

# Traffic Impact Analysis

## Pine Ridge Commons Planned Unit Development Amendment (PUDA) Growth Management Plan Amendment (GMPA)

Collier County, FL 10/24/2016

#### Prepared for:

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Collier County Transportation Review Fee – Small Scale Study – No Fee

### Statement of Certification

I certify that this Traffic Impact Analysis has been prepared by me or under my immediate supervision and that I have experience and training in the field of Traffic and Transportation Engineering.



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#### **Project Description**

The Pine Ridge Commons project is an existing approved Planned Unit Development (PUD) pursuant to Collier County Ordinance No. 1999–94, as may be amended. The subject parcel has a total gross area of approximately 31.00 acres.

The project site is located on the northeast quadrant of the intersection of Goodlette-Frank Road (CR 851) and Pine Ridge Road (CR 896), approximately 0.5 miles east of US 41, in Section 10, Township 49 South, Range 25 East, Collier County.

Refer to Fig. 1 – Project Location Map, which follows, and Appendix A: Goodlette/Pine Ridge Commercial Infill Subdistrict.

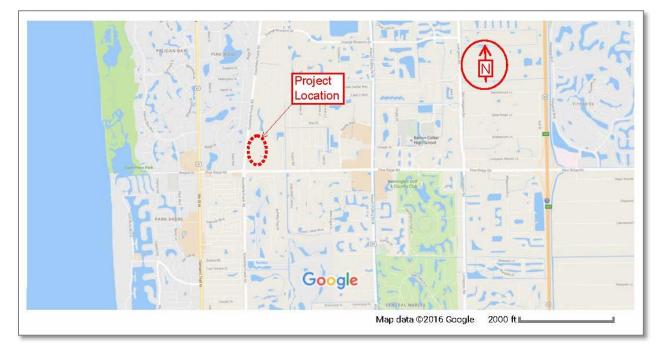


Fig. 1 – Project Location Map

The Collier County approved ordinance currently allows the site to be developed for a maximum of 275,000 square feet of retail and commercial uses. Consistent with the approved Pine Ridge Commons PUD Traffic Impact Statement (TIS) prepared by Wilson Miller, dated August, 1999, the site is approved to be developed for up to a maximum 125,000sf gross leasable area of retail shopping and 150,000sf gross floor area of office financial institution space.

As this development has been under construction for a number of years, the built uses are as follows: Retail -75,243sf, and General Office -129,099sf (Office -36,140sf, Valley National

Bank – Out Parcel – 3,600sf, Naples Trust – Out Parcel – 6,000sf, Quarles & Brady office building – 43,993sf, and Premier Executive office building – 39,366sf).

The Pine Ridge Commons PUDA – GMPA proposes to retain the option to develop as currently allowed by zoning and add a potential development option consisting of existing developed commercial uses and 400 residential multi-family dwelling units.

The development program is illustrated in Table 1.

Table 1
Development Program

Potential Development	ITE Land Use	ITE Land Use Code	Total Size
Approved PUD <sup>(1)</sup>	Shopping Center	820	125,000sf
Approved POD	General Office Building	710	150,000sf
	Shopping Center	820	75,243sf
Proposed PUDA Scenario <sup>(2)</sup>	General Office Building	710	129,099sf
Scendilo.	Residential Condominium/Townhouse	230	400 dwelling units

Note(s): (1) per approved Pine Ridge Commons PUD TIS, dated August, 1999. (2) existing built to date conditions and 400 Multi-Family residential dwelling units.

Access to the site is approved from both Goodlette-Frank Road and Pine Ridge Road. For the purposes of this rezone application, no changes to the previously approved accesses are requested.

#### **Trip Generation**

The project provides the highest and best use scenario with respect to the project's proposed trip generation. The project's site trip generation is based on the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual, 9<sup>th</sup> Edition</u>, and the software program OTISS (Online Traffic Impact Study Software, most current version). The ITE rates and equations are used for the trip generation calculations, as applicable. The ITE – OTISS trip generation calculation worksheets are provided in **Appendix B: Trip Generation Calculations ITE 9th Edition**.

