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)

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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 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) (Full Access)	660 ^t	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)(405' req'd)	Required Storage None	Existing <u>Improvements</u> None
	WB Left Ingress Turn Lane (455' req'd)	50'	625'
	Two (2) NB outbound lanes (separate left & thru/right)	50' each	None
	Traffic Signal (if warranted)		
Approved - Access No. 2 (Sandpiper/Greenway)	Traffic Signal (if warranted)		None
(Sanapipali Greening)	EB Right Ingress Turn Lane (455' req'd)	50'	380' in length
	WB Left Ingress Turn Lane (455' req'd)	50'	405' in length
	Two (2) NB outbound lanes (separate left & thru/right)	50' each	3 Outbound Lanes (left, thru & right)
Proposed - Access No. 3 (Commercial Right-In/Out Access)	EB Right Ingress Turn Lane (free-flow condition) (405' req'd)	None	405' in length
	One (1) NB outbound lane (Right-out)	50'	None
Proposed - Access No. 4 (Residential Full Access)	EB Right Ingress Turn Lane (free-flow condition) (405' req'd)	None	None
	Two (2) NB outbound lanes (separate left & right)	50' each	None
	WB Left Ingress Turn Lane (405' req'd)	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 <u>Improvements</u> 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.

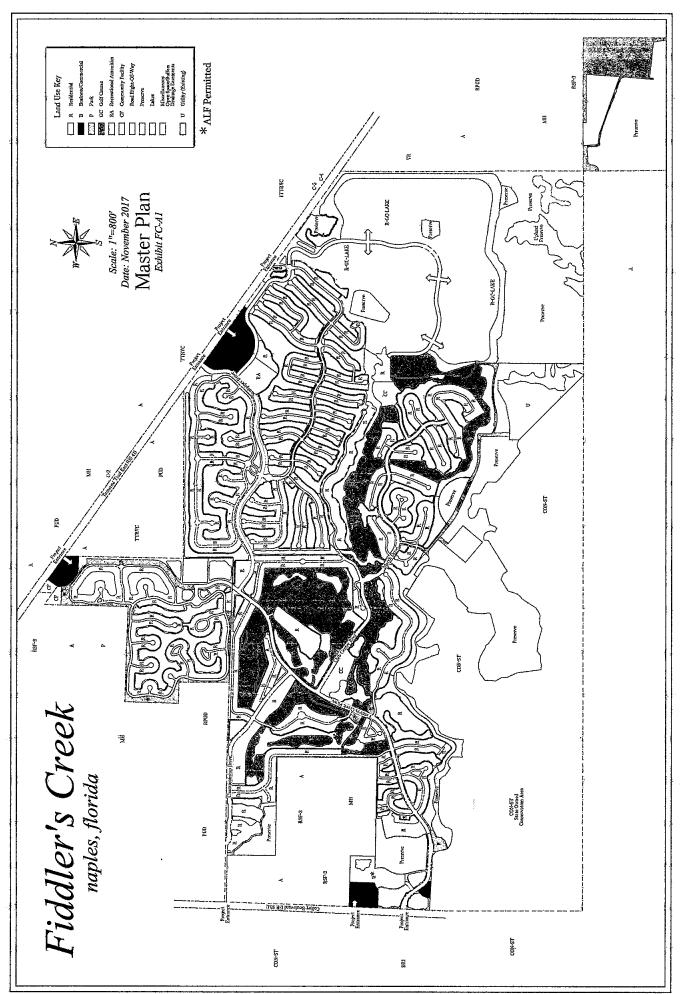
It is also being proposed to construct a full access further to the southeast of Sandpiper Drive that will serve the community's residents in the southeast most areas of Fiddler's Creek.

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

	3T 1 CTT 1
	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)

	DA (NI D I II	
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	1,280 Exit

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.
- (1) ITE, Trip Generation, Sixth Edition.
- Internal orientation based on prior NOPC Traffic Study.
- (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

Land Use	
<u>Code</u>	

Land Use Description

Build Schedule

Hotel 310

150 Rooms

Shopping Center 820

325,000 s.f.

Land Use

Code Trip Period **Trip Generation Equation**

Total Trips Trips Enter/Exit

PM Peak Hour (vph) = **LUC 310** 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 =

