

Traffic Impact Statement

Baumgarten MPUD (fka Pelican Nursery MPUD) Planned Unit Development (PUD) Rezone

Collier County, FL 08/10/2018

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Collier County Transportation Methodology Fee – \$500.00

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Statement of Certification

I certify that this Traffic Impact Statement 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.



This item has been electronically signed and sealed by Norman J. Trebilcock, PE using a SHA-1 authentication code.

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Table of Contents

Project Description	4
Trip Generation	6
Trip Distribution and Assignment	9
Background Traffic	12
Existing and Future Roadway Network	13
Project Impacts to Area Roadway Network-Link Analysis	13
Site Access Turn Lane Analysis	15
Intersection Operational Analyses	17
Improvement Analysis	21
Mitigation of Impact	21
<u>Appendices</u>	
Appendix A: Project Master Site Plans	22
Appendix B: Initial Meeting Checklist (Methodology Meeting)	26
Appendix C: Trip Generation Calculations ITE 10th Edition	32
Appendix D: Turning Movement Exhibits	89
Appendix E: Raw Intersections Turning Movement Counts	92
Appendix F: FDOT 2016 Peak Season Factor Category Report – Excerpt	105
Appendix G: Intersections Projected Traffic at Buildout Conditions	107
Appendix H: Collier Blvd. & Immokalee Rd. Intersection – Approved Signalization Plan	119
Appendix I: Intersection Analyses – Synchro Studio 9	121

Project Description

The Baumgarten fka Pelican Nursery Property project is an existing nursery zoned A – Agricultural. The subject parcels have a total gross area of approximately 55.47 acres.

The project site is located in north Naples, in the southeast quadrant of the Immokalee Road (CR 846) and Collier Boulevard (CR 951) intersection, in Section 26, Township 48 South, Range 26 East, in Collier County, Florida. Refer to **Figure 1 – Project Location Map**.

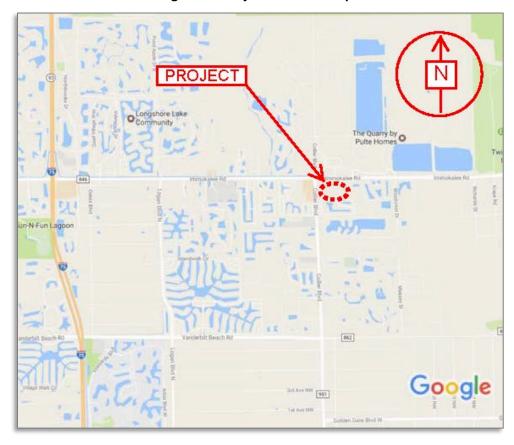


Figure 1 - Project Location Map

The Baumgarten project proposes to rezone the existing parcels to allow for commercial and residential development. The TIS will use the highest of the three potential development scenarios: **Scenario 1** consists of 112 dwelling unit (du) apartments, 30,000 square feet (sf) of general office, 147,000 sf shopping center, 6,000 sf (20 pumps) convenience market with gasoline pumps, 135,000 sf home improvement superstore and 7,000 sf fast-food restaurant with drive through window. **Scenario 2** considers 300 dwelling unit (du) apartments, 140 rooms hotel, 147,000 sf shopping center, 6,000 sf (20 pumps) convenience market with gasoline pumps and a 7,000 sf fast-food restaurant with drive through window. **Scenario 3** proposes 200 du apartments, 200 du condominium/townhouses, 150,000 sf shopping center, 6,000 sf (20 pumps) convenience market with gasoline pumps, a 7,000 sf fast-food

restaurant with drive through window, 45,000 square feet of medical office, and 20,000 sf restaurant. The proposed master site plans are illustrated in **Appendix A: Project Master Site Plans**.

For purposes of this evaluation, the project build-out year is assumed to be consistent with the Collier County 2023 planning horizon.

The project provides a highest and best use scenario with respect to the project's proposed trip generation. A trip generation comparison is provided for the Land Use Code (LUC) 960 – Super Convenience Market/Gas Station between two variables: the store Gross Floor Area (GFA) and the number of Fueling Positions (fp). For the LUC 960 – fueling positions is the conservative estimate of the two trip generations and it is used for the purposes of this report.

The trip generation associated with the hotel land use is conservatively calculated by utilizing the ITE occupied room variable.

The ITE 10th Edition Trip Generation Manual now classifies multifamily dwelling units as low, mid or highrise buildings and no longer classifies them as apartments or condominium/town home. The proposed dwelling units are depicted as Multifamily (Low-Rise), conservatively, based on a highest and best use for multifamily development. The master concept plans refer to the residential developments as apartment and condominium, as applicable, and the development program delineates both. Trip generation for Scenario 3, however, will calculate the trip generation for this land use as a total of the apartment and condominium dwelling units.

The associated common recreation amenities are considered passive incidental to the residential development and are not included in the trip generation analysis. The potential development program scenarios are illustrated in **Table 1.**

Table 1
Development Program – Scenarios

ITE Land Use	ITE Land Use Code	Scenario 1 Total Size	Scenario 2 Total Size	Scenario 3 Total Size
Multifamily (Low Rise) ⁽¹⁾	220	112 du	300 du	200 du
Multifamily (Low Rise) ⁽²⁾	220	N/A	N/A	200 du
Hotel	310	N/A	140 or	N/A
General Office	710	30,000 sf	N/A	N/A
Medical Office	720	N/A	N/A	45,000 sf
Shopping Center	820	147,000 sf	147,000 sf	150,000 sf
Home Improvement Superstore	862	135,000 sf	N/A	N/A
Restaurant	932	N/A	N/A	20,000 sf
Fast-Food Restaurant with Drive-Through Window	934	7,000 sf	7,000 sf	7,000 sf
Super Convenience Market/Gas Station	960	6,000 sf, 20 fp	6,000 sf, 20 fp	6,000 sf, 20 fp

Note(s): N/A = not applicable; du = dwelling unit; sf = square feet; fp = fueling positions, or = occupied rooms.

A methodology meeting was held with the Collier County Transportation Planning staff on April 20, 2017, via email (ref. **Appendix B: Initial Meeting Checklist (Methodology Meeting**).

Connections to the subject site are proposed to be provided as follows:

- o Collier Boulevard (CR 951): Proposed full access connection onto CR 951.
- Immokalee Road: West access proposed new right-in/right-out access onto eastbound
 Immokalee Road. East access existing directional left-in/right-in/right-out access onto eastbound
 Immokalee Road to remain.

Trip Generation

The project's site trip generation is based on the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual, 10th Edition</u>. The software program OTISS (Online Traffic Impact Study Software, most current version is used to create the raw unadjusted trip generation for the project. The ITE equations and/or rates are used for the trip generation calculations, as applicable. The ITE – OTISS trip generation calculation worksheets are provided in **Appendix C: Trip Generation Calculations ITE 10th Edition**.

⁽¹⁾Apartments

⁽²⁾Condominium

The **internal capture** accounts for a reduction in external traffic because of the interaction between the multiple land uses in a site. ITE guidelines used for the calculation of internal capture follow the same recommended procedure presented in the NCHRP Report 684: Enhancing Internal Trip Capture Estimation for Mixed-Use Developments.

One of the ITE premises in estimating the internal capture traffic illustrates that the number of trips from a land use within a mixed-use development to another land use within the same development (an internal trip) is a function of the size of the "receiving" land use and the number of trips it attracts, as well as the size of the "originating" land use and the number of trips it sends. The number of trips between a particular pair of internal land uses is limited to the smaller of these two values (ITE procedure of balancing internal trips in a mixed-use development).

For the purposes of this analysis and following Collier County TIS Guidelines recommendations, the overall internal capture rate does not exceed 20%.

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 turn lane analysis (all external traffic is accounted for).

Consistent with Collier County TIS Guidelines and Procedures, fast food restaurants with drive-through windows and gasoline/service stations with convenience market are allowed maximum pass-by traffic of 50% of the project's external trip generation potential. In addition, the county TIS Guidelines recommends that shopping center pass-by rates should not exceed 25% for the peak hour and the daily capture rates to be assumed 10% lower than the peak hour capture rate. Furthermore, the High Turnover Sit-Down Restaurant pass-by rate is limited to 40% per county guidelines.

This analysis calculates LUC 934 and LUC 960 pass-by daily rates at 40% and AM and PM peak hour rates at 50%. Shopping center and home improvement superstore daily pass-by trips are calculated at 15% of the gross traffic with AM and PM peak hour at 25% of the gross trips. The High Turnover Sit-Down Restaurant LUC 932 pass-by daily rates utilized are 30% and AM and PM peak hour rates at 40%.

Table 2A

Trip Generation – Scenario 1 – Average Weekday

Development Scenario 1	24 Hour Two- Way Volume	AM Peak Hour PM Pe			VI Peak H	our	
Traffic		Enter	Exit	Total	Enter	Exit	Total
Unadjusted	21,006	744	644	1,388	897	930	1,827
Internal Capture	(1,736) ⁽¹⁾	(58)	(58)	(116)	(131)	(131)	(262)
External	19,270	686	586	1,272	766	799	1,565
Pass-by	(4,503)	(255)	(236)	(491)	(259)	(260)	(519)
Net External	14,767	431	350	781	507	539	1,046

Note(s): (1) Daily internal capture rates are not available in the 3rd Edition Trip Generation Handbook; AM rates are used to calculate daily internal capture.

Table 2B
Trip Generation – Scenario 2 – Average Weekday

Development Scenario 2	24 Hour Two- Way Volume	AM Peak Hour			PI	VI Peak H	our
Traffic		Enter	Exit	Total	Enter	Exit	Total
Unadjusted	19,659	645	645	1,290	845	814	1,659
Internal Capture	(2,238)(1)	(74)	(74)	(148)	(147)	(147)	(294) ⁽²⁾
External	17,421	571	571	1,142	698	667	1,365
Pass-by	(3,763)	(214)	(213)	(427)	(228)	(223)	(451)
Net External	13,658	357	358	715	470	444	914

Note(s): (1) Daily internal capture rates are not available in the 3rd Edition Trip Generation Handbook; AM rates are used to calculate daily internal capture.

⁽²⁾ Adjusted not to exceed 20% maximum internal capture.

Table 2C
Trip Generation – Scenario 3 – Average Weekday

Development Scenario 3	24 Hour Two- Way Volume	AM Peak Hour F			PI	PM Peak Hour		
Traffic		Enter	Exit	Total	Enter	Exit	Total	
Unadjusted	22,696	801	756	1,557	993	982	1,975	
Internal Capture	(3,010) ⁽¹⁾	(87)	(87)	(174)	(147)	(147)	(294)	
External	19,686	714	669	1,383	846	835	1,681	
Pass-by	(4,377)	(259)	(247)	(506)	(272)	(254)	(526)	
Net External	15,309	455	422	877	574	581	1,155	

Note(s): (1) Daily internal capture rates are not available in the 3rd Edition Trip Generation Handbook; AM rates are used to calculate daily internal capture.

As illustrated by **Table 2A**, **2B** and **Table 2C**, the net external traffic of **Scenario 3** is greater when compared with the other two scenarios; therefore, the trip generation for **Scenario 3** is utilized for the analysis of this report.

In agreement with the Collier County Traffic Impact Study (TIS) guidelines, significantly impacted roadways are identified based on the proposed project highest peak hour trip generation (net external traffic) and consistent with the peak hour of the adjacent street traffic. Based on the information contained in Collier County 2017 Annual Update and Inventory Report (AUIR), the peak hour for adjacent roadway network is PM.

For the purpose of this TIS, the surrounding roadway network link concurrency analysis is analyzed based on projected PM peak hour net external traffic generated by the project.

The site operational analysis reflects projected AM and PM peak hour external traffic generated by the project.

Trip Distribution and Assignment

The traffic generated by the development was assigned to the adjacent roadways using the knowledge of the area and as coordinated with Collier County Transportation Planning staff.

The site-generated trip distribution is shown in **Table 3**, **Project Traffic Distribution for Peak Hour** and is graphically depicted in **Figure 2 – Project Distribution by Percentage and by PM Peak Hour**.

Table 3
Project Traffic Distribution for Peak Hour

Roadway Link	Collier	Collier Distribu County Roadway Link Location of Pro		PM Peak Hour Volu	Project Traffic ume
Modulusy Elling	Link No.	Roddwdy Ellik Edddioli	Traffic	Enter	Exit
Immokalee Rd.	44.0	East of Collier Blvd.	35%	WB – 201	<u>EB – 203</u>
Immokalee Rd.	43.2	Logan Blvd. to Collier Blvd.	30%	<u>EB – 172</u>	WB – 175
Immokalee Rd.	43.1	I-75 to Logan Blvd.	10%	<u>EB – 57</u>	WB – 58
Collier Blvd.	N/A ¹	North of Immokalee Rd.	5%	SB – 29	NB – 29
Collier Blvd.	30.1	Immokalee Rd. to Vanderbilt Beach Rd.	30%	<u>NB – 172</u>	SB – 174
Collier Blvd.	30.2	Vanderbilt Beach Golden Gate Blvd.	10%	NB – 57	<u>SB – 58</u>
Vanderbilt Beach Rd.	N/A¹	East of Collier Blvd.	5%	WB – 29	EB – 29
Vanderbilt Beach Rd.	112.0	Logan Blvd. to Collier Blvd.	10%	<u>EB – 57</u>	WB – 58
Logan Blvd.	N/A¹	North of Immokalee Rd.	5%	SB – 29	NB – 29
Logan Blvd.	50.0	Immokalee Rd. to Vanderbilt Beach Rd.	10%	<u>NB – 57</u>	SB – 58

Note(s): (1) Not a Collier County Monitored roadway.

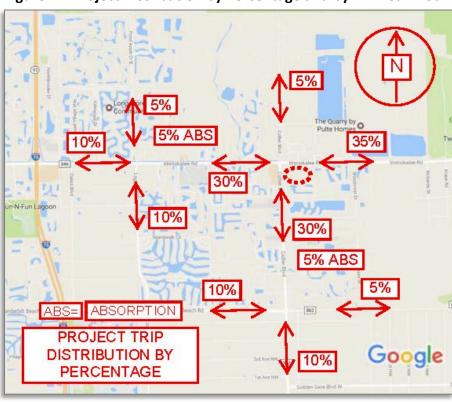
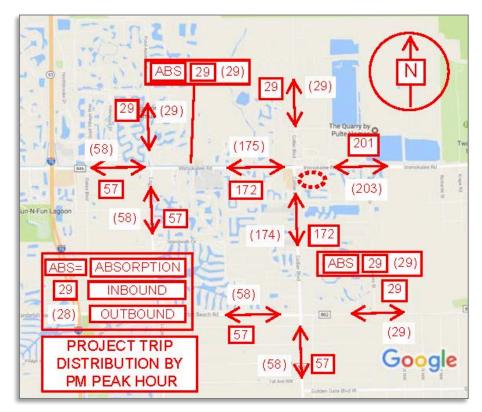


Figure 2 – Project Distribution by Percentage and by PM Peak Hour



Background Traffic

Average background traffic growth rates were estimated for the segments of the roadway network in the study area using the Collier County Transportation Planning Staff guidance of a minimum 2% growth rate, or the historical growth rate from annual traffic counts (estimated from 2008 through 2017), whichever is greater. Another way to derive the background traffic is to use the 2017 AUIR volume plus the trip bank volume. **Table 4, Background Traffic without Project,** illustrates the application of projected growth rates to generate the projected background (without project) peak hour peak direction traffic volume for the future horizon year 2023.

Table 4
Background Traffic without Project (2017 - 2023)

Roadway Link	CC AUIR Link ID #	Roadway Link Location	2017 AUIR Pk Hr, Pk Dir Background Traffic Volume (trips/hr)	Projected Traffic Annual Growth Rate (%/yr)*	Growth Factor	2023 Projected Pk Hr, Peak Dir Background Traffic Volume w/out Project (trips/hr) Growth Factor**	Trip Bank	2023 Projected Pk Hr, Peak Dir Background Traffic Volume w/out Project (trips/hr) Trip Bank***
Immokalee Rd.	44.0	East of Collier Blvd.	1,620	2.00%	1.1262	1,825	547	<u>2,167</u>
Immokalee Rd.	43.2	Logan Blvd. to Collier Blvd.	1,980	3.93%	1.2602	2,496	585	<u>2,565</u>
Immokalee Rd.	43.1	I-75 to Logan Blvd.	2,458	3.52%	1.2307	<u>3,026</u>	345	2,803
Collier Blvd.	30.1	Immokalee Rd. to Vanderbilt Beach Rd.	1,520	3.45%	1.2257	1,864	447	<u>1,967</u>
Collier Blvd.	30.2	Vanderbilt Beach Golden Gate Blvd.	1,220	2.0%	1.1262	<u>1,374</u>	86	1,306
Vanderbilt Beach Rd.	112.0	Logan Blvd. to Collier Blvd.	1,530	4.0%	1.2653	<u>1,936</u>	262	1,792
Logan Blvd.	50.0	Immokalee Rd. to Vanderbilt Beach Rd.	560	4.0%	1.2653	<u>709</u>	30	590

Note(s): *Annual Growth Rate - from 2017 AUIR, 2% minimum.

The projected 2023 Peak Hour – Peak Direction Background Traffic is the greater of the Growth Factor or Trip Bank calculation, which is <u>underlined</u> and <u>bold</u> as applicable.

^{**}Growth Factor = (1+Annual Growth Rate)6. 2023 Projected Volume = 2017 AUIR Volume x Growth Factor.

^{***2023} Projected Volume= 2017 AUIR Volume + Trip Bank.

Existing and Future Roadway Network

The existing roadway conditions are extracted from the 2017 Annual Update and Inventory Report (AUIR) and the project roadway conditions are based on the current Collier County 5-Year Work Program. Roadway improvements that are currently under construction or are scheduled to be constructed within the five year Transportation Improvement Plan (TIP) or Capital Improvement program (CIP) are considered to be committed improvements. As no such improvements were identified in the Collier County 2017 AUIR, the evaluated roadways are anticipated to remain as such through project build-out. The existing and future roadway conditions are illustrated in Table 5, Existing and Future Roadway Conditions.

Table 5
Existing and Future Roadway Conditions

Roadway Link	CC AUIR Link ID #	Roadway Link Location	Exist Roadway	Min. Standard LOS	Exist Peak Dir, Peak Hr Capacity Volume	Future Project Build out Roadway
Immokalee Rd.	44.0	East of Collier Blvd.	6D	E	3,300 (EB)	6D
Immokalee Rd.	43.2	Logan Blvd. to Collier Blvd.	6D	E	3,200 (EB)	6D
Immokalee Rd.	43.1	I-75 to Logan Blvd.	6D/8D	E	3,500 (EB)	6D/8D
Collier Blvd.	30.1	Immokalee Rd. to Vanderbilt Beach Rd.	6D	E	3,000 (NB)	6D
Collier Blvd.	30.2	Vanderbilt Beach Golden Gate Blvd.	6D	E	3,000 (SB)	6D
Vanderbilt Beach Rd.	112.0	Logan Blvd. to Collier Blvd.	6D	E	3,000 (EB)	6D
Logan Blvd. N	50.0	Immokalee Rd. to Vanderbilt Beach Rd.	2U	D	1,000 (NB)	2U

Note(s): 2U = 2-lane undivided roadway; 4D, 6D, 8D =4-lane, 6-lane, 8-lane divided roadway, respectively; LOS = Level of Service.

Project Impacts to Area Roadway Network-Link Analysis

The Collier County Transportation Planning Services developed Level of Service (LOS) volumes for the roadway links impacted by the project, which were evaluated to determine the project impacts to the area roadway network in the future. The Collier County Transportation Planning Services guidelines have determined that a project will be considered to have a significant and adverse impact if **both** the percentage volume capacity exceeds 2% of the capacity for the link directly accessed by the project and for the link adjacent to the link directly accessed by the project; 3% for other subsequent links **and** if the roadway is projected to operate below the adopted LOS standard.

Based on these criteria, this project's impacts are significant on Immokalee Road east and west of Collier Boulevard, significant on Collier Boulevard between Immokalee Road and Vanderbilt Beach Road, and significant on Logan Boulevard between Immokalee Road and Vanderbilt Beach Road. The estimated traffic does not create any significant impacts on the other analyzed roadway segments of the study network.

None of the analyzed links are projected to exceed the adopted LOS standard with or without the project at 2023 future build-out conditions. **Table 6, Roadway Link Level of Service** illustrates the LOS impacts of the project on the roadway network closest to the project.

Table 6
Roadway Link Level of Service (LOS) – With Project in the Year 2023

Roadway Link	CC AUIR Link ID#	Roadway Link Location	2017 Peak Dir, Peak Hr Capacity Volume	Roadway Link, Peak Dir, Peak Hr (Project Vol Added)*	2023 Peak Dir, Peak Hr Volume w/Project **	% Vol Capacity Impact By Project	Min LOS exceeded without Project? Yes/No	Min LOS exceeded with Project? Yes/No
Immokalee Rd.	44.0	East of Collier Blvd.	3,300 (EB)	EB – 203	2,370	6.2%	No	No
Immokalee Rd.	43.2	Logan Blvd. to Collier Blvd.	3,200 (EB)	EB – 172	2,737	5.4%	No	No
Immokalee Rd.	43.1	I-75 to Logan Blvd.	3,500 (EB)	EB – 57	3,083	1.6%	No	No
Collier Blvd.	30.1	Immokalee Rd. to Vanderbilt Beach Rd.	3,000 (NB)	NB – 172	2,139	5.7%	No	No
Collier Blvd.	30.2	Vanderbilt Beach Golden Gate Blvd.	3,000 (SB)	SB – 58	1,432	1.9%	No	No
Vanderbilt Beach Rd.	112.0	Logan Blvd. to Collier Blvd.	3,000 (EB)	EB – 57	1,993	1.9%	No	No
Logan Blvd. N	50.0	Immokalee Rd. to Vanderbilt Beach Rd.	1,000 (NB)	NB – 57	766	5.7%	No	No

Note(s): *N/A= not applicable; estimated no net new traffic generated by proposed PUDA conditions.

^{**2023} Projected Volume= 2023 background (refer to **Table 4**) + Project Volume added.

Site Access Turn Lane Analysis

Connections to the subject site are proposed to be provided as follows:

- Collier Boulevard (CR 951): Proposed full access connection onto Collier Boulevard. This
 proposed full median opening allows a reasonable solution to alleviate traffic congestion at this
 location.
- Immokalee Road: West access new right-in/right-out access onto eastbound Immokalee Road proposed. East access – existing directional left-in/right-in/right-out access onto eastbound Immokalee Road to remain.