The residential associated common recreation amenities are considered passive incidental to residential use, and are not included in the trip generation analysis.

The **internal capture** accounts for a reduction in external traffic because of the interaction between the multiple land uses in a site. Per Collier County TIS Guidelines and Procedures, the internal capture trips should be reasonable and should not exceed 20% of the total project trips.

For this project, the software program OTISS is used to generate associated internal capture trips. The OTISS process follows the trip balancing approach as recommended in the ITE Trip Generation Manual, 9<sup>th</sup> Edition (Volume 1): User's Guide and Handbook, Chapter 7 – procedure for estimating multi-use trip generation internal capture, aka "triangle method".

The resulting internal capture rates are below the county limits.

The **pass-by trips** account for traffic that is already on the external roadway network and stops at the project on the way to a primary trip destination.

It should be noted that the driveway volumes are not reduced as a result of the pass-by reduction, only the traffic added to the surrounding streets and intersections. As such, pass-by trips are not deducted for operational-access analysis (all external traffic is accounted for).

Consistent with Collier County TIS Guidelines and Procedures, shopping center pass-by rates should not exceed 25% for the peak hour and the daily capture rates are assumed 10% lower than the peak hour capture rate. This analysis calculates Shopping Center LUC 820 pass-by daily rates at 15% and AM and PM peak hour rates at 25%.

The new PUDA – GMPA development scenario trip generation is illustrated in **Table 2A**. The trip generation analysis based on approved conditions is shown in **Table 2B**. The net new proposed trip generation (**Table 2C**) shows total proposed conditions versus existing allowed (the difference between **Table 2A** and **Table 2B**).

Table 2A

Trip Generation (Proposed PUDA Conditions) – Average Weekday

Development	24 Hour Two- Way Volume	AM	l Peak H	our	PN	Л Peak Ho	our
		Enter	Exit	Total	Enter	Exit	Total
Proposed PUDA <sup>(1)</sup>	9,388	315	208	523	401	504	905
Total Internal	1,556	18	18	36	68	68	136
Total External	7,832	297	190	487	333	436	769
Total Pass-By	732	18	11	29	53	55	108
Total Non-Pass-By	7,100	279	179	458	280	381	661

Note(s): (1) Existing built to date and 400 Multi-Family residential dwelling units.

Table 2B
Trip Generation (Approved PUD Allowed) – Average Weekday

Development	24 Hour Two- Way Volume	AN	1 Peak H	our	PI	VI Peak Ho	our
		Enter	Exit	Total	Enter	Exit	Total
Approved PUD	9,638	344	100	444	376	566	942
Total Internal	550	4	4	8	18	18	36
Total External	9,088	340	96	436	358	548	906
Total Pass-By	1,136	27	17	44	82	88	170
Total Non-Pass-By	7,952	313	79	392	276	460	736

In agreement with the Collier County TIS guidelines, significantly impacted roadways are identified based on the proposed project highest peak hour trip generation and consistent with the peak hour of the adjacent street traffic. Based on the information contained in Collier County 2015 Annual Update and Inventory Report (AUIR), the peak hour for adjacent roadway network is PM.

For the purpose of this TIS, the potential project's traffic impact is analyzed based on projected PM peak hour non-pass-by trips generated as a result of the proposed PUDA-GMPA (as shown in **Table 2C**).

Table 2C
Trip Generation (Proposed Net New Traffic) – Average Weekday

Development	24 Hour Two- Way Volume		PM Peak Hou	r
		Enter	Exit	Total
Proposed PUDA (Total Non-Pass-By)	7,100	280	381	661
Approved PUD (Total Non-Pass-By)	7,952	276	460	736
Proposed Net New Total Non-Pass-By Net Increase /(Net Decrease)	(852)	4	(79)	(75)

#### **Conclusions**

As illustrated in **Table 2C**, from a traffic stand point, the proposed rezone development scenario is less intensive when compared to the maximum allowed under current zoning conditions.

A detailed evaluation of applicable access points will be performed at the time of site development permitting/platting to determine turn lane requirements, as applicable.