1,320 vph

633 / 686 vph

48% Enter/ 52% Exit =

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>

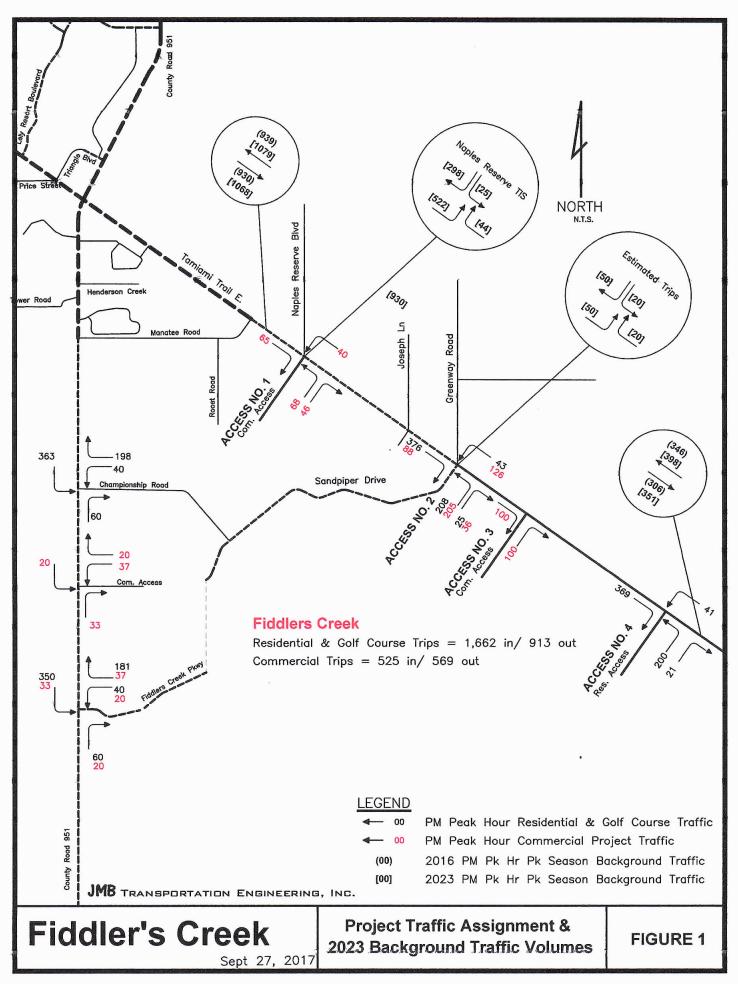
Land Use				
<u>Code</u>	Land Use Description	<u>Build Schedule</u>	<u> </u>	
210	Single-Family Detached Housin	g 3,000 Ur	nits	
230	Residential Condo/Townhouse	3,000 Ur	nits	
820	Shopping Center	325,000 s.f	: •	
	Golf Course	90 Ho	oles	
Land Use				
<u>Code</u>	Trip Period	Trip Generation Equation	Total Trips	Trips Enter/Exit
LUC 210	PM Peak Hour (vph) =	Ln(T) = 0.90Ln(X)+0.51 =	2,243 vph	1413 / 830 vph
		63% Enter/ 37% Exit =		,
	A.F 16 1			
*****	Adjusted for Internal Capture = ***********************************	24% Internal	1,705 vph	1,074 / 631 vph
LUC 230				
LUC 230	PM Peak Hour (vph) =	Ln(T) = 0.82Ln(X) + 0.32 =	978 vph	655 / 323 vph
		67% Enter/ 33% Exit =		
	Adjusted for Internal Capture =	24% Internal	743 vph	498 / 245 vph
******	**********		*********	498 / 245 vph
LUC 820	PM Peak Hour (vph) =	Ln(T) = 0.67Ln(X)+3.31 =	1,320 vph	633 / 686 vph
		48% Enter/ 52% Exit =	,	, · · ·
	Adjusted for Internal Capture =	20% Internal	1,056 vph	507 / 549 vph
ste	Adjusted for Pass-by =	38% Internal	655 vph	314 / 340 vph
	***********	*************	*********	***
Golf	PM Peak Hour (vph) =		247 vph	109 / 138 vph
	Adjusted for Internal Continue	000/ 1-1		
******	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
		a area a contract of ability —	wywww.wp11	2)101 / 1)433 VHII
	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.

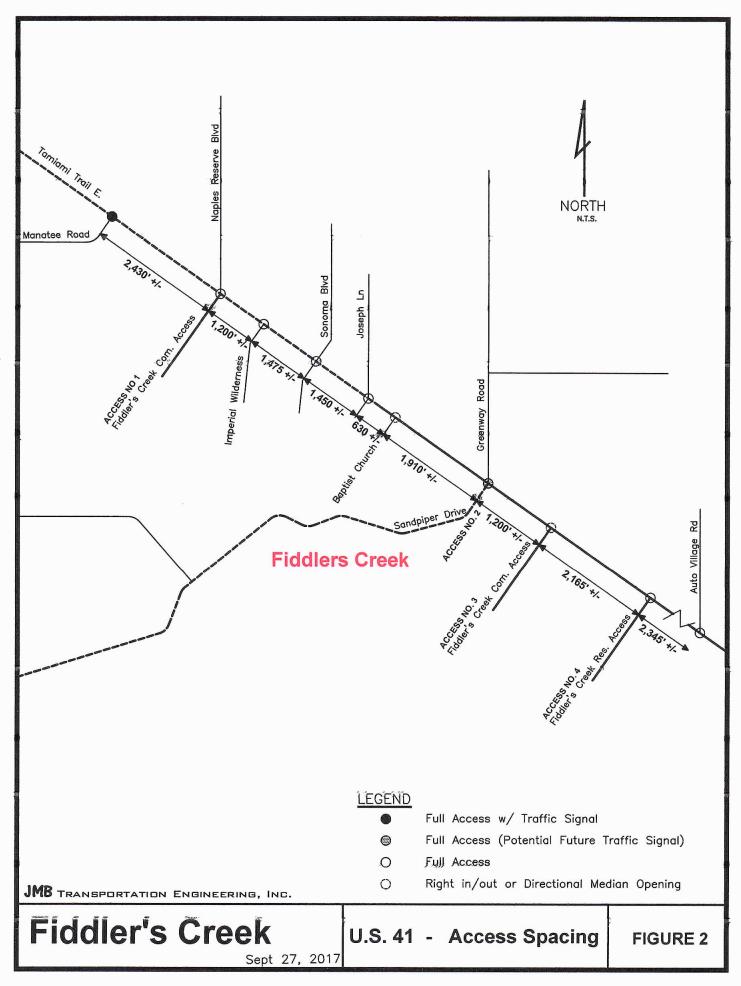
It should be noted that redistribution of a portion of the project's commercial trips from the more heavily traveled Collier Boulevard (south of Tamiami Trail) to the less traveled Tamiami Trail (recently widened to six lanes) will relieve some pressure on the more critical segment of Collier Boulevard. 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)(405' req'd)	Required Storage None	Existing <u>Improvements</u> None
	WB Left Ingress Turn Lane (455' req'd)	50'	625'
	Two (2) NB outbound lanes (separate left & thru/right)	50' each	None
	Traffic Signal (if warranted)		
