.751	4.987	4.718	4.725	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Сар	752	714	756	755	
Service Time	2.804	3.05	2.777	2.781	
HCM Lane V/C Ratio	0.266	0.16	0.194	0.215	
HCM Control Delay	9.5	9	8.9	9.1	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	1.1	0.6	0.7	8.0	

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Movement	SWU	SWL	SWT	SWR
Lane Configurations			4	
Traffic Vol, veh/h	0	12	102	24
Future Vol, veh/h	0	12	102	24
Peak Hour Factor	0.92	0.85	0.85	0.85
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	14	120	28
Number of Lanes	0	0	1	0
		CVA		
Approach		SW		
Opposing Approach		SW NE		
Opposing Approach				
Opposing Approach Opposing Lanes		NE 1		
Opposing Approach Opposing Lanes Conflicting Approach Left		NE 1		
Opposing Approach Opposing Lanes Conflicting Approach Left Conflicting Lanes Left		NE 1 NW 1		
Opposing Approach Opposing Lanes Conflicting Approach Left Conflicting Lanes Left Conflicting Approach Right		NE 1 NW 1		

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Intersection	4 5					
Int Delay, s/veh	1.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			र्स	î	
Traffic Vol, veh/h	28	20	15	202	189	15
Future Vol, veh/h	28	20	15	202	189	15
Conflicting Peds, #/hr	0	4	3	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	† 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	37	26	20	266	249	20
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	567	266	271	0	Wajoiz	0
Stage 1	262	200	411	-	<u> </u>	-
Stage 2	305	_	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	<u> </u>	-
Critical Hdwy Stg 1	5.42	0.22	4.12	-	-	-
Critical Hdwy Stg 2	5.42	• •	-	-	<u> </u>	-
Follow-up Hdwy	3.518	3.318	2.218			
Pot Cap-1 Maneuver	485	773	1292	-	<u> </u>	-
Stage 1	782	-	1232			
Stage 2	748	_	-	-		
Platoon blocked, %	7 70			-		_
Mov Cap-1 Maneuver	474	768	1287	-		_
Mov Cap-2 Maneuver	474	-	1201	_		_
Stage 1	780	-	-	-		_
Stage 2	732	-	-	_		
Jugo L	702					
Annyagah	- FP		ND		00	
Approach	EB		NB 0.5		SB	
HCM Control Delay, s	12.2		0.5		0	
HCM LOS	В					
Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT SBR			
Capacity (veh/h)	1287	- 564				
HCM Lane V/C Ratio	0.015	- 0.112				
HCM Control Delay (s)	7.8	0 12.2				
HCM Lane LOS	Α	A B				
HCM 95th %tile Q(veh)	0	- 0.4				

Intercaction						
Intersection	1.6					
Int Delay, s/veh	1.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			ર્ન	4	
Traffic Vol, veh/h	27	44	26	341	292	25
Future Vol, veh/h	27	44	26	341	292	25
Conflicting Peds, #/hr	0	7	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	ŧ 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	30	49	29	383	328	28
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	789	354	361	0	-	0
Stage 1	347	-	-	-	_	-
Stage 2	442	-	_		-	
Critical Hdwy	6.42	6.22	4.12		_	
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	_	-	-		-
Follow-up Hdwy	3.518	3.318	2.218	-		-
Pot Cap-1 Maneuver	359	690	1198	-	-	-
Stage 1	716	-		-	-	
Stage 2	648	_	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	345	682	1190	-	-	-
Mov Cap-2 Maneuver	345	-	-	-	-	-
Stage 1	713	-	-	-	-	-
Stage 2	625	-	-	-	-	-
Ü						
Approach	EB		NB		SB	
HCM Control Delay, s	13.6		0.6		0	
HCM LOS	В		0.0			
Minor Lane/Major Mvmt	NBL	NBT EBLn1	SBT SBR			
Capacity (veh/h)	1190	- 497				
HCM Lane V/C Ratio	0.025	- 0.161				
HCM Control Delay (s)	8.1	0 13.6				
HCM Lane LOS	Α	A B				
HCM 95th %tile Q(veh)	0.1	- 0.6				
riow oour /ould Q(voll)	0.1	0.0				

Intersection		
Intersection Delay, s/veh	9.5	
Intersection LOS	Α	

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations			4				†				4	
Traffic Vol, veh/h	0	54	0	44	0	29	24	27	0	22	136	0
Future Vol, veh/h	0	54	0	44	0	29	24	27	0	22	136	0
Peak Hour Factor	0.92	0.81	0.81	0.81	0.92	0.81	0.81	0.81	0.92	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	67	0	54	0	36	30	33	0	27	168	0
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		EB				WB				NB		
Opposing Approach		WB				EB				SB		
Opposing Lanes		1				1				1		
Conflicting Approach Left		SB				NB				EB		
Conflicting Lanes Left		1				1				1		
Conflicting Approach Right		NB				SB				WB		
Conflicting Lanes Right		1				1				1		
HCM Control Delay		9.1				8.9				9.6		
HCM LOS		Α				Α				Α		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	14%	55%	36%	0%	
Vol Thru, %	86%	0%	30%	74%	
Vol Right, %	0%	45%	34%	26%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	158	98	80	215	
LT Vol	22	54	29	0	
Through Vol	136	0	24	160	
RT Vol	0	44	27	55	
Lane Flow Rate	195	121	99	265	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.261	0.167	0.138	0.337	
Departure Headway (Hd)	4.817	4.976	5.036	4.565	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	741	715	706	783	
Service Time	2.877	3.047	3.111	2.619	
HCM Lane V/C Ratio	0.263	0.169	0.14	0.338	
HCM Control Delay	9.6	9.1	8.9	9.9	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	1	0.6	0.5	1.5	

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Intersection LOS					
Movement	SBU	SBL	SBT	SBR	
Lane Configurations			£		
Traffic Vol, veh/h	0	0	160	55	
Future Vol, veh/h	0	0	160	55	
Peak Hour Factor	0.92	0.81	0.81	0.81	
Heavy Vehicles, %	2	2	2	2	
Mvmt Flow	0	0	198	68	
Number of Lanes	0	0	1	0	
Approach			SB		
Opposing Approach			NB		
Opposing Lanes			1		
Conflicting Approach Left			WB		
Conflicting Lanes Left			1		
Conflicting Approach Right			EB		
Conflicting Lanes Right			1		
HCM Control Delay			9.9		
HCM LOS			Α		

Intersection			
Intersection Delay, s/veh	12.9		
Intersection LOS	В		

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations			4				↑				र्स	
Traffic Vol, veh/h	0	147	0	125	0	38	64	29	0	41	193	0
Future Vol, veh/h	0	147	0	125	0	38	64	29	0	41	193	0
Peak Hour Factor	0.92	0.96	0.96	0.96	0.92	0.96	0.96	0.96	0.92	0.96	0.96	0.96
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	153	0	130	0	40	67	30	0	43	201	0
Number of Lanes	0	0	1	0	0	0	1	0	0	0	1	0
Approach		EB				WB				NB		
Opposing Approach		WB				EB				SB		
Opposing Lanes		1				1				1		
Conflicting Approach Left		SB				NB				EB		
Conflicting Lanes Left		1				1				1		
Conflicting Approach Right		NB				SB				WB		
Conflicting Lanes Right		1				1				1		
HCM Control Delay		13.1				10.9				12.5		
HCM LOS		В				В				В		

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	18%	54%	29%	0%	
Vol Thru, %	82%	0%	49%	69%	
Vol Right, %	0%	46%	22%	31%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	234	272	131	321	
LT Vol	41	147	38	0	
Through Vol	193	0	64	220	
RT Vol	0	125	29	101	
Lane Flow Rate	244	283	136	334	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.39	0.443	0.228	0.501	
Departure Headway (Hd)	5.755	5.627	6.009	5.397	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	622	638	592	665	
Service Time	3.828	3.697	4.094	3.465	
HCM Lane V/C Ratio	0.392	0.444	0.23	0.502	
HCM Control Delay	12.5	13.1	10.9	13.8	
HCM Lane LOS	В	В	В	В	
HCM 95th-tile Q	1.8	2.3	0.9	2.8	

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Intersection Delay, s/veh

Intersection LOS					
Movement	SBU	SBL	SBT	SBR	
Lane Configurations			f)		
Traffic Vol, veh/h	0	0	220	101	
Future Vol, veh/h	0	0	220	101	
Peak Hour Factor	0.92	0.96	0.96	0.96	
Heavy Vehicles, %	2	2	2	2	
Mvmt Flow	0	0	229	105	
Number of Lanes	0	0	1	0	
Approach			SB		
Opposing Approach			NB		
Opposing Lanes			1		
Conflicting Approach Left			WB		
Conflicting Lanes Left			1		
Conflicting Approach Right			EB		
Conflicting Lanes Right			1		
HCM Control Delay			13.8		
HCM LOS			В		

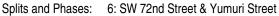
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Movement	EBL	EBT	WBT	WBR	SBL	SBR			
Lane Configurations	ች	†	^		ኘ	7			
Traffic Volume (vph)	133	474	321	59	52	115			
Future Volume (vph)	133	474	321	59	52	115			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900			
Total Lost time (s)	3.0	5.0	5.0		5.0	5.0			
Lane Util. Factor	1.00	1.00	1.00		1.00	1.00			
Frpb, ped/bikes	1.00	1.00	1.00		1.00	1.00			
Flpb, ped/bikes	1.00	1.00	1.00		1.00	1.00			
Frt	1.00	1.00	0.98		1.00	0.85			
Flt Protected	0.95	1.00	1.00		0.95	1.00			
Satd. Flow (prot)	1752	1845	1799		1752	1568			
Flt Permitted	0.40	1.00	1.00		0.95	1.00			
Satd. Flow (perm)	747	1845	1799		1752	1568			
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90			
Adj. Flow (vph)	148	527	357	66	58	128			
RTOR Reduction (vph)	0	0	8	0	0	87			
Lane Group Flow (vph)	148	527	415	0	58	41			
Confl. Peds. (#/hr)	3	02.		3	4				
Confl. Bikes (#/hr)	J			2	•				
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%			
Turn Type	pm+pt	NA	NA	• • • • • • • • • • • • • • • • • • • •		custom			
Protected Phases	1	6	2		8	8			
Permitted Phases	6		_		U	1			
Actuated Green, G (s)	55.0	55.0	45.0		20.0	27.0			
Effective Green, g (s)	55.0	55.0	45.0		20.0	27.0			
Actuated g/C Ratio	0.65	0.65	0.53		0.24	0.32			
Clearance Time (s)	3.0	5.0	5.0		5.0	5.0			
Lane Grp Cap (vph)	566	1193	952		412	590			
v/s Ratio Prot	0.02	c0.29	0.23		c0.03	0.02			
v/s Ratio Perm	0.02	00.23	0.20		00.00	0.02			
v/c Ratio	0.15	0.44	0.44		0.14	0.01			
Uniform Delay, d1	6.5	7.4	12.2		25.7	20.2			
Progression Factor	1.00	1.00	1.00		1.00	1.00			
Incremental Delay, d2	1.1	1.2	1.5		0.7	0.2			
Delay (s)	7.6	8.6	13.7		26.4	20.5			
Level of Service	7.0 A	0.0 A	В		20.4 C	20.3 C			
Approach Delay (s)		8.4	13.7		22.3	- 0			
Approach LOS		Α	В		ZZ.5				
		П			- 0				
Intersection Summary			10.0	1.17	214 0000) Laval of Oan '			
HCM 2000 Control Delay	noite rotin		12.2	H(JIVI 200() Level of Servio	e	В	
HCM 2000 Volume to Capa	acity ratio		0.38	C.	ım afla-	at time (a)		10.0	
Actuated Cycle Length (s)	otion		85.0			st time (s)		13.0	
Intersection Capacity Utiliz	auon		45.4%	iC	U Level	of Service		Α	
Analysis Period (min)			15						

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Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	^	eĵ.		J.	7
Traffic Volume (vph)	133	474	321	59	52	115
Future Volume (vph)	133	474	321	59	52	115
Confl. Peds. (#/hr)	3			3	4	
Confl. Bikes (#/hr)				2		
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Turn Type	pm+pt	NA	NA		Prot	custom
Protected Phases	1	6	2		8	8
Permitted Phases	6					1
Detector Phase	1	6	2		8	8
Switch Phase						
Minimum Initial (s)	5.0	15.0	15.0		7.0	7.0
Minimum Split (s)	9.5	23.0	23.0		23.0	23.0
Total Split (s)	10.0	60.0	50.0		25.0	25.0
Total Split (%)	11.8%	70.6%	58.8%		29.4%	29.4%
Yellow Time (s)	3.0	4.0	4.0		4.0	4.0
All-Red Time (s)	0.0	1.0	1.0		1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	3.0	5.0	5.0		5.0	5.0
Lead/Lag	Lead		Lag			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Max	Max	Max		Max	Max
Interession Comment						