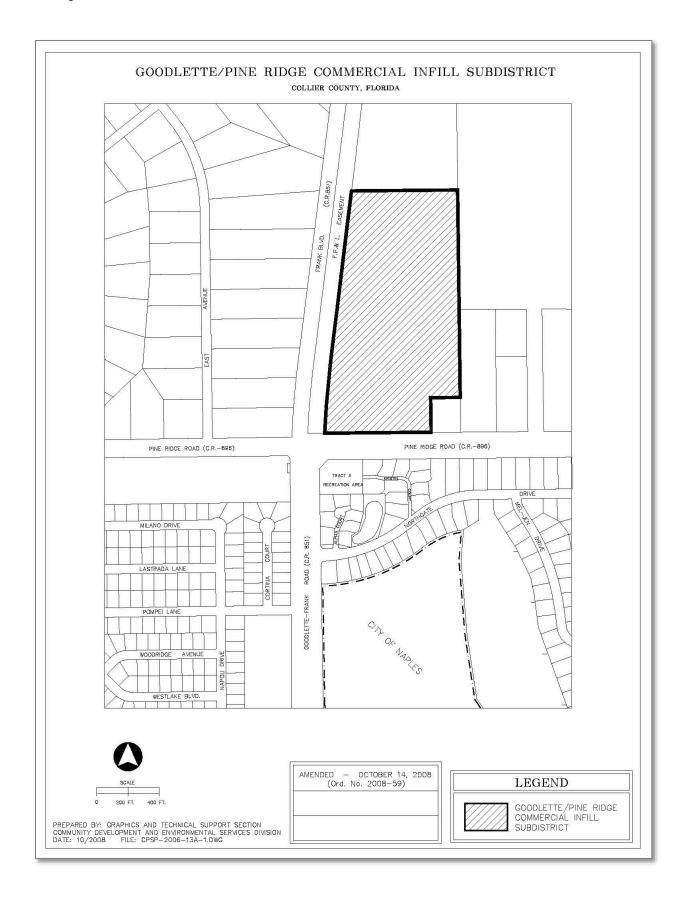
#### **Mitigation of Impact**

The developer proposes to pay the appropriate Collier County Road Impact Fee as building permits are issued for the project.

Pine Ridae	Commons -	PUDA -	GMPA -	TIA —	October	2016

# Appendix A: Goodlette/Pine Ridge Commercial Infill Subdistrict

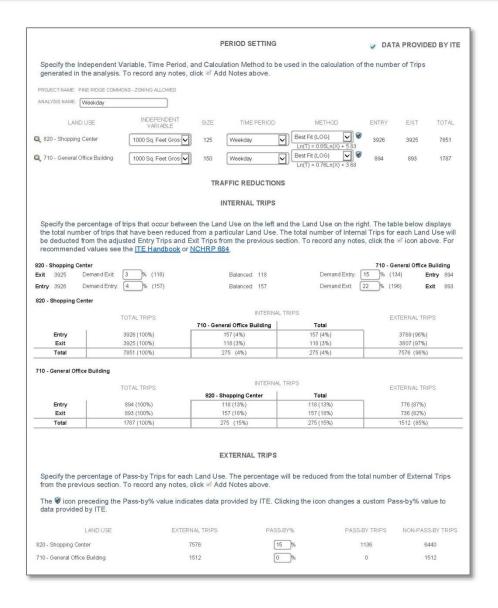
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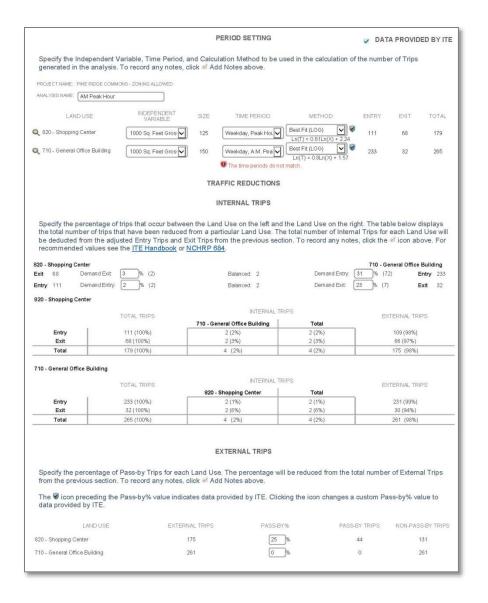


