SUPPLEMENTAL TRAFFIC IMPACT ANALYSIS

Riverwalk Residences at Las Olas

Fort Lauderdale, Florida

Prepared For:

Riverwalk Residences of Las Olas, LLC 1800 Las Olas Boulevard Fort Lauderdale, FL 33301

Prepared By:

Langan Engineering & Environmental Services, Inc. 110 E. Broward Boulevard, Suite 1500 Fort Lauderdale, FL 33301

FL Certificate of Authorization No: 6601

Johns PA Kind, P.E. Prope P.E. License Vo. 2400

Eric Schwarz, P.E., LEED AP Principal/Vice President

23 August 2017

LANGAN

330019401

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EXECUTIVE SUMMARY

Langan Engineering & Environmental Services, Inc. was retained by Riverwalk Residences of Las Olas, LLC to prepare this impact-analysis report for Riverwalk Residences at Las Olas, which will be built in Fort Lauderdale, Florida. The development is expected to be built by 2019 and will replace an office building at 333 North New River Drive. The development will comprise a 238-bed assisted-living facility, 192 senior-adult residential units and 1,619 square feet of retail space. We analyzed the two intersections that will be most impacted by the development and found that they will operate at Level of Service (LOS) A in 2019 with the proposed development's impacts. The two study intersections included:

- Las Olas Boulevard at SE 2nd Avenue
- Las Olas Boulevard at SE 5th Avenue (North New River Drive)

We estimated the number of trips generated by the proposed development using tripgeneration equations from the Institute of Transportation Engineers *Trip Generation Manual*, 9th Edition. We applied pass-by reductions for the retail use and internalization factors to account for interaction between the retail and residential land uses. The proposed development is expected to generate 946 daily, 40 morning peak-hour, and 66 afternoon net-new peak-hour trips after applying credit for the office building it will replace. The development's driveway intersections with North New River Drive are expected to operate at LOS A during the morning and afternoon peak hours for the 2019 build conditions.

INTRODUCTION

Langan Engineering & Environmental Services, Inc. was retained by Riverwalk Residences of Las Olas, LLC to prepare this impact-analysis report for Riverwalk Residences (development), which will be built in Fort Lauderdale, Florida. The development is expected to be built by 2019 and will replace an office building at 333 North New River Drive. The analysis shows that the analyzed intersections will operate at LOS A. This report presents the traffic-data and traffic-impact analysis for this proposed development.

Project Description

The development will comprise an assisted-living facility, senior-adult residential units and a small retail land use component constructed within one building. **Appendix A** contains the figures of this report. **Figure 1** illustrates the site location. **Appendix B** contains a copy of the site plan that shows the proposed design and location of the development's driveways. The development will construct two driveway intersections on North New River Drive.

Scope of Study

Langan undertook the following steps to prepare this study in accordance with the methodology accepted by City of Fort Lauderdale. **Appendix C** contains a copy of the methodology letter accepted by the city.

- Collected morning (7 to 9 AM) and afternoon (4 to 6 PM) peak-hour vehicle turning-movement volumes at the following study intersections:
 - Las Olas Boulevard at NE 2nd Avenue (unsignalized)
 - o Las Olas Boulevard at NE 5th Avenue (unsignalized)
- Used adjustment factors from the Florida Department of Transportation (FDOT) to convert the traffic data into peak-season volumes.
- Prepared trip-generation estimates for the proposed development, based on accepted trip-generation rates developed by the Institute of Transportation Engineers (ITE)
- Calculated a growth rate for background traffic by using FDOT historical data from a traffic-count station in the vicinity of the project.
- Developed trip-distribution estimates for the project based on the FDOT historical data.
- Prepared morning and afternoon peak-hour capacity analyses for the following conditions at the study intersections: 2017 existing, 2019 future no-build, and 2019 future build.
- Calculated the morning and afternoon peak-hour LOS analysis of the development's driveways for the 2019 build conditions.

DESCRIPTION OF EXISTING CONDITIONS

Langan visited the study intersections to collect the lane-configuration and traffic-control data shown in **Figure 2**. Both intersections are two-way stop-sign controlled.

Las Olas Boulevard

Las Olas Boulevard is a four-lane, divided, east-west urban collector roadway with a 25 MPH posted speed limit.

North New River Drive

North New River Drive is a two-lane, undivided, local roadway maintained by the city and is directly accessed by the proposed development. North New River Drive is also designated as SE 5th Avenue where it intersects with Las Olas Boulevard east of the development.

SE 2nd Avenue

SE 2nd Avenue is a two-lane, undivided, north-south city-maintained local roadway.

Traffic Volumes

Traffic-volume data was collected on Tuesday, August 22, 2017, from 7 to 9 AM and 4 to 6 PM. We applied a 1.03 FDOT seasonal adjustment factor to the count data to develop peak season traffic volumes. We compared the data of each intersection and determined that the peak hours occurred between 8:00 and 9:00 AM and between 4:30 and 5:30 PM. **Figure 3** illustrates the existing weekday morning and afternoon peak-hour traffic volumes. **Appendix D** contains the traffic data and seasonal-adjustment factors.

Capacity Analysis (Level of Service)

We conducted 2017 existing-conditions capacity analyses for the study intersections using Synchro software and found they operate at LOS A during the morning and afternoon peak hours. Capacity analysis provides an indication of the adequacy of intersection and roadway facilities to serve traffic demand. The evaluation criteria used to analyze the study the intersections is based on the *2010 Highway Capacity Manual* published by the Transportation Research Board. **Table 1** summarizes the results of the existing-conditions analysis. **Appendix E** contains intersection-volume tables; **Appendix F** contains the capacity-analyses worksheets.

Table 1 - 2017 Existing Intersection Capacity Analysis Summary

	А	М	Pi	М
Location	LOS	Delay (sec.)	LOS	Delay (sec.)
Las Olas Boulevard at SE 2 Avenue	А	3.3	А	4.5
Las Olas Boulevard at SE 5 Avenue	А	1.4	А	1.7

PLANNED AND PROGRAMMED ROADWAY IMPROVEMENTS

There are no planned roadway improvements included in the county's transportation improvement program that impact the study intersections.

FUTURE CONDITIONS

This section of the report covers background traffic growth, site-generated trips, trip distribution, and future traffic volumes. The project should be completed by the end of 2019. We developed 2019 no-build traffic volumes by applying a compounded growth rate to the 2017 volumes. Site-generated trips were added to the 2019 no-build traffic volumes to develop 2019 build traffic volumes.

Background Traffic

We conducted capacity analyses for the study intersections and determined that they are expected to operate at LOS A during the morning and afternoon peak hours for the 2019 no-build conditions. We used a 0.50 percent annual growth-rate factor to develop future background volumes because the FDOT historical traffic volumes yielded a value less than 0.50 percent. The growth-rate factor was applied to the existing traffic volumes to develop 2019 no-build traffic volumes. **Figure 4** illustrates the 2019 no-build traffic volumes. **Table 2** summarizes the results of the 2019 no-build conditions capacity analysis. Appendix F contains the capacity-analyses worksheets.

Table 2 - 2019 No Build Intersection Capacity Analysis Summary

	А	М	Pi	М
Location	LOS	Delay (sec.)	LOS	Delay (sec.)
Las Olas Boulevard at SE 2 Avenue	А	3.4	А	4.5
Las Olas Boulevard at SE 5 Avenue	А	1.4	А	1.7

Site-Generated Trips

The proposed development is expected to generate 946 daily, 40 morning peak-hour, and 66 afternoon net-new peak-hour trips after applying credit for the office building it will replace. We prepared daily, morning peak-hour and afternoon peak-hour trip estimates for the proposed development using equations from the 9th Edition of the ITE *Trip Generation Manual*. We applied ITE pass-by and internalization rates from the *Trip Generation Handbook* and a 10 percent multi-modal reduction factor to determine the number of net-new trips the proposed development will add to the roadway network. **Table 3** summarizes the trip-generation estimates for the proposed development. **Appendix G** contains the trip-generation data. The assisted-living facility will include eight suites that will operate like hotel suites but will only be available to residents' guests. These suites are ancillary to the assisted-living facility and are not expected to generate additional traffic.

Table 3 - Trip Generation Analysis

USE	Size	Daily	Weekda	y Morni Hour	ng Peak		day Afte Peak Hou	
			In	Out	Total	In	Out	Total
Existing Use								
General Office	16,199 SF	179	22	3	25	4	20	24
Proposed Uses								
Senior Adult Housing - Attached	192 DU's	586	13	25	38	22	21	43
Assisted Living Facility	238 Beds	626	21	12	33	19	28	47
Specialty Retail	1,619 SF	38	1	0	1	7	3	10
Total		1,125	31	34	65	43	47	90
Net New Trips		946	9	31	40	39	27	66

Trip Distribution

We used FDOT historical data on Las Olas Boulevard to develop the directional distribution of site-generated trips. **Figure 5** shows the proposed development's traffic distributions at the study intersections. **Figure 6** illustrates the morning and afternoon development-traffic assignments at the study intersections.

Build Traffic Volumes

We conducted capacity analyses for the study intersections and determined that they are expected to operate at LOS A during the morning and afternoon peak hours for the 2019 build conditions. The 2019 build traffic volumes were derived by adding the total site-generated trips to the 2019 no-build traffic volumes. **Figure 7** illustrates the 2019 build morning and afternoon peak-hour traffic volumes. **Table 4** summarizes the 2019 build LOS for the morning and afternoon peak hours. Appendix F contains the capacity-analyses worksheets.

Table 4 - 2019 Build Intersection Capacity Analysis Summary

	А	M	Pl	M
Location	LOS	Delay (sec.)	LOS	Delay (sec.)
Las Olas Boulevard at SE 2 Avenue	А	4.1	А	5.0
Las Olas Boulevard at SE 5 Avenue	А	1.5	А	2.0

Driveway Volumes

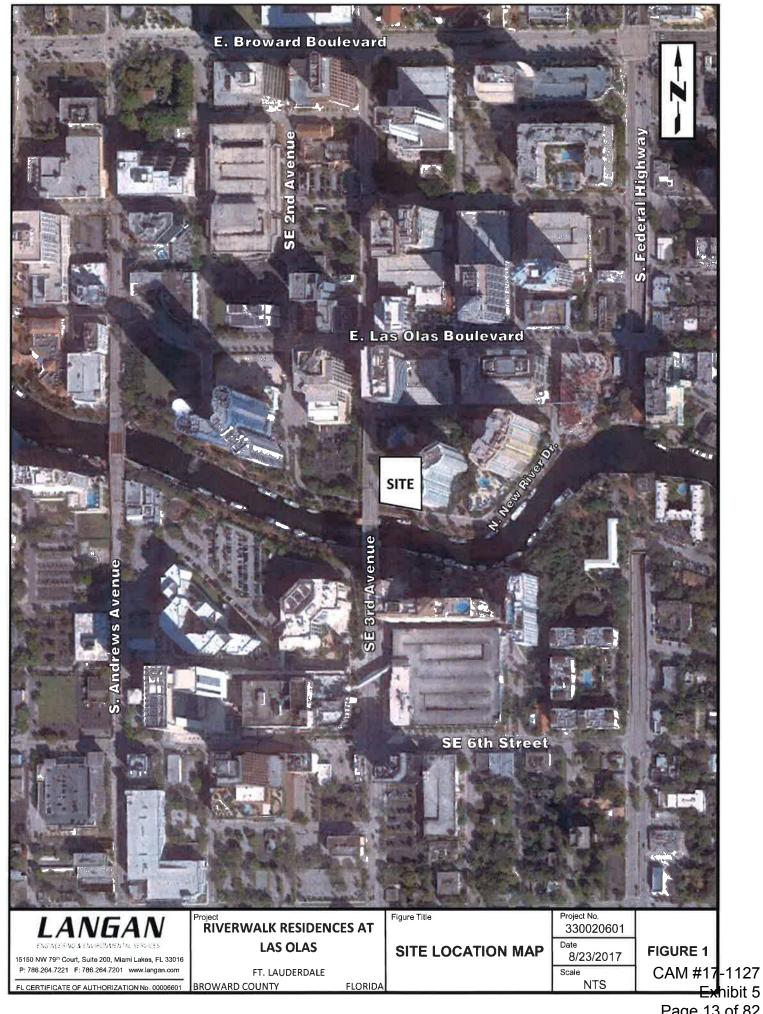
We analyzed the development's two driveway intersections with North New River Drive and found that they are expected to operate at LOS A during the 2019 build conditions for the morning and afternoon peak hours. **Figure 8** shows the project's driveway volumes; Appendix F contains the capacity-analyses worksheets.

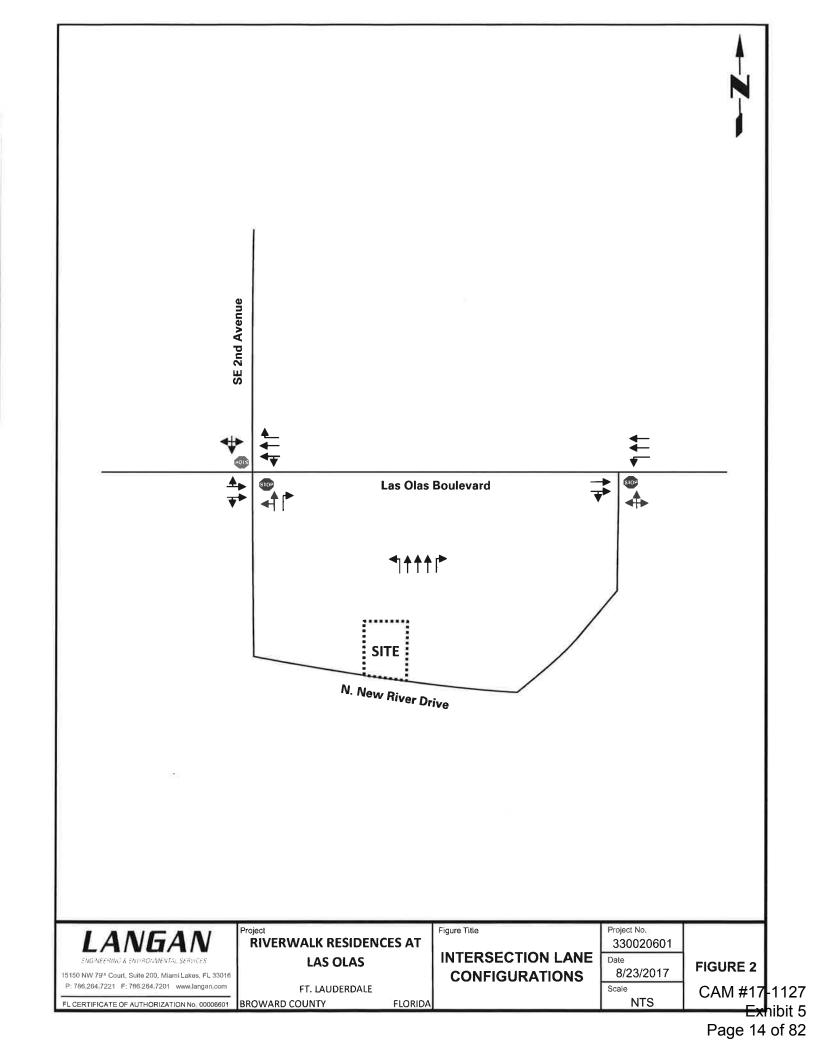
CONCLUSIONS

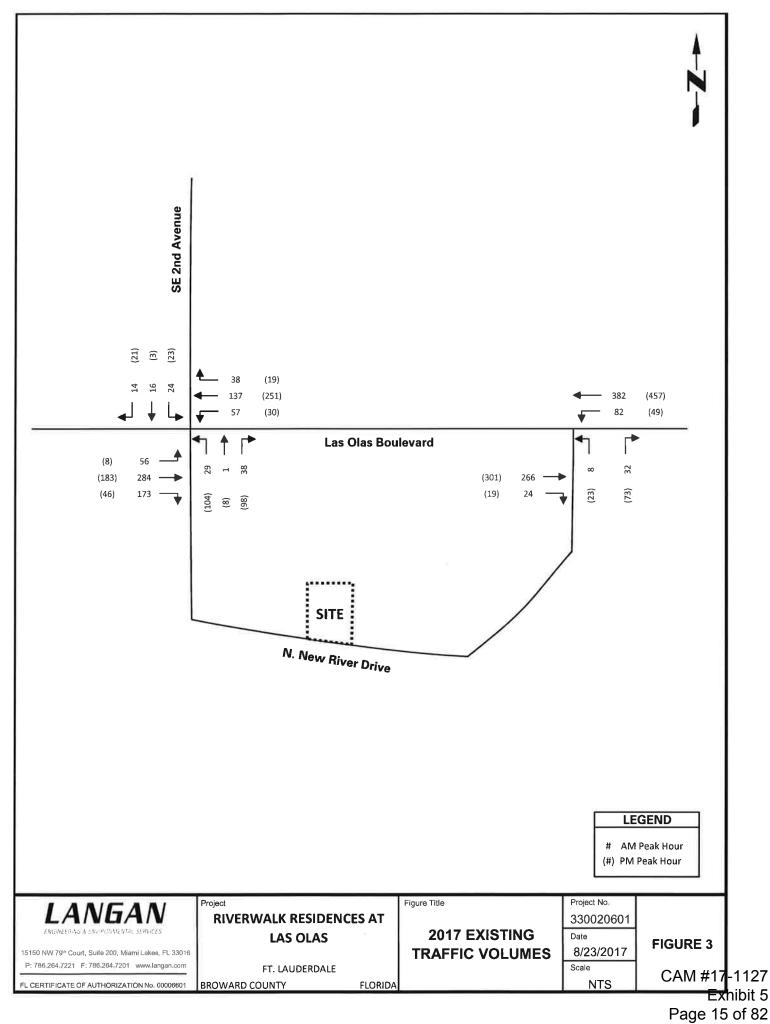
Langan performed a traffic-impact analysis for the Riverwalk Residences at Las Olas mixed-use development, which is expected to be completed by 2019. The analysis that the study intersections that will be most impacted by the proposed development are expected to operate at LOS A for the 2019 build conditions. We conclude, based on the analysis described above, that the road network can accommodate traffic from the proposed development.

