

Civil Engineers • Land Surveyors • Planners • Landscape Architects

January 9, 2018

Ms. Sarah Catala SIS/Growth Management Coordinator FDOT District One 10041 Daniels Parkway Fort Myers, FL 33913

RE: Marco Shores / Fiddler's Creek Development of Regional Impact (DRI), Notice of Proposed Change (NOPC) – FDOT Comments and Recommendations

Dear Ms. Catala,

This correspondence is our formal response to the sufficiency review letter provided to us on September 21, 2017. Responses to staff comments have been provided in **bold**.

FDOT Comment #1

The PM peak hour inbound trips for Commercial land use totals 585 in Figure 1 - "Project Generated Traffic Assignment" compared to 525 in Exhibit 5. Please revise Figure 1 appropriately.

Response:

Figure 1 has been revised per the reviewer's comment, as well as to reflect the total project external trips, which includes trips generated by the residential, golf course and commercial land uses.

FDOT Comment #2

The two approved full access points along US 41 are currently located at Naples Reserve Boulevard and Sandpiper Drive/Greenway Road. In addition, the NOPC is requesting a right in / right out access and a full median access on US 41 east of Sandpiper Drive/Greenway Road.

The FDOT Access Management standard for US 41 is Access Class 3 from just west of CR 864 (M.P. 15.797) to just west of Joseph Lane (M.P. 23.134). The FDOT Access Management standard for US 41 is Access Class 4 from just west of Joseph Lane (M.P. 23.134) to SR 29 (M.P. 44.151).

a. FDOT requests that intersection analyses be provided for the two approved full access points (located at Naples Reserve Boulevard and Sandpiper Drive/Greenway Road) and the two new project access points (a right in right / out access and a full median access) along US 41 for the buildout year. Based on the analysis, intersection improvements including queue lengths need to be provided. FDOT notes that the applicant will be Ms. Sarah Catala

RE: Marco Shores / Fiddler's Creek Development of Regional Impact (DRI), Notice of Proposed Change (NOPC)

- FDOT Comments and Recommendations

January 9, 2018

Page 2 of 2

responsible for 100% of the cost of the intersection improvements resulting from the analysis for the four project access points along US 41.

b. FDOT requests that the applicant provides a table in the NOPC application and the traffic statement showing whether the proposed access points meet the FDOT access management standards.

Response:

The TIS has been revised according to the reviewer's comment. Intersection analyses have been performed and an access spacing compliance summation has been included in the TIS, which has been made a part of the NOPC application. As determined, the two (2) proposed access points are in compliance of FDOT's intersection separation standards.

FDOT Comment #3

The most recent 2017 Annual Monitoring Report states that for Traffic Condition 9.a.2 of the DRI DO, all required auxiliary turn lanes required at each new intersection created on SR 951 are complete, and that all required auxiliary turn lanes required at each new intersection created on US 41 are 50% complete. FDOT requests that the status of each auxiliary lane improvement at each new intersection created by the project on SR 951 and on US 41, per Traffic Condition 9.a.2, be provided in the NOPC application and the traffic statement.

Response:

The TIS has been revised according to the reviewer's comment. A summation of the completed vs. required site-related improvements has been included in the TIS which has been made a part of the NOPC application.

Please contact either Richard D. Yovanovich at 435-3535 or me if there are any questions.

Sincerely,

D. Wayne Arnold, AICP

cc: FCC Commercial LLC

Aubrey J. Ferrao

Tony DiNardo

Joseph Livio Parisi, Esq.

Jazer Challenger

Richard D. Yovanovich

Collier County Growth Management

Daniel L. Trescott, MSP

GradyMinor File

JMB TRANSPORTATION ENGINEERING, INC.

TRAFFIC/TRANSPORTATION ENGINEERING & PLANNING SERVICES

TRAFFIC STATEMENT

For

Fiddler's Creek DRI - NOPC

(Collier County, Florida)

January 12, 2017 Revised January 9, 2018

Prepared by:

JMB TRANSPORTATION ENGINEERING, INC. 4711 7th Avenue SW Naples, Florida 34119 (239) 227-2355 CERTIFICATE OF AUTHORIZATION NO. 27830

(PROJECT No. 130813)

JAMES M. BANGS, PAR ORION CENTER PROPERTY OF 1-942018

TABLE OF CONTENTS

Conclusions	2
Scope of Project	5.
Table A - Approved/Vested Land Uses	6
Master Concept Plan	6.1
Vested Site-Generated Trips	7
Table B - Vested Site-Generated Trips	7
Hotel Land Use vs. Commercial/Retail Trips Equivalency	7
Table C - Trips Equivalency	7
Exhibit 5 - Trip Generation Computations	7.1
Table 1 - Trips Equivalency	7.2
Table 2 - Trips Estimates - ITE 9th Edition	8.1
Reassignment of Project Traffic	9
Figure 1 - Project Traffic Assignment	9.1
Site Access/Intersection Separation	10
Figure 2 - U.S. 41 Access Spacing	10.1
Site Access Improvements- U.S. 41	11.
Site Access Improvements-S.R. 951	12 ;
Appendix	13

Conclusions

A Notice of Proposed Change (NOPC) has been submitted for the intended purpose of relocating previously approved commercial/retail land uses within the ongoing development of Fiddler's Creek DRI.

Based upon the findings of this report, it was determined that the proposed relocation of previously approved commercial/retail land uses (not constructed to date) within the Fiddler's Creek DRI will not result in any additional site-generated trips or additional impacts to the adjacent road network. More specifically, it is proposed to construct a portion of the project's approved 325,000 square feet of commercial/retail land uses, which were previously planned along Collier Boulevard and U.S. 41 (Tamiami Trail East), at two alternate sites that are contiguous to U.S. 41. The two (2) commercial tracts adjacent to Collier Boulevard will remain, but substantially less commercial will be developed than previously envisioned on those parcels.

The net result of relocating a portion of the commercial land uses will be no additional site-generated trips, but previously estimated turning movements at the project's access points on Collier Boulevard and U.S. 41 will be different than originally forecasted. It is the report's findings that the project's accesses on Collier Boulevard will have notable less ingress/egress traffic movements than previously expected, as will be the case for the project's access that will be aligned with the intersection of Naples Reserve Boulevard & U.S. 41. The project's primary full access on U.S. 41 (Sandpiper Drive), which will be used by both the DRI's residential and commercial land uses, will have an increase in the volume of ingress/egress movements and most likely will warrant a traffic signal as Fiddler's Creek nears build-out. In addition, there is a proposed right-in/out access to the southeast of Sandpiper/U.S. 41 intersection which will also provide access to the newly planned commercial tract. Also proposed is a full access further to the southeast that will serve residents in the southeastern most areas of Fiddler's Creek.

It should be noted that redistribution of a portion of the project's commercial trips from the more heavily traveled Collier Boulevard (south of Tamiami Trail) to the less traveled Tamiami Trail (recently widened to six-lanes) will relieve some pressure on the more critical segment of Collier Boulevard. The relocation of commercial land uses will also better serve other existing and planned residential communities to the immediate north and to the east that currently travel to the more commercially developed areas to the west. Therefore, the effect of relocating a portion of the approved commercial land uses will be a benefit to the public in both convenience and reducing traffic demands on more heavily traveled roadways.

Site Access/Intersection Separation

As part of the DRI's NOPC, the Florida Department of Transportation requested that the distance between the project's points of access and nearest intersecting street/access be summarized and compared to their intersection separation criteria along U.S. 41. Figure 1 depicts the site access/intersection spacing which has been summarized below.

Site Access & U.S. 41 (Class 3) Approved - Access No. 1 (Full Access/Naples Reserve)	Closest Intersection Manatee Road (west) (Full - Signal)	Required Spacing 2,640'	Existing <u>Spacing</u> 2,430' +/-
	Imperial Wilderness (east) (Full Access)	2,640'	1,200' +/-
Site Access & U.S. 41 (Class 4) Approved - Access No. 2 (Full Access - Sandpiper/Greenway)	First Baptist Church (west) (Directional Left)	660'	1,910' +/-
	Joseph Lane (west) (Full Access)	660'	2,540' +/-
	Proposed Access No. 3 (east) (right-in/out)	660'	1,200' +/-
Proposed - Access No. 3 (Commercial Right-In/Out Access)	Sandpiper/Greenway (west) (Full Access)	660'	1,200 +/-
	Proposed Access No. 4 (east) (Full Access)	660'	2,165' +/-
Proposed - Access No. 4 (Residential Full Access)	Proposed Access No. 3 (west) (right-in/out)	660'	2,165' +/-
	Auto Village Rd (east) (Full Access)	660'	2,345' +/-

Site Access Improvements - U.S. 41

As part of the DRI's NOPC, the Florida Department of Transportation (FDOT) requested that a reevaluation of needed site-related improvements be performed for those points of access to U.S. 41 based upon the anticipated increase in traffic demands at those locations. The report performed the analysis based upon 2023 project build-out traffic conditions and U.S. 41 having a posted speed limit of 60 MPH. Per FDOT Index No. 301, the required turn lane length (taper + deceleration) is 405'. The vehicle storage determinations were based upon the use of the Highway Capacity Manual's software and the results are summarized below.

Site Access & U.S. 41 Approved - Access No. 1 (Commercial Access/Naples Reserve)	Required Improvements EB Right Ingress Turn Lane (free-flow condition)	Required Storage None	Existing <u>Improvements</u> None
	WB Left Ingress Turn Lane	50'	None
	Two (2) outbound lanes (separate left & thru/right)	50' each	None
Approved - Access No. 2 (Sandpiper/Greenway)	Traffic Signal (if warranted)		None
(Surappor/Grochway)	Right Ingress Turn Lane	50'	380' in length
	Left Ingress Turn Lane	50'	405' in length
	Two (2) outbound lanes (separate left & thru/right)	50' each	3 Outbound Lanes
Proposed - Access No. 3 (Commercial Right-In/Out Access)	Right Ingress Turn Lane (free-flow condition)	None	405' in length
	One (1) outbound lane	50'	None
Proposed - Access No. 4 (Residential Full Access)	Right Ingress Turn Lane (free-flow condition)	None	None
	One (1) outbound lane	50'	None

Site Access Improvements - S.R. 951

As part of the DRI's NOPC, the Florida Department of Transportation (FDOT) requested that a summation of the "required" vs. "completed" site-related improvements be provided for those points of access on S.R. 951, which has been provided below.