For details see Appendix A: Approved Master Site Plans.

Immokalee Road (CR 846) is a 6-lane urban divided arterial under Collier County jurisdiction, and has a posted legal speed of 45 mph in the vicinity of the project. This is currently a curb and gutter facility at this location. As depicted in the Manual of Uniform Minimum Standards ("MUMS") for Design, Construction and Maintenance for Streets and Highways (commonly known as the "Florida Greenbook"), Table 3-15, curb and gutter is not to be used on facilities with design speed greater than 45 mph. However based on the County Staff's concerns in regards to counted higher speeds, a design speed 5 mph greater than the posted speed limit is chosen to compensate for a slight overrunning of the speed limit by some drivers. Based on FDOT Index 301, design speed of 50 mph – urban conditions – the minimum turn lane length is 240 feet (which includes a 50 foot taper) plus required queue.

Collier Boulevard (CR 951) is a 6-lane urban divided arterial under Collier County jurisdiction, and has a posted legal speed of 45 mph in the vicinity of the project. Based on similar justification illustrated for Immokalee Road, a design speed 5 mph greater than the posted speed limit is chosen to compensate for a slight overrunning of the speed limit by some drivers. Based on a design speed of 50 mph, the minimum turn lane length is 240 feet (which includes a 50 foot taper) plus required queue.

Project access is evaluated for turn lane warrants based on the Collier County Right-of-way Manual: (a) two-lane roadways — 40vph for right-turn lane/20vph for left-turn lane; and (b) multi-lane divided roadways — right turn lanes shall always be provided; and (c) when new median openings are permitted, they shall always include left-turn lanes.

Turn lane lengths required at build-out conditions are analyzed based on the number of turning vehicles in an average one-minute period for right-turning movements, and two-minute period for left-turning movements, within the peak hour traffic. The minimum queue length is 25 feet and the queue/vehicle is 25 feet.

Site access analysis is evaluated based on the most intensive development scenario from a traffic perspective (Scenario 3).

The estimated project trips at driveway locations are illustrated in **Appendix D: Project Turning**Movements Exhibits.

Immokalee Road - West Site Access

A dedicated eastbound right-turn lane is warranted as the project meets the multi-lane criteria. The proposed project is expected to generate 72vph and 84vph right-turning movements during the AM and PM peak hour, respectively. At the minimum, the turn lane should be 290 feet long (which includes a minimum of 50 feet of storage).

Immokalee Road - East Site Access

A dedicated eastbound right-turn lane is warranted as the project meets the multi-lane criteria. There is an existing right-turn lane approximately 240 feet long. The proposed project is expected to generate 71vph and 85vph right-turning movements during the AM and PM peak hour, respectively. At the minimum, the turn lane should be 290 feet long (which includes a minimum of 50 feet of storage). As such, the existing right-turn lane would need to be extended a minimum of 50 feet to accommodate projected traffic at this location.

A dedicated westbound left-turn lane is warranted as the project meets the multi-lane criteria. There is an existing left-turn lane approximately 360 feet long. The proposed project is expected to generate 250vph and 296vph left-turning movements during the AM and PM peak hour, respectively. At the minimum, the turn lane should be 490 feet long (which includes a minimum of 250 feet of storage). As such, the existing left-turn lane would need to be extended a minimum of 130 feet to accommodate projected traffic at this location.

Collier Boulevard - Site Access

A dedicated northbound right-turn lane is warranted as the project meets the multi-lane criteria. The proposed project is expected to generate 214vph and 254vph right-turning movements during the AM and PM peak hour, respectively. At the minimum, the turn lane should be 365 feet long (which includes a minimum of 125 feet of storage).

A dedicated southbound left-turn lane is warranted as the project meets the multi-lane criteria. The proposed project is expected to generate 107vph and 127vph left-turning movements during the AM and PM peak hour, respectively. At the minimum, the turn lane should be 365 feet long (which includes a minimum of 125 feet of storage).

A detailed evaluation of applicable access points – turn lane requirements will be performed at the time of site development permitting/platting when more specific development parameters will be made available.

Eastbound U-turn/Left-turn - Immokalee Road and Bellaire Bay Drive Intersection

There is an existing eastbound U-turn/left-turn lane approximately 340 feet long serving this intersection. The proposed project is expected to generate 134vph and 167vph U-turning movements during the AM and PM peak hour, respectively. At the minimum, the turn lane should be 390 feet long (which includes a minimum of 150 feet of storage). As such, the existing left-turn lane would need to be extended a minimum of 50 feet to accommodate projected traffic at this location.

Intersection Operational Analyses

Intersection Traffic Volumes

To support the traffic analysis, intersection turning movement counts were conducted on January 31 and February 1, 2018, at the following locations: Collier Blvd. and Immokalee Rd. intersection, Collier Blvd. and Pebblebrooke Center driveway intersection and Collier Blvd. and Tuscany Cove Dr. intersection – Southbound Left/U turns only. AM and PM peak period turning movement data were collected in 15-minute intervals from 7-9 AM, and from 4-6 PM.

A summary of the intersection turning movement counts is provided in **Appendix E: Raw Intersections Turning Movement Counts**.

Traffic count volumes collected are adjusted for peak season conditions by using the peak season conversion factor (PSCF) as illustrated in FDOT 2016 Peak Season Factor Category Report. For this report the PSCF utilized is 1.00 as shown in **Appendix F: FDOT 2016 Peak Season Factor Category Report – Excerpt**.

It is noted that based on the two day AM and PM peak hour raw traffic count data, the most intense traffic data is conservatively utilized versus the average of the two, as follow:

- Collier Blvd. & Immokalee Rd Intersection AM peak hour 7.00-8.00AM on Thu 02/01/2018 (intersection hourly traffic = 5,292vph); PM peak hour 5.00-6.00PM on Wed 01/31/2018 (intersection hourly traffic = 5,649vph);
- Collier Blvd. & Pebblebrooke Center Drive AM peak hour 8.00-9.00AM on Wed 01/31/2018 (intersection hourly traffic = 301vph); PM peak hour 4.45-5.45PM on Wed 01/31/2018 (intersection hourly traffic = 632vph);
- Collier Blvd. & Tuscany Cove Drive Southbound Left/U turns only AM peak hour 7.45-8.45AM on Thu 02/01/2018 (hourly traffic = 48vph); PM peak hour 4.15-5.15PM on Thu 02/01/2018 (hourly traffic = 221vph);

Annual growth rates utilized to evaluate the analyzed intersections traffic for future 2023 conditions are considered as follows: 2% for through lanes and 1% for turn lanes.

Subject intersections are evaluated based on the calculated background traffic with the additional traffic estimated for PUD buildout conditions. The estimated overall traffic is shown in **Appendix G: Intersections Projected Traffic at Buildout Conditions**.

Collier Blvd. and Immokalee Rd. Intersection - Capacity and Quality/Level of Service (LOS)

As requested by Collier County Transportation staff the Collier Boulevard and Immokalee Road intersection is analyzed for capacity and quality/Level of Service (LOS) purposes.

The intersection lane configuration is illustrated in in Appendix H: Collier Blvd. & Immokalee Rd. Intersection – Approved Signalization Plan.

- North Approach Two through lanes, one right turn lane and one left turn lane.
- South Approach One through lane, two right turn lanes and three left turn lanes.
- East Approach Three through lanes, one right turn lane and three left turn lanes.
- West Approach Three through lanes, one right turn lane and two left turn lanes.

An assessment of the Level of Service (LOS) and volume to capacity ratio analysis of the subject intersection is conducted using Synchro Studio 9 (Trafficware Version 9). This software has the capability of utilizing the Highway Capacity Manual 2010 (HCM 2010) and HCM 2000 methodologies to analyze signalized and unsignalized intersections. In addition, Synchro implements the Intersection Capacity Utilization (ICU) 2003 method for determining intersection capacity. This method compares the current volume to the intersection's ultimate capacity.

The HCM control delay is used as the basis for determining LOS, ranging from LOS A to LOS F using the delay ranges for signalized intersections. According to HCM, the level of service criterion for intersections is shown in **Table 7**.

Table 7 Level of Service for Intersections

Average Delay (seconds / vehicle)					
Signalized Intersections	gnalized Intersections Unsignalized intersections				
< 10.0	< 10.0	А			
> 10.0 to < 20.0	> 10.0 to < 15.0	В			
> 20.0 to < 35.0	> 15.0 to < 25.0	С			
> 35.0 to < 55.0	> 25.0 to < 35.0	D			
> 55.0 to < 80.0	> 35.0 to < 50.0	E			
> 80.0	> 50.0	F			

Based on HCM guidelines, the general description of each LOS is as follows: LOS A – free flow; LOS B – stable flow with slight delays, LOS C – stable flow with acceptable delays, LOS D – approaching unstable flow with tolerable delay and unfavorable progression, LOS E – unstable flow with intolerable delay and poor progression to all movements, and LOS F – forced flow (congested and queues fail to clear) and poor progression to all movements.

The LOS for overall approach or intersection is determined solely by the control delay. In addition, if the volume-to-capacity (V/C) ratio for a lane group exceeds 1.0, LOS F is assigned to the individual lane group.

To support the signalized intersection analysis, the existing programmed signal timings (MaxTime Timing Sheet) were provided by Collier County Transportation staff. Based on our review, a 170 second cycle length is used for the AM and PM peak hour evaluations.

The HCS 2010 percent heavy vehicle is assumed the Design Hour Truck (DHT) – the percent of trucks expected to use the roadway segment during the design hour of the design year. Design Hour Truck is determined as half of T24 (annual 24-hour percentage of trucks). A 2% heavy vehicle factor is assumed for all movements for the purposes of this analysis.

The volume to capacity ratio (V/C), also referred to as degree of saturation, represents the sufficiency of an intersection to accommodate the vehicular demand. A V/C ratio less than 0.85 generally indicates that adequate capacity is available and vehicles are not expected to experience significant queues and delays. As the V/C ratio approaches 1.0, traffic flow may become unstable, and delay and queuing conditions may occur. Once the demand exceeds the capacity (a V/C ratio greater than 1.0), traffic flow is unstable and excessive delay and queuing is expected. Under these conditions vehicles may require more than one signal cycle to pass through the intersection (known as cycle failure). For design purposes, a V/C ratio between 0.85 and 0.95 is generally utilized for the peak hour of the horizon year. As such, each intersection movement is analyzed to ensure that the threshold value of V/C failure (1.0) is not exceeded.

The results of the traffic Synchro intersection analysis for AM and PM peak hour conditions are summarized in **Table 8**. Synchro intersection worksheets are provided in **Appendix I**: **Intersection Analyses – Synchro Studio 9 Printouts**.

Table 8
Collier Blvd. and Immokalee Rd. Intersection Traffic Analysis

Traffic Control Existing/Future – Signalized	2018 Background Traffic AM/PM Pk Hr	2023 Background Traffic AM/PM Pk Hr	2023 Background Traffic with Project AM/PM Pk Hr
Intersection LOS	C/D	C/D	D/D
Approach LOS Failure (LOS F)	No/No	No/No	No/No
V/C ratio > 1 for Movements	No/No	No/No	No/No

Collier Blvd. and Pebblebrooke Center/Project Access Intersection - Capacity and LOS

The Developer proposes a signalized full opening access which is analyzed for capacity and LOS purposes. The intersection lane configuration is illustrated as follow:

- North Approach Three through lanes, one right turn lane and one left turn lanes.
- South Approach Three through lanes, one right turn lane and one left turn lanes.
- East Approach One shared through/left lane and one right turn lane.
- West Approach One shared through/left lane and one right turn lane.

Consistent with signal timings provided for Immokalee Road and Collier Blvd intersection, a 170 second cycle length is used for the AM and PM peak hour analyses.

The results of the traffic Synchro intersection analysis for AM and PM peak hour conditions are summarized in **Table 9**. Synchro intersection worksheets are provided in **Appendix I**: **Intersection Analyses – Synchro Studio 9 Printouts**.

Table 9
Collier Blvd. and Pebblebrooke Center/Project Access Intersection Traffic Analysis

Traffic Control Existing – Unsignalized Future – Signalized	2023 Background Traffic with Project AM Pk Hr	2023 Background Traffic with Project PM Pk Hr
Intersection LOS	С	С
Approach LOS Failure (LOS F)	No	No
V/C ratio > 1 for Movements	No	No

Collier Blvd. and Tuscany Cove Dr. Intersection - Southbound U/Left Turn Lane Adequacy

The existing southbound left-turn lane servicing the Tuscany Cove Development is approximately 365 feet long (which includes 50 feet of taper), developed at maximum extent due to geometric constrains (existing directional left turn lane servicing the Pebblebrooke Center plaza, located to the north).

Based on the traffic counts information provided (current 2018 peak season conditions), the existing turn lane provides service for 48vph in the AM peak hour and 221vph in the PM peak hour. **Table 10** illustrates the projected 2023 PM peak hour background traffic volume.

Table 10
Background PM Peak Hour Traffic at Year 2018 – 2023

Movement	2018 Peak Season Background Traffic Volume (trips/hr)*	Projected Traffic Annual Growth Rate (%/yr)	Growth Factor**	2023 Peak Season Background Traffic Volume (trips/hr) **	Recommended
Southbound Left/U – turn Lane	221	1.00%	1.0510	233	200

Note(s): *Includes 175vph U-turns.

As such, at the minimum, the southbound left-turn lane should be 440 feet long (240 foot deceleration lane with taper and 200 feet storage) to accommodate projected traffic.

^{**}Growth Factor = (1+Annual Growth Rate) ^5. 2023 Projected Volume = 2018 AUIR Volume x Growth Factor.

^{***}Based on 2-minute queue.

The proposed signalized full opening at the project access on Collier Blvd. would alleviate congestion. A full opening at Pebblebrooke Center driveway will provide a left-out for the currently 175vph U-turn movements.

As illustrated in the traffic counts data, the Tuscany Cove development generates 46 left turns in the peak hour (PM peak hour). To adequately accommodate future traffic at 2023 year conditions (46x1.0510 = 49 trips), this turn lane should be 290 feet (240 foot deceleration lane with taper and 50 feet storage). As such, the existing turn lane will be satisfactory provided a signalized intersection at proposed project access is allowed.

Improvement Analysis

Based on the link analysis and trip distribution, this project's impacts are significant on Immokalee Road east and west of Collier Boulevard, significant on Collier Boulevard between Immokalee Road and Vanderbilt Beach Road, and significant on Logan Boulevard between Immokalee Road and Vanderbilt Beach Road. Projected traffic does not create any significant impacts on the other analyzed roadway segments of the study network.

None of the analyzed links are projected to exceed the adopted LOS standard with or without the project at 2023 future build-out conditions. There is adequate and sufficient roadway capacity to accommodate the proposed development without adversely affecting adjacent roadway network level of service.

Based upon the results of turn lane analysis performed within this report, turn lane improvements are recommended at the main project accesses. A detailed evaluation of applicable access points – turn lane requirements will be performed at the time of site development permitting/platting when more specific development parameters will be made available.

Based on the results of the Synchro analysis, Collier Boulevard and Immokalee Road intersection operates at an acceptable level of service under future 2023 background conditions with the addition of the traffic generated by the proposed development. In addition, a future signal at project access on Collier Boulevard will provide an adequate Level of Service and will alleviate congestion on the Collier Boulevard southbound left turn lane servicing the Tuscany Cove Development.

Mitigation of Impact

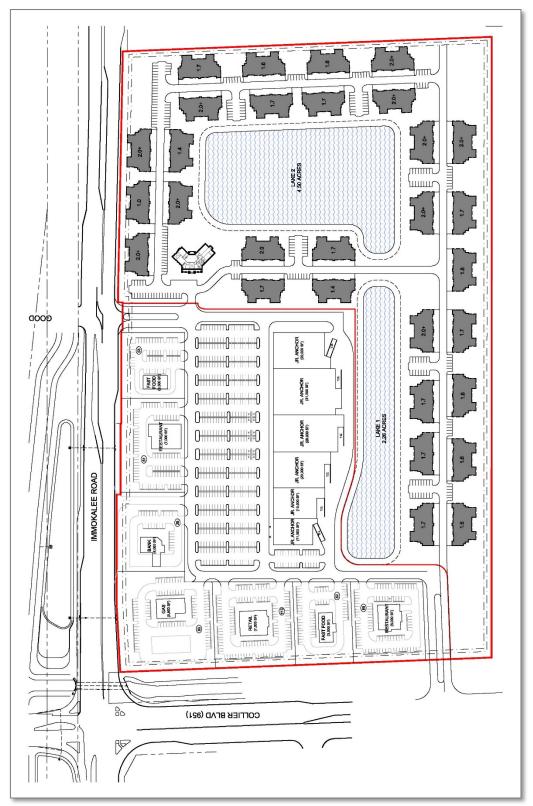
The developer proposes to pay the appropriate Collier County Road Impact Fee as building permits are issued for the project.

Baumaarten MPUD (fka Pelican Nurserv MPU	D) – PUD Rezone –	- TIS - Au	iaust 201	18
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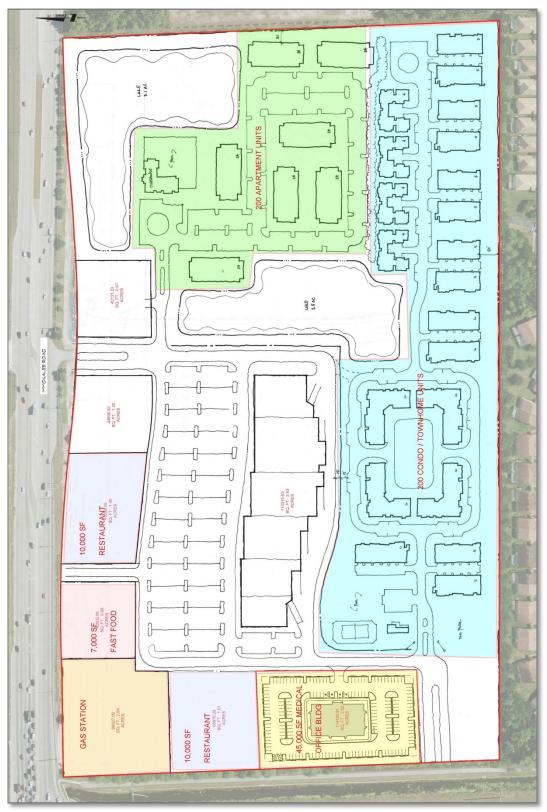
Appendix A: Project Master Site Plans

Master Site Plan - Scenario 1 GOODLAND BAY DR IMMOKALEE ROAD COLLIER BLVD (951)

Master Site Plan - Scenario 2



Master Site Plan - Scenario 3



Appendix B: Initial Meeting Checklist (Methodology Meeting)

INITIAL MEETING CHECKLIST

Suggestion: Use this Appendix as a worksheet to ensure that no important elements are overlooked. Cross out the items that do not apply, or N/A (not applicable).

Date: April 20, 2017 Time: N/A

Location: via email

People Attending:

Name, Organization, and Telephone Numbers

- 1) Michael Sawyer, Collier County Transportation Planning
- 2) Norman Trebilcock, Trebilcock Consulting Solutions
- 3) Ciprian Malaescu, Trebilcock Consulting Solutions
- 4) Stephen Baluch, Collier County Transportation Planning
- 5) Anthony Khawaja, Traffic Operations
- 6) Chad Sweet, Traffic Engineering & Sign Operations
- 7) Eric Mallory, Metro Commercial
- 8) Bill Gramer, Ch2M Hill

Study Preparer:

Preparer's Name and Title: <u>Norman Trebilcock, AICP, PE</u> Organization: <u>Trebilcock Consulting Solutions, PA</u>

Address & Telephone Number: 1205 Piper Boulevard, Suite 202, Naples, FL 34110; ph

239-566-9551

Reviewer(s):

Reviewer's Name & Title: Michael Sawyer, Project Manager

Organization & Telephone Number: Collier County Transportation Planning Department;

239-252-2926

Applicant:

Applicant's Name: Peninsula Engineering.

Address: 2600 Golden Gate Parkway, Naples, FL 34105

Telephone Number: 239-403-6700

Proposed Development:

Name: Pelican Nursery Property - PUD Rezone

Location: Southeast quadrant of the intersection of Collier Boulevard (CR 951) and

Immokalee Road, refer to Fig.1

Land Use Type: Commercial and Residential

ITE Code #: LUC 220, LUC 710, LUC 820, LUC 853, LUC 862, LUC 934

Page 1 of 5

Description: Project proposes to rezone the existing parcel to allow for commercial and residential development. The TIS will use the highest of 2 potential development scenarios: Scenario 1 – 112 du residential apartments, 30,000 sf general office, 147,000 sf shopping center, 6,000 sf (20 pumps) convenience market with gasoline pumps, 135,000 sf home improvement superstore and 7,000 sf fast-food restaurant with drive through window; and Scenario 2 – 300 du residential apartments, 147,000 sf shopping center, 6,000 sf (20 pumps) convenience market with gasoline pumps, and 7,000 sf fast-food restaurant with drive through window. The most intense scenario from a traffic standpoint is used for the purposes of this TIS.

Zoning;

Comprehensive plan recommendation: <u>N/A</u> Requested: <u>To allow rezone request.</u>



Fig.1 - Project Location Map

Findings of the Preliminary Study:

Since estimated net new project traffic is more than 100 two-way peak hour trips, this study qualifies for a Major Scale TIS. The TIS will include AM-PM peak hour trip generation, traffic distribution and assignments, significance test (based on 2%/2%/3% criterion).

Roadway link analysis is determined based on estimated net PM peak hour traffic.

Operational site access - turn lane analysis is based on proposed project build-out conditions AM-PM peak hour generated traffic and will include EB left-turn/U-turn

analysis at Immokalee Rd. and Bellaire Bay Dr.

Internal capture and pass-by rates are considered based on ITE and Collier County guidelines recommendations.

Page 2 of 5

Study Type: (if not net increase, operational study)

Small Scale TIS Minor TIS

Major TIS

Study Area:

Adjacent roadways: north - Immokalee Rd, west - Collier Blvd.