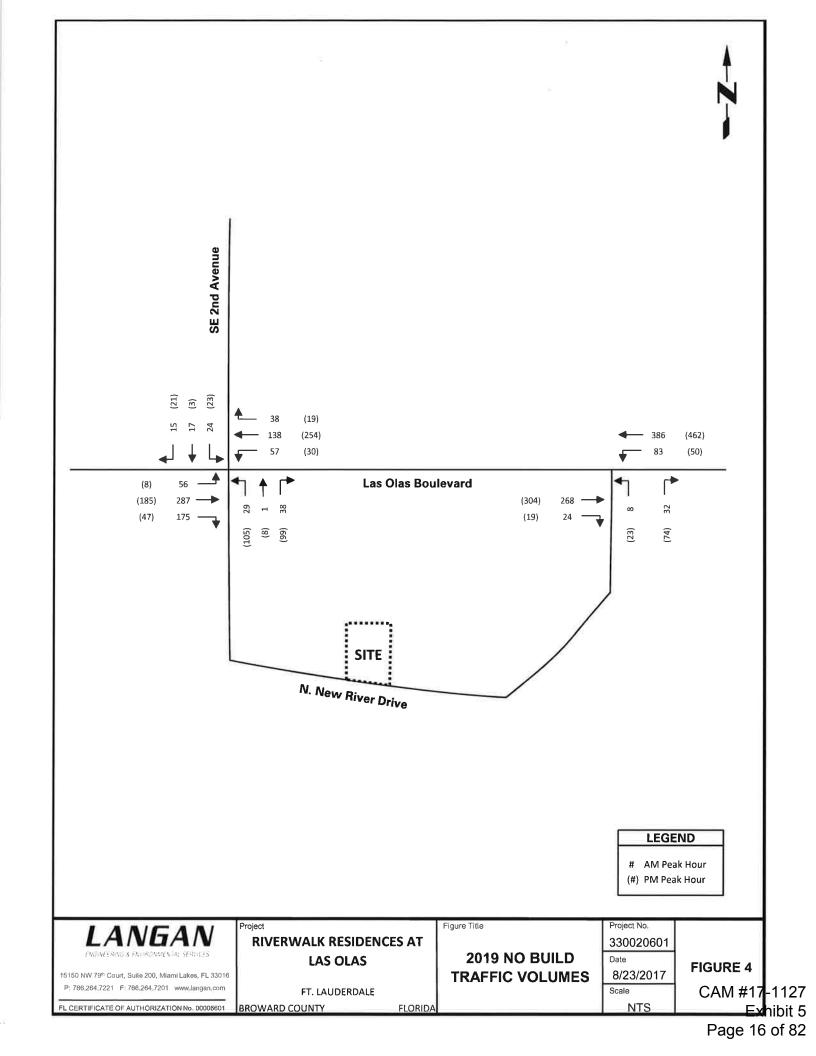
\\langan.com\\data\FTL\\data4\\330019401\Engineering Data\Traffic\Report Materials\\2017-08-23 TIS Report\\2017-08-23 Riverwalk Residences at Las Olas.docx

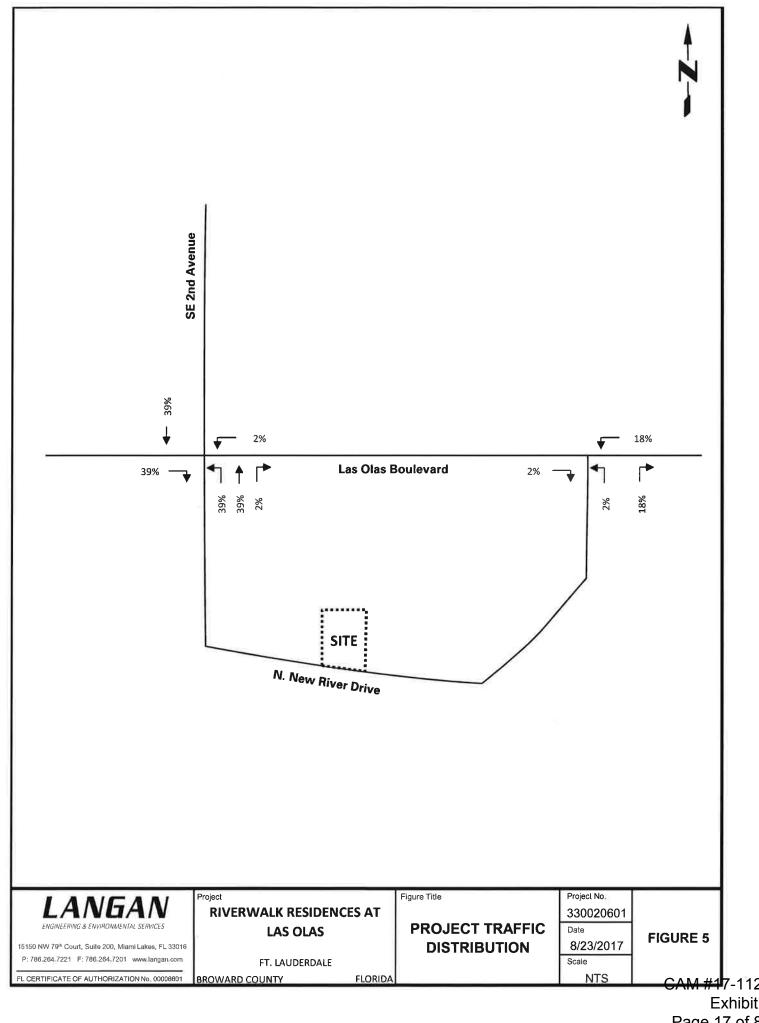
APPENDIX A FIGURES

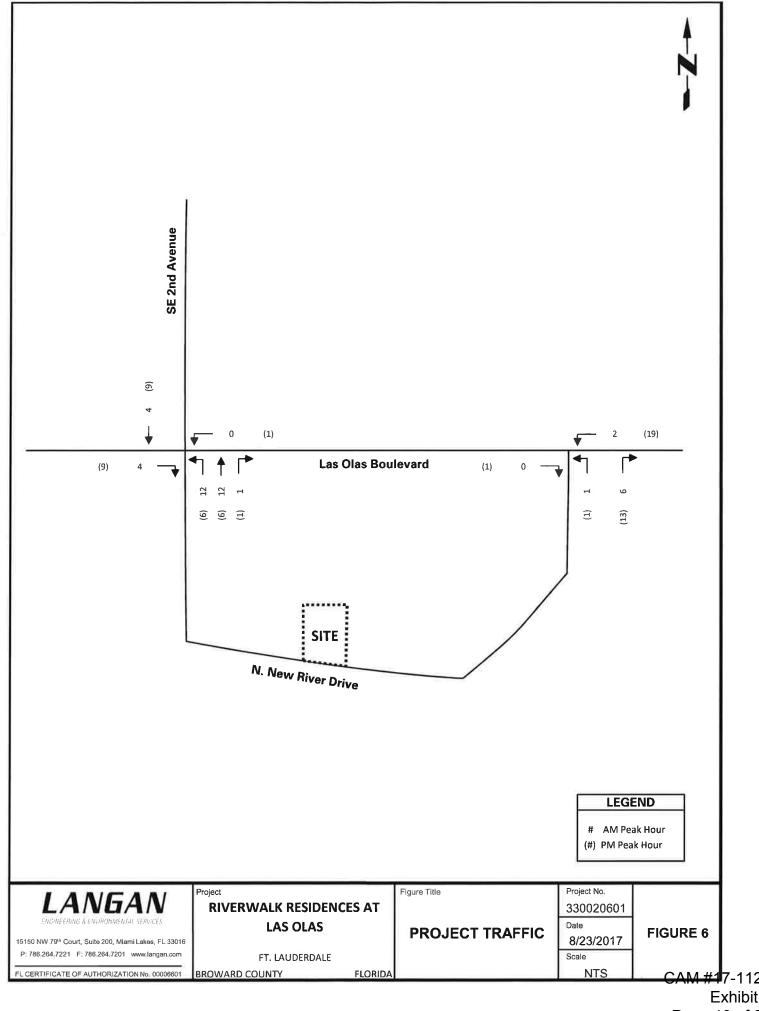


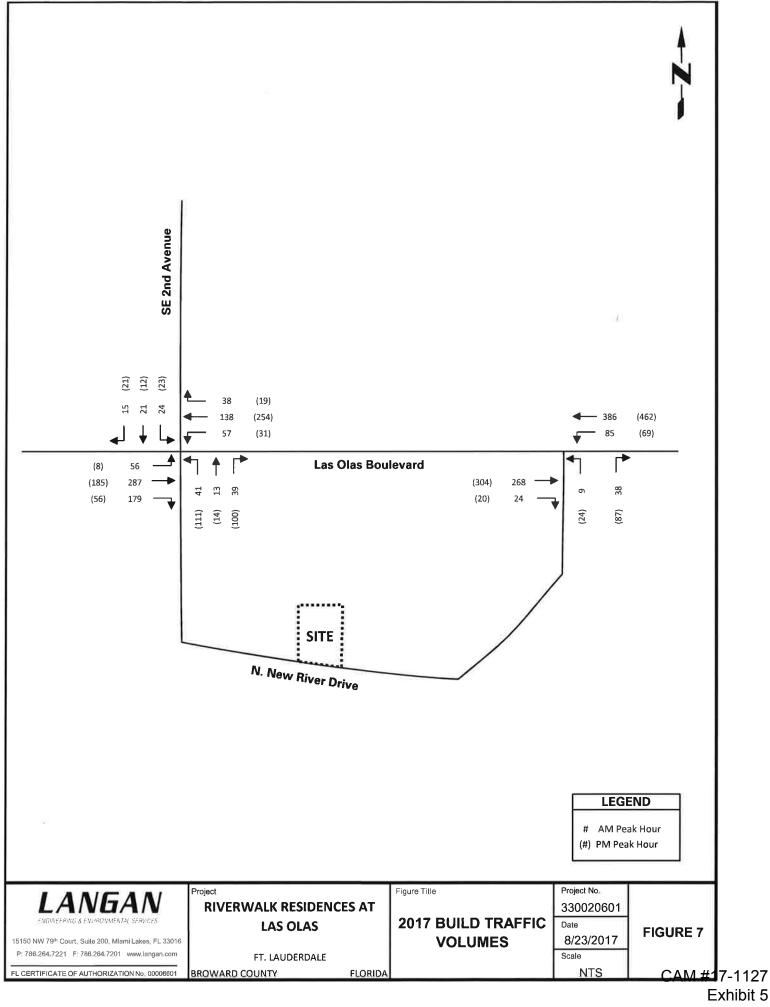


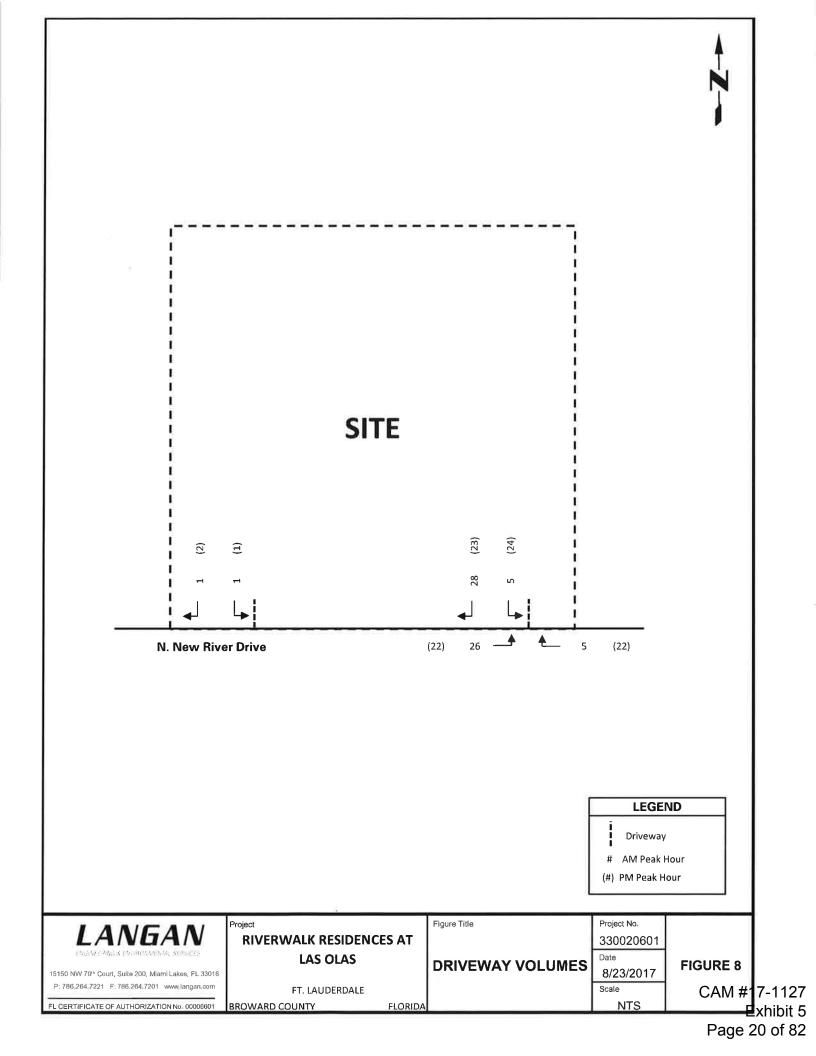




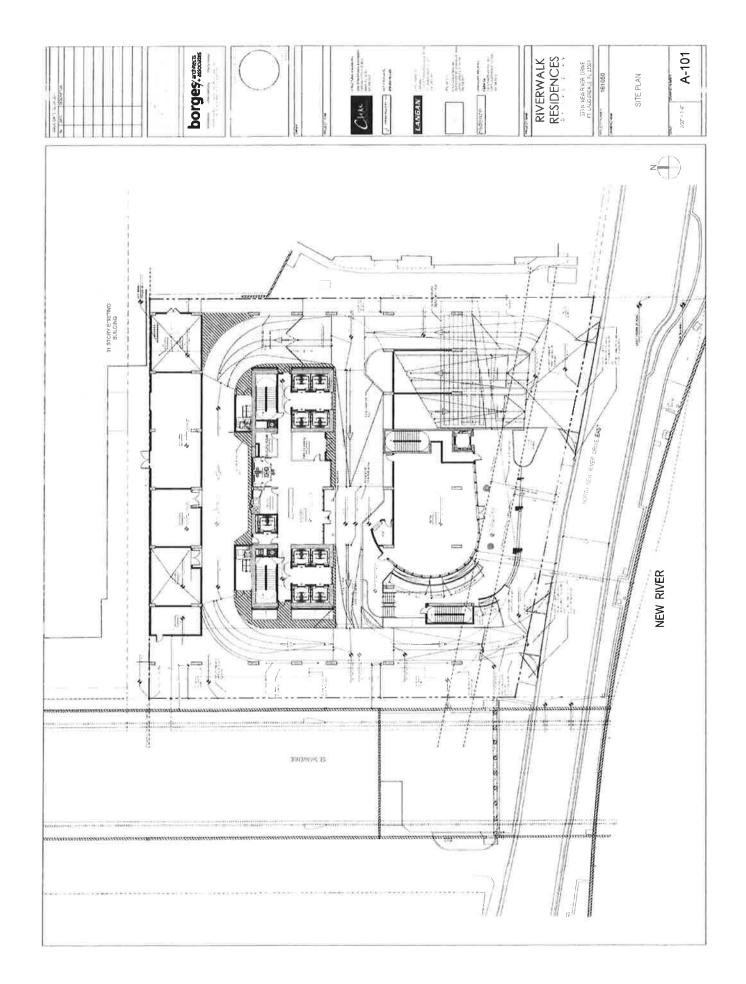








APPENDIX B
SITE PLAN



APPENDIX C METHODOLOGY LETTER

LANGAN

17 August 2017

Mr. Benjamin Restrepo City of Fort Lauderdale 290 NE 3rd Avenue Fort Lauderdale, Florida 33301

Re: Traffic Analysis Methodology

Riverwalk Residences at Las Olas

Fort Lauderdale, Florida

Langan Project No.: 330019401

Dear Mr. Restrepo:

Langan Engineering and Environmental Services, Inc. (Langan) has been retained to prepare a traffic impact study for the Riverwalk Residences at Las Olas development that will replace an office building at 333 North New River Drive, Fort Lauderdale, Florida. We understand that although the project is not expected to generate more than 1,000 daily trips, a condition of approval for the project requires the submittal of a traffic impact analysis. A copy of the site plan is provided in Attachment A. **Figure 1** below shows the site location. Please accept this letter as the proposed traffic impact analysis methodology for the proposed development.