Approved - Access No. 2 (Sandpiper/Greenway)	Traffic Signal (if warranted)		None
(Sandpiper/Greenway)	EB Right Ingress Turn Lane (455' req'd)	50'	380' in length
	WB Left Ingress Turn Lane (455' req'd)	50'	405" in length
	Two (2) NB outbound lanes (separate left & thru/right)	50' each	3 Outbound Lanes (left, thru & right)
Proposed - Access No. 3 (Commercial Right-In/Out Access)	EB Right Ingress Turn Lane (free-flow condition) (405' req'd)	None	405' in length
	One (1) NB outbound lane (Right-out)	50'	None
Proposed - Access No. 4 (Residential Full Access)	EB Right Ingress Turn Lane (free-flow condition) (405' req'd)	None	None
	Two (2) NB outbound lanes (separate left & right)	50' each	None
	WB Left Ingress Turn Lane (405' req'd)	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	OL SUM	MARY			
General Information	າ	· · · · · · · · · · · · · · · · · · ·	Site I	nformatio	on			
Analyst	JMB Trai	nsportation	Inters	ection		Access N	lo. 1	
Agency/Co.		<u></u>	:	liction				
Date Performed	10/11/20	17		sis Year		2023 Pro	iect Build	l-Out
Analysis Time Period	PM Peak					,	/ =	
Project Description								
East/West Street: U.S.	41		North/	South Stree	et Site A	ccess/Naple	s Rosar	V/Q
ntersection Orientation:				Period (hrs		100000/11ap/	76 / (030/	V C
			jotady	r enea (me	j. 0.20			
/ehicle Volumes ar	ia Aajusune							
Major Street		Eastbound	1 .			Westbou	nd	
Vlovement	1 1	2	3		4	5		<u>6</u>
(alone a forelette)	L	T	R		<u>L</u>	T		R
/olume (veh/h)	522	850	65	_	40	900		44
Peak-Hour Factor, PHF	0.95	0.95	0.98	- 	0.95	0.95		0.95
lourly Flow Rate, HFR veh/h)	549	894	68		42	947		46
Percent Heavy Vehicles	0	ble rdr	~~		0			
/ledian Type				Raised cui	ъ			
RT Channelized			0					0
anes.	1	2	1		1	2		1
Configuration	L	T	R		L	T		R
Jpstream Signal		0				0		
linor Street		Northbound				Southbou	ınd	
/lovement	7	8	9		10	1 11		12
	L	Т	R		L	Т		R
olume (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
lourly Flow Rate, HFR veh/h)	71	1	48		26	1		46
Percent Heavy Vehicles	0	0	0		0	0		0
Percent Grade (%)	-	0	<u> </u>	· ·		0		
Flared Approach		$\frac{1}{N}$			· · · · · · · · · · · · · · · · · · ·	T N		
								