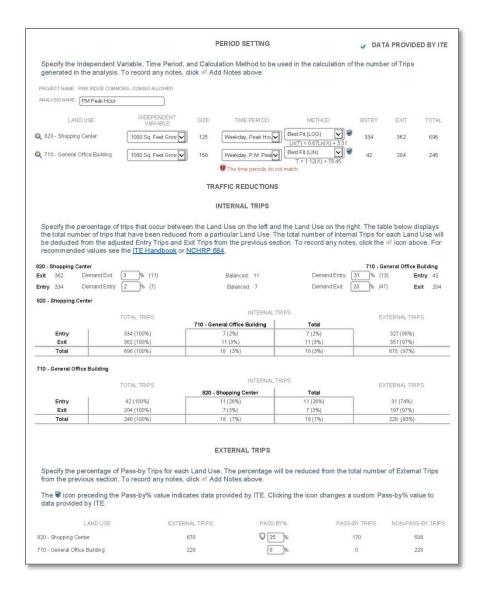
# **Appendix B: Trip Generation Calculations ITE 9th Edition**

(9 Sheets)

Project Name:		ommons - Zoning Allowe	ed .	No:			
Date:	10/21/2016			City:			
State/Province:				Zip/Postal Code:			
Country:				Client Name:			
Analyst's Name:				Edition:	ITE-TGM	9th Edition	
LAND USE	SIZE	WEE	KDAY	AM PEA	K HOUR	PM PEA	K HOUR
D410 00E	OLL	Entry	Exit	Entry	Exit	Entry	Exit
820 - Shopping Center	125 (1)	3926	3925	111	68	334	362
Reduction		0	0	0	0	0	0
Internal		157	118	2	2	7	11
Pass-by		565	571	27	17	82	88
Non-pass-by		3204	3236	82	49	245	263
710 - General Office Building	150 (2)	894	893	233	32	42	204
Reduction		0	0	0	0	0	0
Internal		118	157	2	2	11	7
Pass-by		0	0	0	0	0	0
Non-pass-by		776	736	231	30	31	197
Total		4820	4818	344	100	376	566
Total Reduction		0	0	0	0	0	0
Total Internal		275	275	4	4	18	18
Total Pass-by		565	571	27	17	82	88
Total Non-pass-by		3980	3972	313	79	276	460