Cycle Length: 85
Actuated Cycle Length: 85

Offset: 77.5 (91%), Referenced to phase 2:WBT and 6:EBTL, Start of Yellow

Natural Cycle: 60 Control Type: Pretimed





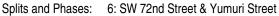
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Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	ሻ	<u></u>	^	11511	ሻ	7		
Traffic Volume (vph)	138	372	295	54	204	228		
Future Volume (vph)	138	372	295	54	204	228		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	3.0	5.0	5.0		5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00		1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00		1.00	0.99		
Flpb, ped/bikes	1.00	1.00	1.00		1.00	1.00		
Frt	1.00	1.00	0.98		1.00	0.85		
Flt Protected	0.95	1.00	1.00		0.95	1.00		
Satd. Flow (prot)	1752	1845	1800		1752	1559		
Flt Permitted	0.44	1.00	1.00		0.95	1.00		
Satd. Flow (perm)	810	1845	1800		1752	1559		
Peak-hour factor, PHF				0.00				
,	0.92	0.92	0.92 321	0.92	0.92	0.92 248		
Adj. Flow (vph)	150	404		59	222			
RTOR Reduction (vph)	0	0	8	0	0	169		
Lane Group Flow (vph)	150	404	372	0	222	79		
Confl. Peds. (#/hr)				0	9	2		
Confl. Bikes (#/hr)	00/	00/	00/	2	00/	00/		
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%		
Turn Type	pm+pt	NA	NA			custom		
Protected Phases	1	6	2		8	8		
Permitted Phases	6					1		
Actuated Green, G (s)	55.0	55.0	45.0		20.0	27.0		
Effective Green, g (s)	55.0	55.0	45.0		20.0	27.0		
Actuated g/C Ratio	0.65	0.65	0.53		0.24	0.32		
Clearance Time (s)	3.0	5.0	5.0		5.0	5.0		
Lane Grp Cap (vph)	601	1193	952		412	586		
v/s Ratio Prot	0.02	c0.22	c0.21		c0.13	0.03		
v/s Ratio Perm	0.14					0.02		
v/c Ratio	0.25	0.34	0.39		0.54	0.13		
Uniform Delay, d1	6.3	6.8	11.9		28.5	20.7		
Progression Factor	1.00	1.00	1.00		1.00	1.00		
Incremental Delay, d2	1.0	0.8	1.2		5.0	0.5		
Delay (s)	7.3	7.6	13.1		33.4	21.1		
Level of Service	A	A	В		С	С		
Approach Delay (s)		7.5	13.1		27.0			
Approach LOS		A	В		С			
Intersection Summary								
HCM 2000 Control Delay			15.5	H	CM 2000	Level of Service		В
HCM 2000 Volume to Capa	city ratio		0.43					
Actuated Cycle Length (s)			85.0			st time (s)	13.	
Intersection Capacity Utiliza	ıtion		49.4%	IC	U Level	of Service		A
Analysis Period (min)			15					

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Lane Group	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ň	†	f)		J.	7
Traffic Volume (vph)	138	372	295	54	204	228
Future Volume (vph)	138	372	295	54	204	228
Confl. Peds. (#/hr)					9	2
Confl. Bikes (#/hr)				2		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Growth Factor	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%
Bus Blockages (#/hr)	0	0	0	0	0	0
Parking (#/hr)						
Mid-Block Traffic (%)		0%	0%		0%	
Shared Lane Traffic (%)						
Turn Type	pm+pt	NA	NA		Prot	custom
Protected Phases	1	6	2		8	8
Permitted Phases	6					1
Detector Phase	1	6	2		8	8
Switch Phase						
Minimum Initial (s)	5.0	15.0	15.0		7.0	7.0
Minimum Split (s)	9.5	23.0	23.0		23.0	23.0
Total Split (s)	10.0	60.0	50.0		25.0	25.0
Total Split (%)	11.8%	70.6%	58.8%		29.4%	29.4%
Yellow Time (s)	3.0	4.0	4.0		4.0	4.0
All-Red Time (s)	0.0	1.0	1.0		1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0
Total Lost Time (s)	3.0	5.0	5.0		5.0	5.0
Lead/Lag	Lead		Lag			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Max	Max	Max		Max	Max

Cycle Length: 85
Actuated Cycle Length: 85

Offset: 77.5 (91%), Referenced to phase 2:WBT and 6:EBTL, Start of Yellow

Natural Cycle: 60 Control Type: Pretimed





Intersection		
Intersection Delay, s/veh	9.9	
Intersection LOS	Α	

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations							4				4	
Traffic Vol, veh/h	0	0	0	0	0	22	39	13	0	38	126	29
Future Vol, veh/h	0	0	0	0	0	22	39	13	0	38	126	29
Peak Hour Factor	0.92	0.64	0.64	0.64	0.92	0.64	0.64	0.64	0.92	0.64	0.64	0.64
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	34	61	20	0	59	197	45
Number of Lanes	0	0	0	0	0	0	1	0	0	0	1	0

Approach	WB	NB
Opposing Approach		SB
Opposing Lanes	0	1
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right	SB	WB
Conflicting Lanes Right	1	1
HCM Control Delay	9.2	10.2
HCM LOS	Α	В

Lane	NBLn1	WBLn1	SBLn1	
Vol Left, %	20%	30%	13%	
Vol Thru, %	65%	53%	53%	
Vol Right, %	15%	18%	34%	
Sign Control	Stop	Stop	Stop	
Traffic Vol by Lane	193	74	161	
LT Vol	38	22	21	
Through Vol	126	39	86	
RT Vol	29	13	54	
Lane Flow Rate	302	116	285	
Geometry Grp	1	1	1	
Degree of Util (X)	0.376	0.166	0.347	
Departure Headway (Hd)	4.489	5.159	4.39	
Convergence, Y/N	Yes	Yes	Yes	
Cap	799	693	817	
Service Time	2.524	3.211	2.425	
HCM Lane V/C Ratio	0.378	0.167	0.349	
HCM Control Delay	10.2	9.2	9.8	
HCM Lane LOS	В	Α	Α	
HCM 95th-tile Q	1.8	0.6	1.6	

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Movement	SBU	SBL	SBT	SBR
Lane Configurations			4	
Traffic Vol, veh/h	0	21	86	54
Future Vol, veh/h	0	21	86	54
Peak Hour Factor	0.92	0.64	0.64	0.46
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	33	134	117
Number of Lanes	0	0	1	0
Approach		SB		
Opposing Approach		NB		
Opposing Lanes		1		
Conflicting Approach Left		WB		
Conflicting Lanes Left		1		
Conflicting Approach Right				
Conflicting Lanes Right		0		
HCM Control Delay		9.8		
HCM LOS		Α		

Intersection			
Intersection Delay, s/veh	9		
Intersection LOS	Α		

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Lane Configurations							4				4	
Traffic Vol, veh/h	0	0	0	0	0	54	80	24	0	41	102	17
Future Vol, veh/h	0	0	0	0	0	54	80	24	0	41	102	17
Peak Hour Factor	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	0	0	61	91	27	0	47	116	19
Number of Lanes	0	0	0	0	0	0	1	0	0	0	1	0

Approach	WB	NB
Opposing Approach		SB
Opposing Lanes	0	1
Conflicting Approach Left	NB	
Conflicting Lanes Left	1	0
Conflicting Approach Right	SB	WB
Conflicting Lanes Right	1	1
HCM Control Delay	9.2	9
HCM LOS	Α	Α

Lane	NBLn1	WBLn1	SBLn1	
Vol Left, %	26%	34%	14%	
Vol Thru, %	64%	51%	70%	
Vol Right, %	11%	15%	16%	
Sign Control	Stop	Stop	Stop	
Traffic Vol by Lane	160	158	151	
LT Vol	41	54	21	
Through Vol	102	80	106	
RT Vol	17	24	24	
Lane Flow Rate	182	180	172	
Geometry Grp	1	1	1	
Degree of Util (X)	0.23	0.235	0.215	
Departure Headway (Hd)	4.557	4.714	4.515	
Convergence, Y/N	Yes	Yes	Yes	
Cap	787	761	794	
Service Time	2.586	2.747	2.544	
HCM Lane V/C Ratio	0.231	0.237	0.217	
HCM Control Delay	9	9.2	8.8	
HCM Lane LOS	Α	Α	Α	
HCM 95th-tile Q	0.9	0.9	8.0	

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Movement	SBU	SBL	SBT	SBR
Lane Configurations			4	
Traffic Vol, veh/h	0	21	106	24
Future Vol, veh/h	0	21	106	24
Peak Hour Factor	0.92	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	0	24	120	27
Number of Lanes	0	0	1	0
Approach		SB		
Opposing Approach		NB		
Opposing Lanes		1		
Conflicting Approach Left		WB		
Conflicting Lanes Left		1		
Conflicting Approach Right				
		0		
Conflicting Lanes Right		•		
Conflicting Lanes Right HCM Control Delay		8.8		

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Intersection	2.0							
Int Delay, s/veh	3.2							
Movement	EBL	EBT			WBT	WBR	SBL	SBR
Lane Configurations		4			f)		ሻ	7
Traffic Vol, veh/h	169	400			284	69	24	93
Future Vol, veh/h	169	400			284	69	24	93
Conflicting Peds, #/hr	8	0			0	8	1	1
Sign Control	Free	Free			Free	Free	Stop	Stop
RT Channelized	-	None			-	None	-	None
Storage Length	-	-			-	-	0	75
Veh in Median Storage, #	-	0			0	-	0	-
Grade, %	-	0			0	-	0	-
Peak Hour Factor	87	87			87	87	87	87
Heavy Vehicles, %	2	2			2		2	2
Mvmt Flow	194	460			326	79	28	107
Major/Minor	Major1				Major2		Minor2	
Conflicting Flow All	414	0			-	0	1223	375
Stage 1	-	-			_	-	374	-
Stage 2	_				_	_	849	_
Critical Hdwy	4.12	_			-	-	6.42	6.22
Critical Hdwy Stg 1	7.12				_	_	5.42	0.22
Critical Hdwy Stg 2	-	_			-	-	5.42	-
Follow-up Hdwy	2.218				_	_	3.518	3.318
Pot Cap-1 Maneuver	1145	-			_	-	198	671
Stage 1	-						696	-
Stage 2	-	-				-	419	-
Platoon blocked, %		-				-		
Mov Cap-1 Maneuver	1144	-			-	-	151	665
Mov Cap-2 Maneuver	-	-				-	151	-
Stage 1	-	_			-	_	691	-
Stage 2	-	-			-	-	321	
- ···g- =							<u> </u>	
Approach	EB				WB		SB	
HCM Control Delay, s	2.6				0		16.1	
HCM LOS	2.0				U		C	
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1	CDI 50			
		EDI	VVDI					
Capacity (veh/h)	1144	-	-	- 151 - 0.183				
HCM Control Doloy (a)	0.17	-	-					
HCM Lang LOS	8.8	0	-					
HCM 05th 0/tile O(yeh)	A	Α	-	- D				
HCM 95th %tile Q(veh)	0.6	-	-	- 0.6	0.6			