Site Access & S.R. 951 Championship Road	Required Improvements NB Right Ingress Turn Lane	Existing Limprovements Completed
	SB Left Ingress Turn Lane	Completed
Commercial Tract Access	NB Right Ingress Turn Lane	Completed
	SB Left Ingress Turn Lane	Completed
Fiddler's Creek Pkwy	NB Right Ingress Turn Lane	Completed
	SB Left Ingress Turn Lane	Completed
	Two (2) outbound lanes (separate left & right)	Completed
	Traffic Signal	Completed

Scope of Project

Fiddler's Creek is an approved/vested DRI that is located south of U.S. 41 and east of Collier Boulevard within Collier County, Florida. The project is currently approved for the development of 3,000 single-family dwelling units, 3,000 multi-family units, 90-hole golf course, various types of residential amenities/recreation areas, and 325,000 square feet of commercial/retail land uses (includes up to a 150-room hotel at a equivalency rate of 1 room/215.4 s.f. of commercial/retail land use). A portion of all the land uses have been constructed, but none are built-out.

It is being proposed to relocate/construct 67,000 +/- square feet of commercial/retail land use on the southeast corner of the project's approved access that will be aligned with the existing intersection of Naples Reserve Boulevard & Tamiami Trail. This access will only provide ingress/egress for the proposed commercial land uses. The residents of Fiddler's Creek will be provided access to this commercial site via an internal interconnection. Therefore, residents of Fiddler's Creek will not need to travel on the adjacent arterials in order to access this commercial site.

It is being proposed to relocate/construct 198,000 +/- square feet of commercial/retail land use on the southeast corner of the project's existing full access (i.e., Sandpiper Drive & Tamiami Trail). Sandpiper Drive is aligned with Greenway Road which intersects Tamiami Trail from the north. Sandpiper Drive currently provides ingress/egress to the residents and will also provide full access to the proposed adjacent commercial uses. In addition, a right-in/out access for the commercial site will be constructed to the southeast of Sandpiper Drive. The residents of Fiddler's Creek will be provided access to this commercial site via an internal interconnection. Therefore, residents of Fiddler's Creek will not need to travel on the adjacent arterials in order to access this commercial site.

There is 30,400 +/- square feet of commercial/retail that has been constructed along Collier Boulevard and the remaining balance of commercial/retail land use (i.e., 30,000 square feet) will also be developed along Collier Boulevard.

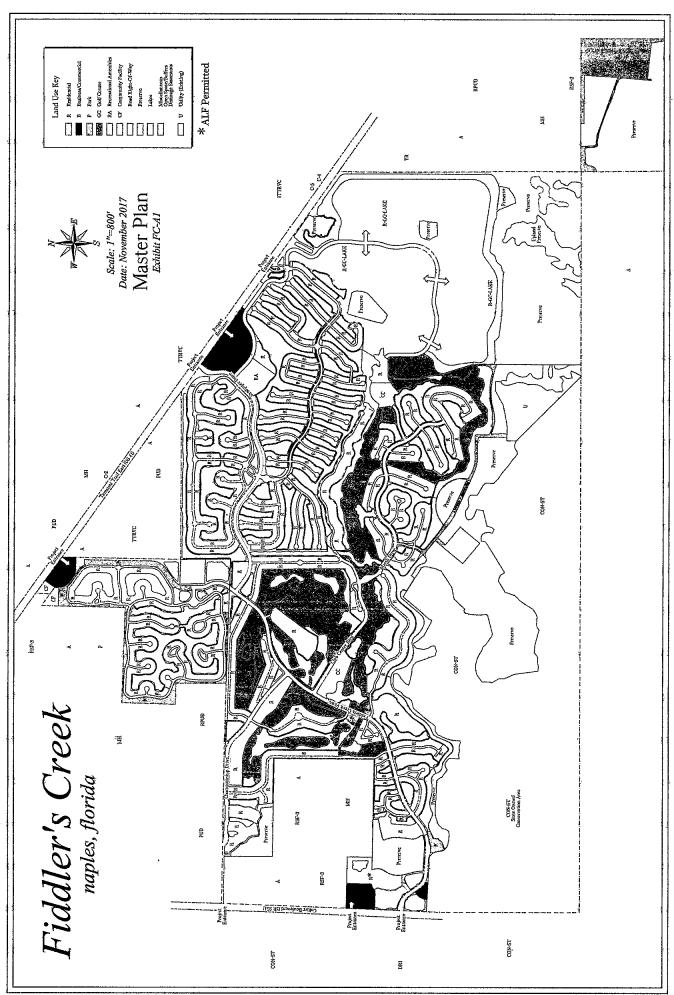
It is also being proposed to construct a full access further to the southeast of Sandpiper Drive that will serve the community's residents in the southeast most areas of Fiddler's Creek.

The project's previously approved points of access to Collier Boulevard, which serve both residential and commercial land uses, will remain intact.

Table A
Approved/Vested Land Uses

	Number of Units
Land Use	or
	Gross Square Feet
Single-Family	3,000 d.u.'s
Multi-Family	3,000 d.u.'s
** Commercial/Retail	325,000 s.f.
(includes up to 150 room hotel)	(hotel = 1 room/215.4 sf)
Golf Course	90 Holes

^{**} Commercial/retail includes up to 150-room hotel at a equivalency rate of 1 room/215.4 sf of commercial/retail. Refer to table 2 in the appendix for trip generation equivalency computations.



Vested Site-Generated Trips

Traffic that can be expected to be generated by the project was previously established by David Plummer & Associates (refer to page 6.1 - Exhibit 5) based upon the trip rates provided by ITE's Trip Generation Manual, 6th Edition. At that time, the internal capture and pass-by adjustments were also agreed to by the applicable governmental agencies and the results of those adjustments are depicted in Exhibit 5. (Refer to pages A13 thru A17 for computations performed in determining the project generated trips.) A summary of the vested new site-generated trips is provided in Table B.

Table B Vested Site-Generated Trips(Summation of Exhibit 5 - ITE 6th Edition)

PM New Peak Hour	PM New Peak Hour	PM New Peak Hour
Two-Way Trips	Entering Trips	Exiting Trips
(vph)	(vph)	(vph)
3,265 Enter/Exit	1,985 Enter	

Hotel Land Use vs. Commercial/Retail Trips Equivalency

The DRI was approved for a 150-room hotel which is part of the total build-out of commercial land uses. If a hotel is constructed, then it will displace commercial/retail based upon a trips equivalent rate. More specifically, a trip generation equivalency factor shall be used to convert allowable commercial land uses for hotel. Table 1 reflects the equivalency factor of 1 room/215.4 s.f. of commercial land uses. As an example, if a 150 room hotel were to be constructed, then the total amount of approved commercial land uses will be reduced by 32,300 s.f., and if a 90-room hotel were to be constructed then the total amount of approved commercial land uses will be reduced by 19,385 s.f.

Table C
Trips Equivalency
(Summation of Table 1)

Hotel	Commercial Retail
1 Room	215.4 s.f.

EXHIBIT 5

FIDDLER'S CREEK (A)

TRIP GENERATION CALCULATION (Current Development Parameters – 6,000 Dwelling Units – and New Trip Generation Calculations (1))

			PN	1 Peak Ho	our	
Land Use	<u>Size</u>		<u>In</u>	Out	Total	24-Hour
Single-Family	3,000 d.u.	Total	1,472	828	2,300	23,691
		Internal ⁽²⁾	353	199	552	5,686
		External	1,119	629	1,748	18,005
Multifamily	3,000 d.u.	Total	685	338	1,023	11,724
		Internal ⁽²⁾	164	81	245	2,862
		External	521	257	778	8,862
Business/Commercial	325,000 s.f. ⁽³⁾	Total	656	711	1,367	14,545
	·	Internal (2)	131	142	273	2,909
		External	525	569	1,094	11,636
		Pass-By (4)	202	202	404	3,025
		Net New	323	367	690	8,611
Golf	90 holes	Total	109	138	247	3,217
		Internal	87	111	198	2,574
		External	22	27	49	643
TOTAL		Total	2,922	2,015	4,937	53,177
		Internal	735	533	1,268	14,031
		External	2,187	1,482	3,669	39,146
		Pass-By	202	202	404	3,025
		Net New	1,985	1,280	3,265	36,121

Footnotes:

- Exhibit taken from the report titled Fiddler's Creek DRI Notice of Proposed Change Traffic Study and dated April 26, 2000.
- ITE, Trip Generation, Sixth Edition.
 Internal orientation based on prior NOPC Traffic Study.
- (1) (2) (3) (4) Considered as commercial.
- Pass-by derived from prior NOPC Traffic Study.



TABLE 1

TRIP GENERATION EQUIVALENCY COMPUTATIONS Fiddler's Creek DRI - NOPC

Lanc	l Use
------	-------

Land Use Description Code

Build Schedule

310 Hotel 150 Rooms

820 **Shopping Center** 325,000 s.f.

Land Use Code

Trip Period

Trip Generation Equation

Total Trips Trips Enter/Exit

LUC 310 PM Peak Hour (vph) = T = 0.70(X) =

105 vph 51 / 54 vph.

49% Enter/ 51% Exit =

LUC 820 PM Peak Hour (vph) = Ln(T) = 0.67Ln(X)+3.31 =48% Enter/ 52% Exit =

1,320 vph

633 / 686

vph

Adjusted for Internal Capture =

20% Internal

1,056 vph

507 / 549 vph

Averaged Trip Rate

Hotel = 0.70 Trip/Room

Retail/Commercial = (1,056 trips/325 ksf) = 3.25 Trip/1 ksf

Equivalency Trip Rate

1 Hotel Room = 215.4 s.f. of Retail/Commercial

1st Example Computations - 150 Rooms @ 0.70 trips/room = 105 vph

& 32,300 s.f. of Retail/Commerical @ 3.25 Trip/ 1ksf = 105 vph

Therefore: 32,300 s.f. of Retail/Commercial/150 Rooms = 215.4 s.f./1 room

2nd Example Computations - 90 Rooms @ 0.70 trips/room = 63 vph

& 19,385 s.f. of Retail/Commerical @ 3.25 Trip/ 1ksf = 105 vph

Therefore: 19,385 s.f. of Retail/Commercial/90 Rooms = 215.4 s.f./1 room

For informational purposes, this report includes trips estimated for the DRI based upon the ITE's Trip Generation Manual, 9th Edition (See Table 2). The total estimated trips were adjusted for pass-by and internal capture using the same rates previously established for the DRI. The results are summarized below which reflect that the trips estimated based upon the 9th Edition are slightly fewer than the results based upon the 6th Edition. The more conservative values (6th Edition) will be used for the purpose of establishing needed site-related improvements.