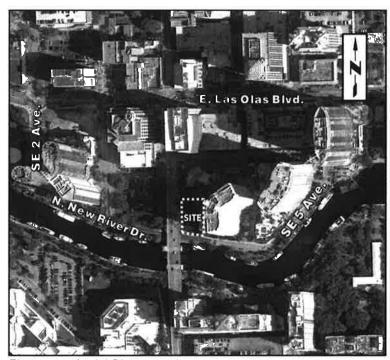


Figure 1 – Aerial Photograph

Trip Generation

Trip generation will be based on information contained in the Institute of Transportation Engineer's (ITE), Trip Generation Manual, 9th Edition. The proposed development will comprise an assisted living facility, senior-adult housing and retail uses and is expected to generate 1,071 daily, 47 AM peak-hour and 83 PM peak-hour net-new trips as summarized in **Table 1** below. The trip generation analysis tables are provided in Attachment B.

Table 1 - Trip Generation Analysis

USE	Size	Daily	Weekda	y Morni Hour	ng Peak		day After Peak Hou	
			In	Out	Total	ln	Out	Total
Existing Use								
General Office	16,199 SF	179	22	3	25	4	20	24
Proposed Uses								
Senior Adult Housing - Attached	192 DU's	586	13	25	38	24	21	45
Assisted Living Facility	238 Beds	626	21	12	33	21	28	49
Specialty Retail	1,619 SF	38	1	0	1	6	7	13
Total		1,250	35	37	72	51	56	107
Net New Trips		1,071	13	34	47	47	36	83

Data Collection

Morning and afternoon peak hour turning movement data will be collected the week of August on a typical weekday at the following study intersections:

- E. Las Olas Boulevard at SE 2nd Avenue
- E. Las Olas Boulevard at SE 5th Avenue (N. New River Drive)

Data will be collected between 7:00 and 9:00 AM and between 4:00 and 6:00 PM and will be adjusted to reflect peak season peak hour traffic volumes by applying a peak season, conversion factor obtained from the *Florida Department of Transportation (FDOT) Peak Season Factor Category Report* available online.

Project Distribution

We used data from the nearest FDOT traffic station on Las Olas Boulevard and estimated the following distribution for project traffic:

- 80% eastbound; 20% westbound (AM peak hour)
- 50% eastbound; 50% westbound (PM peak hour)

Future Traffic

We will develop 2019 background traffic volumes based on FDOT historical data from a traffic count station on Las Olas Boulevard. A one-half percent annual growth rate will be used if a negative growth rate is determined.

Intersection Analysis

We will analyze the study intersections for morning and afternoon peak-hour conditions using the Synchro Software. The analysis scenarios will include the existing year (2017) and build out year (2019).

Roadway Capacity Analysis

We will use the intersection data to develop 2017 and 2019 traffic volumes and preform roadway capacity analysis for North New Rive Drive between SE 2nd Avenue and SE 5th Avenue. Level of service tables from the FDOT Quality/Level of Service Handbook will be used to determine the capacity of this roadway.

Report

The study methodology, analysis and findings will be summarized in a report that will be signed and sealed by a Florida registered professional engineer.

If you have any questions regarding the information contained herein, please do not hesitate to contact me at (786) 264-7226.

Sincerely,

Langan Engineering and Environmental Services, Inc.

John P. Kim, P.E., PTOE Senior Project Manager

JPK:jpk

Attachments

Attachment A – Site Plan Attachment B – Trip Generation Analysis

FL Certificate of Authorization No. 6601

APPENDIX D
TRAFFIC DATA

LAS OLAS BOULEVARD & SE 2ND AVENUE FORT LAUDERDALE, FLORIDA COUNTED BY: SEBASTIAN SALVO

NOT SIGNALIZED

85 SE 4TH AVENUE, UNIT 109 DELRAY BEACH, FLORIDA PHONE (561)272-3255 Site Code : 00170141 Start Date: 08/22/17 File I.D. : LASO2AVE Page : 1

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

LAS OLAS BOULEVARD & SE 2ND AVENUE

FORT LAUDERDALE, FLORIDA

NOT SIGNALIZED

COUNTED BY: SEBASTIAN SALVO

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

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Page : 3

ALL VEHICLES

LAS OLAS BOULEVARD & SE 2ND AVENUE

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

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Site Code : 00170141 Start Date: 08/22/17 File I.D. : LASO2AVE

Page : 1

PEDESTRIANS & BIKES

	SE 2ND From No				LAS OLA		VARD		SE 2ND From Sc				LAS OLA		VARD	1	
		BIKES	Right	Peds	i	BIKES	Right	Peds	Left	BIKES	Right	Peds		BIKES	Right	Peds	Total
Date 08/	22/17 -			•••••													
	0	0	0	2	, ,	0	0	0	0	0	0	0	0	0	0	0	2
07:00 07:15	0	1	0	2	1 0	0	0	1	0	1	0	0	0	0	0	0	5
07:15	0	1	0	2	*		0	2	0	2	0	0	1 0	0	0	0	7
07:30	0	1	0	3			0	0	0	1	0	0	0	0	0	0	6
Hr Total		3	0	9			0	3	0	4	0	0	1 0	0	0	0	20
					1 0	0	0	0	i o	0	0	0	1 0	0	0	0	3
00:80	0	1	0	2	1 0		0	6	0	1	0	0	0	0	0	0	14
08:15	0	2	0	5			0	1		0	0	0	Î o	0	0	1	3
08:30	0	0	0	1				0		1	0	0	1	0	0	1	6
08:45 Hr Total	0	3	0	12				7				0		0	0	2	26
	* BF	EAK * -															
16:00	0	0	0	2	0	0	0	3	1 0	0	0	0	1 0	0	0	1	6
16:15	0	2	0	7	1 0	0	0	3	0	0	0	0	0	0	0	0	12
16:30	0	1	0	10	0	0	0	6	1 0	0	0	0	1 0	0	0	1	18
16:45	0	0	0	9	1 0	0	0	0	0	0	0	0	0	0		0_	9
Hr Total		3	0	28	1 0	0	0	12	0	0	0	0	0	0	0	2	45
17:00	0	0	0	4	1 0	0	0	2	0	0	0	2	1 0	0	0	0	8
17:15	0	0	0	2	Č.			2	0	0	0	0	0	0	0	2	6
17:30	0		0	2	0			7	1 0	1	0	0	0	0	0	0	11
17:30	0	Ö		1				0	1 0	0	0	0	1 0	0	0	0	3
Hr Total		1		9	1 0	2	0	11	1 0	1	0	2	1 0	0	0	2	28

TOTAL	0	10	0	58	1 0	3	0	33	0	7	0	2	0	0	0	6	119

LAS OLAS BOULEVARD & SE 5TH AVENUE FORT LAUDERDALE, FLORIDA COUNTED BY: LUIS PALOMINO

NOT SIGNALIZED

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

Site Code : 00170141 Start Date: 08/22/17 File I.D. : LASO5AVE Page : 1

SE STH AVENUE LAS OLAS BOULEVARD From North From North From East From South From South From North From Well				30,07,03.55														
UTurn Left Thru Right Left Left Thru Right Left L						LAS OLA	S BOULE	VARD		SE 5TH	AVENUE			LAS OLA	S BOULE	VARD	1	
Date 08/22/17 07:00 0 0 0 0 0 0 0 0 4 36 0 0 0 2 0 7 0 0 0 39 7 0 07:15 0 0 0 0 0 0 12 78 0 0 2 0 8 0 0 33 8 0 07:45 0 0 0 0 0 0 0 12 78 0 0 2 0 8 0 0 33 8 0 07:45 0 0 0 0 0 0 0 0 20 64 0 0 3 0 3 0 3 0 0 55 7 0 0 65 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FI	om No:	rth			From Ea	st			From So	uth			From We	st		1	
Date 08/22/17 07:00 0 0 0 0 0 0 0 4 36 0 0 0 2 0 7 0 0 39 7 07:15 0 0 0 0 12 78 0 0 1 1 0 0 6 0 0 40 6 07:30 0 0 0 0 0 0 12 78 0 0 0 2 0 8 0 0 33 8 07:45 0 0 0 0 0 0 0 20 64 0 0 3 0 3 0 3 0 0 55 7 RH: Total 0 0 0 0 0 0 0 22 77 0 0 0 0 0 5 0 0 56 6 08:15 0 0 0 0 0 1 1 13 91 0 0 3 0 7 0 0 48 5 08:30 0 0 0 0 0 1 1 13 91 0 0 3 0 7 0 0 48 5 08:30 0 0 0 0 0 1 1 13 91 0 0 0 3 0 7 0 0 48 5 08:30 0 0 0 0 0 1 7 104 0 0 1 0 11 0 0 77 7 7 08:45 0 0 0 0 0 1 79 371 0 0 8 0 31 0 0 258 23 RH: Total 0 0 0 0 0 1 79 371 0 0 8 0 31 0 0 258 23 RH: Total 0 0 0 0 0 1 1 5 110 0 0 3 0 9 0 0 55 6 16:30 0 0 0 0 0 1 79 371 0 0 8 0 31 0 0 258 23 RH: Total 0 0 0 0 0 1 1 3 466 0 1 1 2 0 14 2 0 60 9 16:30 0 0 0 0 0 1 1 3 466 0 1 1 2 0 49 2 0 264 24 RH: Total 0 0 0 0 1 1 77 125 0 1 1 2 0 14 2 0 60 9 16:45 0 0 0 0 0 1 1 3 466 0 1 1 12 0 49 2 0 264 24 RH: Total 0 0 0 0 0 1 1 79 128 0 0 2 0 9 0 0 66 6 6 16:45 0 0 0 0 0 1 1 79 128 0 0 2 0 9 0 0 66 6 6 16:45 0 0 0 0 0 1 1 79 128 0 0 2 0 9 0 0 66 6 6 16:45 0 0 0 0 0 1 1 79 128 0 0 2 0 9 0 0 66 6 6 16:45 0 0 0 0 0 1 1 79 128 0 0 2 0 9 0 0 66 6 6 16:45 0 0 0 0 0 1 1 79 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						1				1				1			Î	
07:00	U	Turn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	Total
07:15	Date 08/22	2/17 -																
07:15																		
07:30	07:00	0	0	0	0	0	4	36	0	0	2	0	7	1 0	0	39	7	95
07:45	07:15	0	0	0	0	0	4	58	0	1	1	0	6	0	0	40	6	116
Hr Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	07:30	0	0	0	0	0	12	78	0	0	2	0	8	1 0	0	33	8	141
08:00	07:45	0	0	0	0	0	20	64	0	0	3	0	. 3	0	0	55	7	152
08:15	Hr Total	0	0	0	0	0	40	236	٥	1	8	0	24	1 0	0	167	28	504
08:15																		
08:30	08:00	0	0	0	0	1 0	22	77	0	0	0	0	5	0	0	58	6]	168
08:45	08:15	0	0	0	0	1	13	91	0	0	3	0	7	0	0	48	5]	168
BREAK * 16:00 0 0 0 0 1 5 110 0 0 3 0 9 0 0 55 6 16:15 0 0 0 0 7 125 0 1 2 0 14 2 0 60 9 16:30 0 0 0 0 0 0 1 131 466 0 1 12 0 49 2 0 264 24 17:15 0 0 0 0 0 1 17 121 0 1 1 7 0 23 1 0 81 5 17:30 0 0 0 0 0 1 7 84 0 0 6 0 17 2 0 74 8 17:45 0 0 0 0 0 0 1 7 84 0 0 6 0 1 3 0 26 0 0 64 10 17:45 0 0 0 0 0 0 6 49 406 0 2 23 0 88 3 0 281 27	08:30	0	0	0	0	0	17	104	0	0	1	0	11	0	0	77	7 1	217
* BREAK * 16:00	08:45	0	0	0	0	0	27	99	0	0	4	0	8	1 0	0	75	5	218
16:00	Hr Total	0	0	0	0	1	79	371	0	0	8	0	31	0	0	258	23	771
16:00																		
16:15		• BRI	EAK .															
16:15																		
16:30	16:00	0	0	0	0	1	5	110	0	0	3	0	9	1 0	0	55	6	189
16:45	16:15	0	0	0	0	0	7	125	0	1	2	0	14	1 2	0	60	9]	220
Hr Total 0 0 0 0 1 31 466 0 1 1 12 0 49 2 0 264 24 17:00 0 0 0 0 0 11 92 0 0 7 0 22 0 0 62 4 17:15 0 0 0 0 1 17 121 0 1 7 0 23 1 0 81 5 17:30 0 0 0 0 1 7 84 0 0 6 0 17 2 0 74 8 17:45 0 0 0 0 4 14 109 0 1 3 0 26 0 0 64 10 17:15 0 0 0 0 0 6 49 406 0 2 23 0 88 3 0 281 27	16:30	0	0	0	0	0	9	128	0	0	2	0	9	0	0	66	6	220
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17:15 0 0 0 0 0 1 1 17 121 0 1 7 0 23 1 1 0 81 5 1 17:30 0 0 0 0 1 7 84 0 0 6 0 17 2 0 74 8 17:45 0 0 0 0 4 14 109 0 1 3 0 26 0 0 64 10 1 17 17 17 18 1 18 18 18 18 18 18 18 18 18 18 18 1	Hr Total	0	0	0	0	1	31	466	0	1	12	0	49	2	0	264	24	850
17:15 0 0 0 0 0 1 17 121 0 1 7 0 23 1 1 0 81 5 17:30 0 0 0 0 1 7 84 0 0 0 6 0 17 2 0 74 8 17:45 0 0 0 0 4 14 109 0 1 3 0 26 0 0 64 10 17 17 17 17 17 17 17 17 17 17 17 17 17																		
17:30 0 0 0 0 0 1 7 84 0 0 6 0 17 2 0 74 8 17:45 0 0 0 0 4 14 109 0 1 3 0 26 0 0 64 10 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	17:00	0	0	0	0	0	11	92	0	0	7	0	22	1 0	0	62	4	198
17:45 0 0 0 0 4 14 109 0 1 3 0 26 0 0 64 10 er Total 0 0 0 0 64 9 406 0 2 23 0 88 3 0 281 27	17:15	0	0	0	0	1	17	121	0	1	7	0	23	1	0	81	5	257
17:45 0 0 0 0 4 14 109 0 1 3 0 26 0 0 64 10 0 10 10 10 10 10 10 10 10 10 10 10 1	L7:30	0	0	0	0	1	7	84	0	0	6	0	17	2	0	74	8	199
	17:45	0	0	0	0	4	14	109	0	1	3	0	26	1 0	0	64	10 /	231
'TOTAL* 0 0 0 8 199 1479 0 4 51 0 192 5 0 970 102 1	Hr Total	0	0	0	0	6	49	406	0	2	23	0	88	3	0	281	27	885
TOTAL* 0 0 0 0 8 199 1479 0 4 51 0 192 5 0 970 102 6																		
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LAS OLAS BOULEVARD & SE 5TH AVENUE FORT LAUDERDALE, FLORIDA COUNTED BY: LUIS PALOMINO NOT SIGNALIZED

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

Site Code : 00170141 Start Date: 08/22/17 File I.D. : LASO5AVE Page : 2

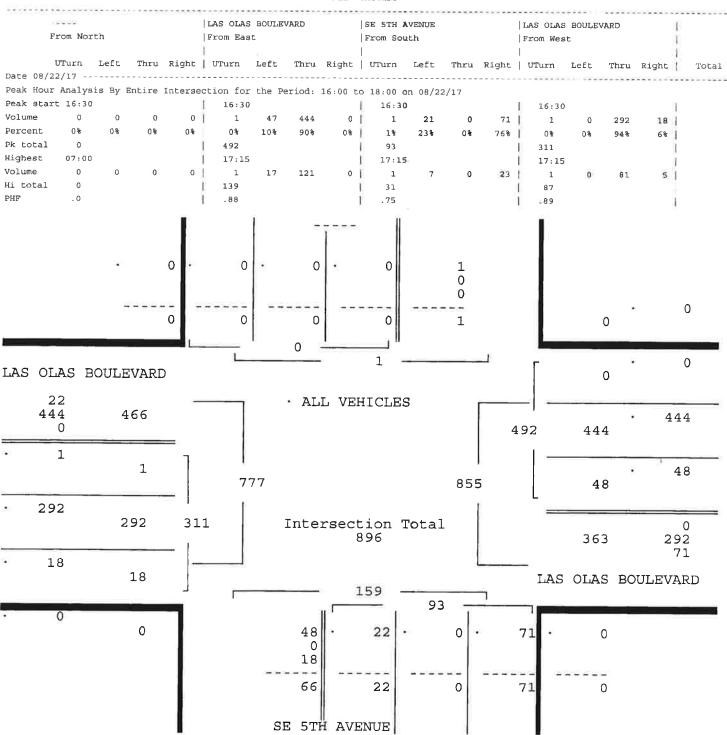
ave to be

							ALL V	EHICLES								
****				LAS OLAS		VARD		SE 5TH A				LAS OLAS		VARD	•••	ļ
From No.	rth			From Eas	it			From Sou	ith			From Wes	t			
UTurn Date 08/22/17						Thru	Right	 UTurn	Left	Thru	Right	UTurn	Left	Thru	Right	 Total
Peak Hour Analys						eriod:	07:00 t	0 09:00	n 08/2	2/17						
Peak start 08:00)			08:00	ı			08:00				08:00				I.
Volume 0	0	0	0	1	7 9	371	0	0	8	0	31	0	0	258	23	
Percent 0%	0%	0%	0%	(8)	18%	82%	0%	55	21%	0.8	79%	0.8	0%	92∜	8%	
Pk total 0				451				39				281				I
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85 SE 4TH AVENUE, UNIT 109
DELRAY BEACH, FLORIDA
PHONE (561)272-3255