Intersection										
Int Delay, s/veh	2.8									
		F 5. T				14/5=	14/5-		25:	0.5.5
Movement	EBL	EBT				WBT	WBR	í	SBL	SBR
Lane Configurations		र्स				₽			ሻ	7
Traffic Vol, veh/h	64	370				276	68		57	84
Future Vol, veh/h	64	370				276	68		57	84
Conflicting Peds, #/hr	9	0				0	9		0	0
Sign Control	Free	Free				Free			Stop	Stop
RT Channelized	-	None				-	None)	-	None
Storage Length	-	-				-	•	•	0	75
Veh in Median Storage,	# -	0				0	-		0	-
Grade, %	-	0				0			0	-
Peak Hour Factor	94	94				94	94		94	94
Heavy Vehicles, %	2	2				2	2		2	2
Mvmt Flow	68	394				294	72	-	61	89
Major/Minor	Major1					Major2			Minor2	
Conflicting Flow All	375	0				-	C)	869	339
Stage 1	-	-				-	-		339	-
Stage 2		-							530	-
Critical Hdwy	4.12	-				-			6.42	6.22
Critical Hdwy Stg 1		-							5.42	- 0.22
Critical Hdwy Stg 2		_				_			5.42	-
Follow-up Hdwy	2.218	_				_			3.518	3.318
Pot Cap-1 Maneuver	1183	_				_			322	703
Stage 1	-	_							722	700
Stage 2	_	_				_			590	_
Platoon blocked, %									330	
Mov Cap-1 Maneuver	1183	-				-			293	697
Mov Cap-1 Maneuver	1100								293	- 031
Stage 1	-					-			716	-
Stage 2	-								542	-
Olaye Z	-	_				-			J 4 2	-
Approach	EB					WB			SB	
						VVB 0				
HCM LOS	1.2					U			14.8	
HCM LOS									В	
Minor Long/Major Minor	EBL	EBT	WDT	WPD	DI 51	CDI 50				
Minor Lane/Major Mvmt		EDI	WBT	WBR S						
Capacity (veh/h)	1183	-	-	-	293	697				
HCM Lane V/C Ratio	0.058	-	-			0.128				
HCM Control Delay (s)	8.2	0	-	-	20.5	10.9				
HCM Lane LOS	A	Α	-	-	С	В				
HCM 95th %tile Q(veh)	0.2	-	-	-	8.0	0.4				

Future with Project Conditions

	۶	→	•	•	←	•	4	†	/	/	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્ન	*	Ĭ		7		∱ ⊅		7	^	
Traffic Volume (vph)	6	5	21	33	0	42	0	554	113	156	576	0
Future Volume (vph)	6	5	21	33	0	42	0	554	113	156	576	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lane Util. Factor		1.00	1.00	1.00		1.00		0.95		1.00	0.95	
Frpb, ped/bikes		1.00	1.00	1.00		1.00		0.99		1.00	1.00	
Flpb, ped/bikes		0.93	1.00	0.96		1.00		1.00		0.99	1.00	
Frt		1.00	0.85	1.00		0.85		0.97		1.00	1.00	
Flt Protected		0.97	1.00	0.95		1.00		1.00		0.95	1.00	
Satd. Flow (prot)		1695	1583	1704		1583		3414		1745	3539	
Flt Permitted		0.97	1.00	0.36		1.00		1.00		0.38	1.00	
Satd. Flow (perm)		1695	1583	638		1583		3414		696	3539	
Peak-hour factor, PHF	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Adj. Flow (vph)	6	5	22	35	0	45	0	589	120	166	613	0
RTOR Reduction (vph)	0	0	21	0	0	41	0	5	0	0	0	0
Lane Group Flow (vph)	0	11	1	35	0	4	0	704	0	166	613	0
Confl. Peds. (#/hr)	44		50	50		44	9		7	7		9
Confl. Bikes (#/hr)			1			1			4			2
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases		8	8	7		4		6			2	
Permitted Phases	8			4						2		
Actuated Green, G (s)		5.4	5.4	18.7		18.7		158.3		158.3	158.3	
Effective Green, g (s)		5.4	5.4	18.7		18.7		158.3		158.3	158.3	
Actuated g/C Ratio		0.03	0.03	0.10		0.10		0.83		0.83	0.83	
Clearance Time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Vehicle Extension (s)		2.5	2.5	2.0		2.5		1.0		1.0	1.0	
Lane Grp Cap (vph)		48	44	103		155		2844		579	2948	
v/s Ratio Prot			0.00	c0.01		0.00		0.21			0.17	
v/s Ratio Perm		0.01		c0.02						c0.24		
v/c Ratio		0.23	0.01	0.34		0.03		0.25		0.29	0.21	
Uniform Delay, d1		90.3	89.7	78.9		77.4		3.3		3.5	3.2	
Progression Factor		1.00	1.00	1.00		1.00		1.00		1.00	1.00	
Incremental Delay, d2		1.8	0.1	0.7		0.1		0.2		1.2	0.2	
Delay (s)		92.0	89.8	79.7		77.5		3.5		4.7	3.4	
Level of Service		F	F	Е		Е		Α		Α	Α	
Approach Delay (s)		90.6			78.4			3.5			3.6	
Approach LOS		F			E			Α			Α	
Intersection Summary												
HCM 2000 Control Delay			9.1	Н	CM 2000	Level of S	Service		Α			
HCM 2000 Volume to Capacit	y ratio		0.30									
Actuated Cycle Length (s)			190.0	S	um of lost	time (s)			19.0			
Intersection Capacity Utilization	n		64.8%			of Service			С			
Analysis Period (min)			15									

Analysis Period (min) c Critical Lane Group

1: Red Road & San Remo Avenue

	-	•	•	•	†	-	ļ
Lane Group	EBT	EBR	WBL	WBR	NBT	SBL	SBT
Protected Phases	8	8	7	4	6		2
Permitted Phases			4			2	
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	27.0	27.0	26.0	56.0	28.0	28.0	28.0
Total Split (s)	30.0	30.0	26.0	56.0	134.0	134.0	134.0
Total Split (%)	15.8%	15.8%	13.7%	29.5%	70.5%	70.5%	70.5%
Maximum Green (s)	24.0	24.0	20.0	50.0	127.0	127.0	127.0
Yellow Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	3.0	3.0	3.0
Lead/Lag	Lag	Lag	Lead				
Lead-Lag Optimize?	Yes	Yes	Yes				
Vehicle Extension (s)	2.5	2.5	2.0	2.5	1.0	1.0	1.0
Minimum Gap (s)	2.5	2.5	2.0	2.5	1.0	1.0	1.0
Time Before Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time To Reduce (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recall Mode	None	None	None	None	C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0		7.0	7.0	7.0	7.0
Flash Dont Walk (s)	14.0	14.0		14.0	10.0	10.0	10.0
Pedestrian Calls (#/hr)	0	0		0	0	0	0
90th %ile Green (s)	8.3	8.3	11.7	26.0	151.0	151.0	151.0
90th %ile Term Code	Gap	Gap	Gap	Hold	Coord	Coord	Coord
70th %ile Green (s)	7.1	7.1	9.7	22.8	154.2	154.2	154.2
70th %ile Term Code	Gap	Gap	Gap	Hold	Coord	Coord	Coord
50th %ile Green (s)	6.2	6.2	8.2	20.4	156.6	156.6	156.6
50th %ile Term Code	Gap	Gap	Gap	Hold	Coord	Coord	Coord
30th %ile Green (s)	5.3	5.3	6.7	18.0	159.0	159.0	159.0
30th %ile Term Code	Gap	Gap	Gap	Hold	Coord	Coord	Coord
10th %ile Green (s)	0.0	0.0	0.0	0.0	183.0	183.0	183.0
10th %ile Term Code	Skip	Skip	Skip	Skip	Coord	Coord	Coord
		-	•	-			

Intersection Summary

Cycle Length: 190

Actuated Cycle Length: 190
Offset: 94 (49%), Referenced to phase 2:SBTL and 6:NBT, Start of Yellow

Control Type: Actuated-Coordinated

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		ર્ન	*	7		7		∱ ⊅		7	^	
Traffic Volume (vph)	15	13	45	205	0	140	0	449	72	108	584	0
Future Volume (vph)	15	13	45	205	0	140	0	449	72	108	584	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0		6.0		7.0		7.0	7.0	
Lane Util. Factor		1.00	1.00	1.00		1.00		0.95		1.00	0.95	
Frpb, ped/bikes		1.00	1.00	1.00		1.00		0.99		1.00	1.00	
Flpb, ped/bikes		0.96	1.00	0.98		1.00		1.00		0.98	1.00	
Frt		1.00	0.85	1.00		0.85		0.98		1.00	1.00	
Flt Protected		0.97	1.00	0.95		1.00		1.00		0.95	1.00	
Satd. Flow (prot)		1738	1583	1739		1583		3432		1730	3539	
Flt Permitted		0.97	1.00	0.40		1.00		1.00		0.44	1.00	
Satd. Flow (perm)		1738	1583	736		1583		3432		805	3539	
Peak-hour factor, PHF	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Adj. Flow (vph)	16	14	47	216	0	147	0	473	76	114	615	0
RTOR Reduction (vph)	0	0	45	0	0	70	0	5	0	0	0	0
Lane Group Flow (vph)	0	30	2	216	0	77	0	544	0	114	615	0
Confl. Peds. (#/hr)	29		21	21		29	6		9	9		6
Confl. Bikes (#/hr)			1			1			2			2
Turn Type	Perm	NA	Prot	pm+pt		Prot		NA		Perm	NA	
Protected Phases	0	8	8	7		4		6		2	2	
Permitted Phases	8	7.0	7.0	4		21.0		145.0		2	145.0	
Actuated Green, G (s)		7.2	7.2	31.2		31.2		145.8		145.8	145.8	
Effective Green, g (s)		7.2	7.2	31.2		31.2		145.8		145.8	145.8	
Actuated g/C Ratio		0.04 6.0	0.04	0.16 6.0		0.16 6.0		0.77 7.0		0.77 7.0	0.77 7.0	
Clearance Time (s) Vehicle Extension (s)		2.5	2.5	2.0		2.5		1.0		1.0	1.0	
- ','												
Lane Grp Cap (vph) v/s Ratio Prot		65	59	215		259		2633		617	2715	
		0.02	0.00	c0.09 c0.07		0.05		0.16		0.14	c0.17	
v/s Ratio Perm v/c Ratio		0.02	0.03	1.00		0.30		0.21		0.14	0.23	
Uniform Delay, d1		89.5	88.0	77.1		69.8		6.1		6.0	6.2	
Progression Factor		1.00	1.00	1.00		1.00		1.00		1.00	1.00	
				62.6								
Incremental Delay, d2 Delay (s)		3.7 93.2	0.2 88.2	139.7		0.5 70.2		0.2 6.3		0.7 6.7	0.2 6.4	
Level of Service		73.2 F	66.2 F	F		70.2 E		0.5 A		Α	0.4 A	
Approach Delay (s)		90.2			111.6	L		6.3		Л	6.5	
Approach LOS		70.2 F			F			0.5 A			0.5 A	
••								А			А	
Intersection Summary			00.4		0110000	1						
HCM 2000 Control Delay			32.4	Н	CM 2000	Level of	Service		С			
HCM 2000 Volume to Capa	icity ratio		0.36	_		. U / \			10.0			
Actuated Cycle Length (s)			190.0		um of lost				19.0			
Intersection Capacity Utiliza	ation		56.7%	IC	CU Level of	oi Service	<u> </u>		В			
Analysis Period (min)			15									

Analysis Period (min) c Critical Lane Group

	4	*	†	•	4	
Phase Number	2	4	6	7	8	
Movement	SBTL	WBL	NBT	WBL	EBTL	
Lead/Lag				Lead	Lag	
Lead-Lag Optimize				Yes	Yes	
Recall Mode	C-Max	None	C-Max	None	None	
Maximum Split (s)	139	51	139	24	27	
Maximum Split (%)	73.2%	26.8%	73.2%	12.6%	14.2%	
Minimum Split (s)	28	46	28	18	27	
Yellow Time (s)	4	4	4	4	4	
All-Red Time (s)	3	2	3	2	2	
Minimum Initial (s)	5	5	5	5	5	
Vehicle Extension (s)	1	2.5	1	2	2.5	
Minimum Gap (s)	1	2.5	1	2	2.5	
Time Before Reduce (s)	0	0	0	0	0	
Time To Reduce (s)	0	0	0	0	0	
Walk Time (s)	7	7	7		7	
Flash Dont Walk (s)	10	14	10		14	
Dual Entry	Yes	Yes	Yes	Yes	Yes	
Inhibit Max	Yes	Yes	Yes	Yes	Yes	
Start Time (s)	152	101	152	101	125	
End Time (s)	101	152	101	125	152	
Yield/Force Off (s)	94	146	94	119	146	
Yield/Force Off 170(s)	84	132	84	119	132	
Local Start Time (s)	58	7	58	7	31	
Local Yield (s)	0	52	0	25	52	
Local Yield 170(s)	180	38	180	25	38	
Intersection Summary						
Cycle Length			190			
Control Type	Actu	ated-Coo				
Natural Cycle			75			
Offset: 94 (49%), Reference	ed to phase	e 2:SBTL	and 6:NB	T, Start o	f Yellow	
Splits and Phases: 1: Re	ed Road & S	San Remo	o Avenue			
<u> </u>						
						♥ Ø4
139 s						51 s
↑ Ø6 (R)						■ √ @7 ♣ @8