Additional intersections to be analyzed: N/A

Horizon Year(s): 2022

Analysis Time Period(s): <u>AM-PM</u> Future Off-Site Developments: <u>N/A</u>

Source of Trip Generation Rates: ITE 9th Edition

Reductions in Trip Generation Rates:

None: N/A

Pass-by trips: Per ITE, CC TIS Guidelines
Internal trips (PUD): Per ITE, CC TIS Guidelines

Transit use: N/A
Other: N/A

Horizon Year Roadway Network Improvements: 2022

Methodology & Assumptions:

Non-site traffic estimates: CC 2016 AUIR; CC Traffic Counts

Site-trip generation: OTISS Software

Trip distribution method: Engineer's Estimate - refer to Fig. 2

Traffic assignment method: Engineer's Estimate

Traffic growth rate: historical growth rate or 2% minimum

PROJECT

S%

S% ABS

10%

S% ABS

10%

S% ABS

PROJECT TRIP
DISTRIBUTION BY
PERCENTAGE

PROJECT TRIP
DISTRIBUTION BY
PERCENTAGE

Fig. 2 - Project Trip Distribution by Percentage

Page 3 of 5

Special Features: (from prelim	inary study or prior experi-	ence)
Accidents locations: <u>N/A</u> Sight distance: <u>N/A</u>		
Queuing: N/A		
Access location & configuration	n: <u>N/A</u>	
Traffic control: <u>MUTCD</u> Signal system location & progre	ession needs: N/A	
On-site parking needs: Per CC 1	LDC	
Data Sources: ITE Trip Generat	tion 9 th Edition; CC 2016 A	UIR; CC Traffic Counts
Base maps: <u>N/A</u> Prior study reports: <u>N/A</u>		
Access policy and jurisdiction:	N/A	
Review process: N/A Requirements: N/A		
Miscellaneous: N/A		
Small Scale Study – No Fee		
Minor Study - \$750.00	<u></u>	
Major Study - \$1500.00	X	
Methodology Fee \$500	X	
Includes 0 intersections		
Additional Intersections - \$500.	.00 each	
All fees will be agreed to during the	Methodology meeting and mus our sign-off on the application.	t be paid to Transportation prior to
SIGNATURES		
Norman Trebilcoo	k_	
Study Preparer—Norman Trebi	leock	
Reviewer(s)		
Applicant		
		Page 4 of 5

EXHIBIT A

Collier County Traffic Impact Study Review Fee Schedule

Fees will be paid incrementally as the development proceeds: Methodology Review, Analysis Review, and Sufficiency Reviews. Fees for additional meetings or other optional services are also provided below.

Methodology Review - \$500 Fee

Methodology Review includes review of a submitted methodology statement, including review of submitted trip generation estimate(s), distribution, assignment, and review of a "Small Scale Study" determination, written approval/comments on a proposed methodology statement, and written confirmation of a re-submitted, amended methodology statement, and one meeting in Collier County, if needed.

"Small Scale Study" Review - No Additional Fee (Includes one sufficiency review)

Upon approval of the methodology review, the applicant may submit the study. The review includes: a concurrency determination, site access inspection and confirmation of the study compliance with trip generation, distribution and maximum threshold compliance.

"Minor Study Review" - \$750 Fee (Includes one sufficiency review)

Review of the submitted traffic analysis includes: optional field visit to site, confirmation of trip generation, distribution, and assignment, concurrency determination, confirmation of committed improvements, review of traffic volume data collected/assembled, review of off-site improvements within the right-of-way, review of site access and circulation, and preparation and review of "sufficiency" comments/questions.

"Major Study Review" - \$1,500 Fee (Includes two intersection analysis and two sufficiency reviews)

Review of the submitted traffic analysis includes: field visit to site, confirmation of trip generation, special trip generation and/or trip length study, distribution and assignment, concurrency determination, confirmation of committed improvements, review of traffic volume data collected/assembled, review of traffic growth analysis, review of off-site roadway operations and capacity analysis, review of site access and circulation, neighborhood traffic intrusion issues, any necessary improvement proposals and associated cost estimates, and preparation and review of up to two rounds of "sufficiency" comments/questions and/or recommended conditions of approval.

"Additional intersection Review" - \$500 Fee

The review of additional intersections shall include the same parameters as outlined in the "Major Study Review" and shall apply to each intersection above the first two intersections included in the "Major Study Review"

"Additional Sufficiency Reviews" - \$500 Fee

Additional sufficiency reviews beyond those initially included in the appropriate study shall require the additional Fee prior to the completion of the review.

Page 5 of 5

Appendix C: Trip Generation Calculations ITE 10th Edition

Trip Generation Comparison – LUC 960 – Market square feet vs Fueling Positions

Project Information	
Project Name:	Baumgarten - SF, FP compare
No:	
Date:	08/02/2018
City:	
State/Province:	
Zip/Postal Code:	
Country:	
Client Name:	
Analyst's Name:	
Edition:	ITE-TGM 10th Edition

Land Use	Size	AM Peak	AM Peak Hour		Hour
		Entry	Exit	Entry	Exit
960 - Super Convenience Market/Gas					
Station (General Urban/Suburban)	6 1000 Sq. Ft. GFA	280	280	208	208
Reduction		0	0	0	0
Internal		0	0	0	0
Pass-by		0	0	0	0
Non-pass-by		280	280	208	208
960 - Super Convenience Market/Gas					
Station - 1 (General Urban/Suburban)	20 Vehicle Fueling Positions	281	281	230	229
Reduction		0	0	0	0
Internal		0	0	0	0
Pass-by		0	0	0	0
Non-pass-by		281	281	230	229
Total		561	561	438	437
Total Reduction		0	0	0	0
Total Internal		0	0	0	0
Total Pass-by		0	0	0	0
Total Non-pass-by		561	561	438	437

PERIOD SETTING

Analysis Name : AM Peak Hour

Project Name: Baumgarten - SF, FP No:

compare

Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	1000 Sq. Ft. GFA	6	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	Best Fit (LIN) T = 137.38 (X)+- 264.53	280 50%	280 50%	560
960 - Super Convenience Markel/Gas Station - 1 (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	Average 28.08	281 50%	281 50%	562

PERIOD SETTING

No:

City:

Analysis Name : PM Peak Hour

Project Name : Baumgarten - SF, FP

compare

Date: 8/2/2018

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	1000 Sq. Ft. GFA	6	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	0	208 50%	208 50%	416
960 - Super Convenience Market/Gas Station - 1 (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.		230 50%	229 50%	459

Trip Generation – Scenario 1

Project Name:	Baumgarten - Scenario 1
No:	
Date:	08/02/2018
City:	200 200
State/Province:	
Zip/Postal Code:	
Country:	
Client Name:	
Analyst's Name:	
Edition:	ITE-TGM 10th Edition

Land Use	Size	Weeko	lay	AM Peak	Hour	PM Peak Hour	
		Entry	82330 X	Entry	Exit	Entry	Exit
220 - Multifamily Housing (Low-Rise)			WX TO TO WAY				
(General Urban/Suburban)	112 Dwelling Units	403	403	12	41	41	24
Reduction		0	О	0	0	О	О
Internal		32	98	1	9	26	15
Pass-by		0	0	0	0	О	0
Non-pass-by		371	305	11	32	15	9
710 - General Office Building (General		37-001005			2000	43534	V852
Urban/Suburban)	30 1000 Sq. Ft. GFA	165	165	47	8	6	30
Reduction		0	0	0	0	0	0
Internal		50	149	8	8	6	8
Pass-by		0	0	0	0	0	0
Non-pass-by		115	16	39	0	0	22
820 - Shopping Center (General							
Urban/Suburban)	147 1000 Sq. Ft. GLA	3907	3906	140	85	347	376
Reduction		0	0	0	0	0	0
Internal		101	162	5	3	20	19
Pass-by		571	562	34	20	82	89
Non-pass-by		3235	3182	101	62	245	268
862 - Home Improvement Superstore							
(General Urban/Suburban)	135 1000 Sq. Ft. GFA	2075	2075	121	91	154	161
Reduction	500	0	0	0	0	0	0
Internal		81	89	5	4	16	19
Pass-by		299	298	29	22	34	36
Non-pass-by		1695	1688	87	65	104	106
934 - Fast-Food Restaurant with Drive-							
Through Window (General							
Urban/Suburban)	7 1000 Sq. Ft. GFA	1649	1648	143	138	119	110
Reduction		0	0	0	0	0	0
Internal		493	279	27	27	47	46
Pass-by		462	548	58		36	32
Non-pass-by		694	821	58	55	36	32
960 - Super Convenience Market/Gas							
Station (General Urban/Suburban)	20 Vehicle Fueling Positions	2305	2305	281	281	230	229
Reduction		0	0	0	2305	0	0
Internal		111	91	12	7	16	24
Pass-by		878	02.02.000	134	138	107	103
Non-pass-by		1316		135		107	102
Total		10504	10502	744	644	897	930
Total Reduction		0		0		0	0
Total Internal		868	868	58	58	131	131
Total Pass-by		2210		255	236	1.0000000000000000000000000000000000000	260
Total Non-pass-by		7426	7341	431	350	507	539

Print Preview Page 1 of 6

PERIOD SETTING

Analysis Name: Weekday

Project Name: Baumgarten - Scenario 1 No:

Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)	Dwelling Units	112	Weekday	Best Fit (LIN) T = 7.56 (X)+-40.86	403 50%	403 50%	806
710 - General Office Building (General Urban/Suburban)	1000 Sq. Ft. GFA	30	Weekday	Best Fit (LOG) Ln(T) = 0.97Ln(X) +2.5	165 50%	165 50%	330
820 - Shopping Center (General Urban/Suburban)	1000 Sq. Ft. GLA	147	Weekday	Best Fit (LOG) Ln(T) = 0.68Ln(X) +5.57	3907 50%	3906 50%	7813
862 - Home Improvement Superstore (General Urban/Suburban)	1000 Sq. Ft. GFA	135	Weekday	Average 30.74	2075 50%	2075 50%	4150
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	7	Weekday	Average 470.95	1649 50%	1648 50%	3297
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday	Average 230.52	2305 50%	2305 50%	4610

TRAFFIC REDUCTIONS

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
220 - Multifamily Housing (Low-Rise)	0 %	403	0 %	403
710 - General Office Building	0 %	165	0 %	165
820 - Shopping Center	0 %	3907	0 %	3906
862 - Home Improvement Superstore	0 %	2075	0 %	2075
934 - Fast-Food Restaurant with Drive-Through Window	0 %	1649	0 %	1648
960 - Super Convenience Market/Gas Station	0 %	2305	0 %	2305

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08/02/2018

				I	NTERNAL TR	IPS				
220 - N	//ultifam	ily Housing (Low-l	Rise)			,	710 -	General Off	ice Buildi	ing
Exit	403	Demand Exit:		(8)	Balanced:	Demand Entry:			Entry	-
Entry	403	Demand Entry:	0 %	(0)	Balanced:	Demand Exit:	1 %	(2)	Exit	165
220 - N	/lultifam	ily Housing (Low-	Rise)					820 - Shop	ping Cen	ter
Exit	403	Demand Exit:	1 %	(4)	Balanced:	Demand Entry:	5 %	(195)	Entry	3907
Entry	403	Demand Entry:	1 %	(4)	Balanced:	Demand Exit:	5 %	(195)	Exit	3906
220 - N	/lultifam	ily Housing (Low-	Rise)			862 - Ho	me In	nprovement	Supersto	ore
Exit	403	Demand Exit:	1 %	(4)	Balanced:	Demand Entry:	5 %	(104)	Entry	2075
Entry	403	Demand Entry:	1 %	(4)	Balanced: 4	Demand Exit:	5 %	(104)	Exit	2075
220 - N	/lultifam	ily Housing (Low-	Rise)		9	34 - Fast-Food Re	staur	ant with Dr	ive-Throu Wind	
Exit	403	Demand Exit:	20 %	(81)	Balanced: 81	Demand Entry:	20 %	(330)	Entry	
Entry	403	Demand Entry:	5 %	(20)	Balanced: 20	Demand Exit:	4 %	(66)	Exit	1648
220 - N	/lultifam	ily Housing (Low-l	Rise)			960 - Super Con	venie	nce Market/	Gas Stati	ion
Exit	403	Demand Exit:	1 %	(4)	Balanced:	Demand Entry:	5 %	(115)	Entry	2305
Entry	403	Demand Entry:	1 %	(4)	Balanced: 4	Demand Exit:	5 %	(115)	Exit	2305
710 - 0	General	Office Building						820 - Shop	ping Cen	ter
Exit	165	Demand Exit:	9 %	(15)	Balanced: 15	Demand Entry:	11 9	6 (430)	Entry	3907
Entry	165	Demand Entry:	1 %	(2)	Balanced: 2	Demand Exit:	10 %	6 (391)	Exit	3906
710 - 0	General	Office Building				862 - Ho	me In	nprovement	Supersto	ore
Exit	165	Demand Exit:	9 %	(15)	Balanced: 15	Demand Entry:	11 9	6 (228)	Entry	2075
Entry	165	Demand Entry:	1 %	(2)	Balanced: 2	Demand Exit:	10 %	6 (208)	Exit	2075
710 - 0	General	Office Building			9	34 - Fast-Food Re	staur	ant with Dr	ive-Throu Wind	
Exit	165	Demand Exit:	63 %	(104)	Balanced: 104	Demand Entry:	23 %	(379)	Entry	22.72.22.2
Entry	165	Demand Entry:	14 %	(23)	Balanced: 23	Demand Exit:	31 %	(511)	Exit	1648

710 - 0	eneral Offic	e Building				960 - Sup	er Conv	enience	e Market/Ga	s Stat	ion
Exit	165	Demand Exit:	9 %	(15)	Balance 15	d: Deman	d Entry:	11 %	(254)	Entry	2305
Entry	165 [Demand Entry:	11 %	(18)	Balance 18	d: Deman	d Exit:	10% ((231)	Exit	2305
820 - S	Shopping Ce	nter				8	362 - Hom	e Impr	ovement Su	uperst	ore
Exit	3906	Demand Exit:	0 %	(0)	Balance 0	d: Deman	d Entry:	0 % ((0)	Entry	2075
Entry	3907	Demand Entry:	0 %	(0)	Balance 0	d: Deman	d Exit:	O % (C	0)	Exit	2075
820 - S	Shopping Ce	nter				93	4 - Fast-F	ood R	estaurant w		
					Balanced				Through	n Wind	ow
Exit	3906 [Demand Exit:	4 %	(156)	156	Demand	d Entry: 1	17% (280)	Entry	1649
Entry	3907	Demand Entry:	3 %	(117)	Balanced 82	Demand	d Exit: 5	% (8:	2)	Exit	1648
820 - S	Shopping Ce	nter				960 - Sup	er Conv	enience	e Market/Ga	ıs Stat	ion
Exit	3906	Demand Exit:	0 %	(0)	Balance 0	d: Deman	d Entry:	0 % (0	0)	Entry	2305
Entry	3907	Demand Entry:	0 %	(0)	Balance 0	d: Deman	d Exit:	O % (C))	Exit	2305
862 - H	lome Improv	ement Supers	tore			93	4 - Fast-F	ood R	estaurant w Through		
Exit	2075	Demand Exit:	4 %	(83)	Balanced 83	Demand	d Entry:	17% (280)	Entry	1649
Entry	2075	Demand Entry:	3 %	(62)	Balanced 62	: Demand	d Exit: 5	% (8:	2)	Exit	1648
862 - H	lome Improv	ement Supers	tore			960 - Sup	per Conve	enience	e Market/Ga	s Stati	ion
Exit	2075	Demand Exit:	0 %	(0)	Balance 0	d: Deman	d Entry:	0 % ((0)	Entry	2305
Entry	2075	Demand Entry:	0 %	(0)	Balance 0	d: Deman	d Exit:) % (0))	Exit	2305
		estaurant with	Drive	-Throu	gh	960 - Sup	oer Conv	enience	e Market/Ga	ıs Stat	ion
Windo Exit		Demand Exit:	17 %	(280)	Balance	d: Deman	d Entry:	1% 10	92)	Entry	2305
					92 Balance	4.					
Entry	1049	Demand Entry:	5 %	(02)	69	1. Deman	a Exit:	3 % (6	9)	Exit	2305
220 - 1	Multifamily F	lousing (Low-F									
		Internal Trip	i i				Tana a		Ĩ		
	Total Trips	710 - General Office Building	820 Sho Cen	pping	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - S Conver Market Station	nience /Gas	Total	Exte Trips	
Entry	403 (100%)	0 (0%)	4 (19	%)	4 (1%)	20 (5%)	4 (1%)		32 (8%)	371 ((92%)
Exit	403 (100%)	5 (1%)	4 (19	%)	4 (1%)	81 (20%)	4 (1%)		98 (24%)	305 ((76%)
Total	806 (100%)	5 (1%)	8 (1%)	8 (1%)	101 (13%)	8 (1%	\	130 (16%)	676	(84%)

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Print Preview Page 4 of 6

710 - General Office Building

		Internal Trip	s					
Entry	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	165 (100%)	5 (3%)	2 (1%)	2 (1%)	23 (14%)	18 (11%)	50 (30%)	115 (70%)
Exit	165 (100%)	0 (0%)	15 (9%)	15 (9%)	104 (63%)	15 (9%)	149 (90%)	16 (10%)
Total	330 (100%)	5 (2%)	17 (5%)	17 (5%)	127 (38%)	33 (10%)	199 (60%)	131 (40%)

820 - Shopping Center

		Internal Trip						
	Total Trips	220 - Multifamily Housing (Low-Rise)	Office Superstore		934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	3907 (100%)	4 (0%)	15 (0%)	0 (0%)	82 (2%)	0 (0%)	101 (3%)	3806 (97%)
Exit	3906 (100%)	4 (0%)	2 (0%)	0 (0%)	156 (4%)	0 (0%)	162 (4%)	3744 (96%)
Total	7813 (100%)	8 (0%)	17 (0%)	0 (0%)	238 (3%)	0 (0%)	263 (3%)	7550 (97%)

862 - Home Improvement Superstore

		Internal Trips								
	Total Trips	220 - Multifamily Housing (Low-Rise)	Office Center		934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips		
Entry	2075 (100%)	4 (0%)	15 (1%)	0 (0%)	62 (3%)	0 (0%)	81 (4%)	1994 (96%)		
Exit	2075 (100%)	4 (0%)	2 (0%)	0 (0%)	83 (4%)	0 (0%)	89 (4%)	1986 (96%)		
Total	4150 (100%)	8 (0%)	17 (0%)	0 (0%)	145 (3%)	0 (0%)	170 (4%)	3980 (96%)		

934 - Fast-Food Restaurant with Drive-Through Window

		Internal Trip	al Trips							
	Total Trips	220 - Multifamily Housing (Low-Rise)	710 - General Office Building	820 - Shopping Center	862 - Home Improvement Superstore	960 - Super Convenience Market/Gas Station	Total	External Trips		
Entry	1649 (100%)	81 (5%)	104 (6%)	156 (9%)	83 (5%)	69 (4%)	493 (30%)	1156 (70%)		
Exit	1648 (100%)	20 (1%)	23 (1%)	82 (5%)	62 (4%)	92 (6%)	279 (17%)	1369 (83%)		
Total	3297 (100%)	101 (3%)	127 (4%)	238 (7%)	145 (4%)	161 (5%)	772 (23%)	2525 (77%)		

960 - Super Convenience Market/Gas Station

Total Trips	Internal Trip	Internal Trips							
		220 - Multifamily	710 - General	934 - Fast- Food	Total	Trips			

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1	Print Preview								Page 5 of	6
			Housing (Low-Rise)	Office Building	820 - Shopping Center	862 - Home Improvement Superstore	Restaurant with Drive- Through Window			
ı	Entry	2305 (100%)	4 (0%)	15 (1%)	0 (0%)	0 (0%)	92 (4%)	111 (5%)	2194 (95%)	
ı	Exit	2305 (100%)	4 (0%)	18 (1%)	0 (0%)	0 (0%)	69 (3%)	91 (4%)	2214 (96%)	
ı	Total	4610 (100%)	8 (0%)	33 (1%)	0 (0%)	0 (0%)	161 (3%)	202 (4%)	4408 (96%)	

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips	
220 - Multifamily Housing (Low-Rise)	676	0	0	676	
710 - General Office Building	131	0	0	131	
820 - Shopping Center	7550	15	1133	6417	
862 - Home Improvement Superstore	3980	15	597	3383	
934 - Fast-Food Restaurant with Drive-Through Window	2525	40	1010	1515	
960 - Super Convenience Market/Gas Station	4408	40	1763	2645	

ITE DEVIATION DETAILS

	ay

Landuse No deviations from ITE.

Methods No deviations from ITE.