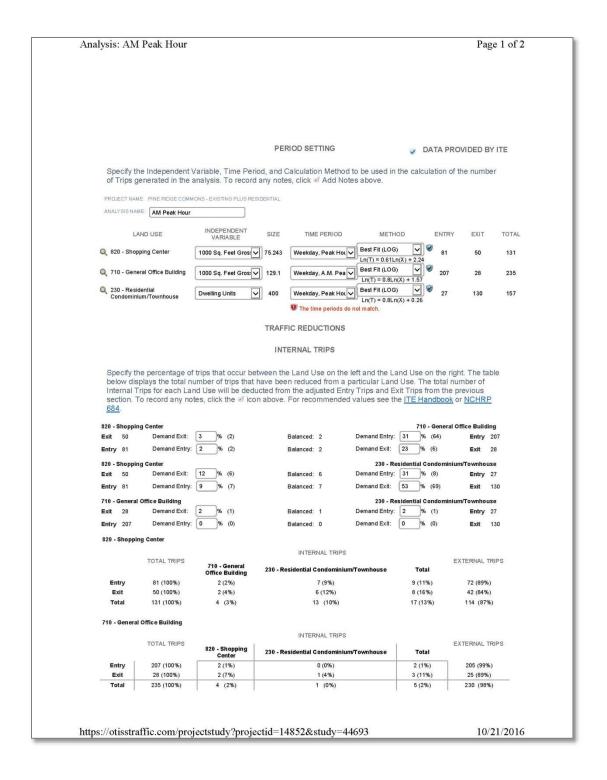




Project Name: Date: State/Province: Country: Analyst's Name:	Pine Ridge Commons - Existing 10/21/2016	plus Residential	No: City: Zip/Postal Client Nan Edition:		ITE-TGM 9th Edit	ion	
1.3500.11000	0.75	WEEK	DAY	AM PEA	KHOUR	PM PEA	KHOUR
LAND USE	SIZE	Entry	Exit	Entry	Exit	Entry	Exit
320 - Shopping Center	75.243 <sup>(t)</sup>	2823	2822	81	50	238	257
Reduction	1989.00	0	0	0	.0	0	0
Internal		367	395	9	8	26	39
Pass-by		368	364	18	11	53	55
Non-pass-by		2088	2063	54	31	159	163
10 - General Office Building	129.1 (2)	797	797	207	28	38	185
Reduction	00000000	0	0	0	0	0	0
Internal		85	129	2	3	8	8
Pass-by		0	0	0	0	0	0
Non-pass-by		712	668	205	25	30	177
30 - Residential Condominium/Townhouse	400 (29	1075	1074	27	130	125	62
Reduction		0	0	0	0	0	0
Internal		326	254	7	7	34	21
Pass-by		0	0	0	0	0	0
Non-pass-by		749	820	20	123	91	41
Total		4695	4693	315	208	401	504
otal Reduction		0	0	0	0	0	0
Total Internal		778	778	18	18	68	68
Total Pass-by		368	364	18	11	53	55
Total Non-pass-by		3549	3551	279	179	280	381

				PERIO	DD SETTING			✓ D/	ATA PR	OVIDED	BYITE
		Variable, Time P analysis. To reco						the calcul	ation of	the numb	er
PROJECT NAME	PINE RIDGE COMM	IONS - EXISTING PLUS	RESIDE	NTIAL							
ANALYSIS NAME	Weekday										
LAN	ND USE	INDEPENDENT VARIABLE		SIZE	TIME PERI	OD	METHO	OD	ENTRY	EXIT	TOTAL
Q 820 - Shopp	ing Center	1000 Sq. Feet Gro	s: 🗸 7	75.243	Weekday	V	Best Fit (LOG) Ln(T) = 0.65Ln		2823	2822	5645
Q 710 - Genera		1000 Sq. Feet Gro	s: 🔽	129.1	Weekday	V	Best Fit (LOG) Ln(T) = 0.76Ln	(X) + 3.68	797	797	1594
230 - Reside Condominius	ential m/Townhouse	Dwelling Units	<b>V</b>	400	Weekday	<b>~</b>	Best Fit (LOG) Ln(T) = 0.87Ln		1075	1074	2149
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below disp Internal Tri section. To 684.  820 - Shopping Exit 2822 Entry 2823  820 - Shopping Exit 2822 Entry 2823  710 - General C	lays the total n ps for each Lai o record any no  Center Demand Exit: Office Building Demand Exit: Demand Entry: 3 Center  TOTAL TRIPS 2823 (100%) 2822 (100%) 5645 (100%)  Office Building	umber of trips the duse will be dutes, click the at the second of the suiding second of the seco	at haveducted	ve been ed from t ibove. Fe Bal Bal Bal Bal	and Use or reduced fro reduced fro recomme stanced: 85 anced: 113 anced: 254 lanced: 16 lanced: 0 INTERNAL 1 ential Condon	the le n a pa Entry ded v v lentry ded v v lentry ded v v lentry ded v v lentry ded	rticular Land Trips and Ex alues see th  Demand Entry: Demand Exit: 230 - Re Demand Exit: 230 - Re Demand Exit: 230 - Re Demand Exit: Ownhouse	710 (15 %) 22 %  15 % 22 %  16 in	total num the pum the	umber of previous or NCHRF  Office Build Entry Exit  um/Townhot Entry Exit  External 2456 (87 2427 (86 4883 (87 EXTERNAL 2457 (87 EXTERNAL 3488) (87 EXTERNAL 3488)	ing 797 797 797 1074 1074 1075 1074 1074 1078 1079 1079 1079 1079 1079 1079 1079 1079