Table D Site-Generated Trips (ITE 9th Edition - see Table 1)

PM New Peak Hour	PM New Peak Hour	PM New Peak Hour
Two-Way Trips	Entering Trips	Exiting Trips
(vph)	(vph)	(vph)
3,152 Enter/Exit	1,908 Enter	1,244 Exit

TABLE 2

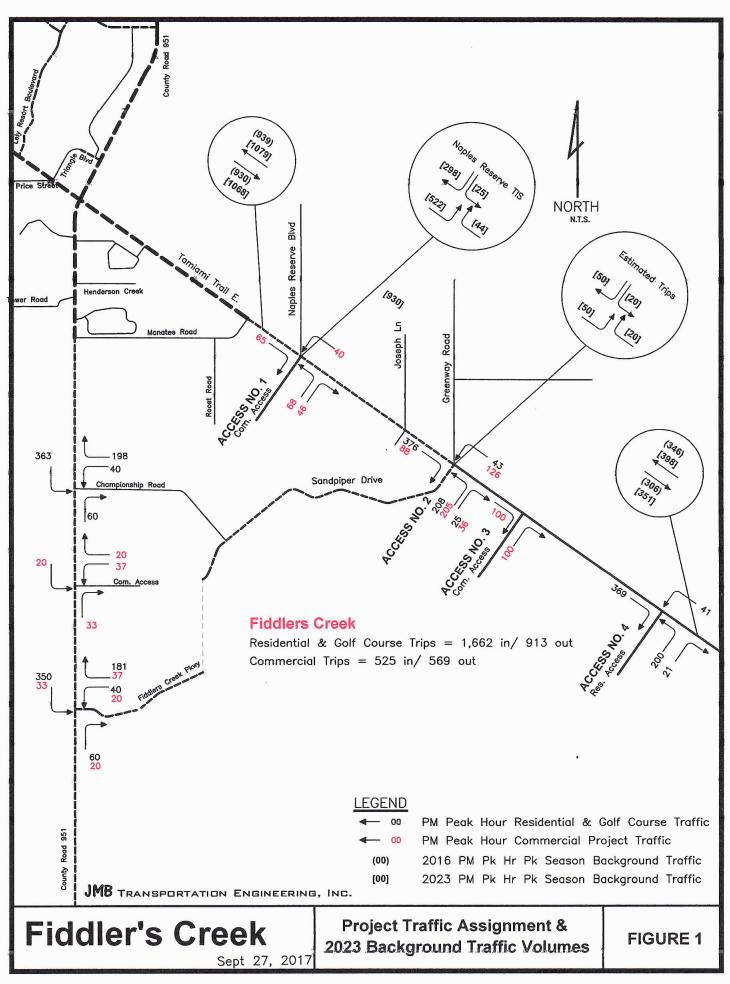
TRIP GENERATION COMPUTATIONS <u>Fiddler's Creek DRI - NOPC</u>

Land Use	•				
<u>Code</u>	Land Use Description	<u>Build Schedu</u>	l e		
210	Single-Family Detached Housin	g 3,000 U	— Inits		
230	Residential Condo/Townhouse	3,000 U	Inits		
820	Shopping Center	325,000 s	.f.		
	Golf Course	90 H	oles		
Land Use					
<u>Code</u>	Trip Period	Trip Generation Equation	<u>Total Trips</u>	Trips Enter/Exit	<u>t</u>
LUC 210	PM Peak Hour (vph) =	Ln(T) = 0.90Ln(X)+0.51 = 63% Enter/ 37% Exit =	2,243 vph	1413 / 830	vph
*****	Adjusted for Internal Capture = *************	24% Internal ***********	1,705 vph	1,074 / 631	vph
LUC 230	PM Peak Hour (vph) =	Ln(T) = 0.82Ln(X)+0.32 = 67% Enter/ 33% Exit =	978 vph	655 / 323	vph
*****	Adjusted for Internal Capture = ***************	24% Internal *************	743 vph ********	498 / 245 ***	vph
LUC 820	PM Peak Hour (vph) =	Ln(T) = 0.67Ln(X)+3.31 = 48% Enter/ 52% Exit =	1,320 vph	633 / 686	vph
	Adjusted for Internal Capture =	20% Internal	1,056 vph	507 / 549	vph
	Adjusted for Pass-by =	38% Internal	655 vph	314 / 340) vph
	************	**********	******	***	•
Golf	PM Peak Hour (vph) =		247 vph	109 / 138	vph
******	Adjusted for Internal Capture = ***********************************	80% Internal	49 vph *******	22 / 28 ***	vph
******	***********	**********	******	***	
	Total External Trips	PM Peak Hour (vph) =	3,553 vph	2,101 / 1,453	vph
	Total New External Trips	PM Peak Hour (vph) =	3,152 vph	1,908 / 1,244	vph

Reassignment of Project Traffic

As previously mentioned, there will be no change in the type, number or size of the previously approved/vested land uses within Fiddlers Creek DRI. Therefore, there will be no increase in site-generated trips and no increase in off-site transportation impacts. However, the relocation of a portion of the commercial land uses from the Collier Boulevard corridor over to Tamiami Trail will result in a change in the previously estimated ingress/egress movements at the project's accesses on both of the adjacent arterials. Figure 1 provides a detail of the expected site access turning movement volumes at build-out of Fiddler's Creek as a result of relocating a portion of the commercial land uses and the proposed access modifications.

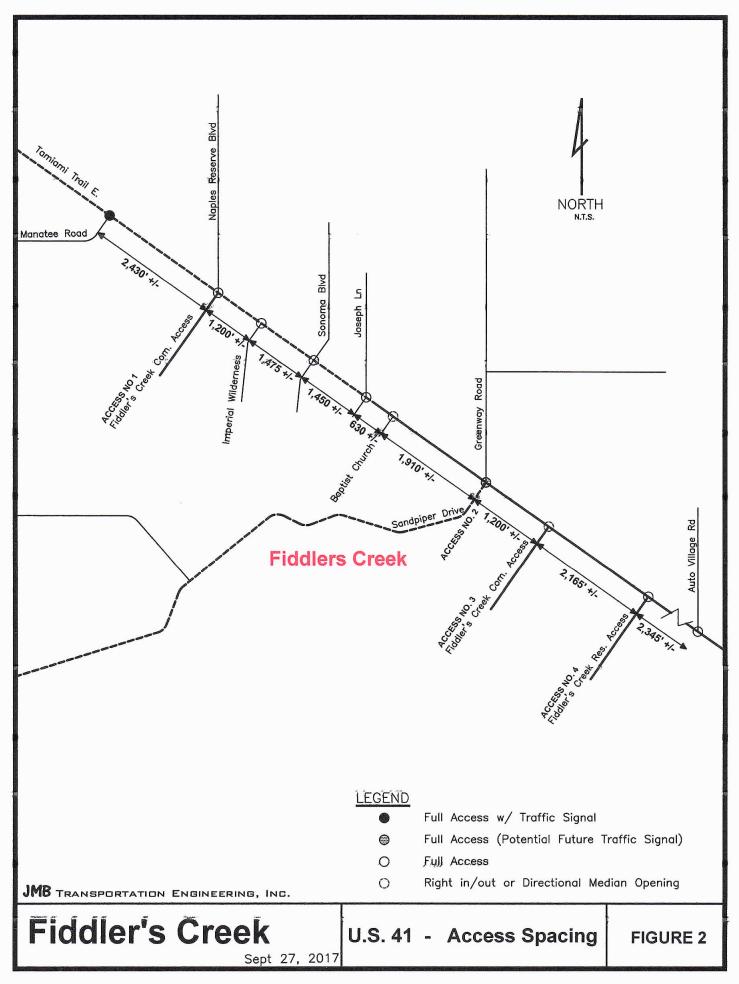
It should be noted that redistribution of a portion of the project's commercial trips from the more heavily traveled Collier Boulevard (south of Tamiami Trail) to the less traveled Tamiami Trail (recently widened to six lanes) will relieve some pressure on the more critical segment of Collier Boulevard. The relocation of commercial land uses will also better serve other existing and planned residential communities to the immediate north and to the east that currently travel to the more commercially developed areas to the west. Therefore, the net effect of relocating a portion of the approved commercial land uses will be a benefit to the public in both convenience and reducing traffic demands on more heavily traveled roadways.



Site Access/Intersection Separation

As part of the DRI's NOPC, the Florida Department of Transportation requested that the distance between the project's points of access and nearest intersecting street/access be summarized and compared to their intersection separation criteria along U.S. 41. Figure 2 depicts the site access spacing which has been summarized below.

Site Access & U.S. 41 (Class 3) Approved - Access No. 1 (Full Access/Naples Reserve)	Closest Intersection Manatee Road (west) (Full - Signal)	Required Spacing 2,640'	Existing Spacing 2,430' +/-
	Imperial Wilderness (east) (Full Access)	2,640'	1,200' +/-
Site Access & U.S. 41 (Class 4) Approved - Access No. 2 (Full Access - Sandpiper/Greenway)	First Baptist Church (west) (Directional Left)	660'	1,910' +/-
	Joseph Lane (west) (Full Access)	660!	2,540' +/-
	Proposed Access No. 3 (east) (right-in/out)	660'	1,200' +/-
Proposed - Access No. 3 (Commercial Right-In/Out Access)	Sandpiper/Greenway (west) (Full Access)	660'	1,200 +/-
	Proposed Access No. 4 (east) (Full Access)	660'	2,165' +/-
Proposed - Access No. 4 (Residential Full Access)	Proposed Access No. 3 (west) (right-in/out)	660'	2,165' +/-
	Auto Village Rd (east) (Full Access)	660'	2,345' +/-



Site Access Improvements - U.S. 41

As part of the DRI's NOPC, the Florida Department of Transportation (FDOT) requested that a reevaluation of needed site-related improvements be performed for those points of access on U.S. 41 based upon the anticipated increase in traffic demands at those locations. The report performed the analysis based upon 2023 project build-out traffic conditions. The 2023 background traffic were estimated based upon traffic counts obtained within proximity of the site and adjusted for peak season conditions. An annual growth rate of 2% was used to forecast future traffic demands.