External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

710 - General Office Building (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

820 - Shopping Center (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

, ...,

862 - Home Improvement Superstore (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

934 - Fast-Food Restaurant with Drive-Through Window (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

960 - Super Convenience Market/Gas Station (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

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Preview	Page
SUMMARY	
Total Entering	10504
Total Exiting	10502
Total Entering Reduction	0
Total Exiting Reduction	0
Total Entering Internal Capture Reduction	868
Total Exiting Internal Capture Reduction	868
Total Entering Pass-by Reduction	2210
Total Exiting Pass-by Reduction	2293
Total Entering Non-Pass-by Trips	7426
Total Exiting Non-Pass-by Trips	7341
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Print Preview Page 1 of 6

PERIOD SETTING

Analysis Name : AM Peak Hour

Project Name: Baumgarten - Scenario 1 No:
Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)	Dwelling Units	112	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	Best Fit (LOG) Ln(T) = 0.95Ln(X) +-0.51	12 23%	41 77%	53
710 - General Office Building (General Urban/Suburban)	1000 Sq. Ft. GFA	30	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	Best Fit (LIN) T = 0.94 (X)+26.49	47 85%	8 15%	55
820 - Shopping Center (General Urban/Suburban)	1000 Sq. Ft. GLA	147	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	Best Fit (LIN) T = 0.5 (X)+151.78	140 62%	85 38%	225
862 - Home Improvement Superstore (General Urban/Suburban)	1000 Sq. Ft. GFA	135	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.		121 57%	91 43%	212
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	7	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.		143 51%	138 49%	281
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.		281 50%	281 50%	562

TRAFFIC REDUCTIONS

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Land	Use				Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted	Pa Exit
220	Multifam	ily Housing (Low-Ri	100		0 %	12	0 %	41	
		Office Building	30)		0 %	47	0 %	8	
	Shopping				0 %	140	0 %	85	
		provement Superst	ore		0 %	121	0 %	91	
		nd Restaurant with D		rough		143	0 %	138	
Wind		d Restaurant with L	JIIVE-II	ilougii	0 /6	143	0 %	150	
960 -	Super Co	onvenience Market/	Gas Sta	ation	0 %	281	0 %	281	
					INTERNAL T	RIPS			
220 -	Multifam	ily Housing (Low-l	Rise)				710 - General O	ffice Buildi	ng
Exit	41	Demand Exit:	2% ((1)	Balanced:	Demand Entry	y: 3 % (1)	Entry	47
Entry	12	Demand Entry:	0%	(0)	Balanced: 0	Demand Exit:	1 % (0)	Exit	8
220 -	Multifam	ily Housing (Low-	Rise)				820 - Sho	pping Cen	ter
Exit	41	Demand Exit:	1% ((0)	Balanced: 0	Demand Entry	7: 5% (7)	Entry	140
Entry	12	Demand Entry:	1 %	(0)	Balanced: 0	Demand Exit:	5 % (4)	Exit	85
220 -	Multifam	ily Housing (Low-	Rise)			862 - H	ome Improveme	nt Supersto	ore
Exit	41	Demand Exit:	1% ((0)	Balanced: 0	Demand Entry	7: 5% (6)	Entry	121
Entry	12	Demand Entry:	1%	(0)	Balanced: 0	Demand Exit:	5 % (5)	Exit	91
220 -	Multifam	ily Housing (Low-	Rise)			934 - Fast-Food F	Restaurant with D	rive-Throu Windo	
Exit	41	Demand Exit:	20 %	(8)	Balanced: 8	Demand Entry	: 20 % (29)	Entry	143
Entry	12	Demand Entry:	5%	(1)	Balanced:	Demand Exit:	4 % (6)	Exit	138
220 -	Multifam	ily Housing (Low-	Rise)			960 - Super Co	nvenience Marke	t/Gas Stati	on
Exit	41	Demand Exit:	1% ((0)	Balanced: 0	Demand Entry	/: 5 % (14)	Entry	281
Entry	12	Demand Entry:	1%	(0)	Balanced: 0	Demand Exit:	5 % (14)	Exit	281
710 -	General	Office Building					820 - Sho	pping Cen	ter
Exit	8	Demand Exit:	9% ((1)	Balanced:	Demand Entry	/: 11 % (15)	Entry	140
Entry	47	Demand Entry:	1 %	(0)	Balanced: 0	Demand Exit:	10 % (9)	Exit	85
	General	Office Building					ome Improveme		
Exit	8	Demand Exit:	9% ((1)		Demand Entry	/: 11 % (13)	Entry	121

review					Balanced:					Page
Entry	47	Demand Entry:	1 %	(0)	Balanced: 0	Demand Exit:	10 %	(9)	Exit	91
710 - 0	eneral •	Office Building			9	34 - Fast-Food Re	estaura	ant with Dri	ve-Throu Wind	
Exit	8	Demand Exit:	63 %	(5)	Balanced: 5	Demand Entry:	23 %	(33)	Entry	10 10000
Entry	47	Demand Entry:	14 %	(7)	Balanced:	Demand Exit:	31 %	(43)	Exit	138
710 - 0	eneral (Office Building				960 - Super Con	venier	nce Market/	Gas Stati	ion
Exit	8	Demand Exit:	9 %	(1)	Balanced:	Demand Entry:	11 %	(31)	Entry	281
Entry	47	Demand Entry:	1 %	(0)	Balanced: 0	Demand Exit:	10 %	(28)	Exit	281
820 - 8	Shopping	g Center				862 - Ho	me Im	provement	Supersto	ore
Exit	85	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	121
Entry	140	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	91
820 - 8	Shoppin	g Center				934 - Fast	-Food	Restaurant Throu	t with Dri	
Exit	85	Demand Exit:	4 %	(3)	Balanced:	Demand Entry:	17 %		Entry	
Entry	140	Demand Entry:	3 %	(4)	Balanced: 4	Demand Exit:	5 %	(7)	Exit	138
820 - 8	Shopping	g Center				960 - Super Con	venier	nce Market/	Gas Stati	ion
Exit	85	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	281
Entry	140	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	281
862 - H	lome Im	provement Supers	store			934 - Fast	-Food	Restaurant Throu	t with Dri	
Exit	91	Demand Exit:	4 %	(4)	Balanced:	Demand Entry:	17 %		Entry	
Entry	121	Demand Entry:	3 %	(4)	Balanced: 4	Demand Exit:	5 %	(7)	Exit	138
862 - H	lome Im	provement Supers	tore			960 - Super Con	venier	nce Market/	Gas Stati	ion
Exit	91	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	281
Entry	121	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	281
934 - F Windo		d Restaurant with	Drive	-Through	i	960 - Super Con	venier	nce Market/	Gas Stati	ion
Exit	138	Demand Exit:	17 %	(23)	Balanced: 11	Demand Entry:	4 %	(11)	Entry	281
Entry	143	Demand Entry:	5 %	(7)	Balanced: 7	Demand Exit:	3 %	(8)	Exit	281
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Print Preview	Page 4 of 6
220 - Multifamily Housing (Low-Pisa)	

		Internal Trips							
	Total Trips	710 - General Office Building	820 - Shopping Center	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips	
Entry	12 (100%)	0 (0%)	0 (0%)	0 (0%)	1 (8%)	0 (0%)	1 (8%)	11 (92%)	
Exit	41 (100%)	1 (2%)	0 (0%)	0 (0%)	8 (20%)	0 (0%)	9 (22%)	32 (78%)	
Total	53 (100%)	1 (2%)	0 (0%)	0 (0%)	9 (17%)	0 (0%)	10 (19%)	43 (81%)	

710 - General Office Building

		Internal Trips							
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips	
Entry	47 (100%)	1 (2%)	0 (0%)	0 (0%)	7 (15%)	0 (0%)	8 (17%)	39 (83%)	
Exit	8 (100%)	0 (0%)	1 (13%)	1 (13%)	5 (63%)	1 (13%)	8 (100%)	0 (0%)	
Total	55 (100%)	1 (2%)	1 (2%)	1 (2%)	12 (22%)	1 (2%)	16 (29%)	39 (71%)	

820 - Shopping Center

		Internal Trip	s						
	Total Trips	220 - Multifamily Housing (Low-Rise)	710 - General Office Building	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips	
Entry	140 (100%)	0 (0%)	1 (1%)	0 (0%)	4 (3%)	0 (0%)	5 (4%)	135 (96%)	
Exit	85 (100%)	0 (0%)	0 (0%)	0 (0%)	3 (4%)	0 (0%)	3 (4%)	82 (96%)	
Total	225 (100%)	0 (0%)	1 (0%)	0 (0%)	7 (3%)	0 (0%)	8 (4%)	217 (96%)	

862 - Home Improvement Superstore

		Internal Trip	S		rnal Trips						
	Total Trips	220 - Multifamily Housing (Low-Rise)	710 - General Office Building	820 - Shopping Center	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips			
Entry	121 (100%)	0 (0%)	1 (1%)	0 (0%)	4 (3%)	0 (0%)	5 (4%)	116 (96%)			
Exit	91 (100%)	0 (0%)	0 (0%)	0 (0%)	4 (4%)	0 (0%)	4 (4%)	87 (96%)			
Total	212 (100%)	0 (0%)	1 (0%)	0 (0%)	8 (4%)	0 (0%)	9 (4%)	203 (96%)			

934 - Fast-Food Restaurant with Drive-Through Window

Total Trips	Internal Trips								
	220 - Multifamily	710 - General			960 - Super Convenience	Total	Trips		

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Print P	review		Housing (Low-Rise)	Office Building	820 - Shopping Center	862 - Home Improvement Superstore	Market/Gas Station		Page 5 of 6
	Entry	143 (100%)	8 (6%)	5 (3%)	3 (2%)	4 (3%)	7 (5%)	27 (19%)	116 (81%)
	Exit	138 (100%)	1 (1%)	7 (5%)	4 (3%)	4 (3%)	11 (8%)	27 (20%)	111 (80%)
	Total	281 (100%)	9 (3%)	12 (4%)	7 (2%)	8 (3%)	18 (6%)	54 (19%)	227 (81%)

960 - Super Convenience Market/Gas Station

Internal Trips

Total Trip		220 - Multifamily Housing (Low-Rise)	710 - General Office Building	820 - Shopping Center	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	Total	External Trips	
Entry	281 (100%)	0 (0%)	1 (0%)	0 (0%)	0 (0%)	11 (4%)	12 (4%)	269 (96%)	
Exit	281 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	7 (2%)	7 (2%)	274 (98%)	
Total	562 (100%)	0 (0%)	1 (0%)	0 (0%)	0 (0%)	18 (3%)	19 (3%)	543 (97%)	

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	43	0	0	43
710 - General Office Building	39	0	0	39
820 - Shopping Center	217	25	54	163
862 - Home Improvement Superstore	203	25	51	152
934 - Fast-Food Restaurant with Drive-Through Window	227	O 50	114	113
960 - Super Convenience Market/Gas Station	543	0 50	272	271

ITE DEVIATION DETAILS

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

Landuse No deviations from ITE.

Methods No deviations from ITE.

External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

710 - General Office Building (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

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

Page 6 of 6

820 - Shopping Center (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

862 - Home Improvement Superstore (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

934 - Fast-Food Restaurant with Drive-Through Window (General Urban/Suburban) The chosen pass-by% (50) is not provided by ITE. ITE recommends 49.

960 - Super Convenience Market/Gas Station (General Urban/Suburban) The chosen pass-by% (50) is not provided by ITE. ITE recommends 63.

SUMMARY

Total Entering	744
Total Exiting	644
Total Entering Reduction	0
Total Exiting Reduction	0
Total Entering Internal Capture Reduction	58
Total Exiting Internal Capture Reduction	58
Total Entering Pass-by Reduction	255
Total Exiting Pass-by Reduction	236
Total Entering Non-Pass-by Trips	431
Total Exiting Non-Pass-by Trips	350

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Print Preview Page 1 of 6

PERIOD SETTING

Analysis Name : PM Peak Hour

Project Name: Baumgarten - Scenario 1 No:
Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)	Dwelling Units	112	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Best Fit (LOG) Ln(T) = 0.89Ln(X) +-0.02	41 63%	24 37%	65
710 - General Office Building (General Urban/Suburban)	1000 Sq. Ft. GFA	30	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Best Fit (LOG) Ln(T) = 0.95Ln(X) +0.36	6 17%	30 83%	36
820 - Shopping Center (General Urban/Suburban)	1000 Sq. Ft. GLA	147	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Best Fit (LOG) Ln(T) = 0.74Ln(X) +2.89	347 48%	376 52%	723
862 - Home Improvement Superstore (General Urban/Suburban)	1000 Sq. Ft. GFA	135	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.		154 49%	161 51%	315
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	7	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Average 32.67	119 52%	110 48%	229
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.		230 50%	229 50%	459

TRAFFIC REDUCTIONS

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Land	Use				Entry Reduction	Adjusted Entry	Exit Redu	ıction	Adjusted	Exit
220 - 1	Multifam	ily Housing (Low-Ri	se)		0 %	41	0 %		24	
710 - 0	General	Office Building			0 %	6	0 %		30	
		g Center			0 %	347	0 %		376	
		nprovement Superst			0 %	154	0 %		161	
934 - 1 Windo		od Restaurant with D	rive- i n	rougn	0 %	119	0 %		110	
960 - Super Convenience Market/Gas Station		0 %	230	0 %		229				
					INTERNAL	TRIPS				
220 - 1	/lultifan	nily Housing (Low-	Rise)				710 - Gen	eral Off	ice Buildi	ing
Exit	24	Demand Exit:	4% (1)	Balanced 1	Demand Entry	y: 57 % (3	3)	Entry	6
Entry	41	Demand Entry:	4% (2)	Balanced 1	Demand Exit:	2 % (1)		Exit	30
220 - 1	/lultifan	nily Housing (Low-	Rise)				820) - Shop	ping Cen	ter
Exit	24	Demand Exit:	14 %	(3)	Balanced 3	. Demand Entry	y: 3 % (10	0)	Entry	347
Entry	41	Demand Entry:	15 %	(6)	Balanced 6	Demand Exit:	9 % (34	1)	Exit	376
220 - 1	Aultifan	nily Housing (Low-	Rise)			862 - H	lome Impro	vement	Supersto	ore
Exit	24	Demand Exit:	14 %	(3)	Balanced 3	Demand Entry	y: 3 % (5))	Entry	154
Entry	41	Demand Entry:	15 %	(6)	Balanced 6	Demand Exit:	9% (14	1)	Exit	161
220 - 1	lultifan	nily Housing (Low-	Rise)			934 - Fast-Food F	Restaurant	with Dri	ve-Throu Wind	
Exit	24	Demand Exit:	21 %	(5)	Balanced:	Demand Entry	: 14 % (1	7)	Entry	119
≣ntry	41	Demand Entry:	16 %	(7)	Balanced:	Demand Exit:	18 % (2)	0)	Exit	110
220 - 1	Aultifan	nily Housing (Low-	Rise)			960 - Super Co	nvenience	Market/	Gas Stati	ion
Exit	24	Demand Exit:	14 %	(3)	Balanced 3	Demand Entry	y: 3 % (7))	Entry	230
≣ntry	41	Demand Entry:	15 %	(6)	Balanced 6	Demand Exit:	9 % (21	1)	Exit	229
710 - C	Seneral	Office Building					820) - Shop	ping Cen	ter
Exit	30	Demand Exit:	7 % (2)	Balanced 2	Demand Entry	y: 3 % (10	0)	Entry	347
Entry	6	Demand Entry:	10 %	(1)	_	Demand Exit:	1 % (4)		Exit	376

eview		Balanced:		
710 - Genera	al Office Building		862 - Home Improvement Sup	erstore
Exit 30	Demand Exit: 7 % (2)	Balanced:	Demand Entry: 3 % (5)	ntry 154
Entry 6	Demand Entry: 10 % (1)	Balanced:	Demand Exit: 1 % (2)	xit 161
710 - Genera	al Office Building	9	34 - Fast-Food Restaurant with Drive-T	hrough Vindow
Exit 30	Demand Exit: 4 % (1)	Balanced:		ntry 119
Entry 6	Demand Entry: 30 % (2)	Balanced:	Demand Exit: 3 % (3)	kit 110
710 - Genera	al Office Building		960 - Super Convenience Market/Gas	Station
Exit 30	Demand Exit: 7 % (2)	Balanced: 2	Demand Entry: 3 % (7)	ntry 230
Entry 6	Demand Entry: 10 % (1)	Balanced: 1	Demand Exit: 1 % (2)	xit 229
820 - Shopp	ing Center		862 - Home Improvement Sup	erstore
Exit 376	Demand Exit: 0 % (0)	Balanced: 0	Demand Entry: 0 % (0)	ntry 154
Entry 347	Demand Entry: 0 % (0)	Balanced: 0	Demand Exit: 0 % (0)	xit 161
320 - Shopp	ing Center		934 - Fast-Food Restaurant with Through V	
Exit 376	Demand Exit: 10 % (38)	Balanced:		ntry 119
Entry 347	Demand Entry: 17 % (59)	Balanced: 15	Demand Exit: 14 % (15)	kit 110
320 - Shopp	ing Center		960 - Super Convenience Market/Gas	Station
Exit 376	Demand Exit: 0 % (0)	Balanced:	Demand Entry: 0 % (0)	ntry 230
Entry 347	Demand Entry: 0 % (0)	Balanced: 0	Demand Exit: 0 % (0)	xit 229
862 - Home	Improvement Superstore		934 - Fast-Food Restaurant with Through V	
Exit 161	Demand Exit: 10 % (16)	Balanced:		ntry 119
Entry 154	Demand Entry: 7 % (11)	Balanced: 11	Demand Exit: 14 % (15)	kit 110
862 - Home	Improvement Superstore		960 - Super Convenience Market/Gas	Station
Exit 161	Demand Exit: 0 % (0)	Balanced: 0	Demand Entry: 0 % (0)	ntry 230
Entry 154	Demand Entry: 0 % (0)	Balanced: 0	Demand Exit: 0 % (0)	xit 229
			960 - Super Convenience Market/Gas	Station
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Exit	110	emand Exit:	10 % (11)	Balanced 11	l: Demand	Entry: 10 % (2	3) I	Entry 230
Entry	119	emand Entry:	14 % (17)	Balanced 17	l: Demand	Exit: 14 % (3	2) I	Exit 229
220 - N	Aultifamily H	ousing (Low-F	Rise)					
		Internal Trip	S					
	Total Trips	710 - General Office Building	820 - Shopping Center	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	41 (100%)	1 (2%)	6 (15%)	6 (15%)	7 (17%)	6 (15%)	26 (63%)	15 (37%)
Exit	24 (100%)	1 (4%)	3 (13%)	3 (13%)	5 (21%)	3 (13%)	15 (63%)	9 (37%)
Total	65 (100%)	2 (3%)	9 (14%)	9 (14%)	12 (18%)	9 (14%)	41 (63%)	24 (37%)
710 - 0	General Offic	e Building						
		Internal Trip	s					
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	6 (100%)	1 (17%)	1 (17%)	1 (17%)	2 (33%)	1 (17%)	6 (100%)	0 (0%)
Exit	30 (100%)	1 (3%)	2 (7%)	2 (7%)	1 (3%)	2 (7%)	8 (27%)	22 (73%)
Total	36 (100%)	2 (6%)	3 (8%)	3 (8%)	3 (8%)	3 (8%)	14 (39%)	22 (61%)
820 - 8	Shopping Ce	nter						
		Internal Trip	S					
	Total Trips	220 - Multifamily Housing (Low-Rise)	710 - General Office Building	862 - Home Improvement Superstore	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	347 (100%)	3 (1%)	2 (1%)	0 (0%)	15 (4%)	0 (0%)	20 (6%)	327 (94%)
Exit	376 (100%)	6 (2%)	1 (0%)	0 (0%)	12 (3%)	0 (0%)	19 (5%)	357 (95%)
Total	723 (100%)	9 (1%)	3 (0%)	0 (0%)	27 (4%)	0 (0%)	39 (5%)	684 (95%)
862 - H	Home Improv	rement Supers	store					
		Internal Trip	I			1		
	Total Trips	220 - Multifamily Housing (Low-Rise)	710 - General Office Building	820 - Shopping Center	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	154 (100%)	3 (2%)	2 (1%)	0 (0%)	11 (7%)	0 (0%)	16 (10%)	138 (90%)

Pri	Page 5 of 6
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Exit	161 (100%)	6 (4%)	1 (1%)	0 (0%)	12 (7%)	0 (0%)	19 (12%)	142 (88%)
Total	315 (100%)	9 (3%)	3 (1%)	0 (0%)	23 (7%)	0 (0%)	35 (11%)	280 (89%)

934 - Fast-Food Restaurant with Drive-Through Window

Internal Trips

	Total Trips	220 - Multifamily Housing (Low-Rise)	710 - General Office Building	820 - Shopping Center	862 - Home Improvement Superstore	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	119 (100%)	5 (4%)	1 (1%)	12 (10%)	12 (10%)	17 (14%)	47 (39%)	72 (61%)
Exit	110 (100%)	7 (6%)	2 (2%)	15 (14%)	11 (10%)	11 (10%)	46 (42%)	64 (58%)
Total	229 (100%)	12 (5%)	3 (1%)	27 (12%)	23 (10%)	28 (12%)	93 (41%)	136 (59%)

960 - Super Convenience Market/Gas Station

Internal Trips

	Total Trips	220 - Multifamily Housing (Low-Rise)	710 - General Office Building	820 - Shopping Center	862 - Home Improvement Superstore 934 - Fast- Food Restauran with Drive Through Window		Total	External Trips	
Entry	230 (100%)	3 (1%)	2 (1%)	0 (0%)	0 (0%)	11 (5%)	16 (7%)	214 (93%)	
Exit	229 (100%)	6 (3%)	1 (0%)	0 (0%)	0 (0%)	17 (7%)	24 (10%)	205 (90%)	
Total	459 (100%)	9 (2%)	3 (1%)	0 (0%)	0 (0%)	28 (6%)	40 (9%)	419 (91%)	

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	24	0	0	24
710 - General Office Building	22	0	0	22
820 - Shopping Center	684	Q 25	171	513
862 - Home Improvement Superstore	280	Q 25	70	210
934 - Fast-Food Restaurant with Drive-Thre Window	ough 136	€ 50	68	68
960 - Super Convenience Market/Gas Stati	ion 419	O 50	210	209

ITE DEVIATION DETAILS

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

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Print Preview Page 6 of 6 Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m. Landuse No deviations from ITE. No deviations from ITE. Methods External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. 710 - General Office Building (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. 820 - Shopping Center (General Urban/Suburban) The chosen pass-by% (25) is not provided by ITE. ITE recommends 34. 862 - Home Improvement Superstore (General Urban/Suburban) The chosen pass-by% (25) is not provided by ITE. ITE recommends 48. 960 - Super Convenience Market/Gas Station (General Urban/Suburban) The chosen pass-by% (50) is not provided by ITE. ITE recommends 66. SUMMARY **Total Entering** 897 **Total Exiting** 930 **Total Entering Reduction** 0 **Total Exiting Reduction** 0 **Total Entering Internal Capture Reduction** 131 **Total Exiting Internal Capture Reduction** 131 **Total Entering Pass-by Reduction** 259 **Total Exiting Pass-by Reduction** 260 **Total Entering Non-Pass-by Trips** 507 **Total Exiting Non-Pass-by Trips** 539

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Trip Generation – Scenario 2 Adjusted for 20% Maximum Internal Capture

Project Information					
Project Name:	Baumgarten - Scenario 2				
No:	~				
Date:	08/02/2018				
City:					
State/Province:					
Zip/Postal Code:					
Country:					
Client Name:					
Analyst's Name:					
Edition:	ITE-TGM 10th Edition				

Land Use	Size	Week	day	AM Peak	Hour	PM Peak	Hour
		Entry	Exit	Entry	Exit	Entry	Exit
220 - Multifamily Housing (Low-Rise)							
(General Urban/Suburban)	300 Dwelling Units	1114	1113	31	104	99	58
Reduction		0	0	0	0	0	0
Internal		78	245	2	23	62	36
Pass-by		0	0	0	0	0	0
Non-pass-by		1036	868	29	81	37	22
820 - Shopping Center (General							
Urban/Suburban)	147 1000 Sq. Ft. GLA	3907	3906	140	85	347	376
Reduction		0	0	0	0	0	0
Internal		186	245	10	5	22	32
Pass-by		558	549	32	21	81	86
Non-pass-by		3163	3112	98	59	244	258
934 - Fast-Food Restaurant with Drive-							
Through Window (General							
Urban/Suburban)	7 1000 Sq. Ft. GFA	1649	1648	143	138	119	110
Reduction		0	0	0	0	0	0
Internal		626	343	39	27	35	32
Pass-by		409	522	52	56	42	39
Non-pass-by		614	783	52	55	42	39
960 - Super Convenience Market/Gas							
Station (General Urban/Suburban)	20 Vehicle Fueling Positions	2305	2305	281	281	230	229
Reduction		0	0	0	0	0	0
Internal		195	103	21	10	20	34
Pass-by		844	881	130	136	105	98
Non-pass-by		1266	1321	130	135	105	97
310 - Hotel (General Urban/Suburban)	140 Occupied Rooms	856	856	50	37	50	41
Reduction		0	0	0	0	0	0
Internal		34	183	2	9	8	13
Pass-by		0	0	0	0	0	0
Non-pass-by		822	673				
Total		9831	9828	645	645	845	814
Total Reduction		0	0	0	0	0	0
Total Internal		1119	1119	74	74	147	147
Total Pass-by		1811	1952	214	213		
Total Non-pass-by		6901	6757	357	358	470	444

Print Preview Page 1 of 5

PERIOD SETTING

Analysis Name: Weekday

Project Name: Baumgarten - Scenario 2 No: Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)	Dwelling Units	300	Weekday	Best Fit (LIN) T = 7.56 (X)+-40.86	1114 50%	1113 50%	2227
820 - Shopping Center (General Urban/Suburban)	1000 Sq. Ft. GLA	147	Weekday	Best Fit (LOG) Ln(T) = 0.68Ln(X) +5.57	3907 50%	3906 50%	7813
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	7	Weekday	Average 470.95	1649 50%	1648 50%	3297
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday	Average 230.52	2305 50%	2305 50%	4610
310 - Hotel (General Urban/Suburban)	Occupied Rooms	140(0)	Weekday	Average 12.23	856 ⁽¹⁾ 50%	856 ⁽¹⁾ 50%	1712 ⁽¹⁾

TRAFFIC REDUCTIONS

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
220 - Multifamily Housing (Low-Rise)	0 %	1114	0 %	1113
820 - Shopping Center	0 %	3907	0 %	3906
934 - Fast-Food Restaurant with Drive-Through Window	0 %	1649	0 %	1648
960 - Super Convenience Market/Gas Station	0 %	2305	0 %	2305
310 - Hotel	0 %	856	0 %	856

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⁽⁰⁾ indicates size out of range.(1) indicates small sample size, use carefully.