Intersection							
Int Delay, s/veh	6.5						
Movement	NBT	NBR	SBL	SBT	SWL	SWR	
Lane Configurations	†	HOIN) j	^	ሻ	7	
Traffic Vol, veh/h	459	144	161	658	81	87	
Future Vol, veh/h	459	144	161	658	81	87	
Conflicting Peds, #/hr	0	2	2	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	Stop	
Storage Length	-	-	92	-	0	50	
Veh in Median Storage		-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	90	90	90	90	90	90	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	510	160	179	731	90	97	
Major/Minor N	//ajor1	N	/lajor2	N	/linor1		
Conflicting Flow All	0	0	672	0	1316	337	
Stage 1	-	-	-	-	592	-	
Stage 2	-	-	-	-	724	-	
Critical Hdwy	-	-	4.14	-	6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	5.84	-	
Follow-up Hdwy	-	-	2.22	-	3.52	3.32	
Pot Cap-1 Maneuver	-	-	915	-	149	659	
Stage 1	-	-	-	-	516	-	
Stage 2	-	-	-	-	441	-	
Platoon blocked, %	-	-		-		.=-	
Mov Cap-1 Maneuver	-	-	913	-	119	658	
Mov Cap-2 Maneuver	-	-	-	-	119	-	
Stage 1	-	-	-	-	414	-	
Stage 2	-	-	-	-	441	-	
Approach	NB		SB		SW		
HCM Control Delay, s	0		1.9		52.1		
HCM LOS					F		
Minor Lane/Major Mvm	t	NBT	NBR	SBL	SBTS	SWLn1S	WLn2
Capacity (veh/h)		-	-	913	_	119	658
HCM Lane V/C Ratio		-	-	0.196	-	0.756	
HCM Control Delay (s)		-	-	9.9	-	95.8	11.4
HCM Lane LOS		-	-	Α	-	F	В
HCM 95th %tile Q(veh)		-	-	0.7	-	4.3	0.5
,							

Intersection							
Int Delay, s/veh	6.9						
	NBT	NBR	SBL	SBT	SWL	SWR	
Lane Configurations	↑ ↑	אטוז	JDL	↑ ↑	3VVL	3V/K	
Traffic Vol, veh/h	497	92	123	561	120	128	
Future Vol, veh/h	497	92	123	561	120	128	
Conflicting Peds, #/hr	0	11	11	0	0	0	
ğ	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	Stop	
Storage Length	-	-	92	-	0	50	
Veh in Median Storage,	# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	97	97	97	97	97	97	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	512	95	127	578	124	132	
Major/Minor Major/Minor	ajor1	Ŋ	/lajor2	N	/linor1		
Conflicting Flow All	0	0	618	0	1114	315	
Stage 1	-	-	-	-	571	-	
Stage 2	-	-	-	-	543	-	
Critical Hdwy	-	-	4.14	-	6.84	6.94	
Critical Hdwy Stg 1	-	-	-	-	5.84	-	
Critical Hdwy Stg 2	-	-	-	-	5.84	-	
Follow-up Hdwy	-	-	2.22	-	3.52	3.32	
Pot Cap-1 Maneuver	-	-	958	-	202	681	
Stage 1	-	-	-	-	529	-	
Stage 2	-	-	-	-	546	-	
Platoon blocked, %	-	-	0.40	-	470	(7.1	
Mov Cap-1 Maneuver	-	-	948	-	173	674	
Mov Cap-2 Maneuver	-	-	-	-	173	-	
Stage 1	-		-	-	453 546	-	
Stage 2	-	-	-	-	D40	-	
Approach	NB		SB		SW		
HCM Control Delay, s	0		1.7		37.8		
HCM LOS					Е		
Minor Lane/Major Mvmt		NBT	NBR	SBL	SBTS	SWLn1S	WLn2
Capacity (veh/h)		-	-		-		674
HCM Lane V/C Ratio		-	-	0.134	_	0.715	
HCM Control Delay (s)		-	-	9.4	-	65.7	11.6
HCM Lane LOS		-	-	Α	-	F	В
HCM 95th %tile Q(veh)				0.5			

Intersection		
Intersection Delay, s/veh	8.8	
Intersection LOS	А	

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	25	82	67	6	25	3	51	123	8	2	46	4
Future Vol, veh/h	25	82	67	6	25	3	51	123	8	2	46	4
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	28	93	76	7	28	3	58	140	9	2	52	5
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	SE			NW			NE			SW		
Opposing Approach	NW			SE			SW			NE		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SW			NE			SE			NW		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NE			SW			NW			SE		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	8.8			8.1			9.2			8.1		
HCM LOS	Α			Α			Α			Α		

Lane	NELn1	NWLn1	SELn1	SWLn1	
Vol Left, %	28%	18%	14%	4%	
Vol Thru, %	68%	74%	47%	88%	
Vol Right, %	4%	9%	39%	8%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	182	34	174	52	
LT Vol	51	6	25	2	
Through Vol	123	25	82	46	
RT Vol	8	3	67	4	
Lane Flow Rate	207	39	198	59	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.263	0.051	0.242	0.077	
Departure Headway (Hd)	4.577	4.775	4.407	4.684	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	784	749	815	764	
Service Time	2.605	2.811	2.434	2.717	
HCM Lane V/C Ratio	0.264	0.052	0.243	0.077	
HCM Control Delay	9.2	8.1	8.8	8.1	
HCM Lane LOS	Α	Α	Α	Α	
HCM 95th-tile Q	1.1	0.2	0.9	0.2	

Movement	SEL	SET	SER	NWL	NWT	NWR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	13	68	51	16	80	4	70	73	27	12	102	24
Future Vol, veh/h	13	68	51	16	80	4	70	73	27	12	102	24
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	15	80	60	19	94	5	82	86	32	14	120	28
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	SE			NW			NE			SW		
Opposing Approach	NW			SE			SW			NE		
Opposing Lanes	1			1			1			1		
Conflicting Approach Left	SW			NE			SE			NW		
Conflicting Lanes Left	1			1			1			1		
Conflicting Approach Right	NE			SW			NW			SE		
Conflicting Lanes Right	1			1			1			1		
HCM Control Delay	9			9.1			9.6			9.1		
HCM LOS	Α			Α			Α			Α		

Lane	NELn1	NWLn1	SELn1	SWLn1	
Vol Left, %	41%	16%	10%	9%	
Vol Thru, %	43%	80%	52%	74%	
Vol Right, %	16%	4%	39%	17%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	170	100	132	138	
LT Vol	70	16	13	12	
Through Vol	73	80	68	102	
RT Vol	27	4	51	24	
Lane Flow Rate	200	118	155	162	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.266	0.163	0.204	0.214	
Departure Headway (Hd)	4.779	5.001	4.738	4.754	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	748	712	752	750	
Service Time	2.837	3.068	2.8	2.815	
HCM Lane V/C Ratio	0.267	0.166	0.206	0.216	
HCM Control Delay	9.6	9.1	9	9.1	
HCM Lane LOS	А	Α	Α	Α	
HCM 95th-tile Q	1.1	0.6	0.8	0.8	

Intersection						
Int Delay, s/veh	2.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
	¥.	EDK	INDL			SDK
Lane Configurations Traffic Vol, veh/h	32	51	31	र्व 201	♣ 188	18
	32	51				18
Future Vol, veh/h		4	31	201	188	
Conflicting Peds, #/hr	0		3	0	0	3
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	42	67	41	264	247	24
Major/Minor	Minor2	ľ	Major1	N	/lajor2	
Conflicting Flow All	608	266	274	0	_	0
Stage 1	262	200	-	-	_	-
Stage 2	346	_	_	_	_	_
Critical Hdwy	6.42	6.22	4.12	_	_	_
Critical Hdwy Stg 1	5.42	- 0.22	7.12	_	_	_
Critical Hdwy Stg 2	5.42	_		_	_	
Follow-up Hdwy	3.518	3.318	2 212	_	_	_
Pot Cap-1 Maneuver	459	773	1289	-	-	-
Stage 1	782	113	1207	-	-	-
	716				-	
Stage 2	/10	-	-	-		-
Platoon blocked, %	420	7/0	1205	-	-	-
Mov Cap-1 Maneuver	439	768	1285	-	-	-
Mov Cap-2 Maneuver	439	-	-	-	-	-
Stage 1	751	-	-	-	-	-
Stage 2	714	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	12.4		1.1		0	
HCM LOS	В					
110111 200						
Minor Lanc/Major Mun	<u>nt</u>	NBL	NBT	EBLn1	SBT	SBR
Minor Lane/Major Mvm		1005	_	596	-	-
Capacity (veh/h)		1285				
Capacity (veh/h) HCM Lane V/C Ratio		0.032	-	0.183	-	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	1	0.032 7.9	- 0	0.183 12.4	-	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) HCM Lane LOS		0.032 7.9 A	-	0.183 12.4 B		
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		0.032 7.9	- 0	0.183 12.4	-	-

Intersection						
Int Delay, s/veh	2.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	¥			र्स	₽	
Traffic Vol, veh/h	33	67	76	340	290	34
Future Vol, veh/h	33	67	76	340	290	34
Conflicting Peds, #/hr	0	7	5	0	0	5
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage	e, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	37	75	85	382	326	38
WINTER TOWN	- 01	13	- 00	002	020	- 50
	Minor2		Major1		/lajor2	
Conflicting Flow All	902	357	369	0	-	0
Stage 1	350	-	-	-	-	-
Stage 2	552	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	_	-	_	-	-
Follow-up Hdwy	3.518	3.318	2.218	_	_	_
Pot Cap-1 Maneuver	308	687	1190	_	-	-
Stage 1	713	-		_	_	-
Stage 2	577		_	_	_	_
Platoon blocked, %	317			_		_
Mov Cap-1 Maneuver	277	679	1184	_		_
Mov Cap-1 Maneuver	277	017	1104			_
		-	-	-	-	-
Stage 1	645	-	-	-	-	-
Stage 2	574	-	-	-	-	-
Approach	EB		NB		SB	
HCM Control Delay, s	15.4		1.5		0	
HCM LOS	C		1.0		- 0	
TIOWI LOG	U					
Minor Lane/Major Mvn	nt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)		1184	-	459	-	-
HCM Lane V/C Ratio		0.072	-	0.245	-	-
HCM Control Delay (s)	8.3	0	15.4	-	-
HCM Lane LOS		Α	Α	С	-	-
HCM 95th %tile Q(veh	1)	0.2	-	1	-	-
	,	0.2				

Intersection			
Intersection Delay, s/veh	10		
Intersection LOS	А		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			†			ર્ન			f)	
Traffic Vol, veh/h	62	0	39	29	24	28	21	143	0	0	189	55
Future Vol, veh/h	62	0	39	29	24	28	21	143	0	0	189	55
Peak Hour Factor	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	77	0	48	36	30	35	26	177	0	0	233	68
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB				SB	
Opposing Approach	WB			EB			SB				NB	
Opposing Lanes	1			1			1				1	
Conflicting Approach Left	SB			NB			EB				WB	
Conflicting Lanes Left	1			1			1				1	
Conflicting Approach Right	NB			SB			WB				EB	
Conflicting Lanes Right	1			1			1				1	
HCM Control Delay	9.4			9.1			9.8				10.6	
HCM LOS	Α			Α			Α				В	

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	13%	61%	36%	0%	
Vol Thru, %	87%	0%	30%	77%	
Vol Right, %	0%	39%	35%	23%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	164	101	81	244	
LT Vol	21	62	29	0	
Through Vol	143	0	24	189	
RT Vol	0	39	28	55	
Lane Flow Rate	202	125	100	301	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.275	0.178	0.143	0.387	
Departure Headway (Hd)	4.885	5.136	5.148	4.619	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	729	691	689	774	
Service Time	2.958	3.223	3.239	2.684	
HCM Lane V/C Ratio	0.277	0.181	0.145	0.389	
HCM Control Delay	9.8	9.4	9.1	10.6	
HCM Lane LOS	А	Α	Α	В	
HCM 95th-tile Q	1.1	0.6	0.5	1.8	

ntersection	
ntersection Delay, s/veh	14.3
ntersection LOS	В

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4						4			f)	
Traffic Vol, veh/h	173	0	122	38	62	31	37	214	0	0	242	101
Future Vol, veh/h	173	0	122	38	62	31	37	214	0	0	242	101
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	180	0	127	40	65	32	39	223	0	0	252	105
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Approach	EB			WB			NB				SB	
Opposing Approach	WB			EB			SB				NB	
Opposing Lanes	1			1			1				1	
Conflicting Approach Left	SB			NB			EB				WB	
Conflicting Lanes Left	1			1			1				1	
Conflicting Approach Right	NB			SB			WB				EB	
Conflicting Lanes Right	1			1			1				1	
HCM Control Delay	14.7			11.4			13.6				15.5	
HCMIOS	R			R			R				C	