U.S. 41 has a posted speed limit of 60 MPH and pursuant to FDOT Index No. 301, the required turn lane length (taper + deceleration) is 405'. The vehicle storage determinations for each of the access points were based upon the use of the Highway Capacity Manual's software (refer to pages A1 thru A3 in the appendix) and the results are summarized below.

Site Access & U.S. 41 Approved - Access No. 1 (Commercial Access/Naples Reserve)	Required Improvements EB Right Ingress Turn Lane (free-flow condition)	Required Storage None	Existing <u>Improvements</u> None
	WB Left Ingress Turn Lane	50'	None
	Two (2) outbound lanes (separate left & thru/right)	50' each	None
Approved - Access No. 2 (Sandpiper/Greenway)	Traffic Signal (if warranted)		None
(Sandpiper/Greenway)	Right Ingress Turn Lane	50'	380' in length
	Left Ingress Turn Lane	50'	405' in length
	Two (2) outbound lanes (separate left & thru/right)	50' each	3 Outbound Lanes
Proposed - Access No. 3 (Commercial Right-In/Out Access)	Right Ingress Turn Lane (free-flow condition)	None	405' in length
	One (1) outbound lane	50'	None
Proposed - Access No. 4 (Residential Full Access)	Right Ingress Turn Lane (free-flow condition)	None	None
	One (1) outbound lane	50'	None

Site Access Improvements - S.R. 951

As part of the DRI's NOPC, the Florida Department of Transportation (FDOT) requested that a summation of the "required" vs. "completed" site-related improvements be provided for those points of access on S.R. 951, which has been provided below.

Site Access & S.R. 951 Championship Road	Required Improvements NB Right Ingress Turn Lane	Existing Improvements Completed
	SB Left Ingress Turn Lane	Completed
Commercial Tract Access	NB Right Ingress Turn Lane	Completed
	SB Left Ingress Turn Lane	Completed
Fiddler's Creek Pkwy	NB Right Ingress Turn Lane	Completed
	SB Left Ingress Turn Lane	Completed
	Two (2) outbound lanes (separate left & right)	Completed
	Traffic Signal	Completed

APPENDIX

Support Documents

APPENDIX

Support Documents

	TW	O-WAY STOP	CONTR	ROL S	JMMARY			. i	
General Information)		Site	Inform	nation				
Analyst	JMB Trai	nsportation	Inters	ection		Access N	lo. 1		
Agency/Co.			Juriso	diction	***************************************				
Date Performed	10/11/20	17	Analy	sis Yea	ır	2023 Pro	ject Build	-Out	
Analysis Time Period	PM Peak	hour				,			
Project Description	 				 				
East/West Street: U.S.	41		North	/South	Street: Site A	ccess/Naple	es Reserv	'e	
Intersection Orientation:	East-West		Study	Period	(hrs): 0.25				
Vehicle Volumes an	d Adiustme	nts							
Major Street		Eastbound				Westbou	ınd	 	
Movement	1	2	3		4	5		6	
·	L	Т	R		L	Т		R	
Volume (veh/h)	522	850	65		40	900		44	
Peak-Hour Factor, PHF	0.95	0.95	0.9	5	0.95	0.95	-	0.95	
Hourly Flow Rate, HFR (veh/h)	549	894	68	}	42	947		46	
Percent Heavy Vehicles	0	34-14h			0				
Median Type				Raise	d curb				
RT Channelized			0)				0	
Lanes	1	2	1		1	2		1	
Configuration	L	T	R		L	T		R	
Upstream Signal		0				0			
Minor Street		Northbound				Southbou	ınd		
Movement	7	8	9		10	11		12	
	L	Т	R		L	Т		R	
Volume (veh/h)	68	1	46	;	25	1		44	
Peak-Hour Factor, PHF	0.95	0.95	0.9	5	0.95	0.95		0.95	
Hourly Flow Rate, HFR (veh/h)	71	1	48	3	26	1		46	
Percent Heavy Vehicles	0	0	0		0	0		0	
Percent Grade (%)	*	0				0			
Flared Approach		N				N	•		
Storage		0	1		· · · · · · · · · · · · · · · · · · ·	0		· · · · · · · · · · · · · · · · · · ·	
RT Channelized			1 0)	. · · · · · · · · · · · · · · · · · · ·			0	
Lanes	1	1	0		1	1		0	
Configuration	 		TF	?	L	1	- -	TR	
Delay, Queue Length, a	and Level of S	ervice		·	<u> </u>				
Approach	Eastbound	Westbound	<u> </u>	Northb	ound		outhboun	d	
Movement	1	4	7	8		10	11	12	
Lane Configuration	1	L	Ĺ	 	TR	L	 	TR	
v (veh/h)	549	42	71		49	26		47	
C (m) (veh/h)	704	724		1	0			0	
//c	0.78	0.06		1					
95% queue length	7.63	0.18		1					
Control Delay (s/veh)	25.8	10.3							
LOS	D	В			F			F	
Approach Delay (s/veh)							•		
Approach LOS					· · · · · · · · · · · · · · · · · · ·		·		

Copyright © 2010 University of Florida, All Rights Reserved

HCS+TM Version 5.6

Generated: 10/11/2017 8:27 AM

	TW	O-WAY STOP	CONTRO	OL SI	JMMARY			i		
General Information			Site Ir	nform	ation		• • • • • • • • • • • • • • • • • • • •			
Analyst	JMB Tran	sportation	Interse	ction		Access N	lo. 2			
Agency/Co.			Jurisdi							
Date Performed	10/11/201	17	Analys		r	2023 Pro	ject Build-	Out		
Analysis Time Period	PM Peak			***	· · · · · · · · · · · · · · · · · · ·		<u></u>			
Project Description										
East/West Street: U.S.	41	, , , , , , , , , , , , , , , , , , , 	North/S	South S	Street: Sand	piper/Greenv	vav	** 		
Intersection Orientation:	East-West		Study F							
Vehicle Volumes an		nts	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				· .		
Major Street	1	Eastbound			 	Westbou	nd			
Movement	1	2	3		4	5		6		
	L	T	R		L	T		R		
Volume (veh/h)	50	510	457		167	650		20		
Peak-Hour Factor, PHF	0.95	0.95	0.95		0.95	0.95		0.95		
Hourly Flow Rate, HFR			,				W			
(veh/h)	52	536	481		175	684		21		
Percent Heavy Vehicles	0	jain Pau			0					
Median Type				Raise	d curb		<u></u>			
RT Channelized			0					0		
Lanes	1	2	1		1	2		1		
Configuration	L	T	R		L	T		R		
Upstream Signal		0				0		· · · · · · · · · · · · · · · · · · ·		
Minor Street		Northbound				Southbou	ınd			
Movement	7	8	9		10	11		12		
		Т	R		L	Т		R		
Volume (veh/h)	405	5	57		20			50		
Peak-Hour Factor, PHF	0.95	0.95	0.95		0.95	0.95		0.95		
Hourly Flow Rate, HFR	-									
(veh/h)	426	5	60		21	1		52		
Percent Heavy Vehicles	0	0	0		0	0		0		
Percent Grade (%)		0				0				
Flared Approach		N				N				
Storage		0				0				
RT Channelized			0			· · · · · · · · · · · · · · · · · · ·		0		
Lanes	1	1	0		1	1		0		
Configuration	Ĺ		TR		L	<u> </u>		TR		
Delay, Queue Length, a		orvico								
Approach	Eastbound	Westbound	l i	Vorthb	ound	T s	outhbound	4		
Movement	1	4	7	8		10	11	12		
Lane Configuration	1	7	Ľ		TR			TR		
v (veh/h)	52	175	426		65	21		53		
C (m) (veh/h)	902	690	166		572	140	<u> </u>	606		
v/c	0.06	0.25	2.57		0.11	0.15		0.09		
95% queue length	0.18	1.00	36.84	 	0.38	0.51		0.29		
Control Delay (s/veh)	9.2	12.0	765.4	 	12.1	35.2		11.5		
LOS	A.2	B	F B			E B				
Approach Delay	, i									
(s/veh)				665	. /	18.2				
Approach LOS	==			F		С				
Copyright © 2010 University of	f Florida. All Righ	ts Reserved	н	CS+ TM	Version 5.6	Generate	d: 10/11/20	17 8:39 A		

		TWO	D-WAY STOR	CONTR	ROL S	UMMARY	 		·		
General Information	n	· · · · · · · ·		Site	nform	nation					
Analyst	Ū	MB Tran	sportation	Inters	ection		Access I	Vo. 4			
Agency/Co.				Juriso	diction			· · · · · · · · · · · · · · · · · · ·	***************************************		
Date Performed	1	0/11/201	7	Analy	sis Yea	ar	2023 Pro	ject Buil	d-Out		
Analysis Time Period	F	PM Peak	hour								
Project Description								· · · · · · · · · · · · · · · · · · ·			
East/West Street: U.S.	41			North	South	Street: Site	ccess No. 4	4			
Intersection Orientation:		t-West				(hrs): 0.25		<u>- </u>			
Vehicle Volumes ar			nte								
Major Street	1 74	Justinei	Eastbound				Westbound				
Movement		1	2	3		4	7 Vesibor	21 TG	6		
11.010711011			1 7	R		1	 		R		
Volume (veh/h)	 		351	369		41	398		11		
Peak-Hour Factor, PHF	-	0.95	0.95	0.9		0.95	0.95		0.95		
Hourly Flow Rate, HFR											
(veh/h)		0	369	388	វ	43	418	1	0		
Percent Heavy Vehicles		0	Person			0					
Median Type					Raise	d curb					
RT Channelized				0					0		
Lanes		0	1	1		1	1		0		
Configuration			T	R		L	T				
Upstream Signal			0				0				
Minor Street			Northbound				Southbo	ınd			
Movement		7	8	9		10	11	1	12		
		Ī.	T	R		L	T		R		
Volume (veh/h)		200		46					1 1		
Peak-Hour Factor, PHF		0.95	0.95	0.9		0.95	0.95		0.95		
Hourly Flow Rate, HFR (veh/h)		210	0	48		0	- 0		0		
Percent Heavy Vehicles		0	0	0		0	1 0		0		
Percent Grade (%)			0	 			0				
Flared Approach			T N				N				
Storage			0				0				
RT Channelized				0			 		0		
Lanes		1	1 0	1							
Configuration		1		R		0	0		0		
Delay, Queue Length, a	nd I c	vol of Sa	nvico	1 //			<u> </u>		· · · · · · · · · · · · · · · · · · ·		
Approach	Eastb		Westbound	<u> </u>	Northbo	aund .	1	ططفر رم			
Movement	Lasib	1	4	7	8	ound 9	· · · · · · · · · · · · · · · · · · ·	outhbou			
Lane Configuration			7	<u> </u>	1 0	R	10	11	12		
v (veh/h)	- mit.m		43	210	 	48					
C (m) (veh/h)			863	·		681			-		
v/c			0.05			0.07					
95% queue length			0.16	2.64	 	0.07					
Control Delay (s/veh)			9.4	21.2	 	10.7					
LOS			A. A	C C	 	B					
Approach Delay (s/veh)	-))==			19.3				<u> </u>		
Approach LOS			==		С		 				
<u> </u>				L		·	<u> </u>				