LAS OLAS BOULEVARD & SE 5TH AVENUE 85
FORT LAUDERDALE, FLORIDA
COUNTED BY: LUIS PALOMINO
NOT SIGNALIZED

Site Code : 00170141 Start Date: 08/22/17 File I.D. : LASO5AVE



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LAS OLAS BOULEVARD & SE 5TH AVENUE FORT LAUDERDALE, FLORIDA COUNTED BY: LUIS PALOMINO

NOT SIGNALIZED

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

Site Code : 00170141 Start Date: 08/22/17 File I.D. : LASO5AVE

the tree time

Page : 1

PEDESTRIANS	&	BIKES
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500					LAS OLA	S BOULE	VARD		SE 5TH	AVENUE			LAS OLA	S BOULE	VARD	4	
From North				From East				From South				From We	1	ĺ			
	T.eft	BIKES	Pight	Peds	Left	BIKES	Right	Peds	Toffe	BIKES	Dieba	D.d.	1	27.50	P. (- 1 - 1	1	
Date 08/22			_		5		_			BIKES	_	Peds	Leit	BIKES	Right	Peds	Tota
,,	-, -																
07:00	0	0	0	0	0	0	0	0	0	0	0	4	1 0	0	0	0	
07:15	0	0	0	0	0	0	0	0	0	1	0	2	1 0	0	0	2	
07:30	0	0	0	0	0	0	0	1 (0	0	4	0	4	1 0	0	.0	0	
07:45	0	0	0	0	0	0	0	0	0	3	0	5	1 0	0	0	0	
Hr Total	0	0	0	0	0	0	0	1	0	8	0	15	0	0	0	2	2
08:00	0	0	0	0	0	0	0	0	0	1	0	3	1 0	0	0	1 [
08:15	0	0	0	0	0	0	0	0	0	0	0	8	1 0	0	0	2	1
08:30	0	0	0	0	0	0	0	0	0	1	0	15	1 0	0	0	1	1
08:45	0	. 0	0	0	0	0	0	0	0	2	0	7	1 0	0	0	0 [
ir Total	0	0	0	0	0	0	0	0	0	4	0	33	0	0	0	4	4
	* BR	EAK * -															
16:00	0	0	0	0	0	0	0	0	0	0	0	8	1 0	0	0	0	
16:15	0	0	0	0	0	0	0	0 1	0	3	0	4	1 0	0	0	1 [
16:30	0	0	0	0	0	0	0	13	0	0	0	9	1 0	0	0	0	2
L6:45	0	0	0	0	0	.0	0	0]	0	2	0	9	J 0	0	.0	1	1
Hr Total	0	0	0	0	0	0	0	13	0	5	0	30	0	0	0	2	5
7:00	0	0	0	0	0	0	0	0	0	1	0	9	1 0	0	0	0	1
17:15	0	0	0	0	0	0	0	2	0	0	0	23	0	0	0	1	2
17:30	0	0	0	0	0	0	0	1	0	0	0	6	1 0	1	0	0	
17:45	0	0	0	0	0	1	0	2	0	1	0	13	1 0	0	0	2	1
r Total	0	0	0	0	0	1	0	5	0	2	0	51	0	1	0	3	6

TOTAL*	0	0	0	0	0	1	0	19	0	19	0	129	0	1	0	11	180

2016 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 8601 CEN.-W OF US1 TO SR7

CATEO	ori. dodi cen. w dr dbi id	SIC /	MOCF: 0.97
WEEK	DATES	SF	PSCF
1	01/01/2016 - 01/02/2016	0.99	1.02
2	01/03/2016 - 01/09/2016	1.00	1.03
3	01/10/2016 - 01/16/2016	1.00	1.03
4	01/17/2016 = 01/23/2016	0.99	1.02
5 * 6	01/24/2016 - 01/30/2016	0.99	1.02
* 7	01/31/2016 - 02/06/2016 02/07/2016 - 02/13/2016	0.98 0.97	1.00
* 8	02/14/2016 - 02/20/2016	0.96	0.99
* 9	02/21/2016 - 02/27/2016	0.96	0.99
*10	02/28/2016 = 03/05/2016	0.96	0.99
*11	03/06/2016 = 03/12/2016	0.96	0.99
*12	03/13/2016 = 03/19/2016	0.97	1.00
*13 *14	03/20/2016 - 03/26/2016 03/27/2016 - 04/02/2016	0.97 0.97	1.00
*15	04/03/2016 - 04/09/2016	0.98	1.01
*16	04/10/2016 - 04/16/2016	0.98	1.01
*17	04/17/2016 - 04/23/2016	0.98	1.01
*18	04/24/2016 - 04/30/2016	0.99	1.02
19	05/01/2016 - 05/07/2016	0.99	1.02
20 21	05/08/2016 - 05/14/2016 05/15/2016 - 05/21/2016	1.00	1.03
22	05/22/2016 - 05/21/2016	1.01	1.04
23	05/29/2016 - 06/04/2016	1.01	1.04
24	06/05/2016 - 06/11/2016	1.02	1.05
25	06/12/2016 🗏 06/18/2016	1.02	1.05
26	06/19/2016 = 06/25/2016	1.03	1.06
27 28	06/26/2016 - 07/02/2016 07/03/2016 - 07/09/2016	1.03 1.03	1.06
29	07/10/2016 - 07/16/2016	1.03	1.06
30	07/17/2016 - 07/23/2016	1.03	1.06
31	07/24/2016 @ 07/30/2016	1.03	1.06
32	07/31/2016 - 08/06/2016	1.03	1.06
33	08/07/2016 - 08/13/2016	1.03	1.06
34 35	08/14/2016 - 08/20/2016 08/21/2016 - 08/27/2016	1.03 1.03	1.06 1.06
36	08/28/2016 - 09/03/2016	1.03	1.07
37	09/04/2016 909/10/2016	1.04	1.07
38	09/11/2016 = 09/17/2016	1.04	1.07
39	09/18/2016 - 09/24/2016	1.03	1.06
40	09/25/2016 - 10/01/2016	1.03	1.06
41 42	10/02/2016 - 10/08/2016 10/09/2016 - 10/15/2016	1.02 1.02	1.05 1.05
43	10/16/2016 - 10/13/2016	1.02	1.05
44	10/23/2016 = 10/29/2016	1.01	1.04
45	10/30/2016 - 11/05/2016	1.01	1.04
46	11/06/2016 📻 11/12/2016	1.01	1.04
47	11/13/2016 = 11/19/2016	1.01	1.04
48 49	11/20/2016 - 11/26/2016 11/27/2016 - 12/03/2016	1.01	1.04
50	12/04/2016 - 12/03/2016	1.00	1.03
51	12/11/2016 - 12/17/2016	0.99	1.02
52	12/18/2016 📻 12/24/2016	1.00	1.03
53	12/25/2016 - 12/31/2016	1.00	1.03

^{*} PEAK SEASON

21-FEB-2017 10:54:34

830UPD

4_8601_PKSEASON.TXT

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2016 HISTORICAL AADT REPORT

- BROWARD COUNTY: 86

E OF ANDREWS AVE SITE: 7640 - LAS OLAS BLVD,

15100 C B 8600 10000 V 9800 R 9700 H 9700 F B 0 9700 F B 0 10500 C B 0	W 6500	00000	54.10 54.10 54.20 53.60	2.90 3.40 7.40
ल सम्ब	W 6500	00000	54.10 54.20 54.20 53.60	2.90 3.40 7.40
> K H W F C F C C C C C C C C C C C C C C C C	0 000	0000	54.00 54.20 53.60	3.40 7.40 7.60
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EL O O S	W 0	8.35	52.69	9.30
יטט	0	8.53	53.89	5.30
טו	W 0	8.81	54.16	6.50
	W 0	8.63	55.75	4.80
_ ၁	W 0	8.40	55,34	2.90
12000 C E	W	8.20	51.70	00.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN

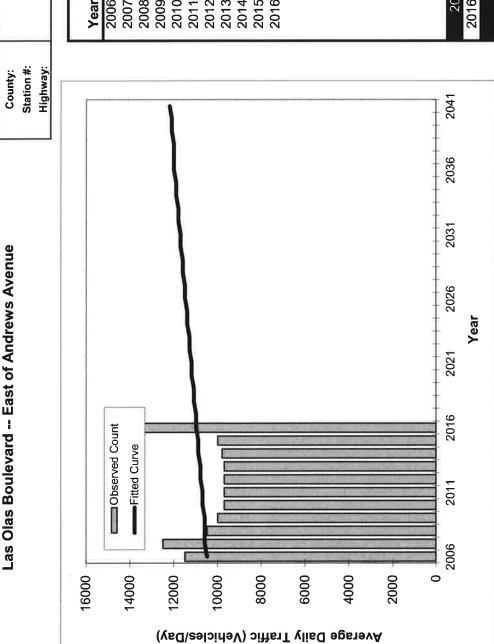
K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

*K FACTOR:

Traffic Trends - V2.0
Las Olas Boulevard -- East of Andrews Avenue

Las Olas Boulevard

Broward 7640



T/AADT)	Trend**	10500 10600 10600	10600 10700 10700	10800 10800 10900 10900	11000		11000 Frend	11000 Trend	\sim	
Traffic (ADT/AADT)	Count*	11500 12500 10500	10000 9700 9700	9700 9700 9800 10000	15100	6 Opening Year	N/A 2016 Mid-Year	N/A 9 Design Year	N/A AN Fore	
	Year	2006 2007 2008	2009 2010 2011	2013 2014 2015	2016	₹	2016	2016	2019 TRANPL	

*Axle-Adjusted

0.88% 0.38% 0.47% 23-Aug-17

Trend Annual Historic Growth Rate:

** Annual Trend Increase:

Trend R-squared:

Trend Growth Rate (2011 to Design Year): Printed:

Straight Line Growth Option

COUNTY: 86
STATION: 7640
DESCRIPTION: LAS OLAS BLVD, E OF ANDREWS AVE START DATE: 09/06/2016
START TIME: 0000

MBINED TOTAL	215	200	45	89	256	654	395	191	848	835	094	020	881	907	910	113	795	577	541	424	368	229	4667	
COMBINED							_	_				٦			1	7							14	TIONS 1524 1150
TOTAL	117	37	27	25	67	150	233	315	361	385	540	450	421	421	572	611	394	275	276	209	187	127	6271	DIREC
 W 4TH	23	ω C	7	9	13	35	39	49	121	77	122	124	131	126	171	136	69	63	68	37	49	24		COMBINED HOUR 815 1215 815
DIRECTION: D 3RD	121	16 4	טי	σ	13	40	72	66	107	134	106	117	93	92	154	149	102	44	92	52	51	7.8		ō
DIRI 2ND	36	m m	7	7	28	45	70	6	00	78	204	83	92	118	114	175	101	80	52	55	40	25		MATION W UME 305 651
1ST	37	0 4	00	0	13	30	52	74	51	96	108	126	105	82	133	151	122	88	80	65	47	20		INFOR LION: VOL
		D 10		<u> </u>	_		01.		_	_	-	_	_			01	_	01	10	10	_		ın	VOLUME DIREC OUR 845 630
TOTA	0 0 1	HH	ĨÄ	4	18	20	116	87	48.	45	52,	57	46	48	44,	503	40	30.	26	21	18	10.	8396	PEAK VOLI DIJ HOUR 845 1630
E 4TH	33	77 LJ	13	18	75	177	364	168	111	114	173	121	121	154	113	143	88	59	52	43	52	20		H
DIRECTION: D 3RD	888	O M	0	18	54	152	305	139	129	129	117	122	120	83	100	139	95	99	62	52	45	26		N: E VOLUME 1269 622 1269
DIRE	24	10) M	7	35	72	256	225	145	71	150	175	102	129	111	124	91	92	96	67	48	21		DIRECTION: UR VOI 15 1 15 1
1ST	23 18	7 4	2 0	0	25	103	237	344	102	136	114	152	117	120	120	96	127	82	52	53	33	35	TOTALS	DIR HOUR 815 1245 815
TIME	0000	0200	0400	0200	0090	0020	0800	0060	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	24-HOUR	A.M. P.M. DAILY

APPENDIX E INTERSECTION VOLUME TABLES

AM PEAK HOUR TRAFFIC VOLUME CALCULATIONS RIVERWALK RESIDENCES AT LAS OLAS

	F			Tan El Ul			Traffic \	/olumes					
Intersection	Scenario	EBLT	EBT	EBRT	WBLT	WBT	WBRT	NBLT	NBT	NBRT	SBLT	SBT	SBRT
	Traffic Count	54	276	168	55	133	37	28	1	37	23	16	14
	Peak Season Conversion Factor	1.03	1,03	1,03	1.03	1_03	1.03	1.03	1.03	1.03	1_03	1,03	1.03
	2017 Peak Season Traffic	56	284	173	57	137	38	29	1	38	24	16	14
	Compound Growth Rate	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0,50%	0,50%
Las Olas Boulevard at SE 2	Existing plus Background Growth	56	287	175	57	138	38	29	1	38	24	17	15
Avenue	2019 Background Traffic	56	287	175	57	138	38	29	1	38	24	17	15
	In/Out			In	In			Out	Out	Out		In	
	Project Assignment			39%	2%			39%	39%	2%		39%	
	Net New Project Trips	0	0	4	0	0	0	12	12	1	0	4	0
	2019 Total Traffic	56	287	179	57	138	38	41	13	39	24	21	15
	Traffic Count		258	23	80	371		8		31			
	Peak Season Conversion Factor		1.03	1.03	1.03	1,03		1.03		1.03			
	2017 Peak Season Traffic		266	24	82	382		8		32			
	Compound Growth Rate		0.50%	0.50%	0.50%	0.50%		0.50%		0.50%			
Las Olas Boulevard at SE 5	Existing plus Background Growth		268	24	83	386		8		32			
Avenue	2019 Background Traffic		268	24	83	386		8		32			
	In/Out			In	ln			Out		Out			
	Project Assignment			2%	18%			2%		18%			
	Net New Project Trips		0	0	2	0		1		6			
	2019 Total Traffic		268	24	85	386		9		38			



PM PEAK HOUR TRAFFIC VOLUME CALCULATIONS RIVERWALK RESIDENCES AT LAS OLAS

Intersection	Scenario						Traffic	/olumes	10		4		
Intersection	Scenario	EBLT	EBT	EBRT	WBLT	WBT	WBRT	NBLT	NBT	NBRT	SBLT	SBT	SBRT
	Traffic Count	8	178	45	29	244	18	101	8	95	22	3	20
	Peak Season Conversion Factor	1,03	1,03	1,03	1,03	1.03	1.03	1,03	1.03	1.03	1.03	1.03	1,03
	2017 Peak Season Traffic	8	183	46	30	251	19	104	8	98	23	3	21
	Compound Growth Rate	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%
Las Olas Boulevard at SE 2	Existing plus Background Growth	8	185	47	30	254	19	105	8	99	23	3	21
Avenue	2019 Background Traffic	8	185	47	30	254	19	105	8	99	23	3	21
	In/Out			ln	In			Out	Out	Out		ln	
	Project Assignment			24%	2%			24%	24%	2%		24%	
	Net New Project Trips	0	0	9	1	0	0	6	6	1	0	9	0
	2019 Total Traffic	8	185	56	31	254	19	111	14	100	23	12	21
	Traffic Count		292	18	48	444		22		71			
	Peak Season Conversion Factor		1.03	1.03	1.03	1.03		1.03		1.03			
	2017 Peak Season Traffic		301	19	49	457		23		73			
	Compound Growth Rate		0.50%	0.50%	0.50%	0.50%		0.50%		0_50%			
Las Olas Boulevard at SE 5	Existing plus Background Growth		304	19	50	462		23		74			
Avenue	2019 Background Traffic		304	19	50	462		23		74			
	In/Out			In	In			Out		Out			
	Project Assignment			2%	48%			2%		48%			
	Net New Project Trips		0	1	19	0		1		13			
	2019 Total Traffic		304	20	69	462		24		87			