Lane	NBLn1	EBLn1	WBLn1	SBLn1	
Vol Left, %	15%	59%	29%	0%	
Vol Thru, %	85%	0%	47%	71%	
Vol Right, %	0%	41%	24%	29%	
Sign Control	Stop	Stop	Stop	Stop	
Traffic Vol by Lane	251	295	131	343	
LT Vol	37	173	38	0	
Through Vol	214	0	62	242	
RT Vol	0	122	31	101	
Lane Flow Rate	261	307	136	357	
Geometry Grp	1	1	1	1	
Degree of Util (X)	0.438	0.497	0.241	0.553	
Departure Headway (Hd)	6.031	5.937	6.352	5.675	
Convergence, Y/N	Yes	Yes	Yes	Yes	
Cap	601	612	568	640	
Service Time	4.031	3.937	4.368	3.675	
HCM Lane V/C Ratio	0.434	0.502	0.239	0.558	
HCM Control Delay	13.6	14.7	11.4	15.5	
HCM Lane LOS	В	В	В	С	
HCM 95th-tile Q	2.2	2.8	0.9	3.4	

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Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	ች	†	1>		ች	7		
Traffic Volume (vph)	138	474	321	60	57	135		
Future Volume (vph)	138	474	321	60	57	135		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	3.0	5.0	5.0		5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00		1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00		1.00	1.00		
Flpb, ped/bikes	1.00	1.00	1.00		1.00	1.00		
Frt	1.00	1.00	0.98		1.00	0.85		
Flt Protected	0.95	1.00	1.00		0.95	1.00		
Satd. Flow (prot)	1752	1845	1798		1752	1568		
Flt Permitted	0.40	1.00	1.00		0.95	1.00		
Satd. Flow (perm)	745	1845	1798	0.00	1752	1568		
Peak-hour factor, PHF	0.90	0.90	0.90	0.90	0.90	0.90		
Adj. Flow (vph)	153	527	357 8	67	63	150 102		
RTOR Reduction (vph)	0 153	0 527	416	0	63	48		
Lane Group Flow (vph) Confl. Peds. (#/hr)	3	327	410	3	4	40		
Confl. Bikes (#/hr)	J			2	4			
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%		
Turn Type	pm+pt	NA	NA	370		custom		
Protected Phases	рит+рt 1	6	2		8	8		
Permitted Phases	6	U	2		U	1		
Actuated Green, G (s)	55.0	55.0	45.0		20.0	27.0		
Effective Green, g (s)	55.0	55.0	45.0		20.0	27.0		
Actuated g/C Ratio	0.65	0.65	0.53		0.24	0.32		
Clearance Time (s)	3.0	5.0	5.0		5.0	5.0		
Lane Grp Cap (vph)	564	1193	951		412	590		
v/s Ratio Prot	0.02	c0.29	0.23		c0.04	0.02		
v/s Ratio Perm	0.15	55.E,	5.20		33.01	0.01		
v/c Ratio	0.27	0.44	0.44		0.15	0.08		
Uniform Delay, d1	6.5	7.4	12.2		25.8	20.3		
Progression Factor	1.00	1.00	1.00		1.00	1.00		
Incremental Delay, d2	1.2	1.2	1.5		0.8	0.3		
Delay (s)	7.7	8.6	13.7		26.6	20.6		
Level of Service	А	Α	В		С	С		
Approach Delay (s)		8.4	13.7		22.3			
Approach LOS		Α	В		С			
Intersection Summary								
HCM 2000 Control Delay			12.4	Н	CM 2000	Level of Sei	rvice	
HCM 2000 Volume to Capac	city ratio		0.38					
Actuated Cycle Length (s)	_		85.0	Sı	ım of los	st time (s)		
Intersection Capacity Utiliza	tion		45.7%	IC	U Level	of Service		
Analysis Period (min)			15					

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Phase Number	1	2	6	8	
Movement	EBL	WBT	EBTL	SBL	
Lead/Lag	Lead	Lag			
Lead-Lag Optimize	Yes	Yes			
Recall Mode	Max	Max	Max	Max	
Maximum Split (s)	10	50	60	25	
Maximum Split (%)	11.8%	58.8%	70.6%	29.4%	
Minimum Split (s)	9.5	23	23	23	
Yellow Time (s)	3	4	4	4	
All-Red Time (s)	0	1	1	1	
Minimum Initial (s)	5	15	15	7	
Vehicle Extension (s)	2	1	1	2.5	
Minimum Gap (s)	3	3	3	3	
Time Before Reduce (s)	0	0	0	0	
Time To Reduce (s)	0	0	0	0	
Walk Time (s)					
Flash Dont Walk (s)					
Dual Entry	No	Yes	Yes	Yes	
Inhibit Max	Yes	Yes	Yes	Yes	
Start Time (s)	22.5	32.5	22.5	82.5	
End Time (s)	32.5	82.5	82.5	22.5	
Yield/Force Off (s)	29.5	77.5	77.5	17.5	
Yield/Force Off 170(s)	29.5	77.5	77.5	17.5	
Local Start Time (s)	30	40	30	5	
Local Yield (s)	37	0	0	25	
Local Yield 170(s)	37	0	0	25	
Intersection Summary					
Cycle Length			85		
Control Type		F	Pretimed		
Natural Cycle			60		
Offset: 77.5 (91%), Referen	ced to pha	se 2:WB1	and 6:E	BTL, Star	t of Yellow
Splits and Phases: 6: SW	/ 72nd Stre	et & Yum	uri Street		
₩		ot a rain	un ou cou		
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Movement	EBL	EBT	WBT	WBR	SBL	SBR		
Lane Configurations	ኝ	<u></u>	^		*	7		
Traffic Volume (vph)	149	372	295	59	207	243		
Future Volume (vph)	149	372	295	59	207	243		
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900		
Total Lost time (s)	3.0	5.0	5.0	1700	5.0	5.0		
Lane Util. Factor	1.00	1.00	1.00		1.00	1.00		
Frpb, ped/bikes	1.00	1.00	1.00		1.00	0.99		
Flpb, ped/bikes	1.00	1.00	1.00		1.00	1.00		
Frt	1.00	1.00	0.98		1.00	0.85		
Flt Protected	0.95	1.00	1.00		0.95	1.00		
Satd. Flow (prot)	1752	1845	1797		1752	1559		
Flt Permitted	0.43	1.00	1.00		0.95	1.00		
Satd. Flow (perm)	802	1845	1797		1752	1559		
			0.92	0.02				
Peak-hour factor, PHF	0.92	0.92		0.92	0.92	0.92 264		
Adj. Flow (vph)	162	404	321	64	225			
RTOR Reduction (vph)	142	0	8 277	0	0	180		
Lane Group Flow (vph)	162	404	377	0	225 9	84		
Confl. Peds. (#/hr)				2	9	2		
Confl. Bikes (#/hr)	20/	20/	20/	2	20/	20/		
Heavy Vehicles (%)	3%	3%	3%	3%	3%	3%		
Turn Type	pm+pt	NA	NA			custom		
Protected Phases	1	6	2		8	8		
Permitted Phases	6				0.5.5	1		
Actuated Green, G (s)	55.0	55.0	45.0		20.0	27.0		
Effective Green, g (s)	55.0	55.0	45.0		20.0	27.0		
Actuated g/C Ratio	0.65	0.65	0.53		0.24	0.32		
Clearance Time (s)	3.0	5.0	5.0		5.0	5.0		
Lane Grp Cap (vph)	597	1193	951		412	586		
v/s Ratio Prot	0.02	c0.22	c0.21		c0.13	0.03		
v/s Ratio Perm	0.15					0.02		
v/c Ratio	0.27	0.34	0.40		0.55	0.14		
Uniform Delay, d1	6.4	6.8	11.9		28.5	20.7		
Progression Factor	1.00	1.00	1.00		1.00	1.00		
Incremental Delay, d2	1.1	0.8	1.2		5.1	0.5		
Delay (s)	7.5	7.6	13.1		33.6	21.2		
Level of Service	А	Α	В		С	С		
Approach Delay (s)		7.5	13.1		26.9			
Approach LOS		Α	В		С			
Intersection Summary								
HCM 2000 Control Delay			15.6	Н	CM 2000	Level of Serv	ice	В
HCM 2000 Volume to Cap	acity ratio		0.43		2111 2000		.55	
Actuated Cycle Length (s)			85.0	Sı	ım of los	st time (s)		13.0
Intersection Capacity Utiliz			50.5%			of Service		Α
Analysis Period (min)	Lation		15	10	J LOVOI	5. 50. VICC		, , , , , , , , , , , , , , , , , , ,
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Phase Number	1	2	6	8	
Movement	EBL	WBT	EBTL	SBL	
Lead/Lag	Lead	Lag			
Lead-Lag Optimize	Yes	Yes			
Recall Mode	Max	Max	Max	Max	
Maximum Split (s)	10	50	60	25	
Maximum Split (%)	11.8%	58.8%	70.6%	29.4%	
Minimum Split (s)	9.5	23	23	23	
Yellow Time (s)	3	4	4	4	
All-Red Time (s)	0	1	1	1	
Minimum Initial (s)	5	15	15	7	
Vehicle Extension (s)	2	1	1	2.5	
Minimum Gap (s)	3	3	3	3	
Time Before Reduce (s)	0	0	0	0	
Time To Reduce (s)	0	0	0	0	
Walk Time (s)					
Flash Dont Walk (s)					
Dual Entry	No	Yes	Yes	Yes	
Inhibit Max	Yes	Yes	Yes	Yes	
Start Time (s)	22.5	32.5	22.5	82.5	
End Time (s)	32.5	82.5	82.5	22.5	
Yield/Force Off (s)	29.5	77.5	77.5	17.5	
Yield/Force Off 170(s)	29.5	77.5	77.5	17.5	
Local Start Time (s)	30	40	30	5	
Local Yield (s)	37	0	0	25	
Local Yield 170(s)	37	0	0	25	
Intersection Summary					
Cycle Length			85		
Control Type		F	Pretimed		
Natural Cycle			60		
Offset: 77.5 (91%), Referen	ced to pha	se 2:WB1	and 6:E	BTL, Star	t of Yellow
Splits and Phases: 6: SW	/ 72nd Stre	et & Yum	uri Street		
₩		ot a rain	un ou cou		
Ø1 Ø2 (R	()				•
					Λ.
→Ø6 (R)					▼ Ø8

ntersection Delay, s/veh 9.9	Intersection			
ntoreaction LOS A	Intersection Delay, s/veh	9.9		
HIGH SECTION FOR	Intersection LOS	Α		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					- ↔			4			- 43→	
Traffic Vol, veh/h	0	0	0	22	40	13	38	126	29	21	86	54
Future Vol, veh/h	0	0	0	22	40	13	38	126	29	21	86	54
Peak Hour Factor	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.46
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	34	63	20	59	197	45	33	134	117
Number of Lanes	0	0	0	0	1	0	0	1	0	0	1	0
Approach				WB			NB			SB		
Opposing Approach							SB			NB		
Opposing Lanes				0			1			1		
Conflicting Approach Left				NB						WB		
Conflicting Lanes Left				1			0			1		
Conflicting Approach Right				SB			WB					
Caudiation Laura Dialet				1			1			Λ		

Opposing Approach		SB	NB
Opposing Lanes	0	1	1
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	1	0	1
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	1	1	0
HCM Control Delay	9.3	10.2	9.8
HCM LOS	А	В	А

Lane	NBLn1	WBLn1	SBLn1
Vol Left, %	20%	29%	13%
Vol Thru, %	65%	53%	53%
Vol Right, %	15%	17%	34%
Sign Control	Stop	Stop	Stop
Traffic Vol by Lane	193	75	161
LT Vol	38	22	21
Through Vol	126	40	86
RT Vol	29	13	54
Lane Flow Rate	302	117	285
Geometry Grp	1	1	1
Degree of Util (X)	0.376	0.168	0.347
Departure Headway (Hd)	4.493	5.16	4.394
Convergence, Y/N	Yes	Yes	Yes
Cap	799	693	817
Service Time	2.528	3.211	2.429
HCM Lane V/C Ratio	0.378	0.169	0.349
HCM Control Delay	10.2	9.3	9.8
HCM Lane LOS	В	Α	Α
HCM 95th-tile Q	1.8	0.6	1.6