Copyright © 2010 University of Florida, All Rights Reserved

HCS+[™] Version 5.6

Generated: 10/11/2017 8:32 AM

INTERSECTION TURNING MOVEMENT COUNTS

Intersection:

Manatee Road & U.S. 41

Date of Count:

2/9/2016

Tuesday

					-									
1	E	astboun	d	W	estbour/	nd	Nort	hbound] k	So	uthbou	nd	- 1	Total All
AM Period	L	Ţ	<u>R</u>	L	I	<u>R</u>	L	T	R	L	I	<u>R</u>	l	Apprch's
7:00 - 7:15	0	82	18	18	95	0	19	0	14	0	0	0		246
7:15 - 7:30	0	105	27	31	112	0	26	0	18	0	0	0	- 1	319
7:30 - 7:45	0	148	32	40	162	0	18	0	12	0	0	0		412
7:45 - 8:00	0	155	47	40	187	0 [27	0	11	0	0	0	I	467
8:00 -8:15	0	167	52	46	175	0	35	0	25	0	0	0	1	500
8:15 -8:30	0	143	44	39	191	0	34	0	17	0	0	0	Ī	468
8:30 - 8:45	0	162	36	23	218	0	21	0	11	0	0	0	Ì	471
8:45 - 9:00	0	142	28	28	209	0	27	0	21	0	0	0	1	455
l				1		l			. [
AM Totals	0		284	265	1349	0 [207	0	129	0	0		0	3338
Approach %		79.5%	20.5%	•	83.6%	0.0%	61.6%	0.0%	38.4%				-	
% / Lane	0.0%		8.5%	7.9%		0.0%	6.2%	0.0%	3.9%				- 1	
% / Inter.		41.6%			48.4%			10.1%						
,	-	aethoun	d	i \A	/oethour	. d 1	Nort	hhaun	4 !	90	uthhau	n d	1	
PM Period		astboun		•	estbour/			hbound	•		uthbou T		ļ	
PM Period 4:00 - 4:15	L	I	<u>R</u>	İ <u>L</u>	Ţ	<u>R</u> i	L	Ţ	<u>R</u>	<u>L</u>	I	<u>R</u>]	387
4:00 - 4:15	<u>L</u> 0	<u>I</u> 133	<u>R</u> 19	<u>L</u> 13	<u>T</u> 198	<u>R</u>	<u>L</u> 12	<u>T</u> 0	<u>R</u> 12	<u>L</u> 0	<u>T</u> 0	<u>R</u> 0	-	387 467
4:00 - 4:15 4:15 - 4:30	<u>L</u> 0 0	<u>T</u> 133 179	<u>R</u> 19 21	<u>L</u> 13 11	<u>T</u> 198 222	<u>R</u> 0 0	<u>L</u> 12 15	<u>T</u> 0 0	R 12 19	0 0	<u>T</u> 0 0	<u>R</u> 0 0		467
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45	<u>L</u> 0 0 0	<u>T</u> 133 179 196	<u>R</u> 19 21 17	<u>L</u> 13 11	<u>T</u> 198 222 219	R 0 0 0	<u>L</u> 12 15 23	<u>T</u> 0 0 0	R 12 19 21	0 0 0	<u>T</u> 0 0 0	<u>R</u> 0 0		467 490
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00	<u>L</u> 0 0	<u>T</u> 133 179 196 206	<u>R</u> 19 21 17 14	<u>L</u> 13 11 14 14	<u>T</u> 198 222	<u>R</u> 0 0	<u>L</u> 12 15 23 22	<u>T</u> 0 0 0	R 12 19 21 22	<u>L</u> 0 0 0	<u>T</u> 0 0 0	<u>R</u> 0 0 0	 	467 490 491
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15	<u>L</u> 0 0 0 0	<u>T</u> 133 179 196 206 209	<u>R</u> 19 21 17 14 12	<u>L</u> 13 11 14 14 12	<u>T</u> 198 222 219 213 208	R 0 1 0 0	<u>L</u> 12 15 23 22 19	<u>T</u> 0 0 0 0	R 12 19 21 22 14	0 0 0 0	<u>T</u> 0 0 0 0	R 0 0 0 0	 	467 490 491 474
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15 5:15 - 5:30	<u>L</u> 0 0 0 0 0	<u>T</u> 133 179 196 206 209 229	R 19 21 17 14 12 16	<u>L</u> 13 11 14 14 12 15	T 198 222 219 213 208 231	R 0 1 0 0	<u>L</u> 12 15 23 22 19 16	<u>T</u> 0 0 0 0 0 0 0	R 12 19 21 22 14 16	0 0 0 0 0	<u>T</u> 0 0 0 0 0	R 0 0 0 0 0		467 490 491 474 523
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15 5:15 -5:30 5:30 - 5:45 4:4	<u>L</u> 0 0 0 0 0	<u>T</u> 133 179 196 206 209 229 221	R 19 21 17 14 12 16 14	<u>L</u> 13 11 14 14 12 15 13	T 198 222 219 213 208 231 233	R 0 1 0 0	<u>L</u> 12 15 23 22 19 16 14	T 0 0 0 0 0	R 12 19 21 22 14 16 13	0 0 0 0 0	T 0 0 0 0 0	R 0 0 0 0 0 0		467 490 491 474 523 508
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15 5:15 - 5:30	<u>L</u> 0 0 0 0 0	<u>T</u> 133 179 196 206 209 229	R 19 21 17 14 12 16	<u>L</u> 13 11 14 14 12 15	T 198 222 219 213 208 231	R 0 1 0 0	<u>L</u> 12 15 23 22 19 16	<u>T</u> 0 0 0 0 0 0 0	R 12 19 21 22 14 16	0 0 0 0 0	<u>T</u> 0 0 0 0 0	R 0 0 0 0 0		467 490 491 474 523
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15 5:15 -5:30 5:30 - 5:45 4:4	<u>L</u> 0 0 0 0 0	<u>T</u> 133 179 196 206 209 229 221 185	R 19 21 17 14 12 16 14	. L 13 11 14 14 12 15 13	T 198 222 219 213 208 231 233	R 0 1 0 0	<u>L</u> 12 15 23 22 19 16 14	T 0 0 0 0 0	R 12 19 21 22 14 16 13	0 0 0 0 0	T 0 0 0 0 0	R 0 0 0 0 0 0	0	467 490 491 474 523 508
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15 5:15 -5:30 5:30 - 5:45 5:45 - 6:00	<u>L</u> 0 0 0 0 0	<u>T</u> 133 179 196 206 209 229 221 185	R 19 21 17 14 12 16 14 18	<u>L</u> 13 11 14 14 12 15 13 9	T 198 222 219 213 208 231 233 187	R	<u>L</u> 12 15 23 22 19 16 14	T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R 12 19 21 22 14 16 13 15	0 0 0 0 0	T 0 0 0 0 0 0	R 0 0 0 0 0 0	0	467 490 491 474 523 508 432
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15 5:15 - 5:30 5:30 - 5:45 5:45 - 6:00 PM Totals	L 0 0 0 0 0 0 0	133 179 196 206 209 229 221 185	R 19 21 17 14 12 16 14 18	<u>L</u> 13 11 14 14 12 15 13 9 101 5.6%	T 198 222 219 213 208 231 233 187	R	L 12 15 23 22 19 16 14 18	T 0 0 0 0 0 0 0	R 12 19 21 22 14 16 13 15 132	0 0 0 0 0	T 0 0 0 0 0 0	R 0 0 0 0 0 0	0	467 490 491 474 523 508 432
4:00 - 4:15 4:15 - 4:30 4:30 - 4:45 4:45 - 5:00 5:00 - 5:15 5:15 - 5:30 5:30 - 5:45 5:45 - 6:00 PM Totals Approach %	L 0 0 0 0 0 0 0	133 179 196 206 209 229 221 185 1558 92.2%	R 19 21 17 14 12 16 14 18	<u>L</u> 13 11 14 14 12 15 13 9 101 5.6%	T 198 222 219 213 208 231 233 187 1711 94.4%	R 0 0 0 0 0 0 0 0 0	L 12 15 23 22 19 16 14 18	T 0 0 0 0 0 0 0 0	R 12 19 21 22 14 16 13 15 132 48.7%	0 0 0 0 0	T 0 0 0 0 0 0	R 0 0 0 0 0 0	0	467 490 491 474 523 508 432

	Í	E	astboun	d l	W	estboui	nd 1	I Nort	hbound		ı	Southb	hauo	ı	•
	i	Ŀ	I	<u>.</u> R I	_ <u>L</u>	I	<u>R</u>		I	<u>R</u>	, <u> </u>	I	<u>R</u>	1	
AM Period	1			-]			1	
7:45- 8:45	1	0	613	175	165	715	0	114	0	65				I	1847
Approach %	1	0.0%	77.8%	22.2%	18.8%	81.3%	0.0%	63.7%	0.0%	36.3%				1	
	1			I				j						- 1	
PM Period	I			I											
4:45 - 5:45	1	0	865	56	54	885	0	71	0	65	l			J	1996
Approach %	1	0.0%	93.9%	6.1%	5.8%	94.2%	0.0%	52.2%	0.0%	47.8%	ŀ			- 1	