LANGAN

APPENDIX F CAPACITY ANALYSIS REPORTS

EXISTING CONDITIONS

3.3													
	FRT	ERR		WRI	WRT	WAR	(= A /	MRI	NRT	NRR	SRI	SRT	SBF
		LEDIX		VVDL				INDL			ODE		CDI
56		173		57		_		29			24		14
													14
						0							C
						Free							Stop
-					(*)	None		:		None		(*)	None
-	-	500		345	(40	25		-	-	170	-	-	74
	0	240		-	0	(a)		-	0	=		0	- 39
	0	1961		150	0	27		-	0	9	-	0	- 1
92		92		92		92		92	92	92	92	92	92
													2
				62					1		26	17	15
Major1			Ma	aior2	II.	1001	Mi	nor1	* Tr. 1	150	Minor2		, W, 0
	0	0	110705		0	0	1000		797	248		891	74
- 1	1-	-		7=1	(3)	-)							
		-											6.94
	12	-			20	-							0.0
													3.32
													973
													0,0
		2						7.0	000		100	110	
1430		(2)		1063	-2/			262	279	752	357	246	973
1400		720		1000	- 20					102			010
		1974			550								
		1,52		250	-	_							
-	5Z:				>500			004	000		020	400	
ER				WR			155.0	NR			SB	a to b	
					_	-			-				
0.9				2.2									
								J			- C		
NID) ed	MDI no	EDI	EDT	500	MOI	WIDT	WIDD OF	l nd	34,770	DECK STORY		-	201
				_		MDI							-
						-							
				1,75									
~ ~ ~													
20.6	10.1	7.6	0.2	20	8.6	0.1		16.6					
20.6 C 0.4	10.1 B 0.2	7.6 A 0.1	0.2 A	(B)	8.6 A 0.2	0.1 A	-7	0.6					
	92 2 61 Major1 149 - 4.14 - 2.22 1430 - 1430 - - - NBLn1 263	56 284 56 284 0 0 Free Free	56 284 173 56 284 173 0 0 0 Free Free Free - None - 0 - 0 0 92 92 92 2 2 2 61 309 188 Major1 149 0 0 14.14 2.22 1430 14430 1443	56 284 173 56 284 173 0 0 0 Free Free Free - None - O - 0 O - 92 92 92 2 2 2 2 61 309 188 Major1 Mi 149 0 0 1430 1430 1430 15 1430 16 17 18 -	## BBL EBT EBR WBL	## Company Com	EBL EBT EBR WBL WBT WBR 56 284 173 57 137 38 56 284 173 57 137 38 0 0 0 0 0 0 Free Free Free Free Free Free - None - None - None - 0 - - 0 - 0 - - 0 - - None - 0 - - 0 - - 0 - 92	BBL EBT EBR WBL WBT WBR	BBL BBT BBR WBL WBT WBR NBL	The color of the	BBL BBT BBR WBL WBT WBR NBL NBT NBR	Fig. Fig.	The color of the

Intersection	15	W.			Hall	1	the state of the state of	1 6 T	4.4.4	THE WAY IN	12	
Int Delay, s/veh	4.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		47>			41	7		स	7		4	
Traffic Vol, veh/h	8	183	46	30	251	19	104	8	98	23	3	21
Future Vol, veh/h	8	183	46	30	251	19	104	8	98	23	3	21
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-		None		9	None	9	- 6	None	-	-	None
Storage Length	:5:	-	271	5	-	25	1.52	-	170	-	-	-
Veh in Median Storage, #		0			0	7.		0			0	
Grade, %	963	0	-	-	0	=	:#:	0	;€;	-	0	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	9	199	50	33	273	21	113	9	107	25	3	23
Orac allows	West		v	- WASTERN			641			100000		
Major/Minor	Major1	III W		Major2			Minor1			Minor2		D'U
Conflicting Flow All	273	0	0	249	0	0	444	579	124	459	604	136
Stage 1							241	241	150	338	338	
Stage 2	•		×	5 .	₩.	₩.	203	338	(# 0.	121	266	*
Critical Hdwy	4.14			4.14	+	#	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	340	:=	-	×	+	#	6.54	5.54	396	6.54	5.54	+
Critical Hdwy Stg 2	-	-			•		6.54	5.54	(44)	6.54	5.54	
Follow-up Hdwy	2.22	-	=	2.22	=	20	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1287		-	1314		-	497	425	904	485	411	888
Stage 1	ē	-	ē	ň.	-	-	741	705	•	650	639	
Stage 2				₩ 1			780	639		870	687	7
Platoon blocked, %		·*				=						
Mov Cap-1 Maneuver	1287		-	1314		*	467	409	904	409	395	888
Mov Cap-2 Maneuver		-		-	-	*	467	409	-	409	395	-
Stage 1	2	-	12	2:	-		735	699	-	645	620	
Stage 2	***		- 12	2	-		733	620		752	682	
Record All	50			13/0			N/m	11.00	CUINN	00		
Approach	EB			WB			NB			SB	ALC: N	
HCM Control Delay, s	0.3			0.9			12.8			12.4		
HCM LOS							В			В		
Minor Lane/Major Mvmt	NBLn1	VBLn2	EBL	EBT EBR	WBL	WBT	WBR SBLn1		all del		e de la	
Capacity (veh/h)	462	904	1287		1314		- 537					
HCM Lane V/C Ratio		0.118			0.025		- 0.095					
HCM Control Delay (s)	15.6	9.5	7.8	0 -	7.8	0.1	- 12.4					
HCM Lane LOS	13.0 C	9.5 A	7.8 A	Α -	Α.δ	Α	- 12.4 - B					
HCM 95th %tile Q(veh)	1	0.4	0		0.1	-	- 0.3					
HOW SOM WING CA(NGU)		0.4	U		U, I		. 0.3					

Mark College C				U. H.			
Intersection 1	.4	8 m/s		.,			
Int Delay, s/veh 1	.4						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	† \$		N.	^	Y		
Traffic Vol, veh/h	266		82	382	8	32	
Future Vol, veh/h	266		82	382	8	32	
Conflicting Peds, #/hr	0		0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized		None		None		None	
Storage Length	10 -		240	-	0		
Veh in Median Storage, #	0	000		0	0	×	
Grade, %	0	348	-	0	0	-	
Peak Hour Factor	92		92	92	92	92	
Heavy Vehicles, %	2		2	2	2	2	
Mvmt Flow	289	26	. 89	415	9	35	
Major/Minor	Major1	4 × 5	Major2	10.10	Minor1		
Conflicting Flow All	0	0	315	0	688	158	
Stage 1				100	302		
Stage 2	2-	1945	**	-	386		
Critical Hdwy	-	- 10	4.14	140	6.84	6.94	
Critical Hdwy Stg 1		140		180	5.84	-	
Critical Hdwy Stg 2				7	5.84		
Follow-up Hdwy		0 .2)	2.22	•	3.52	3.32	
Pot Cap-1 Maneuver		1 19	1242		380	859	
Stage 1	98	31 8 3		190	724	-	
Stage 2	Ke	(m)		1.00	656		
Platoon blocked, %	7.4	(4)		(#°			
Mov Cap-1 Maneuver	82	165	1242		353	859	
Mov Cap-2 Maneuver	Na	12	12		353	-	
Stage 1	} -		•	-	724		
Stage 2	7.5			750	609	9	
Approach	EB		WB	77	NB	X 1	A STATE OF
HCM Control Delay, s	0		1.4		10.8		
HCM LOS	0		1.7		10.0 B		
TIOW EOO					B		
NAMES OF THE OWNER, WATER COMMITTEE OF THE OWNER, WHITE COMMITTEE OF THE OWNER, WHITE COMMITTEE OF THE OWNER,	NION SA FOR	promises proc	NAMES - LANGE				
Minor Lane/Major Mvmt	NBLn1 EBT	EBR	WBL WBT				
Capacity (veh/h)	668-		1242				
HCM Lane V/C Ratio	0.065 -	1.0	0.072 -				
HCM Control Delay (s)	10.8	0.70	8.1				
HCM Lane LOS HCM 95th %tile Q(veh)	B -		A -				
LICER COLOR Willia (Nuch)	(1')		0.2				

Int Delay, s/veh 1.	7					
int Delay, S/Ven						
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4 \$		7	ተተ	¥	
Traffic Vol, veh/h	301	19	49	457	23	73
Future Vol, veh/h	301	19	49	457	23	73
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized		None	-	None		None
Storage Length	-		240	-	0	782
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	327	21	53	497	25	79
Major/Minor	Major1		Major2	9-1-11	Minor1	187 19 30
Conflicting Flow All	0	0	348	0	693	174
Stage 1	-	-	040		338	117
Stage 2	-	-	- S		355	
Critical Hdwy			4.14	-	6.84	6.94
Critical Hdwy Stg 1			7.17	-	5.84	0.04
Critical Hdwy Stg 2		- 4			5.84	
Follow-up Hdwy		2	2.22	-	3.52	3.32
Pot Cap-1 Maneuver			1208	-	3.52	839
Stage 1			1200	III	694	009
Stage 2				T:	681	
Platoon blocked, %	-	-			001	
Mov Cap-1 Maneuver	-		1208	-	360	839
Mov Cap-1 Maneuver			1200		360	009
		: -		_	694	
Stage 1		-			651	
Stage 2		3	3	5	100	
Amazanak	ro.		TAUP.		670	
Approach	EB		WB		NB 44.9	
HCM Control Delay, s	0		0.8		11.8	
HCM LOS					В	
Marian and American development with the	A DEST A. PERSON	PER INVENT	ALLES CONTROL	-		
Minor Lane/Major Mvmt	NBLn1 EBT	EBR	WBL WBT	8.0, 5.	I A D	A III V
Capacity (veh/h)	636 -		1208 -			
HCM Lane V/C Ratio	0.164 -	2	0.044 -			
HCM Control Delay (s)	11.8	9.	8.1 -			
HCM Lane LOS HCM 95th %tile Q(veh)	В -		Α -			
LICINI DEHL DANS AND AND A	0.6		0.1			

FUTURE NO BUILD CONDITIONS

Intersection			Н.,	100	1000	100				*W = 1511	100	4 3
Int Delay, s/veh	3.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT.	NBR	SBL	SBT	SBR
Lane Configurations		414			414	7		4	7		4	
Traffic Vol, veh/h	56	287	175	57	138	38	29	1	38	24	17	15
Future Vol, veh/h	56	287	175	57	138	38	29	1	38	24	17	15
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	(4)	-	None		- 11 -	None	X.		None		in the	None
Storage Length	:=:		:-		-	25	0.00	-	170		-	
Veh in Median Storage, #		0			0		0#	0			0	
Grade, %	-	0	32		0	=	-	0	190	-	0	2
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	61	312	190	62	150	41	32	1	41	26	18	16
Major/Minor	Major1		1011	Major2			Minor1			Minor2		4.1
Conflicting Flow All	150	0	0	502		0	737	803	251	552	898	75
Stage 1			+			_	529	529	-	274	274	
Stage 2		-	-		-	-	208	274	(*)	278	624	-
Critical Hdwy	4.14	- 2	2	4.14		_	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	- 1111	-	- 2	2	-	_	6.54	5.54	721	6.54	5.54	2
Critical Hdwy Stg 2		-					6.54	5.54		6.54	5.54	
Follow-up Hdwy	2.22		-	2.22		_	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1429			1059		_	307	315	749	416	278	971
Stage 1	1120	-	-	1000		_	501	525	-	709	682	-
Stage 2		-	-			-	775	682	740	705	476	
Platoon blocked, %		2	-		2	-	,,,	002		100	11.0	
Mov Cap-1 Maneuver	1429	_		1059		146	258	276	749	355	244	971
Mov Cap-2 Maneuver	1720	2	2	1000	2	724	258	276	740	355	244	011
Stage 1		1 9	-				470	493		666	637	
Stage 2			:5			1/20	691	637		624	447	
Stage 2							031	037		024	441	
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.9			2.2				_	100		110	
HCM LOS	0.9			2.2			14.9 B			16.8 C		
ncivi LOS							Ь					
Minor Land P. Salas Minor	NIME LAN	101 -0	mm.	EDT FOR	LAVOL	WIDT	Man col -4					
Minor Lane/Major Mymt	NBLn11		EBL	EBT EBR		WBI	WBR SBLn1					
Capacity (veh/h)	259	749	1429			-	- 367					
HCM Lane V/C Ratio		0.055			0.059	0.4	- 0.166					
HCM Control Delay (s)	20.9	10.1	7.6	0.2	8.6	0.1	16.8					
HCM Lane LOS	C	В	A	Α -	A	Α	- C					
HCM 95th %tile Q(veh)	0.4	0.2	0.1		0.2		• 0.6					

Intersection	TIME!	ε¥.	1 n/2		W	31-4		T N				F
Int Delay, s/veh	4.5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations		47>			41	7		ન	7		4	
Traffic Vol, veh/h	8	185	47	30	254	19	105	8	99	23	3	21
Future Vol, veh/h	8	185	47	30	254	19	105	8	99	23	3	21
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	(
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized			None		-	None	0,00		None	-		None
Storage Length	<u>;⊕</u> ;	-	5 2 33	-	-	25	694	-	170	5 = 0		
Veh in Median Storage, #	(4)	0	: = (0	-	0	-	0,0	0			0	
Grade, %	3=0	0	-	-	0	×	R#1	0	*	; =)*	0	
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	9	201	51	33	276	21	114	9	108	25	3	23
Major/Minor	Major1	-		Major2		=	Minor1		* 1 - 2	Minor2		
Conflicting Flow All	276	0	0	252	0	0	449	585	126	463	611	138
Stage 1	270	-	-	202		-	244	244	120	341	341	100
Stage 2	-	-		-		-	205	341		122	270	
Critical Hdwy	4.14		541	4.14			7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	7.17			7.17	-		6.54	5.54	0.04	6.54	5.54	0.0-
Critical Hdwy Stg 2	2		21		-	7	6.54	5.54	121	6.54	5.54	
Follow-up Hdwy	2.22			2.22		2	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1284			1310	π.		493	421	901	482	407	885
Stage 1	120-			1010			738	703	-	647	637	-
Stage 2		-		-	-		778	637		869	685	
Platoon blocked, %			-				770	001		000	000	
Mov Cap-1 Maneuver	1284		:4	1310	9		463	405	901	405	392	885
Mov Cap-2 Maneuver	1201	4	-	1010	2	<u>u</u> :	463	405	-	405	392	
Stage 1				7 1 2	21	- 2	732	697		642	618	
Stage 2						-	731	618	-	750	680	
Glago 2								010		700	000	
Approach	EB		00,5	WB		1,7	NB			SB		
HCM Control Delay, s	0.3			0.9			12.8			12.5		
HCM LOS							В			В		
Minor Lane/Major Mvmt	NBLn11	VBL n2	EBL	EBT EBR	WBL	WBT	WBR SBLn1	N. III		VCC 11.5	ALC: N	
Capacity (veh/h)	458	901	1284	EDI EDI		VVIDA	- 533					
HCM Lane V/C Ratio		0.119				-	- 0.096					
		9.5	7.8		7.8	0.1	- 12.5					
HCM Long LOS	15.7			0 -		0.1	- 12.5 - B					
HCM Lane LOS	C	Α	A	Α -	Α	A						
HCM 95th %tile Q(veh)	1.1	0.4	0		0.1	- 5	- 0.3					

Intersection			Ty E	William Co.				14 × 1 × 1	427
Int Delay, s/veh	1.4								
Movement	47-11-3	EBT	EBR	TEL I	WBL	WBT	NBL	NBR	
Lane Configurations		1			7	^	A		
Traffic Vol, veh/h		268	24		83	386	8	32	
Future Vol, veh/h		268	24		83	386	8	32	
Conflicting Peds, #/hr		0	0		0	0	0	0	
Sign Control		Free	Free		Free	Free	Stop	Stop	
RT Channelized		-	None		-		Clop	None	
Storage Length			TVOTIC		240	-	0	140110	
Veh in Median Storage, #		0			_	0	0		
Grade, %		0	-		-	0	0		
Peak Hour Factor		92	92		92	92	92	92	
		2	2		2	2	2	2	
Heavy Vehicles, %							9	35	
Mvmt Flow		291	26		90	420	9	30	
Major/Minor	Ma	ajor1	i i gara	M	ajor2		Minort	-	
Conflicting Flow All	IVIC	0	0	186	317	0	694	159	
						-	304	109	
Stage 1		:*)	2				390		
Stage 2		± ⊕ ((4.44			- 0.04	
Critical Hdwy		- 1			4.14	¥	6.84	6.94	
Critical Hdwy Stg 1		340	*		-	*	5.84		
Critical Hdwy Stg 2		(a)	-				5.84		
Follow-up Hdwy			3-		2.22	Ē	3.52	3.32	
Pot Cap-1 Maneuver		17	-		1240	- 3	377	858	
Stage 1			-				722		
Stage 2		(*)					653	-	
Platoon blocked, %		(• (-						
Mov Cap-1 Maneuver		(4)	-		1240		350	858	
Mov Cap-2 Maneuver			-		2	2	350	-	
Stage 1		20	- 2		- 4	-	722		
Stage 2							606		
Approach		EB	- "5		WB	178.51	NB		
HCM Control Delay, s		0			1.4		10.8		
HCM LOS							В		
Minor Lana Major Maria	NION SA	пот	LEDO	AND)	A/D/E				N 2 N 2
Minor Lane/Major Mymt		EBT	EBR		WBT				
Capacity (veh/h)	665	-		1240	-				
HCM Lane V/C Ratio	0.065	2	-	0.073	2				
HCM Control Delay (s)	10.8	30)		8.1	9				
HCM Lane LOS	В	(2)		Α					
HCM 95th %tile Q(veh)	0.2		:=	0.2					