Intersection	
Intersection Delay, s/veh	9
Intersection LOS	Α

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations					4			4			↔	
Traffic Vol, veh/h	0	0	0	54	81	24	41	102	16	21	106	24
Future Vol, veh/h	0	0	0	54	81	24	41	102	16	21	106	24
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	61	92	27	47	116	18	24	120	27
Number of Lanes	0	0	0	0	1	0	0	1	0	0	1	0
Approach				WB			NB			SB		
Opposing Approach							SB			NB		
Opposing Lanes				0			1			1		
Conflicting Approach Left				NB						WB		
Conflicting Lanes Left				1			0			1		
Conflicting Approach Right				SB			WB					
Conflicting Lanes Right				1			1			0		
HCM Control Delay				9.2			8.9			8.8		
HCM LOS				Α			Α			Α		

Vol Left, % 26% 34% 14% Vol Thru, % 64% 51% 70% Vol Right, % 10% 15% 16% Sign Control Stop Stop Stop Traffic Vol by Lane 159 159 151 LT Vol 41 54 21 Through Vol 102 81 106 RT Vol 16 24 24 Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A HCM 95th-tile Q 0.9 0.9 0.8	Lane	NBLn1	WBLn1	SBLn1	
Vol Right, % 10% 15% 16% Sign Control Stop Stop Stop Traffic Vol by Lane 159 159 151 LT Vol 41 54 21 Through Vol 102 81 106 RT Vol 16 24 24 Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Vol Left, %	26%	34%	14%	
Sign Control Stop Stop Stop Traffic Vol by Lane 159 159 151 LT Vol 41 54 21 Through Vol 102 81 106 RT Vol 16 24 24 Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Vol Thru, %	64%	51%	70%	
Traffic Vol by Lane 159 159 151 LT Vol 41 54 21 Through Vol 102 81 106 RT Vol 16 24 24 Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Vol Right, %	10%	15%	16%	
LT Vol 41 54 21 Through Vol 102 81 106 RT Vol 16 24 24 Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Sign Control	Stop	Stop	Stop	
Through Vol 102 81 106 RT Vol 16 24 24 Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Traffic Vol by Lane	159	159	151	
RT Vol 16 24 24 Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	LT Vol	41	54	21	
Lane Flow Rate 181 181 172 Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A		102	81	106	
Geometry Grp 1 1 1 Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	RT Vol	16	24	24	
Degree of Util (X) 0.229 0.236 0.215 Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Lane Flow Rate	181	181	172	
Departure Headway (Hd) 4.562 4.712 4.516 Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Geometry Grp	1	1	1	
Convergence, Y/N Yes Yes Yes Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A		0.229	0.236	0.215	
Cap 786 761 794 Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Departure Headway (Hd)	4.562	4.712	4.516	
Service Time 2.591 2.745 2.545 HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	Convergence, Y/N	Yes			
HCM Lane V/C Ratio 0.23 0.238 0.217 HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A	•				
HCM Control Delay 8.9 9.2 8.8 HCM Lane LOS A A A					
HCM Lane LOS A A A		0.23		0.217	
		8.9	9.2	8.8	
HCM 95th-tile Q 0.9 0.9 0.8	HCM Lane LOS	Α	Α	Α	
	HCM 95th-tile Q	0.9	0.9	8.0	

Intersection							
Int Delay, s/veh	3.3						
		EDT	WDT	WDD	CDI	CDD	
Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	1/0	404	204	/0	ነ	1	
Traffic Vol, veh/h Future Vol, veh/h	169 169	404 404	286 286	69 69	24 24	93 93	
	169	404	286	8	24 1	93	
Conflicting Peds, #/hr Sign Control	Free	Free	Free	Free	Stop		
RT Channelized	Free -		Free -	None	Stop	Stop None	
	-		-	None -	0	75	
Storage Length Veh in Median Storage	- #	0	0		0	75	
Grade, %	e,# -		0	-		-	
Peak Hour Factor	87	0 87	87	- 87	0 87	87	
	2	2	2	2	2	2	
Heavy Vehicles, % Mvmt Flow	194	464	329	79	28	107	
IVIVIIIL FIOW	194	404	329	19	28	107	
Major/Minor	Major1	<u> </u>	Major2	ا	Vinor2		
Conflicting Flow All	416	0	-	0	1230	378	
Stage 1	-	-	-	-	377	-	
Stage 2	-	-	-	-	853	-	
Critical Hdwy	4.12	-	-	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	2.218	-	-	-	3.518	3.318	
Pot Cap-1 Maneuver	1143	-	-	-	196	669	
Stage 1	-	-	-	-	694	-	
Stage 2	-	-	-	-	418	-	
Platoon blocked, %		-	-	-			
Mov Cap-1 Maneuver	1134	-	-	-	148	663	
Mov Cap-2 Maneuver	-	-	-	-	148	-	
Stage 1	-	-	-	-	530	-	
Stage 2	-	-	-	-	415	-	
Approach	EB		WB		SB		
HCM Control Delay, s			0		16.3		
HCM LOS	2.0		U		10.3 C		
TIGIVI EUS					C		
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WBR :	SBLn1	SBLn2
Capacity (veh/h)		1134	-	-	-	148	663
HCM Lane V/C Ratio		0.171	-	-	-	0.186	0.161
HCM Control Delay (s)	8.8	0	-	-	34.8	11.5
HCM Lane LOS		Α	Α	-	-	D	В
HCM 95th %tile Q(veh	1)	0.6	-	-	-	0.7	0.6

Intersection						
Int Delay, s/veh	2.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		4	1	TIDIC	<u> </u>	7
Traffic Vol, veh/h	64	374	281	67	57	84
Future Vol, veh/h	64	374	281	67	57	84
Conflicting Peds, #/hr	9	0	0	9	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-		-	None
Storage Length	-	-	-	-	0	75
Veh in Median Storage	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	68	398	299	71	61	89
Major/Minor	Major1	N	Major2		Minor2	
Conflicting Flow All	379	0	<u> </u>	0	878	344
Stage 1	3/7	U	-	-	344	344
Stage 2	-	-	-	-	534	-
Critical Hdwy	4.12	-	-		6.42	6.22
Critical Hdwy Stg 1	4.12	-	-	-	5.42	0.22
Critical Hdwy Stg 2	-	-	-		5.42	-
Follow-up Hdwy	2.218	-	-		3.518	
Pot Cap-1 Maneuver	1179	-	-	-	318	699
Stage 1	11/7	-	-	-	718	077
Stage 2	-	-	-	-	588	-
Platoon blocked, %	-	-	-	-	500	-
Mov Cap-1 Maneuver	1169	-	-		289	693
Mov Cap-1 Maneuver		-	-	-	289	093
Stage 1	-	-	-	-	658	-
Stage 2	-	-	-	_	583	-
Staye 2	-	-	-	-	303	
A	EB		WB		SB	
Approach					14.9	
HCM Control Delay, s			0			
			0		В	
HCM Control Delay, s			0			
HCM Control Delay, s HCM LOS	1.2	FRI		WRT	В	SBI n1 S
HCM Control Delay, s HCM LOS Minor Lane/Major Mvn	1.2	EBL 1169	EBT	WBT	B WBR	SBLn1 S
HCM Control Delay, s HCM LOS Minor Lane/Major Mvn Capacity (veh/h)	1.2	1169	EBT -	-	WBR:	289
HCM Control Delay, s HCM LOS Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio	1.2 nt	1169 0.058	EBT -	-	B WBR:	289 0.21
HCM Control Delay, s HCM LOS Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	1.2 nt	1169 0.058 8.3	EBT 0	- - -	WBR	289 0.21 20.7
HCM Control Delay, s HCM LOS Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio	1.2 nt	1169 0.058	EBT -	-	B WBR:	289 0.21

Intersection						
Int Delay, s/veh	4.8					
		EDD	WDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ	,	01	4	Y	20
Traffic Vol, veh/h	44	6	21	29	33	39
Future Vol, veh/h	44	6	21	29	33	39
Conflicting Peds, #/hr	0	_ 0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	48	7	23	32	36	42
N.A.;/N.A;	-!1		1-!0		M:1	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	55	0	130	52
Stage 1	-	-	-	-	52	-
Stage 2	-	-	-	-	78	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1550	-	864	1016
Stage 1	-	-	-	-	970	-
Stage 2	-	-	-	-	945	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1550	-	851	1016
Mov Cap-2 Maneuver	-	-	-	-	851	-
Stage 1	-	_	_	_	955	-
Stage 2		_		_	945	_
Olago Z					710	
Approach	EB		WB		NB	
HCM Control Delay, s	0		3.1		9.2	
HCM LOS					Α	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
				LDK		WDI
Capacity (veh/h)		933	-	-	1550	-
HCM Lane V/C Ratio		0.084	-		0.015	-
HCM Control Delay (s)		9.2	-	-	7.4	0
HCM Lane LOS		Α	-	-	A	Α
HCM 95th %tile Q(veh)		0.3	-	-	0	-

Intersection						
Int Delay, s/veh	4.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	7	LDIX	WDL	4	¥	NDIC
Traffic Vol, veh/h	71	20	64	46	28	32
Future Vol, veh/h	71	20	64	46	28	32
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	_	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	# 0	-	-	0	0	-
Grade, %	0	_		0	0	
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	77	22	70	50	30	35
NA - ' / NA ' NA	-!1		4-10		M:1	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	99	0	278	88
Stage 1	-	-	-	-	88	-
Stage 2	-	-	-	-	190	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	
Pot Cap-1 Maneuver	-	-	1494	-	712	970
Stage 1	-	-	-	-	935	-
Stage 2	-	-	-	-	842	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1494	-	678	970
Mov Cap-2 Maneuver	-	-	-	-	678	-
Stage 1	-	-	-	-	890	-
Stage 2	-	-	-	-	842	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		4.4		9.8	
HCM LOS	U				A	
TIOW EOO					,,	
			EDT	EDD	WBL	WDT
NA'		IDI4			WKI	WBT
Minor Lane/Major Mvmt		VBLn1	EBT	EBR		
Capacity (veh/h)		808	-	-	1494	-
Capacity (veh/h) HCM Lane V/C Ratio		808 0.081	-	-	1494 0.047	-
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)		808 0.081 9.8	- - -	- - -	1494 0.047 7.5	- - 0
Capacity (veh/h) HCM Lane V/C Ratio		808 0.081	-	-	1494 0.047	-

Appendix E Committed Development Information

7.0 UHG TRIP GENERATION

The UHG will include various medical related uses and activities. The UHG will devote a substantial amount of low intensity space for imaging, more intense space for urgent care and clinic services, and additional medical services that fall more into the general medical office use such as sports clinics, rehabilitation, student health, a prescription center, and other varied medical services. The prescription center housed in the UHG will be for internal use. This combination of uses provides a diversity of trip generation sources. UHG's area allocation of the floor space for each use (in square feet) is shown in detail in **Table 2-1**.

The AM and PM peak hour trip estimates for the proposed UHG were determined based on the trip rates and/or formulas provided in the Institute of Transportation Engineers' (ITE) *Trip Generation, 9th Edition.* For trip generation estimation purposes, the UHG uses presented in **Table 2-1** were consolidated into similar trip generating groups. The Medical Office uses were consolidated with the Surgery/Imaging use; whereas, the Clinic use was maintained as a separate use. Furthermore, the Lobby space was proportionately distributed between the Medical Office/Surgery-Imaging and Clinic uses. **Table 7-1** summarizes the final UHG use/space allocation for trip generation.

Table 7-1
UHG Use Allocation for Trip Generation

UHG USE	Gross Floor Area (square feet)	Total Net Area UHG (square feet)	Percent (%) Gross Floor Area	Percent (%) Gross Floor Area w/o Mechanical	Proportionate Lobby Area (square feet)	Total Floor Area per UHG Use (square feet)
Office + Imagery	99,271		54.3%	58.5%	15,310	114,581
Clinic	64,827		35.5%	38.2%	9,998	74,825
Student Health (1)	5,666		3.1%	3.3%	874	6,540
Mechanical Area (2)	12,927		7.1%			12,927
Total Use Gross Area	182,691		100.0%	100.0%		
Gross Area minus Mechanical	169,764					
Total Lobby Space	26,181					
Total Net (Gross Area plus Lobl	by Space) (3)	208,872				208,872

Notes:

The following ITE land use categories were used to determine trip generation in this analysis:

- #720 Medical-Dental Office Building (including Surgery/Imaging and pharmacy); and
- #630 Clinic (including urgent care).