				"	NTERNAL TR	11-3				
220 - N	lultifami	ly Housing (Low-F	Rise)					820 - Sho	pping Cen	iter
Exit	1113	Demand Exit:	1 %	(11)	Balanced: 11	Demand Entry:	8 %	(313)	Entry	3907
Entry	1114	Demand Entry:	1 %	(11)	Balanced: 11	Demand Exit:	7 %	(273)	Exit	3906
220 - N	/lultifami	ly Housing (Low-F	Rise)			934 - Fast	-Food	Restaura Thro	nt with Dri ough Wind	
Exit	1113	Demand Exit:	20 %	(223)	Balanced: 223	Demand Entry:	20 %	(330)	Entry	1649
Entry	1114	Demand Entry:	5 %	(56)	Balanced: 56	Demand Exit:	4 %	(66)	Exit	1648
220 - N	/lultifami	ly Housing (Low-F	Rise)			960 - Super Con	venie	nce Marke	t/Gas Stati	ion
Exit	1113	Demand Exit:	1 %	(11)	Balanced:	Demand Entry:	8 %	(184)	Entry	2305
≣ntry	1114	Demand Entry:	1 %	(11)	Balanced: 11	Demand Exit:	7 %	(161)	Exit	2305
220 - N	/lultifami	ly Housing (Low-F	Rise)						310 - Ho	otel
≣xit	1113	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	856
Entry	1114	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	856
320 - S	Shopping	Center				934 - Fast	-Food	Restaura Thro	nt with Dri ough Wind	
≣xit	3906	Demand Exit:	6 %	(234)	Balanced: 234	Demand Entry:	25 %	(412)	Entry	1649
Entry	3907	Demand Entry:	4 %	(156)	Balanced: 115	Demand Exit:	7 %	(115)	Exit	1648
320 - S	Shopping	Center				960 - Super Con	venie	nce Marke	t/Gas Stat	ion
≣xit	3906	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	2305
Entry	3907	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	2305
320 - S	Shopping	Center							310 - Ho	otel
Exit	3906	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	856
Entry	3907	Demand Entry:	2 %	(78)	Balanced: 60	Demand Exit:	7 %	(60)	Exit	856
934 - F Nindo		d Restaurant with	Drive	-Through		960 - Super Con	venie	nce Marke	t/Gas Stat	ion
≣xit	1648	Demand Exit:	25 %	(412)	Balanced: 138	Demand Entry:	6 %	(138)	Entry	2305
Entry	1649	Demand Entry:	7 %	(115)	Balanced: 92	Demand Exit:	4 %	(92)	Exit	2305
		projectstudy/print								08

eview 934 - F Windo		urant with Drive	e-Through				310 - Hotel
Exit		nand Exit: 3 %	(49)	Balanced: E	Demand Entry: 4 %	6 (34)	Entry 856
Entry	1649 Dem	nand Entry: 6 %	(99)	Balanced: T	Demand Exit: 9 %	6 (77)	Exit 856
960 - S	uper Convenie	nce Market/Gas	Station				310 - Hotel
Exit	2305 Dem	nand Exit: 0 %	(0)	Balanced: D	Demand Entry: 0 %	6 (O)	Entry 856
Entry	2305 Dem	nand Entry: 2 %	(46)	Balanced: E	Demand Exit: 7 %	60)	Exit 856
220 - N	/ultifamily Hous	sing (Low-Rise)					,
	Total Trips	Internal Trips 820 - Shopping Center	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	310 - Hotel	Total	External Trips
Entry	1114 (100%)	11 (1%)	56 (5%)	11 (1%)	0 (0%)	78 (7%)	1036 (93%)
Exit	1113 (100%)	11 (1%)	223 (20%)	11 (1%)	0 (0%)	245 (22%)	868 (78%)
	2227 (100%)	22 (1%)	279 (13%)	22 (1%)	0 (0%)	323 (15%)	1904 (85%)
Total 820 - S	Shopping Cente	Internal Trips 220 - Multifamily	934 - Fast- Food	960 - Super Convenience	310 - Hotel	Total	External
projekten et		Internal Trips	934 - Fast-		310 - Hotel	Total	External Trips
projekten et	Shopping Cente	Internal Trips 220 - Multifamily Housing	934 - Fast- Food Restaurant with Drive- Through	Convenience Market/Gas	310 - Hotel	Total	
820 - S	Shopping Cente	Internal Trips 220 - Multifamily Housing (Low-Rise)	934 - Fast- Food Restaurant with Drive- Through Window	Convenience Market/Gas Station			Trips
820 - \$	Total Trips 3907 (100%)	Internal Trips 220 - Multifamily Housing (Low-Rise)	934 - Fast- Food Restaurant with Drive- Through Window	Convenience Market/Gas Station	60 (2%)	186 (5%)	Trips 3721 (95%)
820 - S Entry Exit Total	Total Trips 3907 (100%) 3906 (100%) 7813 (100%)	Internal Trips 220 - Multifamily Housing (Low-Rise) 11 (0%) 11 (0%) 22 (0%) aurant with Driv. Internal Trips 220 -	934 - Fast- Food Restaurant with Drive- Through Window 115 (3%) 234 (6%) 349 (4%) e-Through Wi	Convenience Market/Gas Station 0 (0%) 0 (0%) 0 (0%) mdow	60 (2%) 0 (0%)	186 (5%) 245 (6%)	3721 (95%) 3661 (94%) 7382 (94%)
820 - S Entry Exit Total	Total Trips 3907 (100%) 3906 (100%) 7813 (100%)	Internal Trips 220 - Multifamily Housing (Low-Rise) 11 (0%) 11 (0%) 22 (0%) aurant with Drive Internal Trips	934 - Fast- Food Restaurant with Drive- Through Window 115 (3%) 234 (6%) 349 (4%) e-Through Wi	Convenience Market/Gas Station 0 (0%) 0 (0%) 0 (0%)	60 (2%) 0 (0%) 60 (1%)	186 (5%) 245 (6%) 431 (6%)	3721 (95%) 3661 (94%) 7382 (94%)
820 - S Entry Exit Total	Total Trips 3907 (100%) 3906 (100%) 7813 (100%)	Internal Trips 220 - Multifamily Housing (Low-Rise) 11 (0%) 11 (0%) 22 (0%) Parant with Drive Internal Trips 220 - Multifamily Housing	934 - Fast- Food Restaurant with Drive- Through Window 115 (3%) 234 (6%) 349 (4%) e-Through Wiss	Convenience Market/Gas Station 0 (0%) 0 (0%) 0 (0%) 0 (0%) 0 (0%) 0 (0%)	60 (2%) 0 (0%) 60 (1%)	186 (5%) 245 (6%) 431 (6%)	3721 (95%) 3661 (94%) 7382 (94%)
Entry Exit Total	Total Trips 3907 (100%) 3906 (100%) 7813 (100%) Fast-Food Resta	Internal Trips 220 - Multifamily Housing (Low-Rise) 11 (0%) 11 (0%) 22 (0%) 22 (0%) Internal Trips 220 - Multifamily Housing (Low-Rise)	934 - Fast- Food Restaurant with Drive- Through Window 115 (3%) 234 (6%) 349 (4%) e-Through Wis 820 - Shopping Center	Convenience Market/Gas Station 0 (0%) 0 (0%) 0 (0%) mdow 960 - Super Convenience Market/Gas Station	60 (2%) 0 (0%) 60 (1%) 310 - Hotel	186 (5%) 245 (6%) 431 (6%)	3721 (95%) 3661 (94%) 7382 (94%) External Trips
Entry Exit Total 934 - F	Total Trips 3907 (100%) 3906 (100%) 7813 (100%) Fast-Food Resta Total Trips 1649 (100%)	Internal Trips 220 - Multifamily Housing (Low-Rise) 11 (0%) 11 (0%) 22 (0%) 22 (0%) aurant with Driv. Internal Trips 220 - Multifamily Housing (Low-Rise) 223 (14%)	934 - Fast- Food Restaurant with Drive- Through Window 115 (3%) 234 (6%) 349 (4%) e-Through Wis 820 - Shopping Center	Convenience Market/Gas Station 0 (0%) 0 (0%) 0 (0%) mdow 960 - Super Convenience Market/Gas Station 92 (6%)	60 (2%) 0 (0%) 60 (1%) 310 - Hotel	186 (5%) 245 (6%) 431 (6%) Total	Trips 3721 (95%) 3661 (94%) 7382 (94%) External Trips 1023 (62%)
Entry Exit Total 934 - F Entry Exit Total	Total Trips 3907 (100%) 3906 (100%) 7813 (100%) Fast-Food Resta Total Trips 1649 (100%) 1648 (100%) 3297 (100%)	Internal Trips 220 - Multifamily Housing (Low-Rise) 11 (0%) 11 (0%) 22 (0%) Parameter with Drive Internal Trips 220 - Multifamily Housing (Low-Rise) 223 (14%) 56 (3%) 279 (8%)	934 - Fast- Food Restaurant with Drive- Through Window 115 (3%) 234 (6%) 349 (4%) e-Through Wi 820 - Shopping Center 234 (14%) 115 (7%) 349 (11%)	Convenience Market/Gas Station 0 (0%) 0 (0%) 0 (0%) mdow 960 - Super Convenience Market/Gas Station 92 (6%) 138 (8%)	60 (2%) 0 (0%) 60 (1%) 310 - Hotel 77 (5%) 34 (2%)	186 (5%) 245 (6%) 431 (6%) Total 626 (38%) 343 (21%)	Trips 3721 (95%) 3661 (94%) 7382 (94%) External Trips 1023 (62%) 1305 (79%)
Entry Exit Total 934 - F Entry Exit Total	Total Trips 3907 (100%) 3906 (100%) 7813 (100%) Fast-Food Resta Total Trips 1649 (100%) 1648 (100%) 3297 (100%)	Internal Trips 220 - Multifamily Housing (Low-Rise) 11 (0%) 11 (0%) 22 (0%) Internal Trips 220 - Multifamily Housing (Low-Rise) 223 (14%) 56 (3%) 279 (8%)	934 - Fast- Food Restaurant with Drive- Through Window 115 (3%) 234 (6%) 349 (4%) e-Through Wi 820 - Shopping Center 234 (14%) 115 (7%) 349 (11%)	Convenience Market/Gas Station 0 (0%) 0 (0%) 0 (0%) mdow 960 - Super Convenience Market/Gas Station 92 (6%) 138 (8%)	60 (2%) 0 (0%) 60 (1%) 310 - Hotel 77 (5%) 34 (2%) 111 (3%)	186 (5%) 245 (6%) 431 (6%) Total 626 (38%) 343 (21%)	Trips 3721 (95%) 3661 (94%) 7382 (94%) External Trips 1023 (62%) 1305 (79%) 2328 (71%)

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review							
		Housing (Low-Rise)	820 - Shopping Center	with Drive- Through Window			
Entry	2305 (100%)	11 (0%)	0 (0%)	138 (6%)	46 (2%)	195 (8%)	2110 (92%)
Exit	2305 (100%)	11 (0%)	0 (0%)	92 (4%)	0 (0%)	103 (4%)	2202 (96%)
Total	4610 (100%)	22 (0%)	0 (0%)	230 (5%)	46 (1%)	298 (6%)	4312 (94%)

310 - Hotel

	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	934 - Fast-Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	856 (100%)	0 (0%)	0 (0%)	34 (4%)	0 (0%)	34 (4%)	822 (96%)
Exit	856 (100%)	0 (0%)	60 (7%)	77 (9%)	46 (5%)	183 (21%)	673 (79%)
Total	1712 (100%)	0 (0%)	60 (4%)	111 (6%)	46 (3%)	217 (13%)	1495 (87%)

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	1904	0	0	1904
820 - Shopping Center	7382	15	1107	6275
934 - Fast-Food Restaurant with Drive-Through Window	2328	40	931	1397
960 - Super Convenience Market/Gas Station	4312	40	1725	2587
310 - Hotel	1495	0	0	1495

ITE DEVIATION DETAILS

Weekday

Landuse No deviations from ITE.

Methods No deviations from ITE.

220 - Multifamily Housing (Low-Rise) (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. External Trips

820 - Shopping Center (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

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Print Preview Page 5 of 5 Weekday 934 - Fast-Food Restaurant with Drive-Through Window (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. 960 - Super Convenience Market/Gas Station (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. 310 - Hotel (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. SUMMARY **Total Entering** 9831 **Total Exiting** 9828 0 **Total Entering Reduction Total Exiting Reduction** 0 **Total Entering Internal Capture Reduction** 1119 **Total Exiting Internal Capture Reduction** 1119 **Total Entering Pass-by Reduction** 1811 **Total Exiting Pass-by Reduction** 1952 **Total Entering Non-Pass-by Trips** 6901 **Total Exiting Non-Pass-by Trips** 6757

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Print Preview Page 1 of 5

PERIOD SETTING

Analysis Name : AM Peak Hour

Project Name: Baumgarten - Scenario 2 No:

Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)	Dwelling Units	300	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	+-0.51	31 23%	104 77%	135
820 - Shopping Center (General Urban/Suburban)	1000 Sq. Ft. GLA	147	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	T = 0.5 (X)+151.78	140 62%	85 38%	225
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	7	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	40.19	143 51%	138 49%	281
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	28.08	281 50%	281 50%	562
310 - Hotel (General Urban/Suburban)	Occupied Rooms	140	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.	0.62	50 57%	37 43%	87

TRAFFIC REDUCTIONS

ı	Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit					
1	220 - Multifamily Housing (Low-Rise)	0 %	31	0 %	104					
ı	820 - Shopping Center	0 %	140	0 %	85					
l	934 - Fast-Food Restaurant with Drive-Through Window	0 %	143	0 %	138					
ı	960 - Super Convenience Market/Gas Station	0 %	281	0 %	281					
ı	https://itetripgen.org/projectstudy/printpreview?guid=137904c813cf9020a1e40471a9abc21b 08/02/2018									

Land (310 - F				R	intry Reduction %	Adjusted Entry 50	Exit F	eduction	Adjusted 37	Exit	
				II	NTERNAL T	RIPS					
220 - N	lultifam	ily Housing (Low-F	Rise)					820 - Sho	pping Cen	ter	
Exit	104	Demand Exit:	1 %	(1)	Balanced:	Demand Entry	8 %	(11)	Entry	140	
Entry	31	Demand Entry:	1 %	(0)	Balanced: 0	Demand Exit:	7 %	(6)	Exit	85	
220 - N	lultifam	ily Housing (Low-F	Rise)			934 - Fas	t-Food		nt with Driv		
Exit	104	Demand Exit:	20 %	(21)	Balanced: 21	Demand Entry:	20 %	(29)	Entry	143	
Entry	31	Demand Entry:	5 %	(2)	Balanced:	Demand Exit:	4 %	(6)	Exit	138	
220 - N	lultifam	ily Housing (Low-F	Rise)			960 - Super Cor	venie	nce Marke	t/Gas Stati	ion	
Exit	104	Demand Exit:	1 %	(1)	Balanced:	Demand Entry	8 %	(22)	Entry	281	
Entry	31	Demand Entry:	1 %	(0)	Balanced: 0	Demand Exit:	7 %	(20)	Exit	281	
220 - N	lultifam	ily Housing (Low-F	Rise)						310 - Ho	tel	
Exit	104	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry	: 0 %	(0)	Entry	50	
Entry	31	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	37	
820 - S	hoppin	g Center				934 - Fas	t-Food		nt with Driv		
Exit	85	Demand Exit:	6 %	(5)	Balanced: 5	Demand Entry:	25 %	(36)	Entry	143	
Entry	140	Demand Entry:	4 %	(6)	Balanced: 6	Demand Exit:	7 %	(10)	Exit	138	
820 - S	hoppin	g Center				960 - Super Cor	ivenie	nce Marke	t/Gas Stati	ion	
Exit	85	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry	0 %	(0)	Entry	281	
Entry	140	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	281	
820 - S	hoppin	g Center							310 - Ho	tel	
Exit	85	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry	: 0 %	(0)	Entry	50	
Entry	140	Demand Entry:	2 %	(3)	Balanced: 3	Demand Exit:	7 %	(3)	Exit	37	
934 - F Windo		od Restaurant with	Drive	-Through		960 - Super Cor	venie	nce Marke	t/Gas Stati	ion	
Exit	138	Demand Exit:	25 %	(35)		Demand Entry	6 %	(17)	Entry	281	

960 - S	uper Conveni	ence Market/Ga Internal Trips					External
	<u></u>	.to		<i>(</i>	4		4
Total	281 (100%)	23 (8%)	11 (4%)	27 (10%)	5 (2%)	66 (23%)	215 (77%)
Exit	138 (100%)	2 (1%)	6 (4%)	17 (12%)	2 (1%)	27 (20%)	111 (80%)
Entry	143 (100%)	21 (15%)	5 (3%)	10 (7%)	3 (2%)	39 (27%)	104 (73%)
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	960 - Super Convenience Market/Gas Station	310 - Hotel	Total	External Trips
934 - F	ast-Food Res	Internal Trips		ndow			
					- ()	(. 73)	
Total	225 (100%)	1 (0%)	11 (5%)	0 (0%)	3 (1%)	15 (7%)	210 (93%)
Exit	85 (100%)	0 (0%)	5 (6%)	0 (0%)	0 (0%)	5 (6%)	80 (94%)
Entry	140 (100%)	1 (1%)	Window 6 (4%)	0 (0%)	3 (2%)	10 (7%)	130 (93%)
	Total Trips	220 - Multifamily Housing (Low-Rise)	934 - Fast- Food Restaurant with Drive- Through	960 - Super Convenience Market/Gas Station	310 - Hotel	Total	External Trips
820 - S	Shopping Cent	er Internal Trips	5				
Total	135 (100%)	1 (1%)	23 (17%)	1 (176)	0 (0%)	25 (19%)	110 (81%)
Exit	104 (100%)	1 (1%)	21 (20%)	1 (1%)	0 (0%)	23 (22%)	
Entry	31 (100%)	0 (0%)	2 (6%)	0 (0%)	0 (0%)	2 (6%)	29 (94%)
	Total Trips	820 - Shopping Center	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station			External Trips
		Internal Trips		060 6	240 11-4-1	Total	
220 - N	lultifamily Ho	using (Low-Rise)	J			
Entry		mand Entry: 2%	, , ,	0 Balanced: 3	Demand Exit:		Exit 37
960 - S Exit		ence Market/Gas mand Exit: 0 %		Balanced:	Demand Entry:	0 % (0)	310 - Hotel Entry 50
Entry		mand Entry: 6%		3	Demand Exit:	5 70 (S)	Exit 37
Exit			(4)	Balanced: 2 Balanced:	Demand Entry:		Entry 50
934 - F Nindo		aurant with Driv	e-Through	Dalanadi			310 - Hotel
Entry	143 De	mand Entry: 7 %	6 (10)	Balanced: 10	Demand Exit:	4 % (11)	Exit 281

int Preview								Page 4 of
		220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	934 - Fast-Food Restaurant with Drive-Through Window				
Entry	281 (100%)	1 (0%)	0 (0%)	17 (6%)	3 (1%)	21 (7%)	260 (93%)	
Exit	281 (100%)	0 (0%)	0 (0%)	10 (4%)	0 (0%)	10 (4%)	271 (96%)	
Total	562 (100%)	1 (0%)	0 (0%)	27 (5%)	3 (1%)	31 (6%)	531 (94%)	
310 - H	otel							
		Internal Trips						
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	934 - Fast-Food Restaurant with Drive-Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips	
Entry	50 (100%)	0 (0%)	0 (0%)	2 (4%)	0 (0%)	2 (4%)	48 (96%)	

EXTERNAL TRIPS

3 (8%)

5 (6%)

3 (8%)

3 (3%)

9 (24%)

11 (13%)

28 (76%)

76 (87%)

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	110	0	0	110
820 - Shopping Center	210	25	53	157
934 - Fast-Food Restaurant with Drive-Through Window	215	O 50	108	107
960 - Super Convenience Market/Gas Station	531	O 50	266	265
310 - Hotel	76	0	0	76

ITE DEVIATION DETAILS

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

Landuse No deviations from ITE.