Intersection .	7-10-10-2	400	9.0	177.74	ir Go		111111111111111111111111111111111111111		
nt Delay, s/veh 1	1.7								
Movement	-rana	EBT	EBR	40.00	WBL	WBT	NBL	NBR	Alekson.
ane Configurations		♦ ₽			Ť	44	W.		
raffic Vol, veh/h		304	19		50	462	23	74	
uture Vol, veh/h		304	19		50	462	23	74	
Conflicting Peds, #/hr		0	0		0	0	0	0	
Sign Control		Free	Free		Free	Free	Stop	Stop	
RT Channelized		-	None			None		None	
Storage Length		-	-		240	-	0	. 	
/eh in Median Storage, #		0	-		-	0	0	-	
Grade, %		0	-		-	0	0	-	
eak Hour Factor		92	92		92	92	92	92	
leavy Vehicles, %		2	2		2	2	2	2	
vmt Flow		330	21		54	502	25	80	
ajor/Minor	M	lajor1		N.	najor2		Minor1	. Profes	v.! T.
onflicting Flow All		0	0		351	0	701	176	
Stage 1		*			-		341	-	
Stage 2		•	-		-		360	-	
itical Hdwy					4.14		6.84	6.94	
ritical Hdwy Stg 1		2	-		240	743	5.84	-	
ritical Hdwy Stg 2		-					5.84		
ollow-up Hdwy		÷	-		2.22	-	3.52	3.32	
ot Cap-1 Maneuver					1204	-	373	837	
Stage 1		-				5.00	692	-	
Stage 2		N 8	(10)		(*)	-	677	-	
latoon blocked, %		÷	(4)			191			
lov Cap-1 Maneuver					1204	:#X	356	837	
ov Cap-2 Maneuver		=	2		:=:	292	356	2	
Stage 1		- 2			-	(2)	692		
Stage 2					*		647		
pproach		EB		l Hije	WB	Saute S	NB		
CM Control Delay, s		0			0.8		11.8		
CM LOS							В		
Minor Lang/Major Minort	NID! ad	COT	EDD	VAJDI	CAMPAT	W TO			
Minor Lane/Major Mymt	NBLn1 634	EST	EBR	1204	WBT	- All II	111111		
Capacity (veh/h) ICM Lane V/C Ratio				0.045					
	0.166	-	7.5		(2)				
ICM Control Delay (s)	11.8	1 18		8.1					
ICM Lane LOS	В		7.5	Α	8.50				
CM 95th %tile Q(veh)	0.6		(*)	0.1	(*)				

FUTURE BUILD CONDITIONS

					_									
Intersection			Till.	24				No.	25	ny.	100		100	
Int Delay, s/veh	4.1													
Movement	EBL	EBT	EBR	M	VBL	WBT	WBR	4	\BL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		475				414	7			सै	7		4	
Traffic Vol, veh/h	56	287	179		57	138	38		41	13	39	24	21	15
Future Vol, veh/h	56	287	179		57	138	38		41	13	39	24	21	15
Conflicting Peds, #/hr	0	0	0		0	0	0		0	0	0	0	0	0
Sign Control	Free	Free	Free	F	ree	Free	Free	S	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None		-	-	None		1,77		None	第	-	None
Storage Length		-	=		-	-	25		6 .	-	170	=	-	=
Veh in Median Storage, #		0	*			0			(*)	0	(*)		0	5
Grade, %	-	0	:=		*	0	;(#)		-	0	-	-	0	*
Peak Hour Factor	92	92	92		92	92	92		92	92	92	92	92	92
Heavy Vehicles, %	2	2	2		2	2	2		2	2	2	2	2	2
Mvmt Flow	61	312	195		62	150	41		45	14	42	26	23	16
Major/Minor	Major1		50,0	Maj	or2		-7.5	Min	or1	10/2	150	Minor2	DA, E. J	
Conflicting Flow All	150	0	0		507	0	0		741	805	253	559	902	75
Stage 1			-						531	531	-	274	274	
Stage 2		-	-		-				210	274	-	285	628	
Critical Hdwy	4.14			4	.14		:(⊕)		.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1			*		¥	4	((#)		.54	5.54	-	6.54	5.54	*
Critical Hdwy Stg 2			2				-		.54	5.54	- 2	6.54	5.54	2
Follow-up Hdwy	2.22	- 4	2	2	2.22	14	/2		.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1429				054		(e)		305	315	746	412	276	971
Stage 1			-				100		500	524	= \	709	682	
Stage 2			-		-	-			773	682		698	474	
Platoon blocked, %			-			; €:	3€0							
Mov Cap-1 Maneuver	1429		- ×	10	054	(6)	· ·		252	276	746	338	242	971
Mov Cap-2 Maneuver	- 2	2	-		4	2.00	(4)		252	276	-	338	242	-
Stage 1		-			-	1.6	·		470	492	-	666	637	
Stage 2	- 4	- 4			2	12	-		684	637	-	600	445	-
Approach	EB	100			WB	31.5	1		NB			SB	- 47	angini)
HCM Control Delay, s	0.9				2.2				7.6		_	17.8		
HCM LOS	0.0				2.2				C			C		
110111200														
Minor Lane/Major Mvmt	NBLn11	VBI n2	EBL	EBT E	BR	WBL	WBT	WBR SBI	01			1000		
Capacity (veh/h)	257	746	1429	-	-	1054	_		346					
HCM Lane V/C Ratio		0.057		2	-	0.059		- 0.						
HCM Control Delay (s)	23.1	10.1	7.6	0.2	-	8.6	0.1		7.8					
HCM Lane LOS	C	В	Α.	Α		Α	A	-	C					
HCM 95th %tile Q(veh)	0.9	0.2	0.1		_	0.2	-		0.7					
TISINI OUTIT TUTTO OK (NOTI)	0.0	0.2	J. 1	70		U.Z			J.1					

Intersection	4 5				_						
nt Delay, s/veh	1.5										
Movement	100	EBT	EBR	E 1971 B	WBL	WBT		NBL	NBR	7.65	100
Lane Configurations		♦ ₽			7	^		W			
Traffic Vol, veh/h		268	24		85	386		9	38		
Future Vol, veh/h		268	24		85	386		9	38		
Conflicting Peds, #/hr		0	0		0	0		0	0		
Sign Control		Free	Free		Free	Free		Stop	Stop		
RT Channelized		-	None			None			None		
Storage Length		-			240	-		0			
Veh in Median Storage, #		0	1 -		-	0		0			
Grade, %		0	-			0		0	- 4		
Peak Hour Factor		92	92		92	92		92	92		
Heavy Vehicles, %		2	2		2	2		2	2		
Mymt Flow		291	26		92	420		10	41		
		201	20		JL	TLU		10	71		
Vajor/Minor	N	lajor1	Y	M	ajor2	100	N	linor1	T SECTION	ROLL TO	
Conflicting Flow All	1,40	0	0	1000	317	0		699	159		
Stage 1		-	ш.		-			304	100		
Stage 2		*	_			-		395			
Critical Hdwy					4.14			6.84	6.94		
Critical Hdwy Stg 1		-	_		3.17) =		5.84	0.04		
Critical Hdwy Stg 2		-						5.84			
Follow-up Hdwy		- 2			2.22	-		3.52	3.32		
Pot Cap-1 Maneuver					1240			374	858		
								722	000		
Stage 1		*				N e i					
Stage 2		*			360			650			
Platoon blocked, %		-	-		1010	(C#3		0.40	050		
Mov Cap-1 Maneuver		-	7.2		1240	(¥)		346	858		
Mov Cap-2 Maneuver		-	- 2		1726	/=		346			
Stage 1		•			76	- · · · · · · · · · · · · · · · · · · ·		722			
Stage 2		5.	7.		/ 54	(10)		602			
Innraach		EB	-		WB			NB			
Approach	100				_						
HCM Control Delay, s		0			1.5			10.8			
HCM LOS	-							В			
Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL 1	WBT			1.300.11	and the same	119 23	
	669			1240							
Capacity (veh/h)		2	-		112						
HCM Cantrol Polov (a)	0.076	•	•	0.075	(*)						
ICM Control Delay (s)	10.8			8.1	1100						
HCM Lane LOS	В	- 5	7.	Α	10-2						
HCM 95th %tile Q(veh)	0.2	-	*	0.2	0 ' €						

Intersection		FUN	n Store	QEL N	3 (1 10			Y SYS		15 8 V L. T		A VA
Int Delay, s/veh	5											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		414			41₽	7		स	77		4	
Traffic Vol, veh/h	8	185	56	31	254	19	111	14	100	23	12	21
Future Vol, veh/h	8	185	56	31	254	19	111	14	100	23	12	21
Conflicting Peds, #/hr	0	0	0	(0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized		-	None			None			None		-	None
Storage Length	=	-	•		-	25	:=	-	170	-	-	-
Veh in Median Storage, #	•	0			. 0	(-	0			0	-
Grade, %	-	0	-		. 0	3.€	94	0	2	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	9	201	61	34	276	21	121	15	109	25	13	23
W V 3 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- FO V - FO				No.		100					
Major/Minor	Major1			Major2			Minor1		U Lieu	Minor2	4.5	
Conflicting Flow All	276	0	0	262	. 0	0	461	592	131	469	622	138
Stage 1			R€			(*)	249	249	-	343	343	
Stage 2	-	+	1.00	3		1,61	212	343	*	126	279	-
Critical Hdwy	4.14	=	-	4.14	- 1	227.	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	=	20	12			140	6.54	5.54	2	6.54	5.54	100
Critical Hdwy Stg 2	- 4	- 1	-			-	6.54	5.54	Ě	6.54	5.54	
Follow-up Hdwy	2.22	5		2.22		-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1284		0.5	1299	:50		484	418	894	477	401	885
Stage 1	#	F.	0.00		e : - :	(#E)	733	699		646	636	
Stage 2	-		7.00	1.0	7 (9)	; € (770	636	-	865	678	
Platoon blocked, %		-	P(#)		3,90	340						
Mov Cap-1 Maneuver	1284	7.2	140	1299	(=)	-	446	402	894	395	385	885
Mov Cap-2 Maneuver	2	2	72		F 36	127	446	402	-	395	385	-
Stage 1		빌	79	1		-	727	693	-	641	616	
Stage 2		-	v ē .	:			711	616		737	673	-
Annroach	EB			WB		-	NB			SB		-
Approach	0.3			0.9			13.6			13.3		
HCM Control Delay, s	0.3			0.9								
HCM LOS							В			В		
Minor Lane/Major Mvmt	NBLn11	NBLn2	EBL	EBT EBR	WBL	WBT	WBR SBLn1	any s	- 375	18 1 18 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1	100	ALS P
Capacity (veh/h)	441	894	1284				- 495					
HCM Lane V/C Ratio	0.308	0.122	0.007		0.026	-	- 0.123					
HCM Control Delay (s)	16.8	9.6	7.8	0 -	7.8	0.1	- 13.3					
HCM Lane LOS	10.0 C	Α.	Α.	A	A	A	- B					
HCM 95th %tile Q(veh)	1.3	0.4	0	I		-	- 0.4					
TOW Jour June Q(Veri)	1.5	0.4	U		0.1		0.4					

Interconting			JI U			11 - 11 - 11 - 11 - 11	·	
Intersection Int Delay, s/veh	2							
					71/12		7/2	
Movement		EBT	EBR	WB		NBL	NBR	
Lane Configurations		44			ኘ ተተ			
Traffic Vol, veh/h		304	20	6		24	87	
Future Vol, veh/h		304	20	6		24	87	
Conflicting Peds, #/hr		0	0		0 0	0	0	
Sign Control		Free	Free	Fre		Stop	Stop	
RT Channelized		-	None		 None 		None	
Storage Length		-	-	24	0 -	0		
Veh in Median Storage, #		0	-		- 0	0		
Grade, %		0	-		- 0	0	-	
Peak Hour Factor		92	92	9	2 92	92	92	
Heavy Vehicles, %		2	2		2 2	2	2	
Mvmt Flow		330	22	7	5 502	26	95	
Major/Minor	M	lajor1	1."	Major	2	Winor1		
Conflicting Flow All		0	0	35		742	176	
Stage 1			2000			341		
Stage 2			o' = :		-	401		
Critical Hdwy		-		4.1	4 -	6.84	6.94	
Critical Hdwy Stg 1		4	-			5.84	-	
Critical Hdwy Stg 2		-	14			5.84		
Follow-up Hdwy		÷	-	2.2		3.52	3.32	
Pot Cap-1 Maneuver				120		351	837	
Stage 1		-	3.00	120		692	-	
Stage 2			200			645		
Platoon blocked, %			7*		_	040		
Mov Cap-1 Maneuver		-	1/#1	120	3 -	329	837	
Mov Cap-2 Maneuver				120		329	007	
Stage 1		-	0.00			692		
			CON			605		
Stage 2			(*2			000		
Approach		EB		W	3	NB	Name of the local	
The state of the s		0		1.		12.1		
HCM Control Delay, s HCM LOS		U		I.		12.1 B		
IOIVI LOS						В		
dinor Langit faior Minut	NELDI	CDT	EDD	WBL WB				
Minor Lane/Major Mymt	NBLn1	EBT					3.86.35	
Capacity (veh/h)	628			1203	-			
HCM Lane V/C Ratio	0.192	15		0.062	-			
HCM Control Delay (s)	12.1	•	(1)	8.2	•			
HCM Lane LOS	В	1.5	, Ž	A	= .			
HCM 95th %tile Q(veh)	0.7	170	(0.2	•			
. ,								

DRIVEWAYS

Intersection		50 6				CT,11		THE RES	ALCOHOLD BY
nt Delay, s/veh	0								
Movement	EBL	EBT		122 To	WBT	WBR	SBL	SBR	frank i skyll
Lane Configurations		1			1		7	7"	
Traffic Vol, veh/h	0	283			130	0	1	1	
Future Vol, veh/h	0	283			130	0	1	1	
Conflicting Peds, #/hr	0	0			0	0	0	- 0	
Sign Control	Free	Free			Free	Free	Stop	Stop	
RT Channelized	-	None			240	None		None	
Storage Length	-	-			*		0	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	0	308			141	0	1	1	
Major/Minor	Majord				Major2		Minor2		all a market
Major/Minor	Major1	^				^		1.11	
Conflicting Flow All		0				0	449	141	
Stage 1	*	1				120	141 308		
Stage 2						•		6.00	
Critical Hdwy							6.42 5.42	6.22	
Critical Hdwy Stg 1							5.42		
Critical Hdwy Stg 2 Follow-up Hdwy		•				387	3.518	3.318	
Pot Cap-1 Maneuver	0					0	568	907	
Stage 1	0				54	0	886	301	
Stage 2	0	-				0	745		
Platoon blocked, %	U	-				U	140		
Mov Cap-1 Maneuver							568	907	
Mov Cap-1 Maneuver	₩.						568	907	
Stage 1		-					886		
Stage 1						(#). (#)	745	*	
Glage Z							745	أسانه	
Approach	EB	la.	N.	le, n	WB		SB		
HCM Control Delay, s	0				0		10.2		
HCM LOS							В		
Minor Lane/Major Mvmt	EBT	WBT	SBLn18	SBLn2			1.2575		
Capacity (veh/h)			568	907					
HCM Lane V/C Ratio		- 18	0.002						
			11.4	9					
TOW COMPOUND AND IST			11.7	0					
HCM Control Delay (s) HCM Lane LOS	_	0.00	В	Α					

Intersection			- RI- 5	15.75	N 92	W (* 15	e n	5 N 15 S		1919 8	ă.
Int Delay, s/veh	1.2										Τ
Movement	EBL	EBT		4 PS.	191	WBT	WBR	SBL	SBR		
Lane Configurations		र्स				ĵ.		7	7		
Traffic Vol, veh/h	26	257				102	5	5			
Future Vol, veh/h	26	257				102	5	5	28		
Conflicting Peds, #/hr	0	0				0	0	0	0		
Sign Control	Free	Free				Free	Free	Stop	Stop		
RT Channelized	-	None				-	None		M		
Storage Length	-	-				24	3 = 3	0	0		
/eh in Median Storage, #		0				0	-	0			
Grade, %	-	0				0	-	0			
eak Hour Factor	92	92				92	92	92			
leavy Vehicles, %	2	2				2	2	2			
1vmt Flow	28	279				111	5	5			
// Major/Minor	Major1			J. D.		Major2	. 79	Minor2		-3/104	
Conflicting Flow All	116	0				3,000	0	450	114		
Stage 1	9					-	1=	114			
Stage 2	2	2				120	12	336			
ritical Hdwy	4.12	-						6.42			
ritical Hdwy Stg 1		-						5.42			
ritical Hdwy Stg 2								5.42			
ollow-up Hdwy	2.218					::		3.518			
ot Cap-1 Maneuver	1473	-					-	567			
Stage 1	- 1110					5 4 5	340	911			
Stage 2								724			
latoon blocked, %		2				-	- 2	1 4-1			
lov Cap-1 Maneuver	1473							554	939		
Nov Cap-2 Maneuver	- 1170							554			
Stage 1	-						-	911			
Stage 2	-							707			
J. 100 2								.07			
approach	EB	See N	-	11.0		WB		SB			11
ICM Control Delay, s	0.7					0		9.4			
CM LOS	0.17							A			
linor Lane/Major Mymt	EBL	EBT	WBT	WBR S	BLn1	SBLn2			10 ST V	an Kon	
apacity (veh/h)	1473	-			554	939					
CM Lane V/C Ratio	0.019					0.032					
ICM Control Delay (s)	7.5	0		200	11.6	9					
ICM Lane LOS	A	A		74	В	A					
ICM 95th %tile Q(veh)	0.1	-	2	192	0	0.1					
SIN SOUL MINE ON ACTION	0.1				U	0.1					