	ential Condominium/To	ownhouse	Assertica husbance - Principa Pitter		
	TOTAL TRIPS	820 - Shopping	INTERNAL TRIPS	1	EXTERNAL TRIPS
Entry	1075 (100%)	Center 310 (29%)	710 - General Office Building 16 (1%)	326 (30%)	749 (70%)
Exit	1074 (100%)	254 (24%)	0 (0%)	254 (24%)	820 (76%)
Total	2149 (100%)	564 (26%)	16 (1%)	580 (27%)	1569 (73%)
External The via	Trips from the pre	vious section. To re Pass-by% value inc	ech Land Use. The percentage cord any notes, click Add Nilicates data provided by ITE. C	Notes above.	
	LAND USE	EXTERNAL	TRIPS PASS-BY%	PASS-BY TRIPS	NON-PASS-BY TRIPS
320 - Shoppi	ing Center	4883	15 %	732	4151
	al Office Building	1380	0 %	0	1380
:30 - Reside	ential Condominium/Tow	nhouse 1569	0 %	0	1569



230 - Residential C	ondominium/T	ownhouse			
то	TAL TRIPS	820 - Shopping	INTERNAL TRIPS	1	EXTERNAL TRIPS
Entry 2	27 (100%)	Center 6 (22%)	710 - General Office Building	Total 7 (26%)	20 (74%)
Exit 1	30 (100%) 57 (100%)	7 (5%) 13 (8%)	0 (0%)	7 (5%) 14 (9%)	123 (95%) 143 (91%)
			EXTERNAL TRIPS		
External Trips	from the pre	evious section. To re	ich Land Use. The percentage will k cord any notes, click & Add Notes icates data provided by ITE. Clickin	above.	
by% value to o			icates data provided by ITE. Clickin	ig the icon changes	
	ND USE	EXTERNAL 1	TRIPS PASS-BY%	PASS-BY TRIPS	NON-PASS-BY TRIPS
820 - Shopping Cent		114	25 %	29	85
710 - General Office 230 - Residential Co		/nhouse 143	0 %	0	230 143