Exit

Total

37 (100%)

87 (100%)

0 (0%)

0 (0%)

3 (8%)

3 (3%)

Methods No deviations from ITE.

External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

820 - Shopping Center (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

934 - Fast-Food Restaurant with Drive-Through Window (General Urban/Suburban)

The chosen pass-by% (50) is not provided by ITE. ITE recommends 49.

960 - Super Convenience Market/Gas Station (General Urban/Suburban)

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Print Preview Page 5 of 5 Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m. The chosen pass-by% (50) is not provided by ITE. ITE recommends 63. 310 - Hotel (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. SUMMARY **Total Entering** 645 **Total Exiting** 645 **Total Entering Reduction** 0 **Total Exiting Reduction** 0 **Total Entering Internal Capture Reduction** 74 **Total Exiting Internal Capture Reduction** 74 **Total Entering Pass-by Reduction** 214 **Total Exiting Pass-by Reduction** 213 **Total Entering Non-Pass-by Trips** 357 Total Exiting Non-Pass-by Trips 358

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Print Preview Page 1 of 5

PERIOD SETTING

Analysis Name : PM Peak Hour

Project Name: Baumgarten - Scenario 2 No:
Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

	1-1						
Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)	Dwelling Units	300	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Ln(T) = 0.89Ln(X) +-0.02	99 63%	58 37%	157
820 - Shopping Center (General Urban/Suburban)	1000 Sq. Ft. GLA	147	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Ln(T) = 0.74Ln(X) +2.89	347 48%	376 52%	723
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	7	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.		119 52%	110 48%	229
960 - Super Convenience Market/Gas Station (General Urban/Suburban)	Vehicle Fueling Positions	20	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.		230 50%	229 50%	459
310 - Hotel (General Urban/Suburban)	Occupied Rooms	140	Weekday, AM Peak Hour of Generator	Average 0.65	50 55%	41 45%	91
			The time period	ods do not match.			

TRAFFIC REDUCTIONS

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
220 - Multifamily Housing (Low-Rise)	0 %	99	0 %	58
820 - Shopping Center	0 %	347	0 %	376
934 - Fast-Food Restaurant with Drive-Through Window	0 %	119	0 %	110

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Land	Use				Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted	Exit
960 - 8	Super Co	onvenience Market/	Gas Sta	ation	0 %	230	0 %	229	
310 - 1	Hotel				0 %	50	0 %	41	
					INTERNAL T	RIPS			
220 - 1	/lultifam	ily Housing (Low-	Rise)				820 - Sho	pping Cen	ter
Exit	58	Demand Exit:	21 %	(12)	Balanced: 12	Demand Entry	: 5% (17)	Entry	347
Entry	99	Demand Entry:	23 %	(23)	Balanced: 23	Demand Exit:	13 % (49)	Exit	376
220 - 1	/lultifam	ily Housing (Low-	Rise)			934 - Fast-Food R	estaurant with D	rive-Throu Windo	
Exit	58	Demand Exit:	21 %	(12)	Balanced: 12	Demand Entry:	14 % (17)	Entry	119
Entry	99	Demand Entry:	16 %	(16)	Balanced: 16	Demand Exit:	18 % (20)	Exit	110
220 - N	lultifam	ily Housing (Low-	Rise)			960 - Super Coi	nvenience Marke	t/Gas Stati	on
Exit	58	Demand Exit:	21 %	(12)	Balanced:	Demand Entry	: 5 % (12)	Entry	230
Entry	99	Demand Entry:	23 %	(23)	Balanced: 23	Demand Exit:	13 % (30)	Exit	229
220 - l	lultifam	ily Housing (Low-	Rise)					310 - Ho	tel
Exit	58	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry	: 0 % (0)	Entry	50
Entry	99	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 % (0)	Exit	41
820 - \$	Shoppin	g Center				934 - Fas	t-Food Restaura Thre	nt with Driv	
Exit	376	Demand Exit:	5 %	(19)	Balanced: 6	Demand Entry:	5 % (6)	Entry	119
Entry	347	Demand Entry:	8 %	(28)	Balanced: 8	Demand Exit:	7 % (8)	Exit	110
820 - \$	Shoppin	g Center				960 - Super Cor	nvenience Marke	t/Gas Stati	on
Exit	376	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry	: 0 % (0)	Entry	230
Entry	347	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 % (0)	Exit	229
820 - \$	Shoppin	g Center			Dalanas di			310 - Ho	tel
Exit	376	Demand Exit:	2 %	(8)	Balanced: 3	Demand Entry		Entry	50
Entry	347	Demand Entry:	1 %	(3)	Balanced: 2	Demand Exit:	5 % (2)	Exit	41

Nindo		staurant with	Drive	-Through	9	60 - Super Conv	enience Ma	arket/Gas Sta	tion
Exit	110	Demand Exit:	5 %	(6)	Balanced: 6	Demand Entry:	5 % (12)	Entry	230
ntry	119	Demand Entry:	7 %	(8)	Balanced: 8	Demand Exit:	8 % (18)	Exit	229
34 - F Vindo		staurant with	Drive	-Through				310 - H	lotel
Exit	110	Demand Exit:	2 %	(2)	Balanced: 2	Demand Entry:	24 % (12)	Entr	y 50
ntry	119 [Demand Entry:	17 %	(20)	Balanced: 9	Demand Exit:	23 % (9)	Exit	41
60 - S	uper Conve	nience Market	/Gas	Station				310 - H	lotel
xit	229 [Demand Exit:	2 %	(5)	Balanced: 3	Demand Entry:	6 % (3)	Entr	y 50
ntry	230	Demand Entry:	1 %	(2)	Balanced: 2	Demand Exit:	5 % (2)	Exit	41
:20 - N	lultifamily H	ousing (Low-							
		Internal	Irips	004 = 4		040 11-4-1			
	Total Trips	820 - Shoppin S Center	g	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	310 - Hotel	Tota	Exte Trips	
Entry	99 (100%)	23 (23%)		16 (16%)	23 (23%)	0 (0%)	62 (63%) 37 (3	37%)
Exit	58 (100%)	12 (21%)		12 (21%)	12 (21%)	0 (0%)	36 (62%) 22 (3	88%)
otal	157 (100%	35 (22%)	28 (18%)	35 (22%)	0 (0%)	98 (62%) 59 (3	38%)
320 - S	hopping Ce								
		Internal ' 220 -	irips	024 Fact	060 6	240 Hotal	Total	-i	
	Total Trips	Multifam		934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	310 - Hotel	Tota	al Exte Trips	
Entry	347 (100%	12 (3%)		8 (2%)	0 (0%)	2 (1%)	22 (6%) 325	(94%)
xit	376 (100%	23 (6%)		6 (2%)	0 (0%)	3 (1%)	32 (9%) 344	(91%)
otal	723 (100%) 35 (5%)		14 (2%)	0 (0%)	5 (1%)	54 (7%) 669	(93%)
	ast-Food Re	estaurant with Internal		-Through Wi	ndow				
934 - F		220 -	ps	820 -	960 - Super	310 - Hotel	Tota	al =	
934 - F					Convenience		100	al Exte Trips	
934 - F	Total Trips	Multifam Housing (Low-Ris		Shopping Center	Market/Gas Station				,
934 - F Entry	Total Trip:	Multifam Housing (Low-Ris	e)			9 (8%)	35 (29%) 84 (7	

review							Pag
Total	229 (100%)	28 (12%)	14 (6%)	14 (6%)	11 (5%)	67 (29%)	162 (71%)
960 - S	uper Convenie	ence Market/Gas	s Station				
		Internal Trips	5				
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	934 - Fast-Food Restaurant with Drive-Through Window	310 - Hotel	Total	External Trips
Entry	230 (100%)	12 (5%)	0 (0%)	6 (3%)	2 (1%)	20 (9%)	210 (91%)
Exit	229 (100%)	23 (10%)	0 (0%)	8 (3%)	3 (1%)	34 (15%)	195 (85%)
Total	459 (100%)	35 (8%)	0 (0%)	14 (3%)	5 (1%)	54 (12%)	405 (88%)
310 - H	lotel						
		Internal Trips	5				
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	934 - Fast-Food Restaurant with Drive-Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	50 (100%)	0 (0%)	3 (6%)	2 (4%)	3 (6%)	8 (16%)	42 (84%)
Exit	41 (100%)	0 (0%)	2 (5%)	9 (22%)	2 (5%)	13 (32%)	28 (68%)
Total	91 (100%)	0 (0%)	5 (5%)	11 (12%)	5 (5%)	21 (23%)	70 (77%)

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	59	0	0	59
820 - Shopping Center	669	O 25	167	502
934 - Fast-Food Restaurant with Drive-Through Window	162	⊘ 50	81	81
960 - Super Convenience Market/Gas Station	405	O 50	203	202
310 - Hotel	70	0	0	70

ITE DEVIATION DETAILS

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

Landuse No deviations from ITE.

Methods No deviations from ITE.

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Print Preview Page 5 of 5

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

External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

820 - Shopping Center (General Urban/Suburban)

The chosen pass-by% (25) is not provided by ITE. ITE recommends 34.

960 - Super Convenience Market/Gas Station (General Urban/Suburban) The chosen pass-by% (50) is not provided by ITE. ITE recommends 66.

Weekday, AM Peak Hour of Generator

Landuse No deviations from ITE.

Methods No deviations from ITE.

External Trips 310 - Hotel (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

SUMMARY

Total Entering	845
Total Exiting	814
Total Entering Reduction	0
Total Exiting Reduction	0
Total Entering Internal Capture Reduction	147
Total Exiting Internal Capture Reduction	147
Total Entering Pass-by Reduction	228
Total Exiting Pass-by Reduction	223
Total Entering Non-Pass-by Trips	470
Total Exiting Non-Pass-by Trips	444

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Trip Generation – Scenario 3

Project Information	
Project Name:	Baumgarten - Scenario 3
No:	
Date:	08/02/201
City:	5A - ALSA
State/Province:	
Zip/Postal Code:	
Country:	
Client Name:	
Analyst's Name:	
Edition:	ITE-TGM 10th Edition

Land Use	Size	Weeko	lay	AM Peak	Hour	PM Peak	Hour
		Entry	Exit	Entry	Exit	Entry	Exit
220 - Multifamily Housing (Low-Rise)		0.0					
(General Urban/Suburban)	400 Dwelling Units	1492	1491	41	137	128	75
Reduction	-	0	0	0	0	0	C
Internal		56	169	О	15	36	22
Pass-by		0	О	0	0	0	С
Non-pass-by		1436	1322	41	122	92	53
720 - Medical-Dental Office Building							
(General Urban/Suburban)	45 1000 Sq. Ft. GFA	821	820	86	24	43	112
Reduction		0	0	0	0	0	C
Internal		154	534	17	20	10	23
Pass-by		0	0	0	0	0	C
Non-pass-by		667	286	69	4	33	89
820 - Shopping Center (General							
Urban/Suburban)	150 1000 Sq. Ft. GLA	3961	3960	141	86	352	382
Reduction		0	0	0	0	0	C
Internal		235	308	11	8	36	34
Pass-by		559	548	32	20	79	87
Non-pass-by		3167	3104	98	58	237	261
932 - High-Turnover (Sit-Down) Restaurant							
(General Urban/Suburban)	20 1000 Sq. Ft. GFA	1122	1122	109	90	121	74
Reduction	<i>**</i>	0	0	0	0	0	C
Internal		371	193	18	18	25	16
Pass-by		225	279	36	29	38	24
Non-pass-by		526	650	55	43	58	34
934 - Fast-Food Restaurant with Drive-							
Through Window (General							
Urban/Suburban)	7 1000 Sq. Ft. GFA	1649	1648	143	138	119	110
Reduction		0	0	0	0	0	C
Internal		421	190	21	17	13	24
Pass-by		491	583	61	61	53	43
Non-pass-by		737	875	61	60	53	43
960 - Super Convenience Market/Gas							
Station (General Urban/Suburban)	20 Vehicle Fueling Positions	2305	2305	281	281	230	229
Reduction		0	0	0	0	0	C
Internal		268	111	20	9	27	28
Pass-by		815	877	130	137	102	100
Non-pass-by		1222	1317	131	135	101	101
Total		11350	11346	801	756	993	982
Total Reduction		0	0	0	0	0	C
Total Internal		1505	1505	87	87	147	147
Total Pass-by		2090	2287	259	247	272	254
Total Non-pass-by		7755	7554	455	422	574	581

Print Preview Page 1 of 6

PERIOD SETTING

Analysis Name : Weekday

Project Name: Baumgarten - Scenario 3 No:

Date: 8/2/2018 City:

State/Province: Zip/Postal Code: Country: Client Name:

Analyst's Name: Edition: ITE-TGM 10th Edition

Independent Variable	Size	Time Period	Method	Entry	Exit	Total
Dwelling Units	400	Weekday	Best Fit (LIN) T = 7.56 (X)+-40.86	1492 50%	1491 50%	2983
1000 Sq. Ft. GFA	45	Weekday	Best Fit (LIN) T = 38.42 (X)+-87.62	821 50%	820 50%	1641
1000 Sq. Ft. GLA	150	Weekday	Best Fit (LOG) Ln(T) = 0.68Ln(X) +5.57	3961 50%	3960 50%	7921
1000 Sq. Ft. GFA	20 ⁽⁰⁾	Weekday	Average 112.18	1122 50%	1122 50%	2244
1000 Sq. Ft. GFA	7	Weekday	Average 470.95	1649 50%	1648 50%	3297
Vehicle Fueling Positions	20	Weekday	Average 230.52	2305 50%	2305 50%	4610
	Variable Dwelling Units 1000 Sq. Ft. GFA 1000 Sq. Ft. GFA 1000 Sq. Ft. GFA Vehicle Fueling	Variable Size Dwelling Units 400 1000 Sq. Ft. GFA 45 1000 Sq. Ft. GLA 150 1000 Sq. Ft. GFA 20 ⁽⁰⁾ 1000 Sq. Ft. GFA 7 Vehicle Fueling 20	Dwelling Units 400 Weekday 1000 Sq. Ft. GFA 45 Weekday 1000 Sq. Ft. GLA 150 Weekday 1000 Sq. Ft. GFA 20 ⁽⁰⁾ Weekday 1000 Sq. Ft. GFA 7 Weekday Vehicle Fueling 20 Weekday	Variable Size Time Period Method Dwelling Units 400 Weekday Best Fit (LIN) T = 7.56 (X)+-40.86 1000 Sq. Ft. GFA 45 Weekday Best Fit (LIN) T = 38.42 (X)+-87.62 1000 Sq. Ft. GLA 150 Weekday Best Fit (LOG) Ln(T) = 0.68Ln(X) +5.57 1000 Sq. Ft. GFA 20(0) Weekday Average 112.18 1000 Sq. Ft. GFA 7 Weekday Average 470.95 Vehicle Fueling 20 Weekday Average	Variable Size Time Period Method Entry Dwelling Units 400 Weekday Best Fit (LIN) 1492 50% 1000 Sq. Ft. GFA 45 Weekday Best Fit (LIN) 821 T = 38.42 (X)+-87.62 50% 1000 Sq. Ft. GLA 150 Weekday Best Fit (LOG) 150% 50% 50% 1000 Sq. Ft. GFA 20 ⁽⁰⁾ Weekday Average 1122 112.18 50% 1000 Sq. Ft. GFA 7 Weekday Average 470.95 50% Vehicle Fueling 20 Weekday Average 2305	Variable Size Time Period Method Entry Exit Dwelling Units 400 Weekday Best Fit (LIN) T = 7.56 (X)+-40.86 1492 1491 50% 50% 1000 Sq. Ft. GFA 45 Weekday Best Fit (LIN) T = 38.42 (X)+-87.62 821 820 50% 50% 1000 Sq. Ft. GLA 150 Weekday Best Fit (LOG) Ln(T) = 0.68Ln(X) 50% 50% 3961 3960 50% 50% 1000 Sq. Ft. GFA 20 ⁽⁰⁾ Weekday Average 1122 1122 1122 112.18 50% 50% 50% 1000 Sq. Ft. GFA 7 Weekday Average 470.95 1649 1648 50% 50% Vehicle Fueling 20 Weekday Average 2305 2305

⁽⁰⁾ indicates size out of range.

TRAFFIC REDUCTIONS

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
220 - Multifamily Housing (Low-Rise)	0 %	1492	0 %	1491
720 - Medical-Dental Office Building	0 %	821	0 %	820
820 - Shopping Center	0 %	3961	0 %	3960
932 - High-Turnover (Sit-Down) Restaurant	0 %	1122	0 %	1122
934 - Fast-Food Restaurant with Drive-Through Window	0 %	1649	0 %	1648