Intersection					20,000				411 11 11 11 11
nt Delay, s/veh	0.2								
Movement	EBL	EBT			WBT	WBR	SBL	SBR	
Lane Configurations		†			†		7	7	
Traffic Vol, veh/h	0	102			70	0	1	2	
Future Vol, veh/h	0	102			70	0	1	2	
Conflicting Peds, #/hr	0	0			- 0	0	0	0	
Sign Control	Free	Free			Free	Free	Stop	Stop	
RT Channelized	-	None			-	None		None	
Storage Length	3	2 7				72	0	0	
Veh in Median Storage, #		0			0	76	0		
Grade, %	-	0			0	-	0	_	
Peak Hour Factor	92	92			92	92	92	92	
Heavy Vehicles, %	2	2			2	2	2	2	
Mymt Flow	0	111			76	0	1	2	
	0	- 111			, 0	U		2	
Major/Minor	Major1	11 1		1, 1,1	Major2		Minor2	-	A MARKET
Conflicting Flow All	-	0			-	0	187	76	
Stage 1	2				100	7/40	76	, 0	
Stage 2	-				-		111	-	
Critical Hdwy						1/2	6.42	6.22	
Critical Hdwy Stg 1	:7				152		5.42	0.22	
Critical Hdwy Stg 2							5.42		
Follow-up Hdwy							3.518	3.318	
Pot Cap-1 Maneuver	0	_				0	802	985	
Stage 1	0	-				0	947	900	
	0	_				0	914	-	
Stage 2	U	- 5				U	914		
Platoon blocked, %		ā					000	005	
Mov Cap-1 Maneuver					/mi	(802	985	
Mov Cap-2 Maneuver					5.5		802	-	
Stage 1		-				2.00	947		
Stage 2	19	-			(18)	(6€):	914		
Approach	EB			1 20 0	WB	1 818	SB		SAN SILVE
	0				0		9		WE TO SHE
HCM Control Delay, s	U				U				
HCM LOS							А		
Minor Lane/Major Mvmt	EBT	WRTS	BLn1 S	BI n2			1775.8		217 215
Capacity (veh/h)		7.00	802	985					
HCM Lane V/C Ratio		-	0.001						
HCM Control Delay (s)			9.5	8.7					
HCM Lane LOS									
TO DO LAMB LOS	-	-	Α	Α					

Intersection	V 81 45	ϴ,	ac, in	-Age a	£ 10	sw I	a byther	5-EL -4-Y	ICV K.
Int Delay, s/veh	2,8	181							
Movement	EBL	EBT			WBT	WBR	SBL	SBR	TIS _{IV}
Lane Configurations		4			Þ		17	7"	
Traffic Vol, veh/h	22	80			47	22	24	23	
Future Vol, veh/h	22	80			47	22	24	23	
Conflicting Peds, #/hr	0	0			0	0	0	0	
Sign Control	Free	Free			Free	Free	Stop	Stop	
RT Channelized		None			-	None		None	
Storage Length	(m)	-			-	-	0	0	
√eh in Median Storage, #	-	0			0	-	0	3/	
Grade, %	_	0			0		0	-	
Peak Hour Factor	92	92			92	92	92	92	
Heavy Vehicles, %	2	2			2	2	2	2	
/lvmt Flow	24	87			51	24	26	25	
//Ajor/Minor	Major1				Major2	21.5	Minor2	74	. 100
Conflicting Flow All	75	0			majorz	0	198	63	
Stage 1	-				-	-	63	-	
Stage 2	-						135		
ritical Hdwy	4.12					1/2	6.42	6.22	
critical Hdwy Stg 1	7.12				12	-	5.42	0.22	
Critical Hdwy Stg 2							5.42	-	
follow-up Hdwy	2.218	5					3.518	3.318	
ot Cap-1 Maneuver	1524					2.75	791	1002	
Stage 1	-				(#:	0,#3	960	-	
Stage 2		-			-	(#)	891		
Platoon blocked, %		- 2			2=	345			
Nov Cap-1 Maneuver	1524	-			7.5	1.61	778	1002	
Nov Cap-2 Maneuver	9				1/2	9	778	4	
Stage 1						7.	960		
Stage 2		-			1277		876		
ware ask	EC			STIME	(A)		00		
Approach	EB			0.00	WB		SB		
ICM Control Delay, s	1.6				0		9.3		
CM LOS							А		
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR SBLn1	SBLn2			- N 8 ii	H. B
Capacity (veh/h)	1524				1002				
ICM Lane V/C Ratio	0.016	-	9	- 0.034					
ICM Control Delay (s)	7.4	0		- 9.8					
	Α	A	=	- A					
ICM Lane LOS									

APPENDIX G TRIP GENERATION DATA

TRIP GENERATION ANALYSIS RIVERWALK RESIDENCES AT LAS OLAS

coll box c	ITE Codo	ITE Codo	F	Trin Conception	**	2	÷	_	Total Trips			Internal Trips	Trips		Exte	External Trips	s	Pass-by	-by	Net	Net New Trips	S
		mremsiry	<u>.</u>	dellei atioli r	יפוב			u	Out	Total	ln	Out	Total	%	드	Out	Total	Trips	%	n n	Out	Total
Existing Use																						
Office	710	16,199 SF	=	T = 11.03 (X)		20%	20%	06	68	179	0	0	0	0	06	68	179	0	%0	06	68	179
Proposed Uses																						
Senior Adult Housing - Attached	252	192 DU's	=	2.98 (X) +	- 21.05	20%	20%	297	296	593	4	8	7	1.2%	293	293	286	0	%0	293	293	586
Assisted Living Facility	254	238 Beds	<u>=</u>	2.66 (X)		20%	20%	317	316	633	4	Э	7	1.1%	313	313	979	0	%0	313	313	979
Specialty Retail	826	1,619 SF	=	44.32 (X)		20%	20%	36	36	72	9	∞	14	19.4%	30	28	28	20	34%	20	18	38
						Sul	Sub-Total	029	648	1,298	14	14	28		989	634	1,270	20		979	624	1,250
				10% Multi-Modal I	Modal Rec	Reduction Factor	Factor	9	65	130					64	63	127			63	62	125
							Total	585	583	1,168					572	571	1,143			563	295	1,125
						Diff	Difference	495	494	686				H	482	482	964			473	473	946

MORNING PEAK HOUR																						
	Tr Cada	lande on other	H	9			+.0	Tota	Total Trips			Internal Trips	Trips		Exte	External Trips	s	Pass-by	, Aq	Net	Net New Trips	"
Land Ose	II E Code	ii e code intensity	2	irip Generation Kate	<u> </u>	=	<u> </u>	-I	Out T	Total	ㅁ	Out	Total	%	드	Out	Total	Trips	%	n	Out	Total
Existing Use																						
Office	710	16,199 SF	=	T = 1.56 (X)		%88	12%	22	3	25	0	0	0	0	22	3	25	0	%0	22	е	25
Proposed Uses																						
Senior Adult Housing - Attached	252	192 DU's	=	0.2 (X) -	0.13	34%	%99	13	25	38	0	0	0	%0.0	13	25	38	0	%0	13	25	38
Assisted Living Facility	254	238 Beds	<u>-</u>	0.14 (X)		%59	35%	21	12	33	0	0	0	%0.0	21	12	33	0	%0	21	12	33
Specialty Retail*	826	1,619 SF	=	(x) 96·0		%29	38%	1	1	2	0	0	0	%0.0	1	1	2	1	34%	1	0	П
						Sub-Total	Total	35	38	73	0	0	0		35	38	73	1		35	37	72
				10% Multi-Modal Reduction Factor	odal Red	uction Fa	actor	4	3	7					4	3	7			4	33	7
						-	Total	31	35	99					31	35	99			31	34	65
						Difference	ence	6	32	41					6	32	41			6	31	40

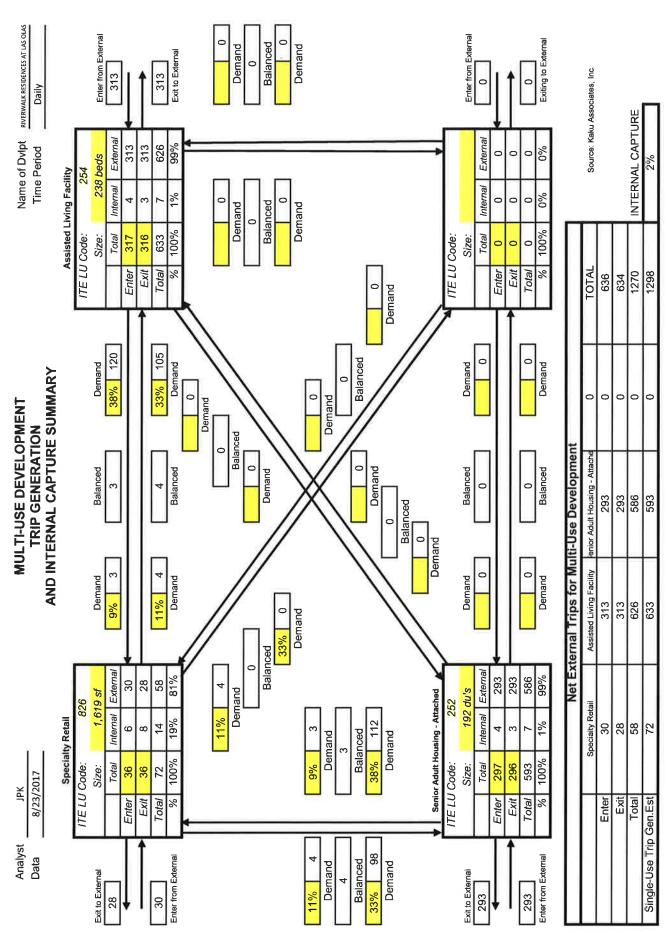
* Used shopping center rate for morning specialty retail AFTERNOON PEAK HOUR

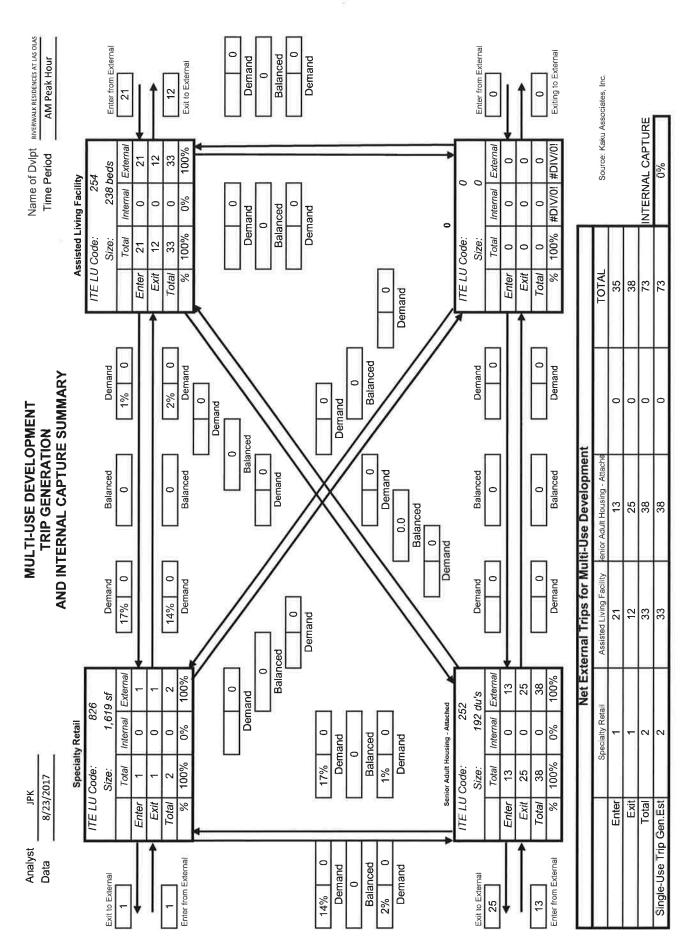
Net New Trips Out 20 21 28 28 3 25 드 22 19 7 48 5 **39** 0% 0% 34% % Pass-by Trips 0 0 9 0 Total 105 11 **94 70** 43 47 15 24 **External Trips** Ont 20 55 50 30 21 28 6 ≘ 22 19 9 6 **4 6** 10.4% 9.6% 40.0% Total **Internal Trips** 5 5 10 20 Out 10 드 10 Total 125 13 **112 88** 48 52 25 24 Total Trips Out 20 22 29 14 65 59 39 드 26 23 111 9 23 49 Difference Total 46% %99 26% 10% Multi-Modal Reduction Factor ont 83% Sub-Total 24% 44% 44% 17% 드 21.48 1.64 **Trip Generation Rate** 0.24 (X) + 0.22 (X) 2.4 (X) + 1.49 (X) || || |- |-192 DU's 238 Beds 1,619 SF 16,199 SF Intensity ITE Code 710 252 254 826 Senior Adult Housing - Attached Assisted Living Facility Specialty Retail **Proposed Uses Existing Use** Land Use Office

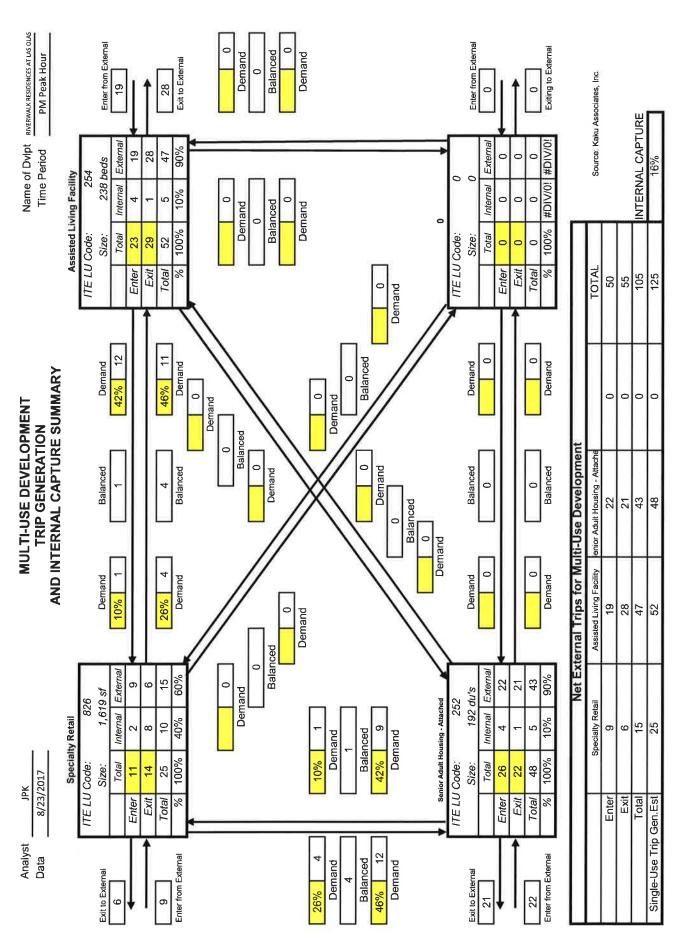
Total

24









Specialty Retail Center (826)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Leasable Area

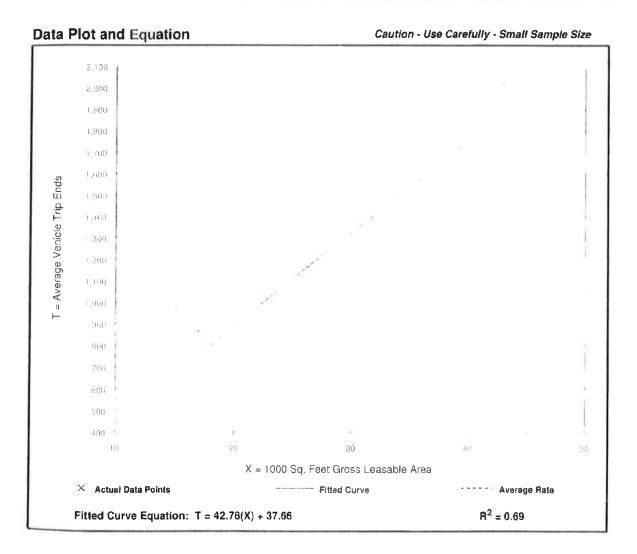
On a: Weekday

Number of Studies: 4 Average 1000 Sq. Feet GLA: 25

Directional Distribution: 50% entering, 50% exiting

Trip Generation per 1000 Sq. Feet Gross Leasable Area

	•	
Average Rate	Range of Rates	Standard Deviation
44.32	21.30 - 64.21	15.52



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Shopping Center (820)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Leasable Area

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

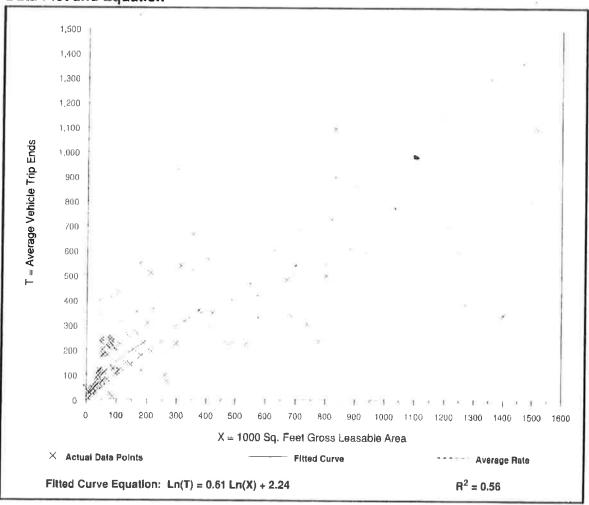
Number of Studies: 104 Average 1000 Sq. Feet GLA: 310