AM Peak Hour Factor =

0.92

PM Peak Hour Factor =

0.95

Intersection: Manatee Road & U.S. 41

Date of Count:

2/9/2016

2016 PEAK HOUR TURNING MOVEMENT VOLUMES

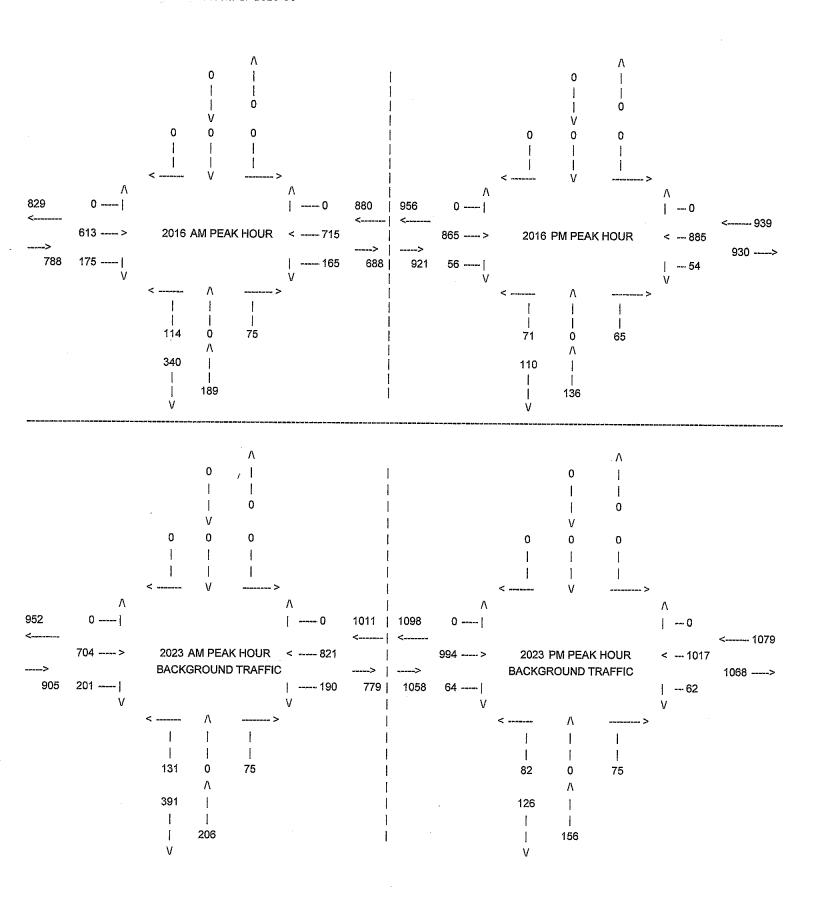
	1	Eastbound			1	W	/estbou	nd	1	Nor	thbound	I	l	Sc	Southbound		
	1	L	<u>T</u>	<u>R</u>	-	L	I	R	1	<u>L</u>	I	<u>R</u>	1	L	<u>T</u>	<u>R</u>	- 1
AM Period	1	0	613	175	-	165	715	0	1	114	0	65	ĺ	0	0	0	1
													1				
PM Period	1	0	865	56	- 1	54	885	0	1	71	0	65	1	0	0	- 0	- 1

2016 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

	3	Seasc	onal Adj	Seasor	nai .	Adjus	tment F	actor	=		1						
	1	E	astboun	d	1	V	/estboui	nd	1	Northbound				Sc	uthbou	nd	ı
		<u>L</u>	I	<u>R</u>	1	<u>L</u>	Ţ	<u>R</u>	1	L	<u>T</u>	<u>R</u>	ı	L	<u>T</u>	<u>R</u>	Ì
AM Period	I	0	613	175	I	165	715	0	1	114	0	65	1	0	0	0	Ī
	1				1								1				ı
PM Period	1	0	865	56	1	54	885	0	1	71	0	65	1	0	0	0	-

2023 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

				Annua	l Gr	owth	Rate =				2.0%						
	1	E	astboun	ıd	1	V	Vestbou	nd	١	Nor	thboun	d	-	Sc	nd	I	
		L	<u>T</u>	<u>R</u>	1	<u>Ļ</u>	I	<u>R</u>	l	<u>L</u>	I	<u>R</u>	1	L	<u>T</u>	<u>R</u>	1
AM Period	1	0	704	201	l	190	821	0	i	131	0	75	[0	0	0	١
					-				ŀ				I				
PM Period		0	994	64	-	62	1017	0	-	82	0	75		0	0	0	



INTERSECTION TURNING MOVEMENT COUNTS

Intersection:

Riggs Road @ Tamiami Trail East

Date of Count:

05/13/2014

Tuesday

	I	Ea	astboun	d	ŀ	W	estbour	nd	ı	No	rthbour	nd	l	Soi	uthbou	nd	i	
PM Period	ĺ	<u>L</u>	I	<u>R</u>	ŀ	L	I	<u>R</u>	1	<u>L</u>	T	<u>R</u>		<u>L</u>	I	<u>R</u>	1	
4:00 - 4:15	1	3	33	0		0	60	0	I	0	0	0	l	0	0	3	l	99
4:15 - 4:30	-	2	35	0	ł	0	57	1	1	0	0	0		1	0	2	I	98
4:30 - 4:45		4	49	0	İ	0	61	2	I	0	0	0	ĺ	0	0	2	I	118
4:45 - 5:00	1	3	55	0	1	0	66	1	1	0	0	0		0	0	0	1	125
5:00 - 5:15		3	54	0	I	0	60	0	1	0	0	0		1	0	3	J	121
5:15 -5:30		1	48	0	1	0	55	0	I	0	0	0	l	0	0	2	1	106
5:30 - 5:45	1	5	57	0	1	0	70	1	1	0	0	0	l	0	0	0		133
5:45 - 6:00	l	2	53	0	İ	0	66	0	١	0	0	0	ł	0	0	1	I	122
PM Totals	ı	23	384	C)	0	495	5	ı	0	0	0		2	0	13	1	922
Approach %	-	5.7%	94.3%	0.0%	Ì	0.0%	99.0%	1.0%	Ĺ				1:	3.3%	0.0%	86.7%	İ	
% / Lane	1	2.5%	41.6%	0.0%	1	0.0%	53.7%	0.5%	I	0.0%	0.0%	0.0%	(0.2%	0.0%	1.4%		
% / Inter.			44.1%				54.2%				0.0%				1.6%			

	1	E	astboun	d	1	٧	Vestbour	nd	1	No	orthbour	nd	ı	S	outhbou	nd	I	
	1	<u>L</u>	I	<u>R</u>	1	L	I	<u>R</u>		<u>L.</u>	I	<u>R</u>	l	L	I	<u>R</u>	1	
PM Period	1				-				-								1	
4:45 - 5:45	ı	12	214	0	1	0	251	2	1	0	0	0	I	1	0	5	1	485

PM Peak Hour Factor =

0.91

2014 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

				Seas	ona	Adju	stment	Facto	or=		1.3						
		E	astboun	d	l	V	Vestbou	nd	ſ	No	orthbou	nd	1	Sc	outhbou	ınd	1
	1	<u>L</u>	<u>T</u>	<u>R</u>	l	<u>L</u>	I	<u>R</u>	1	<u>L</u>	I	<u>R</u>	1	<u>L</u>	I	<u>R</u>	1
	1				1				[1				ı
PM Period		16	278	0	1	0	326	3	I	0	0	0	1	1	0	7	- 1

Intersection:

Riggs Road @ Tamiami Trail East

Date of Count:

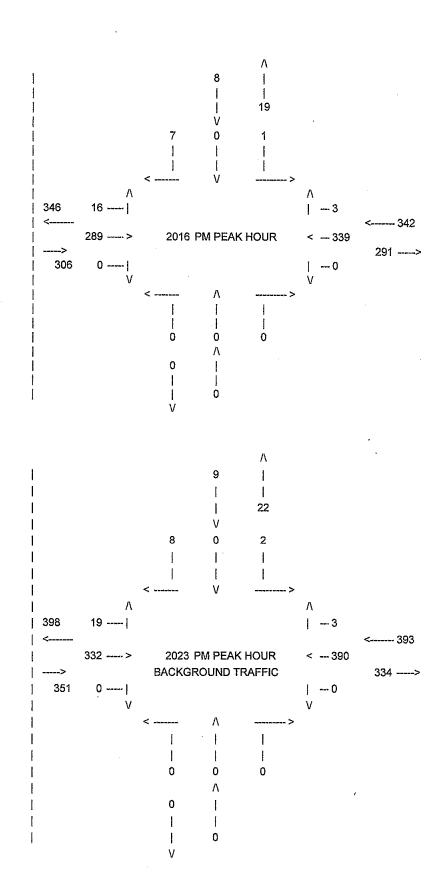
05/13/2014

2016 PEAK SEASON PEAK HOUR TURNING MO

				Annu	ıal G	rowt	h Rate =	=			2.0%						
	1	E	astboun	ıd	1	٧	Vestboui	nd	1	No	orthbou	nd	1	Sc	uthbou	ınd	1
	l	<u>L</u> ,	I	<u>R</u>	1	<u>L</u>	<u>T</u>	<u>R</u>	1	L	I	<u>R</u>	1	Ē	I	<u>R</u>	
	l				1				ı				ı				ı
PM Period		16	289	0	1	0	339	3	- 1	0	0	0		1	0	7	

2023 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

				Annu	al G	irowt	h Rate =	:			2.0%						
	-	E	astboun	d]	V	Vestbour	ıd	- 1	No	orthbou	nd	ı	Sc	uthbou	ınd	1
	1	L	Ţ	<u>R</u>		<u>L</u>	<u>T</u> .	<u>R</u>	1	<u>L</u>	I	<u>R</u>	İ	<u>L</u>	I	<u>R</u>	I
	ı				1				ſ				ı				ı
PM Period	ĺ	19	332	0	İ	0	390	3	İ	0	0	0	İ	2	0	8	i