⁽¹⁾ The existing on-campus Daystar Clinic Health Center currently located at Pavia Street will be relocated to the new UHG facility.

⁽²⁾ The rooftop mechanical room will be covered. No other uses proposed for this level.

⁽³⁾ Total GFA based on latest available Floor Level Distribution information provided by P+W, April 2014.

All UM commuters currently assigned the Ponce de Leon Garage will be reassigned to other parking facilities. As such, the UHG area allocated to the Student Health Service Clinic is deducted from the overall gross area and no trips are assigned for this use.

The UHG building's roof level will have about 12,927 square feet of utility/mechanical space. This use does not generate trips and as such is also deducted from the overall UHG gross floor area. The City of Coral Gables has indicated that this space may be exempted from the parking requirements as well (see **Appendix B**).

Tables 7-2 and **7-3** present, respectively, the AM and PM trip generation calculations based on the UHG facility uses in **Table 7-1**. There are no AM peak hour rates or formula for the Clinic (ITE #630) land use in the ITE's Trip Generation, 8th Edition. As such, the AM peak hour estimate was made assuming an equivalent proportional split between the AM and PM peak hour trips for the Medical Office/Surgery-Imaging use (45 percent).

The following is a summary of the estimated AM and PM peak hour volumes for the UHG:

UHG AM Peak Hour Trips: UHG PM Peak Hour Trips:

Total	567	Total	681
Inbound	447	Inbound	187
Outbound	120	Outbound	494

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Table 7-2
UHG AM Peak Hour Trip Generation

Land Use	Area (Square Feet)	ITE Code	Formula or Rate	Total Trips	IN	оит
Medical Offices /Surgery/lmaging	114,580	720	T = 2.39 (X)	274	216	58
Clinic	74,825	630	T = 5.18 (X) (.80) (2)	323	255	68
Mechanical Room	12,927	N/A	No new trips associated with use.(3)	0	0	0
Student Health	6,540	N/A	No new trips associated with use.(4)	0	0	0
Subtotal UHC	208,872			597	471	126
Minus Transit Use -All Pop	inus Transit Use -All Populations (5) @ 5.0%				24	6
Total UHC AM Peak Hour Trips					447	120

Notes:

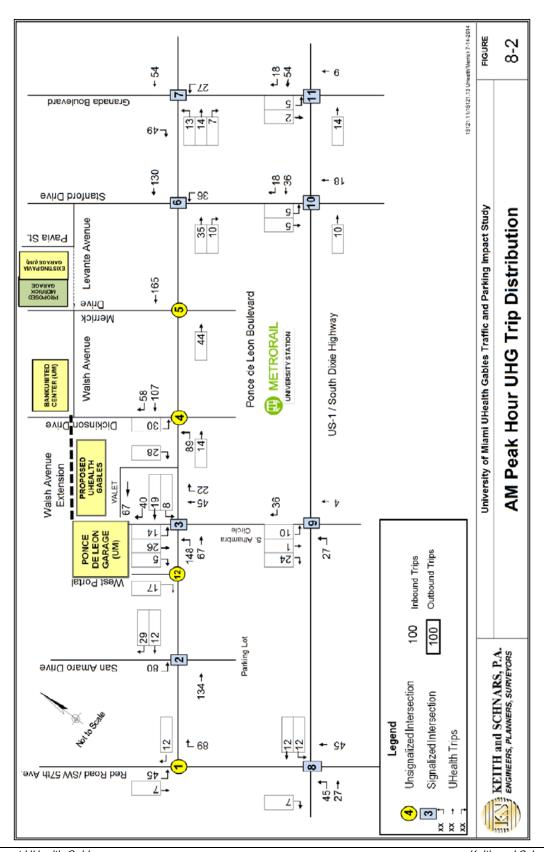
- (1) Area includes proportionate distribution of Lobby Space as shown in Table 7-1.
- (2) Clinic AM Peak Hour trip rate/formula not available in ITE. Used AM/PM ratio (0.80) & in/out split for Medical Office.
- (3) No trips associated with mechanic room/roof level. No office or medical facilities on this level.
- (4) Exisiting UM Campus student health facility to be relocarted to UHG. No new trips associated with this use.
- (5) Used 5% transit share as per ITE information (Table B.3 Transportation Impact Factors, Development Around Transit Centers and Light Rail Stations, Trip Generation Handbook, An ITE Proposed Recommended Practice, October 1998): Site on major transit corridor, METRORAIL.

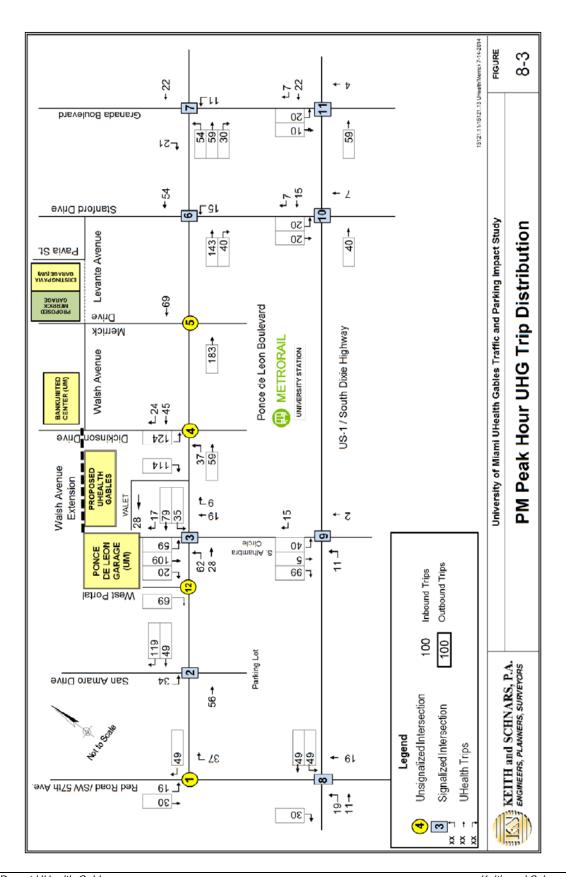
Table 7-3
UHG PM Peak Hour Trip Generation

Land Use	Area (Square Feet)	ITE Code	Formula or Rate	Total Trips	IN	OUT
Medical Offices /Surgery/Imaging	114,580	720	Ln(T) = 0.90 Ln(X) + 1.53	329	92	237
Clinic	74,825	630	T = 5.18 (X)	388	105	283
Mechanical Room	12,927	N/A	No new trips associated with use.(2)	0	0	0
Student Health	6,540	N/A	No new trips associated with use.(3)	0	0	0
Subtotal UHC	208,872			717	197	520
Minus Transit Use -All I	Populations (4)	•	5.0%	36	10	26
Total UHC AM Peak Hour	Γrips			681	187	494

Notes

- (1) Area includes proportionate distribution of Lobby Space as shown in Table 7-1.
- (2) No trips associated with mechanic room/roof level. No office or medical facilities on this level.
- (3) Exisiting UM Campus student health facility to be relocarted to UHG. No new trips associated with this use.
- (4) Used 5% transit share as per ITE information (Table B.3 Transportation Impact Factors, Development Around Transit Centers and Light Rail Stations, Trip Generation Handbook, An ITE Proposed Recommended Practice, October 1998): Site on major transit corridor, METRORAIL.







CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT

PUBLIC WORKS PERMIT

2800 SW 72nd AVENUE MIAMI, FLORIDA 33155 (305) 460-5026 or 5025

Site Address:

1515 SUNSET DR

CORAL GABLES, FL 33143-5878

PERMIT NUMBER: BL-10-09-4191

PARCEL NUMBER: 03-4130-009-1560

Project Name:

SUNSET OFFICE CENTER

Legal Description:

PB 28-32 CORAL GABLES RIVIERA SEC 14 2ND REV BLK 205 W9FT LOT 23 & ALL LOTS 24 THRU 27 & E19.40FT LOT 28 OT SIZE 22840 SQUARE FEET OR 17852-4235 1097 1 - TEXACO INC TAX DEPT STATEWIDE STATIONS INC

Applicant:	Owner:	Contractor:		
1515 SUNSET LLC	1515 SUNSET LLC 133 SEVILLA	ARELLANO CONSTRUCTION 7051 SW 12 ST		
133 SEVILLA	CORAL GABLES, FL 33134	MIAMI, FL 33144		
CORAL GABLES, FL 33134				
		Bus License: CGCA08520 Expires: 08/31/2014 State License:		

Project Description:

TOTAL:

INCLUSIVEREVISED FROM A (4 TO A 5) STORY COMMERCIAL OFFICE / RETAIL BUILDING***SIMPLIFIED*** REVISED FROM A (5 TO A 7) LEVEL PARKING, COVERED

WALKWYS, BALCONIES, ROOF TOP TRELLIS, LANDSCAPE\$12,000,000

DATE OF LAST ROUTING	09/06/2012
# OF NEW RESIDENTIAL UNITS	0
# OF STORIES	4
BUILDING REVIEW	N
OFFICE	61538.4
CONCURRENCY REVIEW	N
FIRE REVIEW	N
ELECTRICAL REVIEW	N
RETAIL	0
BANK	0

This department must have: 24 hrs. notice for all inspections (305) 460-5026 or 5025 (fax) 460-5086

FAILURE TO OBTAIN ALL REQUIRED INSPECTIONS WILL RESULT IN AUTOMATIC REJECTION OF WORK

FEES	
COMMERCIAL NEW	366,012.66
RT ACQUISITION FUND	120,000.00
IRE - NEW BLDGS, ALTER, REPA	1,684.00
ERTIFICATE OF OCCUP/COMPL	152.25
OCUMENT PRESERVATION FEE	619.15
RDINANCE 2006-27 FILING FEE	427.00
HRESHOLD BLDG FEE	37,925.07
BLDG INSP CERT & FL CONSTR IN	6,030.19
RADON GAS TRUST FEE	6,030.19

Issued Date: 09/07/2012 12/08/2014 **Expiration Date:**

> CALL BEFORE YOU DIG FOR ALL UTILITY LOCATES SUNSHINE STATE ONE CALL 1-800-432-4770



\$538,885.51

Summary of Multi-Use Trip Generation Average Weekday Driveway Volumes (Unadjusted for Internal Trips)

Project: Shoma Park Tower

Open Date: 07/14/2014

Phase:

Analysis Date: 07/14/2014

Description: Committed Development #14194

	24 Hour Two-Way	AM Pk	Hour	PM Pk	Hour
ITE:Land Use	Volume	Enter	Exit	Enter	Exit
710: General Office Building 61.5384 Th.Sq.Ft. GFA [E]	908	114	16	25	122
Total Driveway Volume	908	114	16	25	122
Total Peak Hour Pass-By Trips		0	0	0	0
Total Peak Hour Vol. Added to Adjacen	t Streets	114	16	25	122

Note: A zero indicates no data available. Source: Institute of Transportation Engineers Trip Generation Manual, 9th Edition, 2012

TRIP GENERATION 2013, TRAFFICWARE, LLC

Pasodela Riviera

TRAFFIC STUDY



Project Location

EXHIBIT 1

Location Map



DAVID PLUMMER & ASSOCIATES

Exhibit 10 **Project Trip Generation Summary**

Proj	ect Trip Gene	eration S	<u>umma</u>	ry					
Proposed ITE Land Use	Size/Units		k Hou Trips	r Vehicle	PM Peak Hour Vehicle Trips				
Designation ¹		In	Out	Total	In	Out	Total		
		21	50	71	54	38	92		
Apartments (Land Use 223)	236 DU	Rate		trips DU	Rate	$Rate = \frac{0.39 trips}{DU}$			
		31% In	ı	69% Out	58%]	In 42	2% Out		
		78	56	134	78	73	151		
Hotel (Land Use310)	252 Rooms	$Rate = \frac{0.53 \ trips}{Rooms}$			$Rate = \frac{0.60 \ trips}{Rooms}$				
		59%In		41%Out	51%]	In 49	9% Out		
		0	0	0	22	11	33		
Restaurant (Land Use 931)	4,380 SF	-			Rate =	$Rate = \frac{7.48 \ trips}{1000 \ SF \ GFA}$			
		- In		- Out	67%]	In 33	3% Out		
		0	0	0	17	21	38		
Specialty Retail (Land Use 826)	14,094 SF	-			$Rate = \frac{2.71 tri}{1000 SF}$		trips SF GLA		
		- In		- Out	44%]		5%Out		
Subtotal Gross Trips		99	106	205	171	143	314		
Transit Trips	10%	-10	-11	-21	-17	-14	-31		
Pedestrian Trips (Apartment only)	10%	-2	-5	-7	-5	-4	-9		
Internal Capture ²	0% (AM) 12.4% (PM)	0	0	0	-16	-18	-34		
Pass-by Trip ² (Restaurant only)	44%	0	0	0	-10	-5	-15		
Net External Trips (Propo	osed)	87	90	177	123	102	225		