Storage		0	 			0		
RT Channelized			0					0
anes	1	1	0			1		0
Configuration	<u> </u>		TR		<u> </u>			TR
Delay, Queue Length, a								<u>.</u>
\pproach	Eastbound	Westbound		Northbound			outhbour	
Novement	1	4	7	8	9	10	11	12
ane Configuration	L	L	L		TR	L		TR
(veh/h)	549	42	71		49	26		47
(m) (veh/h)	704	724		ļ	0	<u> </u>		0
/c	0.78	0.06					`	
5% queue length	7.63	0.18		 				_
Control Delay (s/veh)	25.8	10.3				<u> </u>		_
.OS	D	В		<u>[</u>	F	<u> </u>		F
Approach Delay s/veh)				<u> </u>				
Approach LOS								

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HCS+TM Version 5.6

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	.	TWO	D-WAY STOP	CONTR	OL SUMI	WARY		-			
General Information	1			Site I	nformatio	on					
Analyst		JMB Tran	sportation	Interse	ection		Access N	lo. 2			
Agency/Co.				Jurisd	iction						
Date Performed		10/11/201	7	Analys	sis Year		2023 Pro	ject Build-	Out		
Analysis Time Period		PM Peak	hour		, , , , , , , , , , , , , , , , , , ,				· · · · · · · · · · · · · · · · · · ·		
Project Description		· · · · · · · · · · · · · · · · · · ·									
East/West Street: U.S.	41			North/s	South Stree	et: Sandp	iper/Greenv	vay			
Intersection Orientation:	Eas	st-West			Period (hrs		<u>′ </u>				
Vehicle Volumes ar	nd Ac	liustme	nts		**********						
Major Street	<u> </u>	.,,	Eastbound				Westbou	nd			
Movement		1	2	3		4	5	1	6		
		L	T	R		L	T T		R		
Volume (veh/h)	1	50	510	457		167	650		20		
Peak-Hour Factor, PHF		0.95	0.95		0.95 0.95				0.95		
Hourly Flow Rate, HFR		52	526	101			0.95				
(veh/h)		<i>32</i>	536	481		175	684		21		
Percent Heavy Vehicles		0	, and then			0					
Median Type					Raised cui	rb					
RT Channelized		1 2							0		
Lanes		1 2				1	2		1		
Configuration	L T			R		L	T		R		
Upstream Signal			0				0				
Minor Street	Northbound					·.	Southbou	ind			
Movement		7	8	9		10	11		12		
	ŀ	L	Т	R		L	T		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			<u> </u>	0				
RT Channelized				0					0		
Lanes		1	1	0		1	1		0		
Configuration		$\frac{1}{1}$		TR		<u> </u>			TR		
Delay, Queue Length,	and L	oval of Sa	nvice .								
Approach		bound	Westbound	T i	Northbound	4	<u> </u>	outhbound	1		
Movement	<u>_a</u>	1	4	7	8	9	10	11	12		
Lane Configuration		;		Ĺ	 	TR	L	<u> </u>	TR		
v (veh/h)		<u>-</u> 52	175	426		65	21		53		
C (m) (veh/h)		002	690	166		572	140		606		
v/c		.06	0.25	2.57	<u> </u>	0.11	0.15	<u></u>	0.09		
95% queue length		.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		Α	В	F		В	E		В		
Approach Delay (s/veh)					665.7	-	18.2				
Approach LOS	,			 	F	· 	<u> </u>	C			
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		TW	O-WAY STOP	CONTR	OL SU	MMARY	** **** **** **** **** ***** ***** *****					
General Information	1		/// (Site I	nforma	tion						
Analyst		JMB Tran	sportation	Inters	ection		Access N	Vo. 4				
Agency/Co.				Jurisd	iction			· ,				
Date Performed		10/11/201	17	Analy	sis Year		2023 Pro	ject Build	-Out			
Analysis Time Period		PM Peak	hour					4				
Project Description												
East/West Street: U.S.	41			North/	South Str	eet: Site A	ccess No. 4	1				
Intersection Orientation:	Ea.	st-West		Study	Period (h	rs): 0.25			***			
Vehicle Volumes an	d Ad	diustme	nts									
Major Street	1	7	Eastbound				Westbou	ınd				
Movement	\top	1	2	3		4	5		6			
	1	L	Т	R		Ĺ	Ť		R			
Volume (veh/h)		*********	351	369		41	398					
Peak-Hour Factor, PHF		0.95	0.95	0.95		0.95	0.95		0.95			
Hourly Flow Rate, HFR (veh/h)		0	369	388		43	418		0			
Percent Heavy Vehicles		0				0						
Median Type					Raised o							
RT Channelized	<u> </u>			0					0			
Lanes		0	1	1		1	1		0			
Configuration	1	T				L L	† 					
Upstream Signal	1		0	R			0					
Minor Street			Northbound				Southbound					
Movement	_	7 8				10	11	110	12			
	1	L	T	9 R		L	T		R			
Volume (veh/h)		200		46								
Peak-Hour Factor, PHF	1	0.95	0.95	0.95	5	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 (%)	1	 	0			<u> </u>	0					
Flared Approach	+	·····	T N				T N					
Storage	+		0				1 0					
	┪—			+			 		^			
RT Channelized	-			0			 		0			
Lanes Configuration	-	1	0	1		0	0		0			
	<u> </u>	<u></u>		R			<u> </u>					
Delay, Queue Length, a				1	\		1		.1			
Approach Movement	⊏as	tbound 1	Westbound	7	Northbou			outhboun				
Movement Lane Configuration	· · · · · ·	. I	4	L	8	9 R	10	11	12			
v (veh/h)			<u>L</u> 43	210		48	-	 				
C (m) (veh/h)			863	428		681	1		-			
v/c			0.05	0.49		0.07	 		+			
95% queue length			0.16	2.64		0.23	†	 	1			
Control Delay (s/veh)			9.4	21.2		10.7	 					
LOS			A A	C C		B	 	 	1			
Approach Delay				19.3								
(s/veh)				C								
Approach LOS		<u></u>	***	L	O TM V		1					

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INTERSECTION TURNING MOVEMENT COUNTS

Intersection:

Manatee Road & U.S. 41

Date of Count:

2/9/2016

Tuesday

			-	,,	,								
ł	E	astbound	d i	W	estbour	nd	Nort	hbound	ı j	So	uthbour	ıd	Total All
AM Period	L	I	<u>R</u>	Ļ	Ţ	<u>R</u>	L	T	<u>R</u>	L	I	<u>R</u>	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	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	467
8:00 -8:15	0	167	52	46	175	0	35	0	25	0	0	0	500
8:15 -8:30	0	143	44	39	191	0	34	0	17	0	0	0	468
8:30 - 8:45	0	162	36	23	218	0	21	0	11	0	0	0	471
8:45 - 9:00	0	142	28	28	209	0	27	0	21	0	0	0	455
1						I							
AM Totals	0		284		1349	0	207	0	129	0	0	0	3338
Approach %		79.5%	20.5%	16.4%		0.0%	61.6%	0.0%	38.4%				
% / Lane	0.0%		8.5%	7.9%	40.4%	0.0%	6.2%	0.0%	3.9%				
% / Inter.		41.6%			48.4%			10.1%					
1	_	aathaun	.	(\A	looth our	الما	Now	ماط	.	6-	ورون مراجع المارور	!	ı
PM Pariod		astbound			estbour T	•		hbound	•		uthbour T		<u> </u>
PM Period	L	I	<u>R</u>	Ŀ	I	<u>R</u> i	<u>L</u>	I	<u>R</u> i	L	Ţ	R	
4:00 - 4:15	<u>L</u> 0	<u>T</u> 133	<u>R</u> 19	<u>L</u> 13	<u>T</u> 198	<u>R</u> 0	<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
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	R 0 0	<u>L</u> 12 15	<u>T</u> 0 0	<u>R</u> 12 19	<u>L</u> 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	<u>T</u> 133 179 196	R 19 21 17	<u>L</u> 13 11 14	<u>T</u> 198 222 219	R 0 0 0	<u>L</u> 12 15 23	<u>T</u> 0 0	R 12 19 21	<u>L</u> 0 0 0	<u>T</u> 0 0 0	<u>R</u> 0 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 0	<u>T</u> 133 179 196 206	R 19 21 17 14	<u>L</u> 13 11 14 14	<u>T</u> 198 222 219 213	R 0 0 0 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 0	<u>R</u> 0 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	R 19 21 17 14 12	<u>L</u> 13 11 14 14 14	<u>T</u> 198 222 219 213 208	R I 0 0 0 0 0 0 0 0 0 0	<u>L</u> 12 15 23 22 19	<u>T</u> 0 0 0 0	R 12 19 21 22 14	<u>L</u> 0 0 0 0	<u>T</u> 0 0 0 0	<u>R</u> 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	L 13 11 14 14 14 12 15	<u>T</u> 198 222 219 213 208 231	R 0 0 0 0 0 0 0 0 0	<u>L</u> 12 15 23 22 19 16	<u>T</u> 0 0 0 0	R 12 19 21 22 14 16	<u>L</u> 0 0 0 0 0	T 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	<u>L</u> 0 0 0 0 0	I 133 179 196 206 209 229 221	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 0 0 0 0 0 0 0 0	L 12 15 23 22 19 16	T 0 0 0 0 0	R 12 19 21 22 14 16 13	<u>L</u> 0 0 0 0 0	<u>T</u> 0 0 0 0	R 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	L 13 11 14 14 14 12 15	<u>T</u> 198 222 219 213 208 231	R 0 0 0 0 0 0 0 0 0	<u>L</u> 12 15 23 22 19 16	<u>T</u> 0 0 0 0	R 12 19 21 22 14 16	<u>L</u> 0 0 0 0 0	T 0 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	<u>L</u> 0 0 0 0 0	I 133 179 196 206 209 229 221 185	R 19 21 17 14 12 16 14	L 13 11 14 14 12 15 13 9	T 198 222 219 213 208 231 233	R 0 0 0 0 0 0 0 0 0	L 12 15 23 22 19 16	T 0 0 0 0 0	R 12 19 21 22 14 16 13	<u>L</u> 0 0 0 0 0	T 0 0 0 0 0 0	R 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	<u>L</u> 0 0 0 0 0	I 133 179 196 206 209 229 221 185	R 19 21 17 14 12 16 14 18	L 13 11 14 14 12 15 13 9	<u>T</u> 198 222 219 213 208 231 233 187	R 0 0 0 0 0 0 0 0 0	L 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	<u>L</u> 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0	R 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	I 133 179 196 206 209 229 221 185	R 19 21 17 14 12 16 14 18	L 13 11 14 14 12 15 13 9 101 5.6%	<u>T</u> 198 222 219 213 208 231 233 187	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	R 12 19 21 22 14 16 13 15	<u>L</u> 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0	R 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	1 133 179 196 206 209 229 221 185 1558 92.2%	R 19 21 17 14 12 16 14 18	L 13 11 14 14 12 15 13 9 101 5.6%	<u>T</u> 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 48.7%	<u>L</u> 0 0 0 0 0 0 0 0 0	T 0 0 0 0 0 0	R 0 0 0 0 0 0	467 490 491 474 523 508 432

PEAK HOUR TURNING MOVEM	ENT VOLUMES
-------------------------	-------------

	1	Eastbound		d j	W	/estbound		[Northbo		bound		So	uthbo	und	l	
	Ì	<u>L</u>	<u>T</u>	RI	L	Ţ	<u>R</u>	L	Ţ	<u>R</u>	I	<u>L</u>	I	<u>R</u>	-	
AM Period	l			1				[ı				1	
7:45- 8:45		0	613	175	165	715	0	114	0	65	1				ĺ	1847
Approach %	1	0.0%	77.8%	22.2%	18.8%	81.3%	0.0%	63.7%	0.0%	36.3%	1				1	
				1				1			1				- 1	
PM Period				1]			ı				-	
4:45 - 5:45	1	0	865	56	54	885	0	71	0	65	1				1	1996
Approach %	Ì	0.0%	93.9%	6.1%	5.8%	94.2%	0.0%	52.2%	0.0%	47.8%	l				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

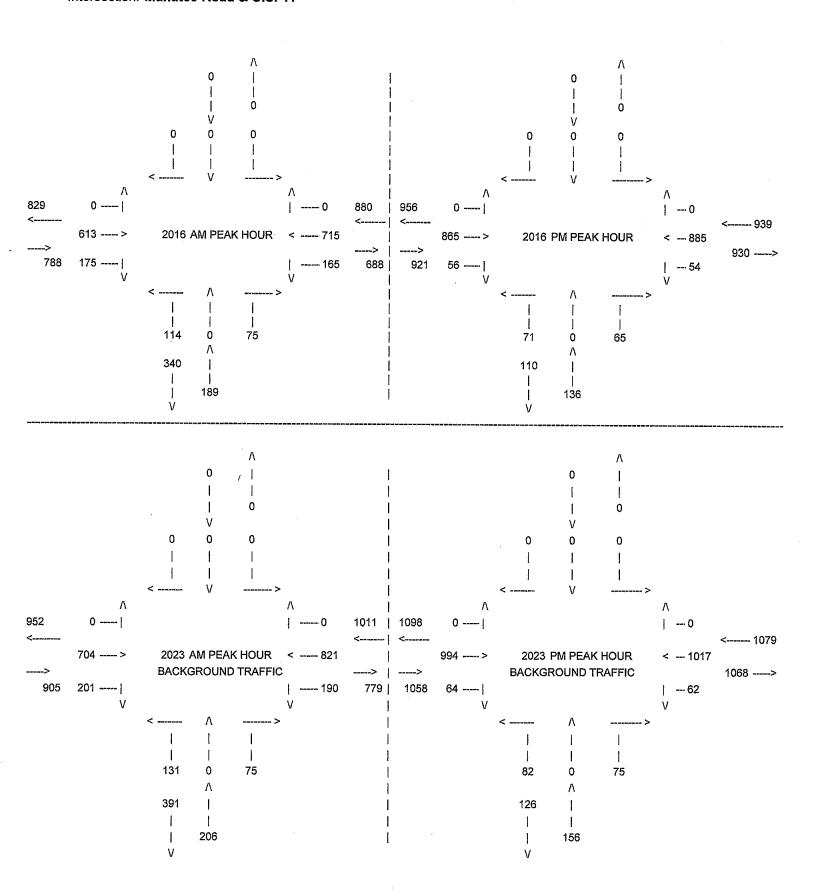
	1	Eastbound			-	W	/estbou	nd	1	Nor	thbound	d	1	Southbound				
		L	I	<u>R</u>	1	<u>L</u>	T	<u>R</u>	1	Ŀ	<u>T</u>	<u>R</u>		<u>L</u>	Ī	<u>R</u>	I	
AM Period	I	0	613	175		165	715	0	Į	114	0	65	1	0	0	0	1	
									1								-	
PM Period		0	865	56	ı	54	885	0	-	71	0	65	1	0	0	- 0	- 1	