FLORIDA DEPARTMENT OF TRANSPORTATION 2016 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COLLIER COUNTY: 03

				¥												
"T" FCTR	===== 6.8A	18.3P	3.0A	9.1P	14.5P	14.3P	3.2A	3.7A	3.5A	2.8P	3.1P	3.1P	5.4A	3.2P	6.6A	18.7A
"D" FCTR	===== 58.2F	58.2F	56.8F	57.4F	57.4F	54.0F	56.8F	56.8F	56.8F	56.8F	56.8F	57.4F	57.4F	57.4F	58.2F	57.4F
"K" FCTR	9.0	0.6	0.6	9.5	9.5	9.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	9.5
AADT TWO-WAY	12600 C	7100 F	45000 C	6100 F	1900 F	2500 F	43000 C	32500 C	42000 C	41000 C	61000 C	2200 F	48500 C	39500 C	16000 C	1450 C
DIRECTION 2	======================================	3600E	23000	3100E	900E	1300E	21000	16500	21000	20500	31000	1100E	24000	19500	8300	700
DIR	။ လ ။ ။	Ø	Z	M	ഗ	M	Z	×	M	Z	z	M	Ŋ	ß	田	Ø
DIRECTION 1	========= N 6200	3500E	22000	3000E	1000E	1200E	22000	16000	21000	20500	30000	1100E	24500	20000	7700	750
DIR		N	ß	闰	Z	田	Ø	闰	臼	ß	ß	闰	N	Z	M	Z
	SR 29, NORTH OF CR 890/LAKE TRAFFORD ROAD CC6	SR 29, SOUTHEAST OF CR 846/14TH STREET	SR 45/US 41, SOUTH OF CR 896/PINE RIDGE RD CC5	SR 90/US 41, NORTHWEST OF CR 92	SR 29, NORTHEAST OF SR 90/US 41 CC615	US 41, 200 FT. EAST OF CR-94	SR 45/US 41 NORTH OF CR 896, PINE RIDGE RD CC5	SR 90/US 41, NORTHWEST OF SR 951	SR 90/US 41 SE OF CR 864/RATTLESNAKE HAMMOCK CC5	SR 45/US 41, SOUTH OF CR 862/VAN BEACH RD CC563	SR45/US41, N OF CR846/IMMOKALEE RD/111TH AV CC56	NORTH RD, FROM TERMINAL DRIVE TO CR 31 CC692 N	CR 31/AIRPORT ROAD, S OF CR 886/GGATE PKWY CC53	CR 31/AIRPORT RD, S OF CR 896/PINE RIDGE RD CC	SR 29, WEST OF CR 846/1ST STREET CC664	SR 29, SOUTH OF SR 93/I 75 COLLIER COUN
	02 	91	0.1		<i>01</i>	_	51	o,	01	0 3	01	7	J	J	<i>5</i> 3	51
ы	0001	0000	0003	0002	9000	0011	0012	0014	0015	0017	0018	0025	0023	0024	0029	0031

: BLANK= PORTABLE; T= TELEMETERED : DEPARTMENT ADOPTED STANDARD K FACTOR BEGINING WITH COUNT YEAR 2011 : C= COMPUTED; E= MANUAL EST; F= FIRST YEAR EST; S= SECOND YEAR EST; T= THIRD YEAR EST; R= FOURTH YEAR EST; V= FIFTH YEAR EST; 6= SIXTH YEAR EST; X= UNKNOWN : A= ACTUAL; F= FACTOR CATG; D= DIST FUNCL; P= PRIOR YEAR; S= STATEWIDE DEFAULT; W= ONE-WAY ROAD; X= CROSS REF SITE TYPE "K" FACTOR AADT FLAGS

PAGE -01-

15-MAR-2017 14:57:18

622UPD

1_03_CAADT.TXT

[&]quot;D/T" FLAGS

FLORIDA DEPARTMENT OF TRANSPORTATION 2016 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COLLIER COUNTY: 03

"T" FCTR ===== 24.1P	12.3A	. 8 P	2.2A	6.4A	7.9A	2.9A	5.5A	8.5A	3.8A	12.7A	17.1P	12.0A	10.9A	9.95	9.3A
		22													
"D" FCTR ===== 58.2F	58.2F	58.2F	54.4F	54.4F	56.3A	56.8F	57.4F	57.4F	57.4F	58.2F	58.2F	. 55.1A	54.5A	56.1F	56.1F
"K" FCTR ==== 9.5	9.5	9.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	9.5	0.6	9.5	10.5	0.6	0.6
AADT TWO-WAY ====== 3200 F	12000 C	5200 F	21000 C	55000 C	80453 C	50000 C	23500 C	15200 C	27000 C	12800 C	6000 平	3026 C	24597 C	39500 C	72500 C
DIRECTION 2 ========= S 1600E	5900	2600E	10500	28500	40884	24000	12500	7400	13500	6400	3000臣	1561	12390	20000	37000
DIRE	M	ഗ	ß	ß	S	Z	M	М	M	×	ß	M	×	闰	Ø
DIRECTION 1 ======== N 1600E	6100	2600臣	10500	26500	39569	26000	11000	7800	13500	6400	3000m	1465	12207	19500	35500
IRE	田	z	Z	z	Z	S	ы	田	Ш	凶	Z	田	闰	M	Z
DIZ		_	_	_	_			400			М		,	-	_
	LC2 E	1		CC5 1		CCS		922	CCS		CC66 1				<u></u>
DESCRIPTION ====================================		SR-29, N OF SR-82	N COLLIER BLVD, N OF SAN MARCO RD		SR-93/I-75,0.5 MI N OF CR-896, COLLIER CO.		SR 84/DAVIS BLVD, WEST OF SR/CR 951 CC601			SR 82, WEST OF SR 29 CC661		SR-90/US-41,0.7 MI W OF CR-94, COLLIER CO.	SR-93/I-75, W OF EVERGLADES BLVD, COLLIER CO.	SR 93/I 75, WEST OF CR 951	SR 93/I-75, SOUTH OF CR 896/PINE RIDGE ROAD
CRIPTION	82, EAST OF HENDRY/COLLIER COUNTY LINE LC2	N OF SR-82	COLLIER BLVD, N OF SAN MARCO RD	951, NORTH OF SR 84 & SOUTH OF I-75/SR93 CC5	N OF CR-896, COLLIER CO.	NORTH CC5	84/DAVIS BLVD, WEST OF SR/CR 951 CC601	90/US 41, SOUTHEAST OF SR 951	84, WEST OF SANTA BARBARA BOULEVARD CC5	82, WEST OF SR 29 CC661	29, NORTH OF FARM WORKER'S VILLAGE CC66	W OF CR-94, COLLIER CO.	COLLIER CO.	93/I 75, WEST OF CR 951	RIDGE ROAD

SITE TYPE "K" FACTOR AADT FLAGS

: BLANK= PORTABLE; T= TELEMETERED
: DEPARTMENT ADOPTED STANDARD K FACTOR BEGINING WITH COUNT YEAR 2011
: C= COMPUTED; E= MANUAL EST; F= FIRST YEAR EST; S= SECOND YEAR EST; T= THIRD YEAR EST; R= FOURTH YEAR EST;
V= FIFTH YEAR EST; 6= SIXTH YEAR EST; X= UNKNOWN
: A= ACTUAL; F= FACTOR CATG; D= DIST FUNCL; P= PRIOR YEAR; S= STATEWIDE DEFAULT; W= ONE-WAY ROAD; X= CROSS REF "D/T" FLAGS

1_03_CAADT.TXT

FLORIDA DEPARTMENT OF TRANSPORTATION 2016 ANNUAL AVERAGE DAILY TRAFFIC REPORT - REPORT TYPE: ALL

COLLIER COUNTY: 03

"T" FCTR ===== 2.9A	11.7P	9.8P	3.6₽	2.8A	10.3A	4.6A	3.0P	3.8P	5.7A	15.3A	4.3P	3.2A	4.5P	4.3A	2.9P
"D" FCTR	54.0F	57.4F	56.8F	56.8F	58.2A	54.4F	57.4F	57.4F	57.4F	55.2F	57.4F	57.4F	57.4F	57.4F	56.8F
"K" FCTR =====	9 5	9.5	0.6	0.6	9.5	0.6	0.6	0.0	0.6	10.5	0.6	0.0	0.6	0.6	0.6
AADT TWO-WAY ======= 42286 C	3900 F	4600 F	38000 C	57000 C	16450 C	41500 C	38000 F	57500 F	13400 C	22500 C	46500 F	25000 C	32000 F	26000 C	38500 C
DIRECTION 2 ========= W 21408	2000臣	2300E	19000	29000	8267	20500	19000臣	29000臣	0069	11500	22500臣	12500	15500E	13000	19500
DIRE	W	M	×	M	മ	ಭ	Ø	×	×	ĭД	ໝ	W	Ŋ	M	Ħ
DIRECTION 1 ====================================	1900臣	2300E	19000	28000	8183	21000	19000日	28500臣	6500	11000	24000臣	12500	16500E	13000	19000
DIRE	凶	闰	闰	闰	z	Z	×	田	闰	¥	z	闰	·Z	囶	വ
DESCRIPTION	SR 90/US 41, EAST OF SR 29 CC616	SR 90/US 41, WEST OF SR 29 CC617	SR90/US41 W OF CR851/GOODLETTE (W OF 12TH ST) NP	SR 90/US 41, SOUTHEAST OF CR 851/GOODLETTE RD NP	SR 29,0.4 MI S OF SR-82, IMMOKALEE, COLLIER CO.	SR 951, SOUTH OF SR 90/US 41 CC557	CR 851, GOODLETTE RD, S OF CR896, P RIDGE RD CC5	PINE RIDGE RD, E OF CR 31/AIRPORT RD CC526 N	SR 84, EAST OF SANTA BARBARA BLVD CC560	SR 93/I 75, EAST OF SR 29 COLLIER COUNTY	CR 31/AIRPORT ROAD, N OF SR 84/DAVIS BLVD CC55	SR 84, EAST OF CR 31/AIRPORT ROAD CC5	CR 31/AIRPORT ROAD, S OF SR 84/DAVIS BLVD CC55	SR 84, WEST OF CR 31/AIRPORT ROAD CC5	SR-45/US-41, N OF CR 887/OLD US 41
SITE TYPE ==== T					E										
SITE ==== 0094	0104	0111	0123	0124	0143	0157	0158	0160	0170	0173	0175	9LT0 A	12	0178	0179