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	Land (960 - 8		nvenience Market/0	Gas Sta	ation	Entry Reduction 0 %	Adjusted Entry 2305	Exit R 0 %	eduction	Adjusted	Exit
Balanced: 8 Balanced: 9 Balanced: 9 Demand Exit: 1 % (8) Entry 821						INTERNAL T	RIPS				
Balanced: 1491 Demand Entry: 1 % (15) Balanced: Demand Entry: 1 % (15) Balanced: Demand Entry: 1 % (15) Balanced: Demand Entry: 2 % (16) Balanced: Demand Entry: 3 % (119) Exit 3960	220 - N	lultifami	ly Housing (Low-F	Rise)			720 - 1	Medical	-Dental Of	fice Buildi	ng
	Exit	1491	Demand Exit:	1 %	(15)		Demand Entry	/: 1%	(8)	Entry	821
Balanced: 15 Demand Exit: 1 % (15) Balanced: 15 Demand Exit: 3 % (158) Entry 3961	Entry	1492	Demand Entry:	0 %	(0)	Balanced:	Demand Exit:	1 %	(8)	Exit	820
Entry 1492 Demand Exit: 1 % (15) Entry 1492 Demand Entry: 1 % (15) Balanced: 15 Balanced: 56 Bal	220 - N	lultifami	ly Housing (Low-F	Rise)					820 - Sho	pping Cen	ter
## 1492 Demand Entry: 1 % (15) 15 Demand Exit: 3 % (119) Exit 3960	Exit	1491	Demand Exit:	1 %	(15)		Demand Entry	/: 4%	(158)	Entry	3961
Balanced: 56 Demand Entry: 5 % (56) Entry 1122	Entry	1492	Demand Entry:	1 %	(15)		Demand Exit:	3 %	(119)	Exit	3960
Entry 1492 Demand Entry: 1 % (15) Balanced: 15 Demand Exit: 1 % (11) Exit 1122 220 - Multifamily Housing (Low-Rise) Demand Exit: 5 % (75) Balanced: 75 Demand Entry: 5 % (82) Entry 1492 Demand Entry: 1 % (15) Balanced: 75 Demand Exit: 1 % (16) Exit 1648 220 - Multifamily Housing (Low-Rise) Pomand Exit: 1 % (15) Balanced: 15 Demand Exit: 1 % (16) Exit 1648 220 - Multifamily Housing (Low-Rise) Exit 1491 Demand Exit: 1 % (15) Balanced: 15 Demand Exit: 1 % (92) Entry 1492 Demand Entry: 1 % (15) Balanced: 15 Demand Exit: 3 % (69) Exit 2305 270 - Medical-Dental Office Building Exit 820 Demand Exit: 1 % (16) Balanced: 15 Demand Exit: 1 % (554) Balanced: 15 Demand Exit: 1 % (684) Exit 820 Demand Exit: 31 % (254) Balanced: 123 Demand Exit: 1 % (168) Exit 122 Entry 821 Demand Entry: 7 % (57) Balanced: 123 Demand Exit: 1 % (168) Balanced: 15 Demand Exit: 1 % (554) Balanced: 15 Military Exit 1 % (554) Balanced: 15 Military Exit 1 % (554) Bal	220 - N	lultifami	ly Housing (Low-F	Rise)			932 - High-Tu	ırnover	(Sit-Dowr	ı) Restaura	ant
### 1492 Demand Entry: 1 % (15) ### 1122 ### 1493 Demand Exit: 5 % (75) ### 1494 Demand Exit: 5 % (75) ### 1495 Demand Exit: 5 % (75) ### 1496 Demand Exit: 5 % (75) ### 1497 Demand Exit: 5 % (75) ### 1498 Demand Exit: 1 % (15) ### 1648 ### 1494 Demand Exit: 1 % (15) ### 1648 ### 1495 Demand Exit: 1 % (15) ### 1648 ### 1496 Demand Exit: 1 % (15) ### 1648 ### 1497 Demand Exit: 1 % (15) ### 1648 ### 1498 Demand Exit: 1 % (15) ### 1648 ### 1499 Demand Exit: 1 % (15) ### 1648 ### 1490 Demand Exit: 1 % (15) ### 1648 ### 1491 Demand Exit: 1 % (15) ### 1648 ### 1492 Demand Exit: 1 % (15) ### 1648 ### 1494 Demand Exit: 1 % (15) ### 1648 ### 1495 Demand Exit: 1 % (16) ### 1648 ### 1496 Demand Exit: 1 % (16) ### 1648 ### 1648 ### 1648 ### 1648 ### 1648 ### 1648 ### 1648 ### 1648 ### 1648 ### 1649 ### 1648 ### 16	Exit	1491	Demand Exit:	5 %	(75)		Demand Entry	/: 5 %	(56)	Entry	1122
Through Window Exit 1491 Demand Exit: 5 % (75) Balanced: 75 Demand Entry: 5 % (82) Entry 1649	Entry	1492	Demand Entry:	1 %	(15)		Demand Exit:	1 %	(11)	Exit	1122
Entry 1492 Demand Exit: 5 % (75) Entry 1492 Demand Entry: 1 % (15) Entry 1492 Demand Entry: 1 % (15) Exit 1491 Demand Exit: 1 % (16) Exit 1648 220 - Multifamily Housing (Low-Rise) 960 - Super Convenience Market/Gas Station Balanced: 15 Balanced: 15 Balanced: 15 Balanced: 15 Demand Entry: 4 % (92) Entry 2305 Entry 1492 Demand Entry: 1 % (15) Entry 1492 Demand Entry: 1 % (15) Entry 1492 Demand Exit: 1 % (15) Entry 1492 Demand Exit: 1 % (15) Balanced: 15 Demand Exit: 3 % (69) Exit 2305 720 - Medical-Dental Office Building Exit 820 Demand Entry: 2 % (16) Entry 821 Demand Exit: 31 % (254) Entry 820 - Shopping Center Balanced: 15 Balanced: 16 Demand Exit: 14 % (554) Exit 3960 720 - Medical-Dental Office Building Balanced: 16 Demand Exit: 14 % (554) Exit 3960 Fig. 16 Demand Exit: 14 % (123) Entry 1122 Entry 821 Demand Entry: 7 % (57) Balanced: 123 Balanced: 123 Balanced: 123 Demand Exit: 15 % (168) Exit 1122 720 - Medical-Dental Office Building 934 - Fast-Food Restaurant with Drive-Through	220 - N	lultifami	ly Housing (Low-F	Rise)			934 - Fas	t-Food			
Demand Entry 1492 Demand Entry: 1 % (15) 15 Demand Exit: 1 % (16) Exit 1648	Exit	1491	Demand Exit:	5 %	(75)		Demand Entry	: 5%	(82)	Entry	1649
Balanced: 15 Demand Exit: 1 % (15) Balanced: 15 Demand Exit: 3 % (69) Exit 2305	Entry	1492	Demand Entry:	1 %	(15)		Demand Exit:	1 %	(16)	Exit	1648
Entry 1492 Demand Entry: 1 % (15) Entry 820 - Shopping Center Balanced: 115 Balanced: 15 Balanced: 16 Demand Entry: 16 % (634) Entry 3961 Entry 3960 Fig. 1 % (16) Entry 3961 Entry 3960 Fig. 2 % (16) Entry 3960 Fig. 3 % (16) Entry 3961 Entry 3	220 - N	lultifami	ly Housing (Low-F	Rise)			960 - Super Co	nvenie	nce Marke	t/Gas Stati	on
Demand Entry: 1 % (15) 15 Demand Exit: 3 % (69) Exit 2305 720 - Medical-Dental Office Building Exit 820 Demand Exit: 14 % (115) Entry 821 Demand Exit: 14 % (115) Balanced: 115 Balanced: 16 Demand Exit: 14 % (554) Exit 3960 720 - Medical-Dental Office Building Fixit 820 Demand Exit: 31 % (254) Balanced: 16 Balanced: 16 Balanced: 16 Demand Exit: 14 % (554) Exit 3960 932 - High-Turnover (Sit-Down) Restaurant Balanced: 123 Demand Exit: 15 % (168) Exit 1122 Fixit 821 Demand Exit: 15 % (168) Exit 1122	Exit	1491	Demand Exit:	1 %	(15)		Demand Entry	/: 4%	(92)	Entry	2305
Exit 820 Demand Exit: 14 % (115) Balanced: 115 Balanced: 16 Demand Entry: 16 % (634) Entry 3961 Entry 821 Demand Entry: 2 % (16) Balanced: 16 Demand Exit: 14 % (554) Exit 3960 720 - Medical-Dental Office Building 932 - High-Turnover (Sit-Down) Restaurant Exit 820 Demand Exit: 31 % (254) Balanced: 123 Balanced: 57 Demand Exit: 11 % (123) Entry 1122 Entry 821 Demand Entry: 7 % (57) Balanced: 57 Demand Exit: 15 % (168) Exit 1122 720 - Medical-Dental Office Building 934 - Fast-Food Restaurant with Drive-Through	Entry	1492	Demand Entry:	1 %	(15)		Demand Exit:	3 %	(69)	Exit	2305
Entry 821 Demand Entry: 2 % (16) Balanced: 16 Demand Exit: 14 % (554) Exit 3960 720 - Medical-Dental Office Building Exit 820 Demand Exit: 31 % (254) Entry 821 Demand Exit: 31 % (57) Balanced: 123 Balanced: 14 % (123) Entry 1122 Fig. 14 % (554) Exit 3960 932 - High-Turnover (Sit-Down) Restaurant Demand Entry: 11 % (123) Entry 1122 Fig. 14 % (554) Exit 3960 932 - High-Turnover (Sit-Down) Restaurant Demand Exit: 15 % (168) Exit 1122	720 - N	ledical-	Dental Office Build	ing					820 - Sho	pping Cen	ter
Entry 821 Demand Entry: 2 % (16) Balanced: 16 Demand Exit: 14 % (554) Exit 3960 720 - Medical-Dental Office Building 932 - High-Turnover (Sit-Down) Restaurant Exit 820 Demand Exit: 31 % (254) Entry 821 Demand Entry: 7 % (57) Balanced: 123 Balanced: 123 Balanced: 57 Demand Exit: 15 % (168) Exit 1122 720 - Medical-Dental Office Building 934 - Fast-Food Restaurant with Drive-Through	Exit	820	Demand Exit:	14 %	(115)		Demand Entry	r: 16 %	(634)	Entry	3961
Exit 820 Demand Exit: 31 % (254) Balanced: 123 Demand Entry: 11 % (123) Entry 1122 Entry 821 Demand Entry: 7 % (57) Balanced: 57 Demand Exit: 15 % (168) Exit 1122 720 - Medical-Dental Office Building 934 - Fast-Food Restaurant with Drive-Through	Entry	821	Demand Entry:	2 %	(16)	Balanced:	Demand Exit:	14 %	(554)	Exit	3960
Entry 821 Demand Entry: 7 % (57) Balanced: 57 Demand Entry: 11 % (123) Entry 1122 Balanced: 57 Demand Entry: 15 % (168) Exit 1122 720 - Medical-Dental Office Building 934 - Fast-Food Restaurant with Drive-Through	720 - N	ledical-[Dental Office Build	ing			932 - High-Tu	ırnover	(Sit-Dowr	n) Restaura	ant
720 - Medical-Dental Office Building 934 - Fast-Food Restaurant with Drive-Through	Exit	820	Demand Exit:	31 %	(254)		Demand Entry	/: 11 %	(123)	Entry	1122
	Entry	821	Demand Entry:	7 %	(57)		Demand Exit:	15 %	(168)	Exit	1122
	720 - N	ledical-D	Dental Office Build	ing			934 - Fast-Food R	Restaur	ant with D		

		Medical- Dental Office Building	Shopping Center	Turnover F (Sit-Down) F	cood Convenienc Restaurant vith Drive-Station	1.100.000.000.000		
220	- Multifamil Total Tr	y Housing (Low-Fips Internal Tr		932 - High- 9	34 - Fast- 960 - Super	Total	Exteri Trips	nal
Ent	ry 1649	Demand Entry:	3 % (49)	Balanced: 46	Demand Exit: 2 %	(46)	Exit	2305
Exit	1648	Demand Exit:	12 % (198)	Balanced: 69	Demand Entry: 3 %	(69)	Entry	2305
	- Fast-Food	Restaurant with	Drive-Througl	h	960 - Super Convenie	ence Market/Ga	as Statio	on
Ent	ry 1122	Demand Entry:	3 % (34)	Balanced: 34	Demand Exit: 2 %	(46)	Exit	2305
Exit	1122	Demand Exit:	12 % (135)	Balanced: 69	Demand Entry: 3 %	(69)	Entry	2305
932	- High-Turn	over (Sit-Down) F	Restaurant		960 - Super Convenie	ence Market/Ga	as Static	on
Ent	ry 1122	Demand Entry:	0 % (0)	Balanced: 0	Demand Exit: 0 %	(0)	Exit	1648
Exit	1122	Demand Exit:	0 % (0)	Balanced:	Demand Entry: 0 %	Through (0)	Entry	
932	- High-Turn	over (Sit-Down) F	Restaurant		934 - Fast-Food			
Ent	ry 3961	Demand Entry:	0 % (0)	Balanced: 0	Demand Exit: 0 %	(0)	Exit	2305
Exit			0 % (0)	Balanced: 0	Demand Entry: 0 %		Entry	
820	- Shopping	Center			960 - Super Convenie	ence Market/Ga	as Static	on
Ent	ry 3961	Demand Entry:	2 % (79)	Balanced: 49	Demand Exit: 3 %		Exit	1648
Exit	3960	Demand Exit:	3 % (119)	Balanced: 119	Demand Entry: 12 %	Throug l % (198)	Entry	
820	- Shopping	Center			934 - Fast-Food			
Ent	ry 3961	Demand Entry:	3 % (119)	Balanced: 56	Demand Exit: 5 %	(56)	Exit	1122
Exit			4 % (158)	Balanced:	Demand Entry: 17		Entry	
820	- Shopping	Center		10	932 - High-Turnove	r (Sit-Down) P	estaura	nt
	ry 821	Demand Entry:	,	115 Balanced: 16	Demand Exit: 14 9		Exit	2305
720 Exit		ental Office Build Demand Exit:		Balanced:	960 - Super Convenie Demand Entry: 16		as Station	
	ry 821	Demand Entry:		57	Demand Exit: 15 %		Exit	1648
Exi	820	Demand Exit:	31 % (254)	Balanced: 181 Balanced:			Entry	1649
Exit	ew : 820	Demand Exit:	31 % (254)	Balanced:	Demand Entry: 11 %	6 (181)	Entry	Page 3 o

					Through Window			
Entry	1492 (100%)	0 (0%)	15 (1%)	11 (1%)	15 (1%)	15 (1%)	56 (4%)	1436 (96%)
Exit	1491 (100%)	8 (1%)	15 (1%)	56 (4%)	75 (5%)	15 (1%)	169 (11%)	1322 (89%)
Total	2983 (100%)	8 (0%)	30 (1%)	67 (2%)	90 (3%)	30 (1%)	225 (8%)	2758 (92%)
720 - 1	Medical-Dental	Office Buildi	na					
		Internal Trip						
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	821 (100%)	8 (1%)	16 (2%)	57 (7%)	57 (7%)	16 (2%)	154 (19%)	667 (81%)
Exit	820 (100%)	0 (0%)	115 (14%)	123 (15%)	181 (22%)	115 (14%)	534 (65%)	286 (35%)
Γotal	1641 (100%)	8 (0%)	131 (8%)	180 (11%)	238 (15%)	131 (8%)	688 (42%)	953 (58%)
320 - \$	Shopping Cent	er						
		Internal Trip	s					
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	3961 (100%)	15 (0%)	115 (3%)	56 (1%)	49 (1%)	0 (0%)	235 (6%)	3726 (94%)
Exit	3960 (100%)	15 (0%)	16 (0%)	158 (4%)	119 (3%)	0 (0%)	308 (8%)	3652 (92%)
Γotal	7921 (100%)	30 (0%)	131 (2%)	214 (3%)	168 (2%)	0 (0%)	543 (7%)	7378 (93%)
932 - I	High-Turnover	(Sit-Down) Re	estaurant					
		Internal Trip	s					
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
entry	1122 (100%)	56 (5%)	123 (11%)	158 (14%)	0 (0%)	34 (3%)	371 (33%)	751 (67%)
xit	1122 (100%)	11 (1%)	57 (5%)	56 (5%)	0 (0%)	69 (6%)	193 (17%)	929 (83%)
Γotal	2244 (100%)	67 (3%)	180 (8%)	214 (10%)	0 (0%)	103 (5%)	564 (25%)	1680 (75%)
134 - I	Fast-Food Res		_	h Window				
		Internal Trip	1			l	1	
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	960 - Super Convenience Market/Gas Station	Total	External Trips
≣ntry	1649 (100%) 1648 (100%)	75 (5%)	181 (11%)	119 (7%)	0 (0%)	46 (3%)	421 (26%) 190 (12%)	1228 (74%) 1458 (88%)

Print Preview Page 5 of 6

Total 3297 (100%) 90 (3%) 238 (7%) 168 (5%) 0 (0%) 115 (3%) 611 (19%) 2686 (81%)

960 - Super Convenience Market/Gas Station

Internal Trips

	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	Total	External Trips
Entry	2305 (100%)	15 (1%)	115 (5%)	0 (0%)	69 (3%)	69 (3%)	268 (12%)	2037 (88%)
Exit	2305 (100%)	15 (1%)	16 (1%)	0 (0%)	34 (1%)	46 (2%)	111 (5%)	2194 (95%)
Total	4610 (100%)	30 (1%)	131 (3%)	0 (0%)	103 (2%)	115 (2%)	379 (8%)	4231 (92%)

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	2758	0	0	2758
720 - Medical-Dental Office Building	953	0	0	953
820 - Shopping Center	7378	15	1107	6271
932 - High-Turnover (Sit-Down) Restaurant	1680	30	504	1176
934 - Fast-Food Restaurant with Drive-Through Window	2686	40	1074	1612
960 - Super Convenience Market/Gas Station	4231	40	1692	2539

ITE DEVIATION DETAILS

Weekday

Landuse No deviations from ITE.

Methods No deviations from ITE.

External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

720 - Medical-Dental Office Building (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

820 - Shopping Center (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

932 - High-Turnover (Sit-Down) Restaurant (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

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Print Preview Page 6 of 6 Weekday 934 - Fast-Food Restaurant with Drive-Through Window (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. 960 - Super Convenience Market/Gas Station (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. SUMMARY 11350 **Total Entering Total Exiting** 11346 **Total Entering Reduction** 0 **Total Exiting Reduction** 0 **Total Entering Internal Capture Reduction** 1505 **Total Exiting Internal Capture Reduction** 1505 **Total Entering Pass-by Reduction** 2090 **Total Exiting Pass-by Reduction** 2287 Total Entering Non-Pass-by Trips 7755 **Total Exiting Non-Pass-by Trips** 7554

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Print Preview Page 1 of 6 PERIOD SETTING Analysis Name: AM Peak Hour Project Name: Baumgarten - Scenario 3 No: Date: 8/2/2018 City: State/Province: Zip/Postal Code: Country: Client Name: ITE-TGM 10th Edition Analyst's Name: Edition: Independent Land Use **Time Period** Entry Size Method Exit Total Variable **Dwelling Units** Weekday, Peak Best Fit (LOG) 220 - Multifamily 400 41 137 178 Housing (Low-Rise) Hour of Adjacent Ln(T) = 0.95Ln(X)23% 77% Street Traffic, (General +-0.51 Urban/Suburban) One Hour Between 7 and 9 Weekday, Peak Best Fit (LOG) 720 - Medical-Dental 1000 Sq. Ft. GFA 45 86 24 110 Office Building Hour of Adjacent Ln(T) = 0.89Ln(X)78% 22% (General Street Traffic, +1.31 Urban/Suburban) One Hour Between 7 and 9 a.m. Weekday, Peak Best Fit (LIN) 820 - Shopping Center 1000 Sq. Ft. GLA 150 141 86 227 (General Hour of Adjacent T = 0.5(X)+151.7862% 38% Urban/Suburban) Street Traffic, One Hour Between 7 and 9 109 932 - High-Turnover 1000 Sq. Ft. GFA 20(0) Weekday, Peak Average 90 199 (Sit-Down) Restaurant Hour of Adjacent 9.94 55% 45% (General Street Traffic, Urban/Suburban) One Hour Between 7 and 9 a.m. 934 - Fast-Food 1000 Sq. Ft. GFA 7 Weekday, Peak Average 143 138 281 Hour of Adjacent 40.19 Restaurant with Drive-51% 49% Through Window Street Traffic, (General One Hour Urban/Suburban) Between 7 and 9 a.m. 960 - Super Vehicle Fueling Weekday, Peak Average 281 281 562 20 Convenience Positions Hour of Adjacent 28.08 50% 50% Market/Gas Station Street Traffic, One Hour (General Urban/Suburban) Between 7 and 9 a.m. (0) indicates size out of range. TRAFFIC REDUCTIONS

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eview Land				Entry	Adjusted Entry	Exit Reduction	Adjusted Ex	Pag
				Reduction				CIL
		ly Housing (Low-Ris		0 %	41	0 %	137	
		Dental Office Buildir	ng	0 %	86	0 %	24	
	Shopping			0 %	141	0 %	86	
		nover (Sit-Down) Re		0 %	109	0 %	90	
934 - F Windo		d Restaurant with D	rive-Through	0 %	143	0 %	138	
960 - 9	Super Co	onvenience Market/0	Gas Station	0 %	281	0 %	281	
				INTERNAL T	RIPS			
220 - N	lultifam	ily Housing (Low-F	Rise)		720 - 1	Medical-Dental Of	ffice Building	
Exit	137	Demand Exit:	1 % (1)	Balanced: 1	Demand Entry	y: 1 % (1)	Entry 8	6
Entry	41	Demand Entry:	0 % (0)	Balanced: 0	Demand Exit:	1 % (0)	Exit 2	4
220 - N	lultifam	ily Housing (Low-F	Rise)			820 - Sho	pping Center	
≣xit	137	Demand Exit:	1 % (1)	Balanced:	Demand Entry	y: 4 % (6)	Entry 14	41
Entry	41	Demand Entry:	1 % (0)	Balanced: 0	Demand Exit:	3 % (3)	Exit 86	6
220 - N	lultifam	ily Housing (Low-F	Rise)		932 - High-Ti	urnover (Sit-Dowr	n) Restaurant	
Exit	137	Demand Exit:	5 % (7)	Balanced: 5	Demand Entry	y: 5 % (5)	Entry 10	09
Entry	41	Demand Entry:	1 % (0)	Balanced: 0	Demand Exit:	1 % (1)	Exit 90	0
220 - N	lultifam	ily Housing (Low-F	Rise)		934 - Fas	st-Food Restaura Thro	nt with Drive- ough Window	
Exit	137	Demand Exit:	5 % (7)	Balanced:	Demand Entry	r: 5 % (7)	Entry 14	43
Entry	41	Demand Entry:	1 % (0)	Balanced: 0	Demand Exit:	1 % (1)	Exit 13	38
220 - N	lultifam	ily Housing (Low-F	Rise)		960 - Super Co	nvenience Marke	t/Gas Station	
Exit	137	Demand Exit:	1 % (1)	Balanced:	Demand Entry	y: 4 % (11)	Entry 28	31
Entry	41	Demand Entry:	1 % (0)	Balanced: 0	Demand Exit:	3 % (8)	Exit 28	B1
'20 - N	ledical-	Dental Office Build	ling			820 - Sho	pping Center	
Exit	24	Demand Exit:	14 % (3)	Balanced:	Demand Entry	y: 16 % (23)	Entry 14	41
≣ntry	86	Demand Entry:	2 % (2)	Balanced: 2	Demand Exit:	14 % (12)	Exit 86	ô
	ledical-	Dental Office Build	ling		932 - High-Tr	urnover (Sit-Dowr	n) Restaurant	
720 - N		Demand Exit:				y: 11 % (12)	Entry 10	-11-1

review					Balanced:						Pag
Entry	86	Demand Entry:	7 %	(6)	Balanced:	Demand Exit:	15 %	(14)	Exit	90	
720 - M	ledical-l	Dental Office Build	ling		9	34 - Fast-Food Re	estaura	nt with Driv	e-Throu Wind		
Exit	24	Demand Exit:	31 %	(7)	Balanced:	Demand Entry:	11 %	(16)	Entry	143	
Entry	86	Demand Entry:	7 %	(6)	Balanced: 6	Demand Exit:	15 %	(21)	Exit	138	
720 - M	ledical-l	Dental Office Build	ling			960 - Super Con	venien	ce Market/G	as S tat	ion	
Exit	24	Demand Exit:	14 %	(3)	Balanced:	Demand Entry:	16 %	(45)	Entry	281	
Entry	86	Demand Entry:	2 %	(2)	Balanced: 2	Demand Exit:	14 %	(39)	Exit	281	
820 - S	hopping	g Center				932 - High-Tur	nover	(Sit-Down) I	Restaur	ant	
Exit	86	Demand Exit:	4 %	(3)	Balanced:	Demand Entry:	17 %	(19)	Entry	109	
Entry	141	Demand Entry:	3 %	(4)	Balanced: 4	Demand Exit:	5 %	(5)	Exit	90	
820 - S	hoppin	g Center				934 - Fast	-Food I	Restaurant o	with Dri gh Wind		
Exit	86	Demand Exit:	3 %	(3)	Balanced:	Demand Entry:	12 %	(17)	Entry	143	
Entry	141	Demand Entry:	2 %	(3)	Balanced:	Demand Exit:	3% ((4)	Exit	138	
820 - S	hopping	g Center				960 - Super Con	venien	ce Market/G	as Stat	ion	
Exit	86	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	281	
Entry	141	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	281	
932 - H	igh-Tur	nover (Sit-Down) F	Restai	urant		934 - Fast	-Food I	Restaurant v	with Dri gh Wind		
Exit	90	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	143	
Entry	109	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0% ((0)	Exit	138	
932 - H	igh-Tur	nover (Sit-Down) F	Restai	urant		960 - Super Con	venien	ce Market/G	as Stat	ion	
Exit	90	Demand Exit:	12 %	(11)	Balanced: 8	Demand Entry:	3 %	(8)	Entry	281	
Entry	109	Demand Entry:	3 %	(3)	Balanced: 3	Demand Exit:	2 %	(6)	Exit	281	
934 - F Windo		d Restaurant with	Drive	-Through		960 - Super Con	venien	ce Market/G	as Stat	ion	
Exit	138	Demand Exit:	12 %	(17)	Balanced: 8	Demand Entry:	3 %	(8)	Entry	281	
Entry	143	Demand Entry:	3 %	(4)	Balanced: 4	Demand Exit:	2 %	(6)	Exit	281	
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External Trips
6) 41 (100%)
1%) 122 (89%)
%) 163 (92%
•

820 - Shopping Center

Total 110 (100%)

86 (100%)

24 (100%)

1 (1%)

0 (0%)

1 (1%)

2 (2%)

3 (13%)

5 (5%)

Entry

Exit

		Internal Trip	ernal Trips										
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station		External Trips					
Entry	141 (100%)	1 (1%)	3 (2%)	4 (3%)	3 (2%)	0 (0%)	11 (8%)	130 (92%)					
Exit	86 (100%)	0 (0%)	2 (2%)	3 (3%)	3 (3%)	0 (0%)	8 (9%)	78 (91%)					
Total	227 (100%)	1 (0%)	5 (2%)	7 (3%)	6 (3%)	0 (0%)	19 (8%)	208 (92%)					

6 (7%)

7 (29%)

13 (12%)

2 (2%)

3 (13%)

5 (5%)

17 (20%)

20 (83%)

37 (34%)

69 (80%)

4 (17%)

73 (66%)

6 (7%)

7 (29%)

13 (12%)

932 - High-Turnover (Sit-Down) Restaurant

		Internal Trips										
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips				
Entry	109 (100%)	5 (5%)	7 (6%)	3 (3%)	0 (0%)	3 (3%)	18 (17%)	91 (83%)				
Exit	90 (100%)	0 (0%)	6 (7%)	4 (4%)	0 (0%)	8 (9%)	18 (20%)	72 (80%)				
Total	199 (100%)	5 (3%)	13 (7%)	7 (4%)	0 (0%)	11 (6%)	36 (18%)	163 (82%)				

934 - Fast-Food Restaurant with Drive-Through Window

Total Trips	Internal Trip	S				External
	220 - Multifamily	720 - Medical-	932 - High- Turnover	960 - Super Convenience	Total	Trips

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Print Pr	eview								Page 5 of 6
			(Low-Rise)	Dental Office Building	820 - Shopping Center	(Sit-Down) Restaurant	Market/Gas Station		
	Entry	143 (100%)	7 (5%)	7 (5%)	3 (2%)	0 (0%)	4 (3%)	21 (15%)	122 (85%)
	Exit	138 (100%)	0 (0%)	6 (4%)	3 (2%)	0 (0%)	8 (6%)	17 (12%)	121 (88%)
	Total	281 (100%)	7 (2%)	13 (5%)	6 (2%)	0 (0%)	12 (4%)	38 (14%)	243 (86%)

960 - Super Convenience Market/Gas Station

Internal Trips

	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	Total	External Trips
Entry	281 (100%)	1 (0%)	3 (1%)	0 (0%)	8 (3%)	8 (3%)	20 (7%)	261 (93%)
Exit	281 (100%)	0 (0%)	2 (1%)	0 (0%)	3 (1%)	4 (1%)	9 (3%)	272 (97%)
Total	562 (100%)	1 (0%)	5 (1%)	0 (0%)	11 (2%)	12 (2%)	29 (5%)	533 (95%)

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	163	0	0	163
720 - Medical-Dental Office Building	73	0	0	73
820 - Shopping Center	208	25	52	156
932 - High-Turnover (Sit-Down) Restaurant	163	40	65	98
934 - Fast-Food Restaurant with Drive-Through Window	243	O 50	122	121
960 - Super Convenience Market/Gas Station	533	O 50	267	266

ITE DEVIATION DETAILS

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

Landuse No deviations from ITE.