2016 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

	Seasonal Adj Seasonal Adjustment Factor = 1																
	1	E	astboun	d	-	N	/estbou	nd	1	Northbound				Sc	uthbou	nd	1
	1	<u>L</u>	I	<u>R</u>	-	<u>L</u>	<u>T</u>	<u>R</u>].	<u>L</u>	I	<u>R</u>	1	L	Ţ	<u>R</u>	Ì
AM Period	I	0	613	175	1	165	715	0	1	114	0	65	ĺ	0	0	0	į
	1								ĺ				1				I
PM Period	1	0	865	56	- 1	54	885	0	1	71	0	65	ı	0	0	0	ĺ

2023 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

				Annua	l Gr	owth	Rate =				2.0%						
	1	j	Eastboun	ıd	-	V	/estbo ur	estbound			thboun	d	ĺ	Sc	uthbou	nd	1
		L	I	<u>R</u>	-	<u>L</u>	Ţ	<u>R</u>	1	<u>L</u>	Ţ	<u>R</u>		L	Ţ	<u>R</u>	1
AM Period	1	0	704	201	-	190	821	0	1	131	0	75		0	0	0	-
									1								1
PM Period		0	994	64		62	1017	0	1	82	0	75	1	0	0	0	l



INTERSECTION TURNING MOVEMENT COUNTS

Intersection:

Riggs Road @ Tamiami Trail East

Date of Count:

05/13/2014 Tuesday

	1	E	astboun	Ė	I	W	estbour	nd	ı	No	rthbour	nd		So	uthbou	nd	1	
PM Period	Í	<u>L</u>	I	<u>R</u>	I	<u>L</u>	Ţ	<u>R</u>	ı	<u>L</u>	I	<u>R</u>	. !	<u>_</u>	T	<u>R</u>	1	
4:00 - 4:15	1	3	33	0	1	0	60	0	ı	0	0	0	()	0	3		99
4:15 - 4:30	I	2	35	0	I	0	57	1	ı	0	0	0		1	0	2		98
4:30 - 4:45		4	49	0	ı	0	61	2	1	0	0	0	()	0	2	l	118
4:45 - 5:00	1	3	55	0	1	0	66	1	1	0	0	0	()	0	0		125
5:00 - 5:15	1	3	54	0	1	0	60	0	ı	0	0	0	! '	1	0	3	İ	121
5:15 -5:30	i	1	48	0	1	0	55	0	ı	0	0	0	()	0	2		106
5:30 - 5:45	1	5	57	0	1	0	70	1	I	0	0	0	()	0	0	I	133
5:45 - 6:00	1	2	53	0	1	0	66	0	į	0	0	0	} '	כ	0	1	1	122
PM Totals	1	23	384	0) [0	495	5	I	0	0	0		2	0	13	3	922
Approach %	1	5.7%	94.3%	0.0%	Ì	0.0%	99.0%	1.0%	I				13	.3%	0.0%	86.7%	j	
% / Lane	1	2.5%	41.6%	0.0%		0.0%	53.7%	0.5%	İ	0.0%	0.0%	0.0%	0	.2%	0.0%	1.4%		
% / Inter.			44.1%				54.2%				0.0%				1.6%			

		PEA	K HO	UR	TU	RNI	NG N	IOV	EM	ENT	. AOI	_UM	ES		*			
	l	E	astboun	d	ı	٧	/estbou	nd	ı	No	orthbou	nd		Sc	outhbou	ınd	I	
	I	<u>L</u>	I	<u>R</u>	ı	<u>L.</u>	<u>T</u>	<u>R</u>	ĺ	<u>L</u>	I	<u>R</u>	j	L	Ţ	<u>R</u>	1	
PM Period	ĺ				-				ı								1	
1.45 E.45		40	24.4	Λ	1	0	251	2	- 1	Λ	Λ	Λ	1	4	0	5	1	495

PM Peak Hour Factor =

0.91

2014 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

				Seas	onal	Adju	stment	Fact	or =		1.3						
	l	E	astboun	d	1	٧	Vestboui	nd	1	No	orthbou	nd	-	Sc	outhbou	ınd	-
	l	<u>L</u>	<u>T</u>	<u>R</u>	1	<u>L</u>	I	<u>R</u>	ı	<u>L</u>	<u>T</u>	<u>R</u>		L	I	<u>R</u>	-
	į				1				1				l				1
PM Period	i	16	278	0	j	0	326	3	İ	0	0	0	Ī	1	0	7	Ì

Intersection:

Riggs Road @ Tamiami Trail East

Date of Count:

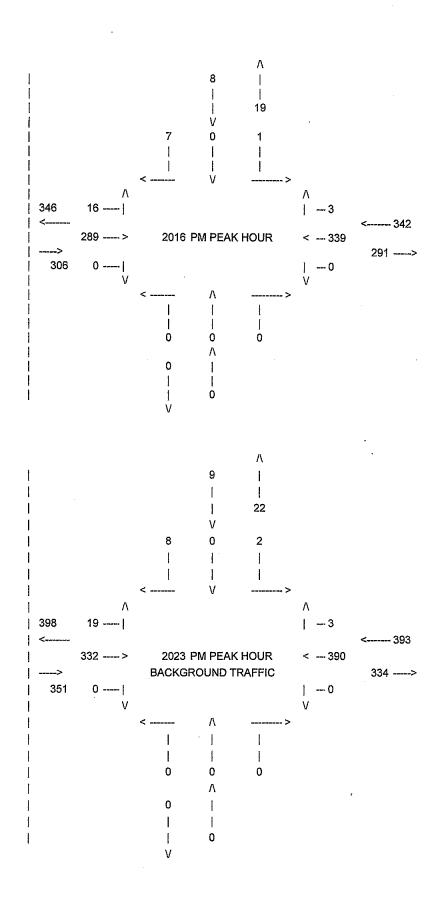
05/13/2014

2016 PEAK SEASON PEAK HOUR TURNING MO	VEMENTS
---------------------------------------	----------------

				Annu	al G	rowt	n Rate =	:			2.0%						
		E	astboun	d	1	٧	Vestboui	nd	1	No	orthbou	nd		Sc	outhbou	nd	
	1	L .	I	<u>R</u>	l	L	I	<u>R</u>	I	L	I	<u>R</u>		<u>L</u>	I	<u>R</u>	1
	1				ı				١								ı
PM Period	I	16	289	0	- 1	0	339	3	-	0	0	0	-	1	0	7	-

2023 PEAK SEASON PEAK HOUR TURNING MOVEMENTS

				Annu	al G	irowt	h Rate =	=			2.0%						
		E	astboun	d	1	٧	Vestboui	nd	1	N	orthbou	nd	ĺ	Sc	uthbou	ınd	- 1
	I	Ţ	I	<u>R</u>	1	<u>L</u>	Ι.	<u>R</u>	1	L	I	<u>R</u>		<u>L</u>	I	<u>R</u>	I
	1				Į				١				I				I
PM Period	1	19	332	0	I	0	390	3	1	0	0	0	I	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	56.8更	56.8月	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	6400	3600m	23000	3100E	至006	1300日	21000	16500	21000	20500	31000	1100E	24000	19500	8300	700
DIR	ເຜ	W	z	M	ß	Ø	Z	M	M	N	N	M	Ø	യ	团	ß
DIRECTION 1	6200	3500臣	22000	3000臣	1000E	1200臣	22000	16000	21000	20500	30000	1100E	24500	20000	7700	750
DIR	Z	Z	ß	团	Z	闰	Ø	闰	田	ß	Ŋ	闰	Z	Z	Z	z
			- 15				01		-	01	01	щ	4	4	12	_
DESCRIPTION	1	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 CC5	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 E	CR 31/AIRPORT ROAD, S OF CR 886/GGATE PKWY CC53	CR 31/AIRPORT RD, S OF CR 896/PINE RIDGE RD CC D	SR 29, WEST OF CR 846/1ST STREET CC664	SR 29, SOUTH OF SR 93/I 75 COLLIER COUN 1
- 0	SR 29, NORTH OF CR 890/LAKE TRAFFORD ROAD	29, SOUTHEAST OF CR 846/14TH STREET	RIDGE RD CC5	90/US 41, NORTHWEST OF CR 92	29, NORTHEAST OF SR 90/US 41 CC615		45/US 41 NORTH OF CR 896, PINE RIDGE RD CC5	90/US 41, NORTHWEST OF SR 951 CC5	90/US 41 SE OF CR 864/RATTLESNAKE HAMMOCK CC5	BEACH RD CC563		CR 31 CC692 N	PKWY CC53	31/AIRPORT RD, S OF CR 896/PINE RIDGE RD CC	29, WEST OF CR 846/1ST STREET CC664	29, SOUTH OF SR 93/I 75 COLLIER COUN

A10

: 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

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[&]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	22.8P	2.2A	6.4A	7.9A	2.9A	5.5A	8.5A	3.8A	12.7A	17.1P	12.0A	10.9A	9.9P	9.3A
"D" FCTR ======	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	0.6	0.6	0.6	0.6	0.0	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 F	3026 C	24597 C	39500 C	72500 C
DIRECTION 2 ========= S 1600E	2900	2600E	10500	28500	40884	24000	12500	7400	13500	6400	3000E	1561	12390	20000	37000
DIR ===	×	ഗ	W	ഗ	Ø	Z	M	W	M	M	Ø	M	×	凶	W
DIRECTION 1 ======== N 1600E	6100	2600E	10500	26500	39569	26000	11000	7800	13500	6400	3000臣	1465	12207	19500	35500
DIR N = N	田	Z	Z	Z	Z	Ø	田	田	田	囝	z	团	团	M	Z
нин			_	10.	5. 5.	-									
	LC2 1			CC5	10.10	522		900	CCS						
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 84, WEST OF SANTA BARBARA BOULEVARD CC5	SR 82, WEST OF SR 29 CC661	SR 29, NORTH OF FARM WORKER'S VILLAGE CC66	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 93/1-75, SOUTH OF CR 896/PINE RIDGE ROAD
CRIPTION	82, EAST OF HENDRY/COLLIER COUNTY LINE LC2	N OF SR-82		951, NORTH OF SR 84 & SOUTH OF I-75/SR93 CC5	CO.	E NORTH CC5	84/DAVIS BLVD, WEST OF SR/CR 951 CC601	90/US 41, SOUTHEAST OF SR 951	84, WEST OF SANTA BARBARA BOULEVARD	82, WEST OF SR 29	29, NORTH OF FARM WORKER'S VILLAGE CC66	W OF CR-94, COLLIER	COLLIER	93/I 75, WEST OF CR	