Directional Distribution: 62% entering, 38% exiting

Trip Generation per 1000 Sq. Feet Gross Leasable Area

	Average Rate	Range of Rates	Standard Deviation
l	0.96	0.10 - 9.05	1.31

Data Plot and Equation



Specialty Retail Center (826)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Leasable Area

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

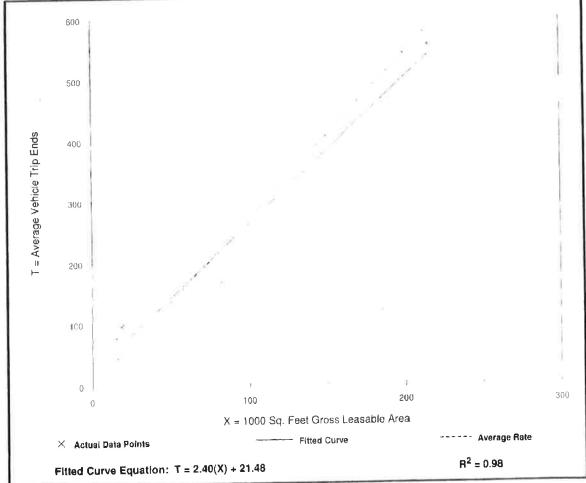
Number of Studies 5 Average 1000 Sq. Feet GLA: 69

Directional Distribution: 44% entering, 56% exiting

eneration per 1000 Sq. Feet Gross Leasable Area

Tilb delletation ber 1000 od.	001 0.1000	
Average Rate	Range of Rates	Standard Deviation
2.71	2.03 - 5.16	1.83





Assisted Living (254)

Average Vehicle Trip Ends vs: Beds

On a: Weekday

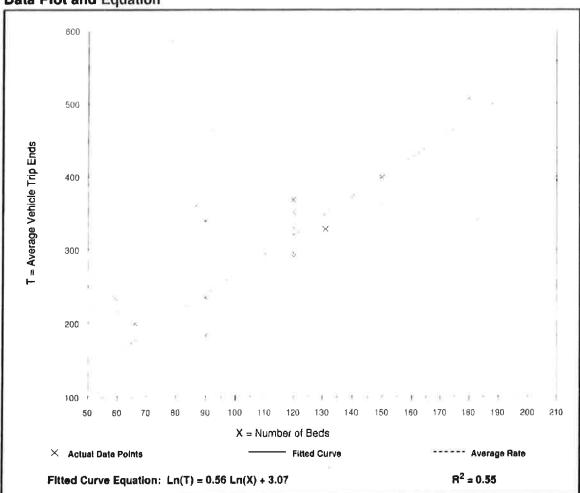
Number of Studies: 16 Average Number of Beds: 121

Directional Distribution: 50% entering, 50% exiting

Trip Generation per Bed

Average Rate	Range of Rates	Standard Deviation
2.66	1.86 - 4.14	1.74

Data Plot and Equation



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Assisted Living (254)

Average Vehicle Trip Ends vs: Beds

Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.

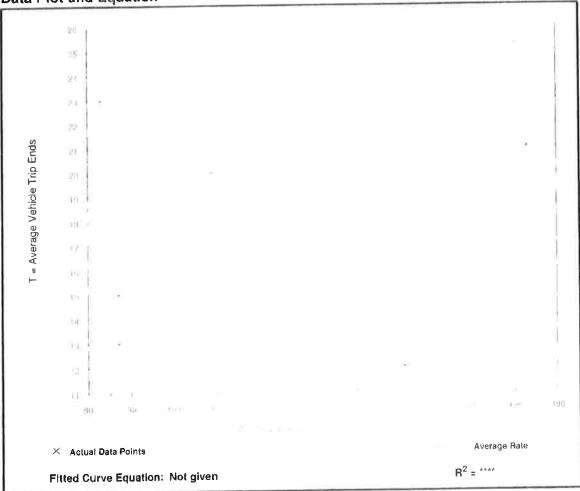
Number of Studies: 7 Average Number of Beds: 121

Directional Distribution: 65% entering, 35% exiting

Trip Generation per Bed

Average Rate	Range of Rates	Standard Deviation	
0.14	0.08 - 0.28	0.37	

Data Plot and Equation



Assisted Living (254)

Average Vehicle Trip Ends vs: Beds

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

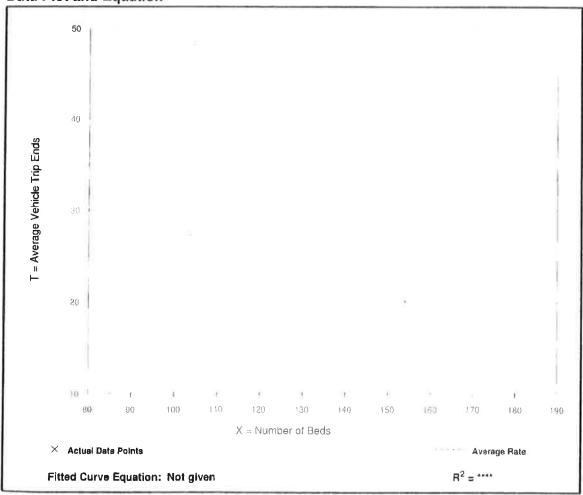
Number of Studies: 7 Average Number of Beds: 121

Directional Distribution: 44% entering, 56% exiting

Trip Generation per Bed

b arantatatata bar a a -			
Average Rate	Range of Rates	Standard Deviation	1
0.22	0.11 - 0.30	0.47	

Data Plot and Equation



Trip Generation, 9th Edition • Institute of Transportation Engineers

General Office Building (710)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Floor Area

On a: Weekday

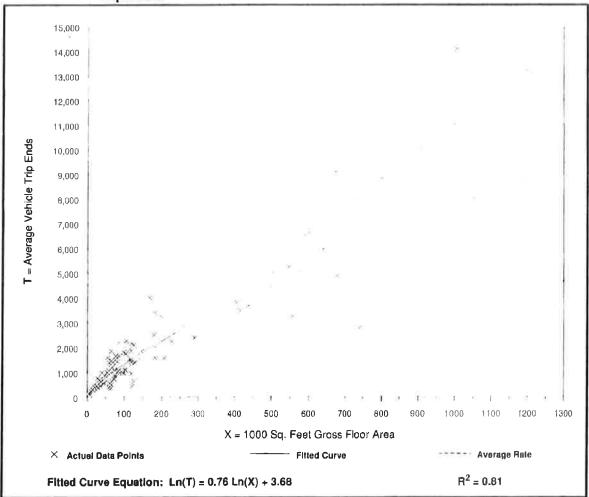
Number of Studies: 79 Average 1000 Sq. Feet GFA: 197

Directional Distribution: 50% entering, 50% exiting

Trip Generation per 1000 Sq. Feet Gross Floor Area

Average Rate	Range of Rates	Standard Deviation
11.03	3.58 - 28.80	6.15

Data Plot and Equation



Trip Generation, 9th Edition • Institute of Transportation Engineers

General Office Building (710)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Floor Area

On a: Weekday, A.M. Peak Hour

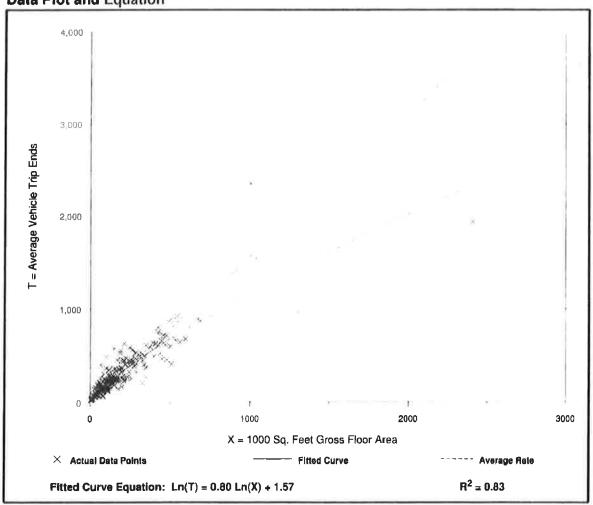
Number of Studies: 218 Average 1000 Sq. Feet GFA: 222

Directional Distribution: 88% entering, 12% exiting

Trip Generation per 1000 Sq. Feet Gross Floor Area

Average Rate	Range of Rates	Standard Deviation
1.56	0.60 - 5.98	1.40

Data Plot and Equation



General Office Building (710)

Average Vehicle Trip Ends vs: 1000 Sq. Feet Gross Floor Area

On a: Weekday, P.M. Peak Hour

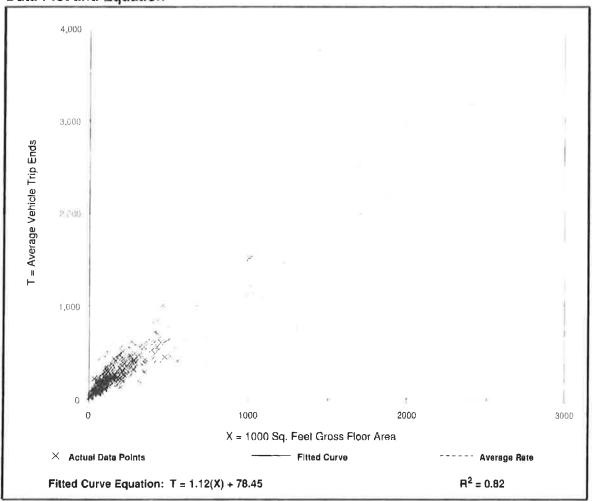
Number of Studies: 236 Average 1000 Sq. Feet GFA: 215

Directional Distribution: 17% entering, 83% exiting

Trip Generation per 1000 Sq. Feet Gross Floor Area

Average Rate	Range of Rates	Standard Deviation	
1.49	0.49 - 6.39	1.37	

Data Plot and Equation



Trip Generation, 9th Edition • Institute of Transportation Engineers

Table 5.6 (Cont'd) Pass-By Trips and Diverted Linked Trips Weekday, p.m. Peak Period

Land Use 820-Shopping Center

				Talia ose ozo-shopping center	- 020	וווללסווכ					
SIZE (1,000 SQ. FT. GLA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERMIEWS	TIME PERIOD	PRIMARY TRIP (%)	NON-PASS- BY TRIP (%)	DIVERTED UNKED TRIP (%)	PASS-BY TRIP (%)	ADJ. STREET PEAK HOUR VOLUME	AVERAGE 24-HOUR TRAFFIC	SOURCE
237	W. Windsor Twp, NJ Winter 1988	Winter 1988/89	n/a	4:00-6:00 p.m.	1	52	1	84	n/a	46,000	Booz Allen & Harnilton
242	Willow Grove, PA	Winter 1988/89	n/a	4:00-6:00 p.m.		63	1	37	n/a	26,000	McMahon Associates
297	Whitehall, PA	Winter 1988/89	n/a	4:00-6:00 p.m.	1	29	E	33	u/a	26,000	Orth-Rodgers & Assoc. Inc.
360	Broward Cnty., FL	Winter 1988/89	n/a	4:00-6:00 p.m.	1.	56	3	44	n/a	73,000	McMahon Associates
370	Pittsburgh, PA	Winter 1988/89	n/a	4:00-6:00 p.m.		84	1	19	n,′a	33,000	Wilbur Smith
150	Portland, OR	n/a	519	4:00-6:00 p.m.	9	ı	26	89	ריים	25,000	Kittleson and Associates
150	Portland, OR	n/a	655	4:00-6:00 p.m.	7	1	28	65	n/a	30,000	Kittleson and Associates
760	Calgary, Alberta	Oct-Dec 1987	15,436	4:00-6:00 p.m.	88	1	41	20	n,'a	n/a	City of Calgary DOT
178	Bordentown, NJ	Apr. 1989	154	2:00-6:00 p.m.		65	ij	35	n/a	37,980	Raymond Keyes Assoc.
144	Manalapan, NJ	Jul. 1990	176	3:30-6:15 p.m.	44	1	24	32	n'a	69,347	Raymond Keyes Assoc.
549	Natick, MA	Feb. 1989	n/a	4:45-5:45 p.m.	56	1	41	33	ņ,a	48,782	Raymond Keyes Assoc.

Average Pass-By Trip Percentage: 34

Table 6.2 Unconstrained Internal Person Trip Capture Rates for Trip Destinations within a Mixed-Use Development

		Wee	ekday
		AM Peak Hour	PM Peak Hour
To OFFICE	From Retail	4%	31%
	From Restaurant	14%	30%
	From Cinema/Entertainment	0%	6%
	From Residential	3%	57%
	From Hotel	3%	0%
To RETAIL	From Office	32%	8%
	From Restaurant	8%	50%
	From Cinema/Entertainment	0%	4%
	From Residential	17%	10%
	From Hotel	4%	2%
To RESTAURANT	From Office	23%	2%
	From Retail	50%	29%
	From Cinema/Entertainment	0%	3%
	From Residential	20%	14%
	From Hotel	6%	5%
То	From Office	0%	1%
CINEMA/ENTERTAINMENT	From Retail	0%	26%
	From Restaurant	0%	32%
	From Residential	0%	0%
	From Hotel	0%	0%
To RESIDENTIAL	From Office	0%	4%
	From Retail	2%	46%
	From Restaurant	5%	16%
	From Cinema/Entertainment	0%	4%
	From Hotel	0%	0%
To HOTEL	From Office	0%	0%
	From Retail	0%	17%
	From Restaurant	4%	71%
	From Cinema/Entertainment	0%	1%
	From Residential	0%	12%

Source: Bochner, B., K. Hooper, B. Sperry, and R. Dunphy. NCHRP Report 684: Enhancing Internal Trip Capture Estimation for Mixed-Use Developments. Washington, DC: Transportation Research Board, Tables 101 and 102, 2011.

Table 6.1 Unconstrained Internal Person Trip Capture Rates for Trip Origins within a Mixed-Use Development

		WEEKDAY	
		AM Peak Hour	PM Peak Hou
From OFFICE	To Retail	28%	20%
	To Restaurant	63%	4%
	To Cinema/Entertainment	0%	0%
	To Residential	1%	2%
	To Hotel	0%	0%
From RETAIL	To Office	29%	2%
	To Restaurant	13%	29%
	To Cinema/Entertainment	0%	4%
	To Residential	14%	26%
	To Hotel	0%	5%
From RESTAURANT	To Office	31%	3%
	To Retail	14%	41%
	To Cinema/Entertainment	0%	8%
	To Residential	4%	18%
	To Hotel	3%	7%
From	To Office	0%	2%
CINEMA/ENTERTAINMENT	To Retail	0%	21%
	To Restaurant	0%	31%
	To Residential	0%.	8%
	To Hotel	0%	2%
From RESIDENTIAL	To Office	2%	4%
	To Retail	1%	42%
	To Restaurant	20%	21%
	To Cinema/Entertainment	0%	0%
	To Hotel	0%	3%
From HOTEL	To Office	75%	0%
	To Retail	14%	16%
	To Restaurant	9%	68%
	To Cinema/Entertainment	0%	0%
	To Residential	0%	2%

Source: Bochner, B., K. Hooper, B. Sperry, and R. Dunphy. NCHRP Report 684: Enhancing Internal Trip Capture Estimation for Mixed-Use Developments. Washington, DC: Transportation Research Board, Tables 99 and 100, 2011.

Table 7.1 Unconstrained Internal Capture Rates for Trip Origins within a Multi-Use Development

			WEEKDAY	
		MIDDAY PEAK HOUR	p.m. PEAK HOUR OF ADJACENT STREET TRAFFIC	DAILY
from OFFICE	to Office	2%	1%	2%
	to Retail	20%	23%	22%
	to Residential	0%	2%	2%
rom RETAIL	to Office	3%	3%	3%
	to Retail	29%	20%	30%
	to Residential	7%	12%	11%
from RESIDENTIAL	to Office	N/A	N/A	N/A
	to Retail	34%	53%	38%
	to Residential	N/A	N/A	N/A

Caution: The estimated typical internal capture rates presented in this table rely directly on data collected at a limited number of multi-use sites in Florida. While ITE recognizes the limitations of these data, they represent the only known credible data on multi-use internal capture rates and are provided as illustrative of typical rates. *If local data on internal capture rates by paired land uses can be obtained, the local data may be given preference.*

N/A—Not Available; logic indicates there is some interaction between these two land uses; however, the limited data sample on which this table is based did not record any interaction.

Table 7.2 Unconstrained Internal Capture Rates for Trip Destinations Within a Multi-Use Development

		WEEKDAY		
		MIDDAY PEAK HOUR	p.m. PEAK HOUR OF ADJACENT STREET TRAFFIC	DAILY
to OFFICE	from Office	6%	6%	2%
	from Retail	38%	31%	15%
	from Residential	0%	0%	N/A
to RETAIL	from Office	4%	2%	4%
	from Retail	31%	20%	28%
	from Residential	5%	9%	9%
to RESIDENTIAL	from Office	0%	2%	3%
	from Retail	37%	31%	33%
	from Residential	N/A	N/A	N/A

Caution: The estimated typical internal capture rates presented in this table rely directly on data collected at a limited number of multi-use sites in Florida. While ITE recognizes the limitations of these data, they represent the only known credible data on multi-use internal capture rates and are provided as illustrative of typical rates. If local data on internal capture rates by paired land uses can be obtained, the local data may be given preference.

N/A-Not Available; logic indicates there is some interaction between these two land uses; however, the limited data sample on which this table is based did not record any interaction.