			PERI	IOD SETTING		- D	ATA DD	OVIDED	BV ITE
				05 021 1110		V D.	AIAFN	OVIDED	DITTE
		Variable, Time Per analysis. To recor				the calcu	lation of	the num	ber
PROJECT NAME	PINE RIDGE COMM	ONS - EXISTING PLUS RE	ESIDENTIAL						
ANALYSIS NAME	PM Peak Hour								
LAN	ND USE	INDEPENDENT VARIABLE	SIZE	TIME PERIOD	METH	IOD	ENTRY	EXIT	TOTAL
Q 820 - Shopp	ing Center	1000 Sq. Feet Gros:	75.243	Weekday, Peak Hou	Best Fit (LOG Ln(T) = 0.67L		238	257	495
Q 710 - Gener	al Office Building	1000 Sq. Feet Gros:	129.1	Weekday, P.M. Pea	Boot Eit /LIND	<u>~</u> )(	38	185	223
230 - Reside Condominium	ential m/Townhouse	Dwelling Units	400	Weekday, Peak Hou	Best Fit (LOG		125	62	187
				The time periods	do not match.				
			TRAFFI	C REDUCTIONS	;				
			INTE	RNAL TRIPS					
				THE THE					
		f trips that occur be	etween the	Land Use on the					
below disp Internal Tr	lays the total n ips for each La	f trips that occur be umber of trips that nd Use will be dec otes, click the dicc	etween the t have beer ducted from	Land Use on the reduced from a the adjusted En	particular Land htry Trips and E	d Use. The xit Trips fr	total nom the	umber of previous	
below disp Internal Tr section. To	plays the total n ips for each La precord any no	umber of trips that nd Use will be dec otes, click the dice	etween the t have beer ducted from	Land Use on the reduced from a the adjusted En	a particular Land htry Trips and E ed values see th	d Use. The exit Trips fr ne ITE Ha	e total nom the	umber of previous	P
below disp Internal Tr section. To 684. 820 - Shopping Exit 257	plays the total n ips for each La precord any no Center Demand Exit:	umber of trips that nd Use will be decistes, click the disconnection (8)	etween the t have been ducted from on above. F	Land Use on the reduced from a the adjusted Enfor recommende	a particular Land ntry Trips and E ed values see th Demand Entry:	d Use. The exit Trips from the ITE Harmonian Trips from 1710 - 31 %	e total nom the ndbook General	umber of previous or NCHR  Office Build Entry	P ding 38
below disp Internal Tr section. To 684. 820 - Shopping Exit 257 Entry 238	olays the total n ips for each La or ecord any no Center Demand Exit: Demand Entry:	umber of trips that nd Use will be decistes, click the disconnection (8)	etween the t have been ducted from on above. F	Land Use on the n reduced from a the adjusted En For recommende	n particular Land ntry Trips and E ad values see th Demand Entry: Demand Exit:	od Use. The exit Trips from the ITE Hall 1990 1990 1990 1990 1990 1990 1990 19	e total nom the ndbook General (12) (43)	umber of previous or NCHR  Office Build Entry Exit	P ding 38 185
below disp Internal Tr section. To 684. 820 - Shopping Exit 257 Entry 238 820 - Shopping	olays the total nips for each Lab record any no center Demand Exit: Demand Entry:	umber of trips that nd Use will be decites, click the diction of the decites, click the diction of the diction	etween the t have been ducted from on above. F	Land Use on the reduced from a the adjusted Enfor recommende allowed and allowed as a second of the	n particular Land ntry Trips and E ed values see the Demand Entry: Demand Exit:	od Use. The exit Trips from ITE Harmonia 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e total nom the ndbook  General (12) (43)	umber of previous or NCHR  Office Build Entry Exit	P ding 38 185
below disp Internal Tr section. To 684. 820 - Shopping Exit 257 Entry 238	olays the total n ips for each La or ecord any no Center Demand Exit: Demand Entry:	umber of trips that nd Use will be decites, click the of ice	etween the t have been ducted from on above. F	Land Use on the reduced from a the adjusted Enfor recommende	n particular Land ntry Trips and E ad values see th Demand Entry: Demand Exit:	d Use. The exit Trips from ITE Hall 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e total nom the ndbook General (12) (43)	umber of previous or NCHR  Office Build Entry Exit	P ding 38 185
below disp Internal Tr section. To 684. 820 - Shopping Exit 257 Entry 238 820 - Shopping Exit 257	lays the total n ips for each La or record any no l Center Demand Exit: Demand Exit: Demand Exit: Demand Exit: Demand Exit: Demand Exit:	umber of trips that nd Use will be decites, click the of ice	etween the t have been ducted from on above. F	Land Use on the reduced from a the adjusted En- For recommended and the second	particular Land try Trips and E ed values see ti  Demand Entry: Demand Exit:  230 - R Demand Exit: Demand Exit:	of Use. The exit Trips from ITE Hall 18 18 18 18 18 18 18 18 18 18 18 18 18	General (12) (43) condomini (39) (33)	umber of previous or NCHR  Office Build Entry Exit um/Townho Entry Exit	P ding 38 185 use 125 62
below disp Internal Tr section. To 684. 320 - Shopping Exit 257 Entry 238 320 - Shopping Exit 257 Entry 238	lays the total n ips for each La or record any no l Center Demand Exit: Demand Exit: Demand Exit: Demand Exit: Demand Exit: Demand Exit:	umber of trips that nd Use will be decites, click the of ice	etween the t have beer ducted from on above. F	Land Use on the reduced from a the adjusted En- For recommended and the second	particular Land try Trips and E ed values see ti  Demand Entry: Demand Exit:  230 - R Demand Exit: Demand Exit:	710 - 31 % sesidential Co	General (12) (43) condomini (39) (33)	umber of previous or NCHR  Office Build Entry Exit um/Townho Entry Exit	P  ding  38  185  125  62  use
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