AII

SITE TYPE "K" FACTOR AADT FLAGS

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[&]quot;D/T" FLAGS

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

COLLIER COUNTY: 03

F 1	SITE	DESCRIPTION	DIR	1	DIR	DIRECTION 2	AADT TWO-WAY	"K" FCTR	"D" FCTR	"T" FCTR
0094	 [-: 	SR-90/US-41,.3 MI SE OF CR31/AIRPORT RD, COLLIER	 国	E 20878	 	M 21408	42286 C	0.0	55.8A	2.9A
0104		SR 90/US 41, EAST OF SR 29 CC616	闰	1900日	W	2000国	3900 F	9.5	54.0F	11.7P
0111		SR 90/US 41, WEST OF SR 29 CC617	闰	2300臣	W	2300臣	4600 F	9. 5	57.4F	9.87
0123		SR90/US41 W OF CR851/GOODLETTE (W OF 12TH ST) NP	Œ	19000	M	19000	38000 C	0.6	56.8F	3.6Р
0124		SR 90/US 41, SOUTHEAST OF CR 851/GOODLETTE RD NP	瓧	28000	M	29000	57000 C	9.0	56.8F	2.8A
0143	E÷	SR 29,0.4 MI S OF SR-82, IMMOKALEE, COLLIER CO.	Z	8183	മ	8267	16450 C	о ъ.	58.2A	10.3A
0157		SR 951, SOUTH OF SR 90/US 41	Z	21000	Ø	20500	41500 C	0.6	54.4F	4.6A
0158		CR 851, GOODLETTE RD, S OF CR896, P RIDGE RD CC5	N	19000E	ಬ	19000E	38000 F	0.6	57.4F	3.02
0160		PINE RIDGE RD, E OF CR 31/AIRPORT RD CC526 N	闰	28500臣	×	29000臣	57500 F	0.6	57.4F	3.8₽
0170		SR 84, EAST OF SANTA BARBARA BLVD CC560	知	6500	B	0069	13400 C	0.6	57.4F	5.7A
0173		SR 93/I 75, EAST OF SR 29 COLLIER COUNTY	M	11000	团	11500	22500 C	10.5	55.2F	15.3A
0175		CR 31/AIRPORT ROAD, N OF SR 84/DAVIS BLVD CC55	N	24000臣	ಭ	22500臣	46500 F	0.6	57.4F	4.3P
9410 🛧		SR 84, EAST OF CR 31/AIRPORT ROAD	阻	12500	M	12500	25000 C	0.6	57.4F	3.2A
12		CR 31/AIRPORT ROAD, S OF SR 84/DAVIS BLVD CC55	Z	16500臣	Ø	15500匿	32000 F	0.6	57.4F	4.5P
0178		SR 84, WEST OF CR 31/AIRPORT ROAD CC5	闰	13000	M	13000	26000 C	0.0	57.4F	4.3A
0179		SR-45/US-41, N OF CR 887/OLD US 41	Ø	19000	N	19500	38500 C	0.6	56.8	2.9P

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SITE TYPE "K" FACTOR AADT FLAGS

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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	00.00	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 PK HR EXIT PK HR TOTAL	0.48	0.00	1.00	1441
	0.41	0.00	1.00	1228
	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:

```
24-Hr. 2-Way Volume:
                                 LN(T) = .92LN(X) + 2.707, R^2 =
                                 T = .7(X) + 9.477
7-9 AM Peak Hr. Total:
                                 R^2 = .89
                                                    .25 Enter,
                                                                             Exit
                                 LN(T) = .901LN(X) +
4-6 PM Peak Hr. Total:
                                R<sup>2</sup> = .91 , .64 Enter,
T = .704(X) + 12.09
R<sup>2</sup> = .89 , .25 Enter,
                                                                             Exit
AM Gen Pk Hr. Total:
                                                                      .75
                                                                             Exit
                                 LN(T) = .887LN(X) + .605
PM Gen Pk Hr. Total:
                                R^2 = .91, .64 Enter, .36 Exit LN(T) = .956LN(X) + 2.54, R^2 = .92
Sat. 2-Way Volume:
Sat. Pk Hr. Total:
                                 T = .886(X) + 11.065
                                R^2 = .9, .54 Enter, .46 Exit

T = 8.832(X) + -11.604, R^2 = .94

T = .756(X) + 23.815

R^2 = .86, .53 Enter, .47 Exis
Sun. 2-Way Volume:
Sun. Pk Hr. Total:
                                                                     .47 Exit
```

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) + 2.564, R^2 = .83

LN(T) = .79LN(X) + .298

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

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

T = 3.615(X) + 427.925, R^2 = .84
PM Gen Pk Hr. Total:
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:
                              T =
                                   .232(X) + 50.009
Sun. Pk Hr. Total:
                              R^2 = .78
                                                .49 Enter,
                                                                     Exit
                                                                . 51
```

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

TRIP GENERATION BY MICROTRANS

	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	000	1.00	9295
PK HR ENTER PK HR EXIT PK HR TOTAL	1.53	0.00	1.00	497
	1.59	0.00	1.00	517
	3.12	0.00	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,

LN(T) = .66LN(X) + 3.403

R^2 = .81, .48 Enter,
                                                                                 .39
                                                                                           Exit
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
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Source: Institute of Transportation Engineers Trip Generation, 6th Edition, 1997.

TRIP GENERATION BY MICROTRANS

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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