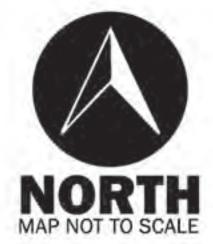
¹ Based on ITE <u>Trip Generation Manual</u>, Ninth Edition, ² Based on ITE <u>Trip Generation Manual User's Guide and Handbook</u>, Ninth Edition

Exhibit 10 - continued

Existing ITE Land Use	Size/Units		Peak H		PM Peak Hour Vehicle Trips		
Designation ¹		In	Out	Total	In	Out	Total
Hotel (Land Use 310)	155 Rooms	48	34	82	48	45	93
Transit/Pedestrian Trips	10%	-5	-3	-8	-5	-4	-9
Net External Trips (Existing)			31	74	43	41	84

Proposed Uses	87	90	177	123	102	225
Existing Uses	-43	-31	-74	-43	-41	-84
Net New External Trips	44	59	103	80	61	141







Appendix F Project Trip Generation

Trip Generation Summary

Alternative: Alternative 1

Phase: Open Date: 1/31/2018

Project: 1500 Venera & 1537 Sam Remo Analysis Date: 1/31/2018

		Weekday Average Daily Trips			Weekday AM Peak Hour of Adjacent Street Traffic				Weekday PM Peak Hour of Adjacent Street Traffic			
ITE Land Use	*	Enter	Exit	Total	*	Enter	Exit	Total	*	Enter	Exit	Total
230 CONDO		560	559	1119		15	71	86		68	33	101
189 Dwelling Units												
820 CENTER SHOPPING		1611	1610	3221		48	29	77		133	145	278
31.74 Gross Leasable Area 1000 SF						Total: 7	7 / 278 *	98 = 27				
826 CENTER SPECIALTY		704	703	1407		In: 4	48 / 77 * 2	27 = 17		43	55	98
31.74 Gross Leasable Area 1000 SF	Out: 29 / 77 * 27 = 10											
Unadjusted Volume		2875	2872	5747		63	100	163		244	233	477
Internal Capture Trips		0	0	0		1	1	2		45	45	90
Pass-By Trips		0	0	0		0	0	0		42	42	84
Volume Added to Adjacent Streets		2875	2872	5747		62	99	161		157	146	303

Total Weekday Average Daily Trips Internal Capture = 0 Percent

Total Weekday AM Peak Hour of Adjacent Street Traffic Internal Capture = 1 Percent

Total Weekday PM Peak Hour of Adjacent Street Traffic Internal Capture = 19 Percent

Note: AM peak hour for Specialty Retail was obtained by applying an AM to daily ratio for shopping center.

^{* -} Custom rate used for selected time period.

AM Peak Hour Trip Generation and Internalization

1500 Venera & 1537 San Remo

	ntail Condo		Sepcialt		
	d Use 230		Land U		
	velling Units		31,741	-	
In	Out		In	Out	
15	71		17	10	113 ITE Trips
	UNBALANC	ED IN		ATION	
	1% 1	1	17% 3		
2% 0		U		14% 1	
D I.			0 ' - 14	D - (- 'I	
	ntail Condo		Sepcialt		
ln 45	Out		ln 47	Out	440 William Tax
15	71		17	10	113 Vehicle Trips
	BALANCE	D INT	ERNALIZA	TION	
	-1		-1		
0				0	
0	-1		-1	0	-2 Internal
15	70		16	10	111 External Trips
	1.2%			3.7%	1.8% % Internal
			0	0	0 0% Quality Restaurant
15	70		16	10	111
-2	-7		-2	-1	-11 -10.0% Transit
14	63		14	9	100 Net New External Trips

PM Peak Hour Trip Generation and Internalization

1500 Venera & 1537 San Remo

	entail Condo d Use 230			ty Retail Jse 826	
	velling Units			Sq Ft	
In	Out		In	Out	
68	33	Ī	43	55	199 ITE Trips
	UNBALANC	ED IN	TERNALIZ	ZATION	
	42% 14	4	10% 4	_	
46% 31		14		26% 14	
Reside	ntail Condo		Sepcial	ty Retail	
In	Out		ln	Out	
68	33		43	55	199
	BALANCE	D INT	ERNALIZA	ATION	
	-4		-4	_	
-14				-14	
-14	-4		-4	-14	-36 Internal
54	29		39	41	163 External Trips
	17.8%			18.4%	18.1% % Internal
			0	0	0 0% Passby
54	29		39	41	163
-5	-3		-4	-4	-16 -10.0% Transit
49	26		35	37	147 Net New External Trips

Trip Generation Summary

Alternative: Alternative 1

Phase: Open Date: 1/31/2018

Project: 1500 Venera & 1537 S Remo Existing Analysis Date: 1/31/2018

	W	Weekday Average Daily Trips			Weekday AM Peak Hour of Adjacent Street Traffic				Weekday PM Peak Hour of Adjacent Street Traffic				
ITE Land Use		*	Enter	Exit	Total	*	Enter	Exit	Total	*	Enter	Exit	Total
220 APT			183	183	366		5	18	23		26	14	40
40	Dwelling Units												
230 COND	00		167	166	333		5	23	28		21	11	32
47	Dwelling Units												
710 OFFIC	CE GENERAL		35	35	70		3	0	3		1	2	3
2.11	Gross Floor Area 1000 SF												
Unadjusted V	/olume		385	384	769		13	41	54		48	27	75
Internal Captu	ure Trips		0	0	0		0	0	0		1	1	2
Pass-By Trips	s		0	0	0		0	0	0		0	0	0
Volume Adde	ed to Adjacent Streets		385	384	769		13	41	54		47	26	73

Total Weekday Average Daily Trips Internal Capture = 0 Percent

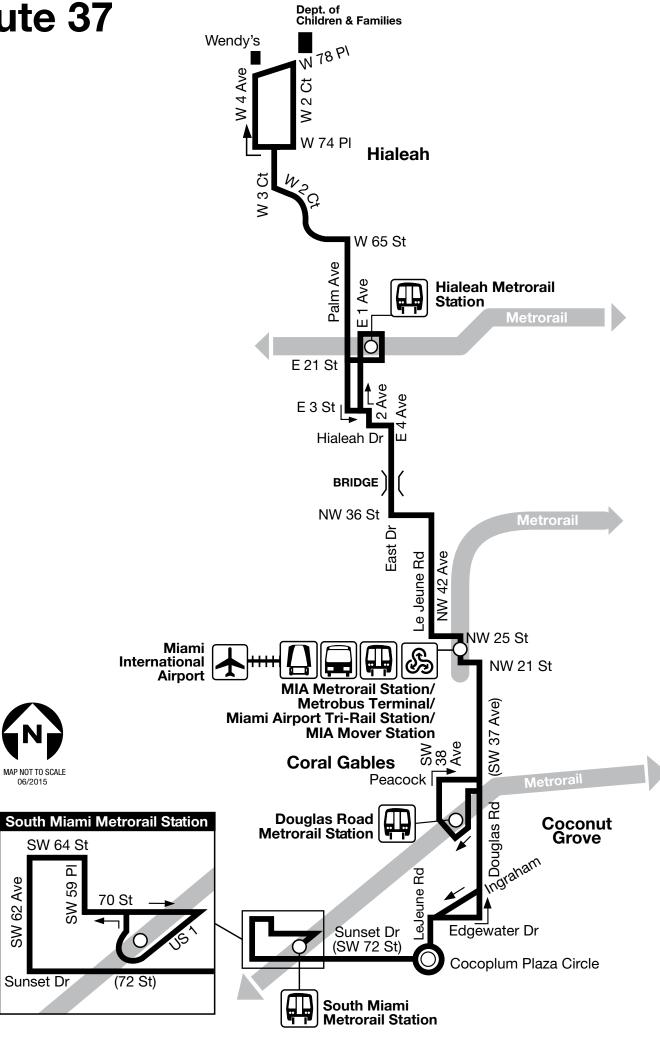
Total Weekday AM Peak Hour of Adjacent Street Traffic Internal Capture = 0 Percent

Total Weekday PM Peak Hour of Adjacent Street Traffic Internal Capture = 3 Percent

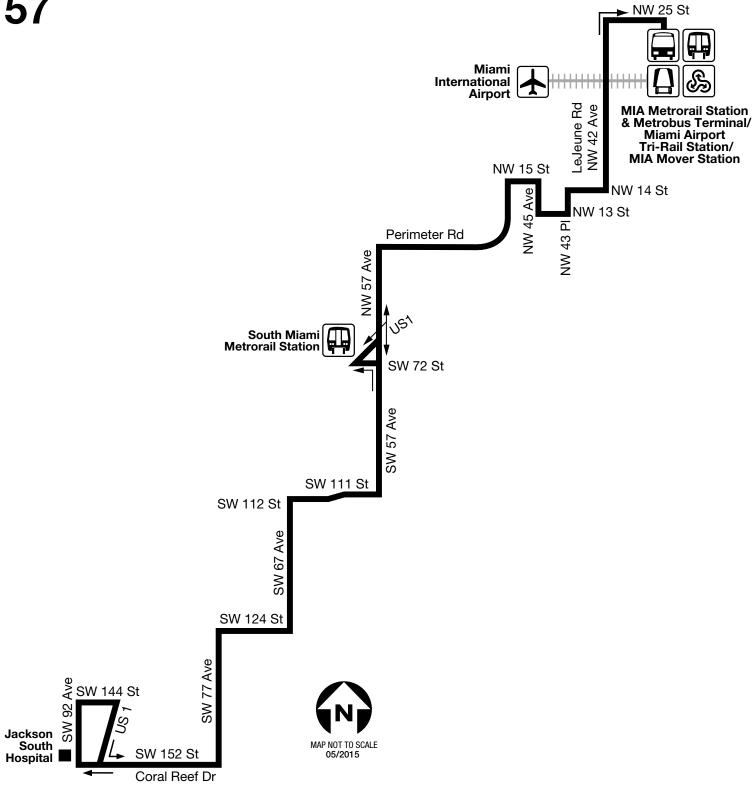
^{* -} Custom rate used for selected time period.

Appendix G Transit Routes Documentation

Route 37



Route 57



Route 500 Midnight Owl

KENDALL

Dadeland South Metrorail Station Dadeland North Metrorail

SW 68 (

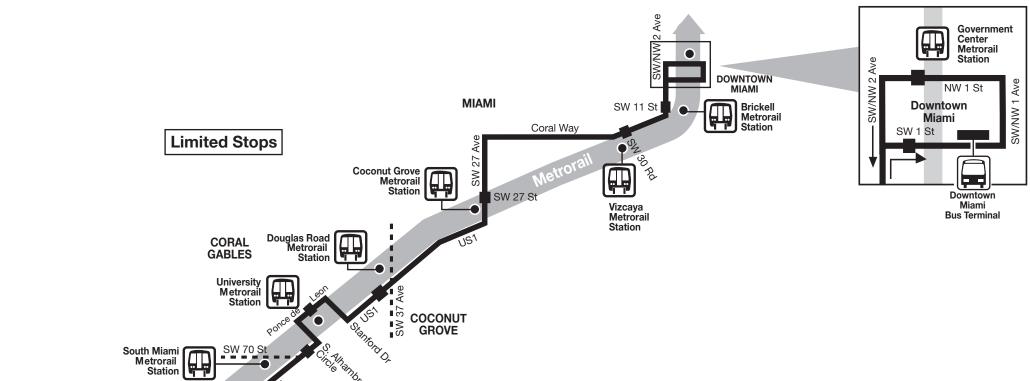
Station

SOUTH MIAMI

Bus Stop

The stop at Dadeland South is the only

one located inside the station.







www.miamidade.gov/transit



311 (305.468.5900) TDD: 305.468.5402