PAGE -03-

SITE TYPE : BLANK= PORTABLE; T= TELEMETERED
"K" FACTOR : DEPARTMENT ALOPTED STANDARD K FACTOR BEGINING WITH COUNT YEAR 2011
AADT FLAGS : C= COMPUTED; E= MANUAL EST; F= FIRST YEAR EST; S= SECOND YEAR EST; T= THIRD YEAR EST; R= FOURTH YEAR EST;

V= FIFTH YEAR EST; 6= SIXTH YEAR EST; X= UNKNOWN
"D/" FLAGS : A= ACTUAL; F= FACTOR CATG; D= DIST FUNCL; P= PRIOR YEAR; S= STATEWIDE DEFAULT; W= ONE-WAY ROAD; X= CROSS REF

FIDDLER'S CREEK DRI NOTICE OF PROPOSED CHANGE TRAFFIC STUDY

Project #00540

April 26, 2000

Prepared by:
DAVID PLUMMER & ASSOCIATES, INC.
1531 Hendry Street
Fort Myers, Florida 33901



	AVERAGE RATE	STANDARD DEVIATION	ADJUSTMENT FACTOR	DRIVE WAY VOLUME
AVG WKDY 2-WAY VOL	7.90	0.00	1.00	23691
7-9 AM PK HR ENTER	0.18	0.00	1.00	527
7-9 AM PK HR EXIT	0.53	0.00	1.00	1582
7-9 AM PK HR TOTAL	0.70	0.00	1.00	2109
4-6 PM PK HR ENTER	0.49	0.00	1.00	1472
4-6 PM PK HR EXIT	0.28	0.00	1.00	828
4-6 PM PK HR TOTAL	0.77	0.00	1.00	2300
SATURDAY 2-WAY VOL	8.91	0.00	1.00	26745
PK HR ENTER	0.48	0.00	1.00	1441
PK HR EXIT	0.41	0.00	1.00	1228
PK HR TOTAL	0.89	0.00	1.00	2669
SUNDAY 2-WAY VOL	8.83	0.00	1.00	26484
PK HR ENTER	0.40	0.00	1.00	1215
PK HR EXIT	0.36	0.00	1.00	1077
PK HR TOTAL	0.76	0.00	1.00	2292

Note: A zero rate indicates no rate data available
The above rates were calculated from these equations:

```
LN(T) = .92LN(X) + T = .7(X) + 9.477

R^2 = .89 ; .25 Er
24-Hr. 2-Way Volume:
                                                               2.707, R^2 =
7-9 AM Peak Hr. Total:
                                                     .25 Enter,
                                                                               Exit.
4-6 PM Peak Hr. Total:
                                 LN(T) = .901LN(X) + .527

R^2 = .91 , .64 Enter,
                                                                               Exit
                                 T = .704(X) + 12.09
R^2 = .89 , .25 Enter,
AM Gen Pk Hr. Total:
                                                                        , 75
                                                                               Exit
                                 LN(T) = .887LN(X) + .605
PM Gen Pk Hr. Total:
                                 R^2 2 = .91, .64 Enter, .36 Exit LN(T) = .956LN(X) + 2.54, R^2 2 = .92 T = .886(X) + 11.065
Sat. 2-Way Volume:
Sat. Pk Hr. Total:
                                 R^2 = .9, .54 Enter, .46

T = 8.832(X) + -11.604, R^2 = .756(X) + .23.815
                                                                       .46 Exit
Sun. 2-Way Volume:
Sun. Pk Hr. Total:
                                 R^2 = .86, .53 Enter,
                                                                       .47
```

Source: Institute of Transportation Engineers Trip Generation, 6th Edition, 1997.

TRIP GENERATION BY MICROTRANS

SUMMARY OF TRIP GENERATION CALCULATION FOR 3000 DWELLING UNITS OF RESIDENTIAL CONDOMINIUM

	AVERAGE RATE	STANDARD DEVIATION	ADJUSTMENT FACTOR	DRIVE WAY VOLUME
AVG WKDY 2-WAY VOL	3.91	0.00	1.00	11724
7-9 AM PK HR ENTER	0.04	0.00	1.00	128
7-9 AM PK HR EXIT	0.21	0.00		624
7-9 AM PK HR TOTAL	0.25	0.00		752
4-6 PM PK HR ENTER	0.23	0.00	1.00	685
4-6 PM PK HR EXIT	0.11	0.00	1.00	338
4-6 PM PK HR TOTAL	0.34	0.00	1.00	1023
SATURDAY 2-WAY VOL	3.76	0.00	1.00	11273
PK HR ENTER	0.16	0.00	1.00	486
PK HR EXIT	0.14	0.00	1.00	414
PK HR TOTAL	0.30	0.00	1.00	901
SUNDAY 2-WAY VOL	3.25	0.00	1.00	9753
PK HR ENTER	0.12	0.00	1.00	366
PK HR EXIT	0.13	0.00	1.00	380
PK HR TOTAL	0.25	0.00	1.00	746

Note: A zero rate indicates no rate data available
The above rates were calculated from these equations:

```
LN(T) = .85LN(X) +
24-Hr. 2-Way Volume:
                                                    2.564, R^2 = .83
7-9 AM Peak Hr. Total:
                           LN(T) = .79LN(X) + .298
                           R^2 = .74 . .17 Enter,
                                                           . 83
                                                                 Exit
4-6 PM Peak Hr. Total:
                           LN(T) = .827LN(X) + .309
                           R^2 = .79, .67 Enter,
                                                           .33
                                                                 Exit
                           LN(T) = .808LN(X) +
AM Gen Pk Hr. Total:
                                                    .209
                           R^2 = .78, .18 Enter,
                                                           .82
                                                                 Exit
                           LN(T) = .777LN(X) + .59

R^2 = .8, .65 Enter, .35 E

T = 3.615(X) + 427.925, R^2 = .65
PM Gen Pk Hr. Total:
                                                          .35 Exit
Sat. 2-Way Volume:
Sat. Pk Hr. Total:
                           T = .286(X) + 42.627
                           R^2 = .84
                           R^2 = .84, .54 Enter, .46
T = 3.132(X) + 357.258, R^2 =
Sun. 2-Way Volume: Sun. Pk Hr. Total:
                           T = .232(X) + 50.009
                           R^2 = .78, .49 Enter,
                                                               Exit
                                                           .51
```

Source: Institute of Transportation Engineers Trip Generation, 6th Edition, 1997.

TRIP GENERATION BY MICROTRANS

And the second s	······			
	AVERAGE	STANDARD	ADJUSTMENT	DR-WAY
	RATE	DEVIATION	FACTOR	VOLUME
AVG WKDY 2-WAY VOL	44.75	0.00	1.00	14545
7-9 AM PK HR ENTER	0.61	0.00	1.00	197
7-9 AM PK HR EXIT	0.39	0.00	1.00	126
7-9 AM PK HR TOTAL	0.99	0.00	1.00	323
4-6 PM PK HR ENTER	2.02	0.00	1.00	656
4-6 PM PK HR EXIT	2.19	0.00	1.00	711
4-6 PM PK HR TOTAL	4.21	0.00	1.00	1367
SATURDAY 2-WAY VOL	58.99	0.00	1.00	19173
PK HR ENTER	3.01	0.00	1.00	977
PK HR EXIT	2.77	0.00	1.00	902
PK HR TOTAL	5.78	0.00	1.00	1879
SUNDAY 2-WAY VOL	28.60	0.00	1.00	9295
PK HR ENTER	1.53	0.00	1.00	497
PK HR EXIT	1.59		1.00	517
PK HR TOTAL	3.12		1.00	1014

Note: A zero rate indicates no rate data available
The above rates were calculated from these equations:

```
24-Hr. 2-Way Volume: 7-9 AM Peak Hr. Total:
                                   LN(T) = .643LN(X) + 5.866, R^2 = .78

LN(T) = .596LN(X) + 2.329
                                  R^2 = .51, .61 Enter,
                                                                          .39
                                                                                 Exit
                                  LN(T) = .66LN(X) + 3.403

R^2 = .81, .48 Enter,
4-6 PM Peak Hr. Total:
                                                                        , 52
                                                                                 Exit
AM Gen Pk Hr. Total:
                                  R^2 = 0, 0 Enter,
                                                                    0 Exit
PM Gen Pk Hr. Total:
                                   0
                                  R^2 = 0 , 0 Enter, 0 Exit

LN(T) = .628LN(X) + 6.229, R^2 = .82

LN(T) = .651LN(X) + 3.773
Sat. 2-Way Volume:
Sat. Pk Hr. Total:
                                  R^2 = .84 , .52 Enter, .48 Exit
T = 15.632(X) + 4214.458, R^2 = .52
T = 3.12(X) + 0
Sun. 2-Way Volume:
Sun. Pk Hr. Total:
                                  R^2 = 0, .49 Enter,
                                                                       .51 Exit
```

Source: Institute of Transportation Engineers Trip Generation, 6th Edition, 1997.

TRIP GENERATION BY MICROTRANS

SUMMARY OF TRIP GENERATION CALCULATION FOR 90 HOLES OF GOLF COURSE

·				
	AVERAGE RATE	STANDARD DEVIATION	ADJUSTMENT FACTOR	DRIVE WAY VOLUME
AVG WKDY 2-WAY VOL	35.74	12.12	1.00	3217
7-9 AM PK HR ENTER 7-9 AM PK HR EXIT 7-9 AM PK HR TOTAL	1.75 0.47 2.22	0.00 0.00 1.82	1.00 1.00 1.00	158 42 200
4-6 PM PK HR ENTER 4-6 PM PK HR EXIT 4-6 PM PK HR TOTAL	1.21 1.53 2.74	0.00 0.00 1.79	1:00 1.00 1.00	109 138 247
SATURDAY 2-WAY VOL	40.63	17.12	1.00	3657
PK HR ENTER PK HR EXIT PK HR TOTAL	2.25 2.34 4.59	0.00 0.00 2.73	1.00 1.00 1.00	202 211 413
SUNDAY 2-WAY VOL	39.53	13.52	1.00	3558
PK HR ENTER PK HR EXIT PK HR TOTAL	0.00 0.00 4.43	0.00 0.00 2.44	1.00 1.00 1.00	0 0 399

Note: A zero rate indicates no rate data available Source: Institute of Transportation Engineers Trip Generation, 6th Edition, 1997.

TRIP GENERATION BY MICROTRANS