Methods No deviations from ITE.

External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

720 - Medical-Dental Office Building (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

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Print Preview Page 6 of 6

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

820 - Shopping Center (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

932 - High-Turnover (Sit-Down) Restaurant (General Urban/Suburban)

ITE does not recommend a particular pass-by% for this case.

934 - Fast-Food Restaurant with Drive-Through Window (General Urban/Suburban)

The chosen pass-by% (50) is not provided by ITE. ITE recommends 49.

960 - Super Convenience Market/Gas Station (General Urban/Suburban) The chosen pass-by% (50) is not provided by ITE. ITE recommends 63.

SUMMARY

Total Entering	801
Total Exiting	756
Total Entering Reduction	0
Total Exiting Reduction	0
Total Entering Internal Capture Reduction	87
Total Exiting Internal Capture Reduction	87
Total Entering Pass-by Reduction	259
Total Exiting Pass-by Reduction	247
Total Entering Non-Pass-by Trips	455
Total Exiting Non-Pass-by Trips	422

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Print Preview Page 1 of 6 PERIOD SETTING Analysis Name: PM Peak Hour Project Name: Baumgarten - Scenario 3 No: Date: 8/2/2018 City: State/Province: Zip/Postal Code: Country: Client Name: Edition: ITE-TGM 10th Edition Analyst's Name: Independent Land Use Size **Time Period** Method Entry Exit Total Variable 220 - Multifamily **Dwelling Units** 400 Weekday, Peak Best Fit (LOG) 128 75 203 Hour of Adjacent Ln(T) = 0.89Ln(X)63% 37% Housing (Low-Rise) Street Traffic, (General +-0.02 Urban/Suburban) One Hour Between 4 and 6 p.m. Weekday, Peak Best Fit (LIN) 720 - Medical-Dental 1000 Sq. Ft. GFA 45 43 112 155 Hour of Adjacent T = 3.39 (X)+2.02Office Building 28% 72% (General Street Traffic, Urban/Suburban) One Hour Between 4 and 6 p.m. 820 - Shopping Center 1000 Sq. Ft. GLA 150 Weekday, Peak Best Fit (LOG) 352 382 734 Hour of Adjacent Ln(T) = 0.74Ln(X)(General 48% 52% Urban/Suburban) Street Traffic, +2.89 One Hour Between 4 and 6 p.m. 1000 Sq. Ft. GFA 20(0) Weekday, Peak Average 932 - High-Turnover 121 74 195 (Sit-Down) Restaurant Hour of Adjacent 9.77 62% 38% Street Traffic, (General Urban/Suburban) One Hour Between 4 and 6 p.m. Weekday, Peak Average 934 - Fast-Food 1000 Sq. Ft. GFA 7 119 110 229 Hour of Adjacent 32.67 Restaurant with Drive-52% 48% Through Window Street Traffic, (General One Hour Urban/Suburban) Between 4 and 6 p.m. 960 - Super Vehicle Fueling 20 Weekday, Peak Average 230 229 459 Convenience **Positions** Hour of Adjacent 22.96 50% 50% Market/Gas Station Street Traffic, One Hour (General Urban/Suburban) Between 4 and 6 (0) indicates size out of range. TRAFFIC REDUCTIONS https://itetripgen.org/projectstudy/printpreview?guid=02012e2d7f9853c6e6882fe4674f11ed 08/02/2018

Land	Use				Entry Reduction	Adjusted Entry	Exit R	eduction	Adjusted	Exit
220 - Multifamily Housing (Low-Rise)				0 %	128	0 %		75		
720 - Medical-Dental Office Building			0 %	43	0 %		112			
	Shopping				0 %	352	0 %		382	
		nover (Sit-Down) Re			0 %	121	0 %		74	
934 - I Windo		d Restaurant with D	rive-T	hrough	0 %	119	0 %		110	
		onvenience Market/0	Gas S	tation	0 %	230	0 %		229	
					INTERNAL T	RIPS				
220 - 1	/lultifam	ily Housing (Low-F	Rise)			720 - 1	Medical	-Dental Of	ffice Buildi	ng
Exit	75	Demand Exit:	2 %	(2)	Balanced:	Demand Entry	y: 28 %	(12)	Entry	43
Entry	128	Demand Entry:	2 %	(3)	Balanced:	Demand Exit:	1 %	(1)	Exit	112
220 - P	/lultifam	ily Housing (Low-F	Rise)					820 - Sho	pping Cen	ter
Exit	75	Demand Exit:	11 %	(8)	Balanced:	Demand Entry	y: 2 %	(7)	Entry	352
Entry	128	Demand Entry:	11 %	(14)	Balanced: 14	Demand Exit:	6 %	(23)	Exit	382
220 - N	/lultifam	ily Housing (Low-F	Rise)			932 - High-Ti	ırnover	(Sit-Down	n) Restaura	ant
Exit	75	Demand Exit:	5 %	(4)	Balanced:	Demand Entry	y: 3 %	(4)	Entry	121
Entry	128	Demand Entry:	4 %	(5)	Balanced:	Demand Exit:	4 %	(3)	Exit	74
220 - N	/lultifam	ily Housing (Low-F	Rise)			934 - Fas	st-Food		nt with Driv ough Windo	
Exit	75	Demand Exit:	5 %	(4)	Balanced: 4	Demand Entry	3 %	(4)	Entry	119
Entry	128	Demand Entry:	4 %	(5)	Balanced: 4	Demand Exit:	4 %	(4)	Exit	110
220 - l	/lultifam	ily Housing (Low-F	Rise)			960 - Super Co	nvenie	nce Marke	t/Gas Stati	on
Exit	75	Demand Exit:	11 %	(8)	Balanced: 5	Demand Entry	y: 2 %	(5)	Entry	230
Entry	128	Demand Entry:	11 %	(14)	Balanced: 14	Demand Exit:	6 %	(14)	Exit	229
720 - N	/ledical-l	Dental Office Build	ling					820 - Sho	pping Cen	ter
Exit	112	Demand Exit:	10 %	(11)	Balanced:	Demand Entry	7: 4%	(14)	Entry	352
Entry	43	Demand Entry:	15 %	(6)	Balanced:	Demand Exit:	1 %	(4)	Exit	382

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720 B	Andical I	Dental Office Build	lina			932 - High-Tur	nouo	r (Sit Down)	Poetour	ant	
Exit	112	Demand Exit:		(2)	Balanced:	Demand Entry:			Entry		
Entry		Demand Entry:		2.2	1 Balanced:	Demand Exit:			Exit	74	
		,		(-/	1			()			
720 - N	ledical-l	Dental Office Build	ling			934 - Fast	-Food	l Restaurant Throu	with Dri gh Wind		
Exit	112	Demand Exit:	2 %	(2)	Balanced: 1	Demand Entry:	1 %	(1)	Entry	119	
Entry	43	Demand Entry:	15 %	(6)	Balanced: 1	Demand Exit:	1 %	(1)	Exit	110	
720 - N	/ledical-l	Dental Office Build	ling			960 - Super Con	venie	nce Market/0	Gas Stat	ion	
Exit	112	Demand Exit:	10 %	(11)	Balanced: 9	Demand Entry:	4 %	(9)	Entry	230	
Entry	43	Demand Entry:	15 %	(6)	Balanced: 2	Demand Exit:	1 %	(2)	Exit	229	
820 - 8	hopping	g Center				932 - High-Tur	nove	r (Sit-Down)	Restaur	ant	
Exit	382	Demand Exit:	7 %	(27)	Balanced: 8	Demand Entry:	7 %	(8)	Entry	121	
Entry	352	Demand Entry:	12 %	(42)	Balanced: 7	Demand Exit:	10 %	6 (7)	Exit	74	
820 - 5	Shopping	g Center				934 - Fast	-Food	d Restaurant Throu	with Dri gh Wind		
Exit	382	Demand Exit:	7 %	(27)	Balanced: 8	Demand Entry:	7 %	(8)	Entry	119	
Entry	352	Demand Entry:	12 %	(42)	Balanced: 11	Demand Exit:	10 %	(11)	Exit	110	
820 - \$	Shopping	g Center				960 - Super Con	venie	nce Market/0	Gas Stat	ion	
Exit	382	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	230	
Entry	352	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	229	
932 - H	ligh-Tur	nover (Sit-Down) I	Restau	rant		934 - Fast	-Food	d Restaurant	with Dri		
Exit	74	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %		Entry		
Entry	121	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	110	
932 - H	ligh-Tur	nover (Sit-Down) F	Restau	rant		960 - Super Con	venie	ence Market/C	Gas Stat	ion	
Exit	74	Demand Exit:	7 %	(5)	Balanced: 5	Demand Entry:	7 %	(16)	Entry	230	
Entry	121	Demand Entry:	10 %	(12)	Balanced: 12	Demand Exit:	12 %	6 (27)	Exit	229	
934 - F Windo		d Restaurant with	Drive-	Through		960 - Super Con	venie	ence Market/0	Gas Stat	ion	
Exit	110	Demand Exit:	7 %	(8)		Demand Entry:	7 %	(16)	Entry	230	

Entry	119 De	emand Entry: (0 % (0)	Balanced 0	d: Deman	d Exit: 12 % (27)	Exit 229
220 - N	ultifamily Ho	using (Low-Ri	ise)					
		Internal Trip	s					
	Total Trips	720 - Medical- Dental Office Building	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	128 (100%)	1 (1%)	14 (11%)	3 (2%)	4 (3%)	14 (11%)	36 (28%)	92 (72%)
Exit	75 (100%)	2 (3%)	7 (9%)	4 (5%)	4 (5%)	5 (7%)	22 (29%)	53 (71%)
Total	203 (100%)	3 (1%)	21 (10%)	7 (3%)	8 (4%)	19 (9%)	58 (29%)	145 (71%)
720 - N	ledical-Denta	l Office Buildi	na					
		Internal Trip	-					
	Total Trips	220 - Multifamily Housing (Low-Rise)	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	43 (100%)	2 (5%)	4 (9%)	1 (2%)	1 (2%)	2 (5%)	10 (23%)	33 (77%)
Exit	112 (100%)	1 (1%)	11 (10%)	1 (1%)	1 (1%)	9 (8%)	23 (21%)	89 (79%)
Total	155 (100%)	3 (2%)	15 (10%)	2 (1%)	2 (1%)	11 (7%)	33 (21%)	122 (79%)
820 - S	Shopping Cen	ter						
		Internal Trip	s					
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	352 (100%)	7 (2%)	11 (3%)	7 (2%)	11 (3%)	0 (0%)	36 (10%)	316 (90%)
Exit	382 (100%)	14 (4%)	4 (1%)	8 (2%)	8 (2%)	0 (0%)	34 (9%)	348 (91%)
Total	734 (100%)	21 (3%)	15 (2%)	15 (2%)	19 (3%)	0 (0%)	70 (10%)	664 (90%)
932 - F	ligh-Turnover	(Sit-Down) R	estaurant					
		Internal Trip	s					
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	934 - Fast- Food Restaurant with Drive- Through Window	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	121 (100%)	4 (3%)	1 (1%)	8 (7%)	0 (0%)	12 (10%)	25 (21%)	96 (79%)
Exit	74 (100%)	3 (4%)	1 (1%)	7 (9%)	0 (0%)	5 (7%)	16 (22%)	58 (78%)
Total	195 (100%)	7 (4%)	2 (1%)	15 (8%)	0 (0%)	17 (9%)	41 (21%)	154 (79%)

Print Preview Page 5 of 6

934 - Fast-Food Restaurant with Drive-Through Window

Internal Trips

	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	960 - Super Convenience Market/Gas Station	Total	External Trips
Entry	119 (100%)	4 (3%)	1 (1%)	8 (7%)	0 (0%)	0 (0%)	13 (11%)	106 (89%)
Exit	110 (100%)	4 (4%)	1 (1%)	11 (10%)	0 (0%)	8 (7%)	24 (22%)	86 (78%)
Total	229 (100%)	8 (3%)	2 (1%)	19 (8%)	0 (0%)	8 (3%)	37 (16%)	192 (84%)

960 - Super Convenience Market/Gas Station

Internal Trips

		meerinar riip	7					
	Total Trips	220 - Multifamily Housing (Low-Rise)	720 - Medical- Dental Office Building	820 - Shopping Center	932 - High- Turnover (Sit-Down) Restaurant	934 - Fast- Food Restaurant with Drive- Through Window	Total	External Trips
Entry	230 (100%)	5 (2%)	9 (4%)	0 (0%)	5 (2%)	8 (3%)	27 (12%)	203 (88%)
Exit	229 (100%)	14 (6%)	2 (1%)	0 (0%)	12 (5%)	0 (0%)	28 (12%)	201 (88%)
Total	459 (100%)	19 (4%)	11 (2%)	0 (0%)	17 (4%)	8 (2%)	55 (12%)	404 (88%)

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
220 - Multifamily Housing (Low-Rise)	145	0	0	145
720 - Medical-Dental Office Building	122	0	0	122
820 - Shopping Center	664	Q 25	166	498
932 - High-Turnover (Sit-Down) Restaurant	154	Q 40	62	92
934 - Fast-Food Restaurant with Drive-Through Window	192	⊘ 50	96	96
960 - Super Convenience Market/Gas Station	404	O 50	202	202

ITE DEVIATION DETAILS

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

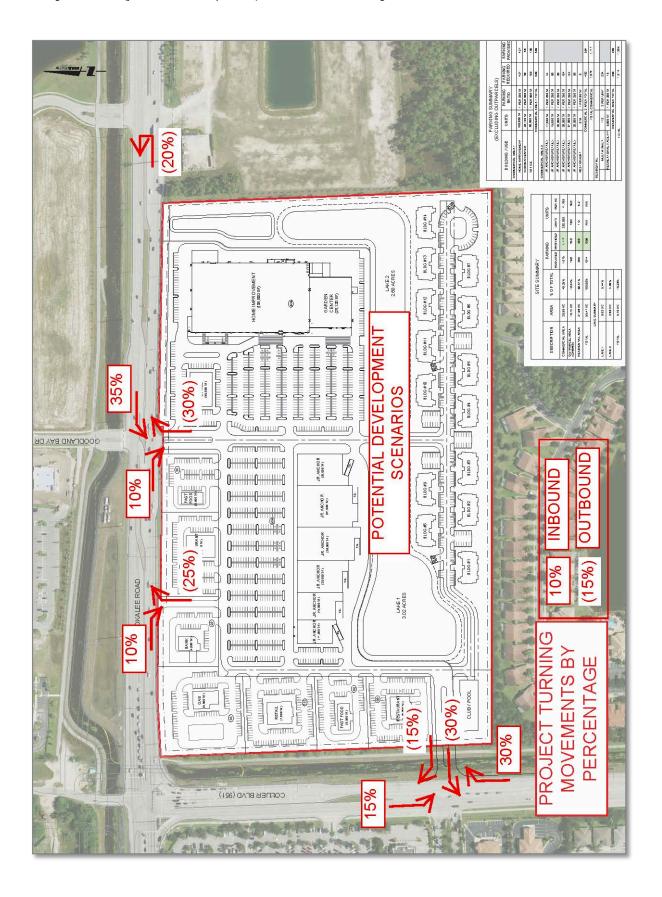
Landuse No deviations from ITE.

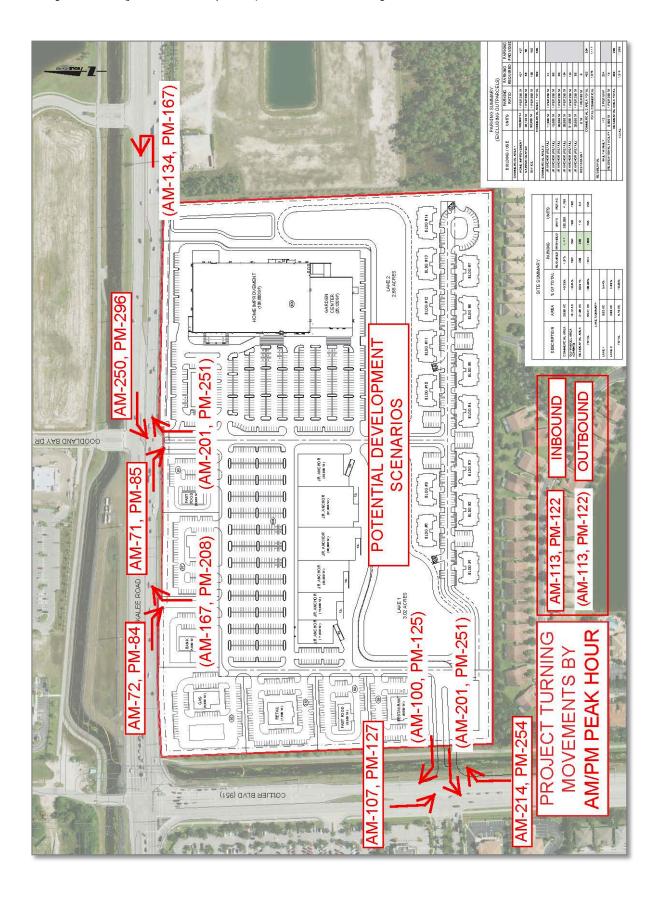
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Print Preview Page 6 of 6 Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m. No deviations from ITE. Methods External Trips 220 - Multifamily Housing (Low-Rise) (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. 720 - Medical-Dental Office Building (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case. 820 - Shopping Center (General Urban/Suburban) The chosen pass-by% (25) is not provided by ITE. ITE recommends 34. 932 - High-Turnover (Sit-Down) Restaurant (General Urban/Suburban) The chosen pass-by% (40) is not provided by ITE. ITE recommends 43. 960 - Super Convenience Market/Gas Station (General Urban/Suburban) The chosen pass-by% (50) is not provided by ITE. ITE recommends 66. SUMMARY **Total Entering** 993 **Total Exiting** 982 **Total Entering Reduction** 0 **Total Exiting Reduction** 0 **Total Entering Internal Capture Reduction** 147 **Total Exiting Internal Capture Reduction** 147 **Total Entering Pass-by Reduction** 272 **Total Exiting Pass-by Reduction** 254 **Total Entering Non-Pass-by Trips** 574 **Total Exiting Non-Pass-by Trips** 581

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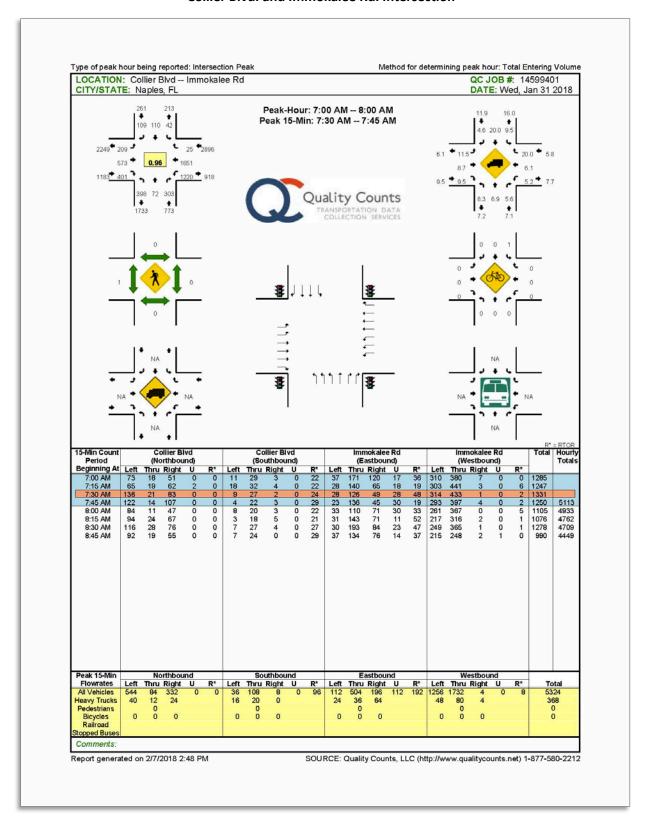
Appendix D: Turning Movement Exhibits

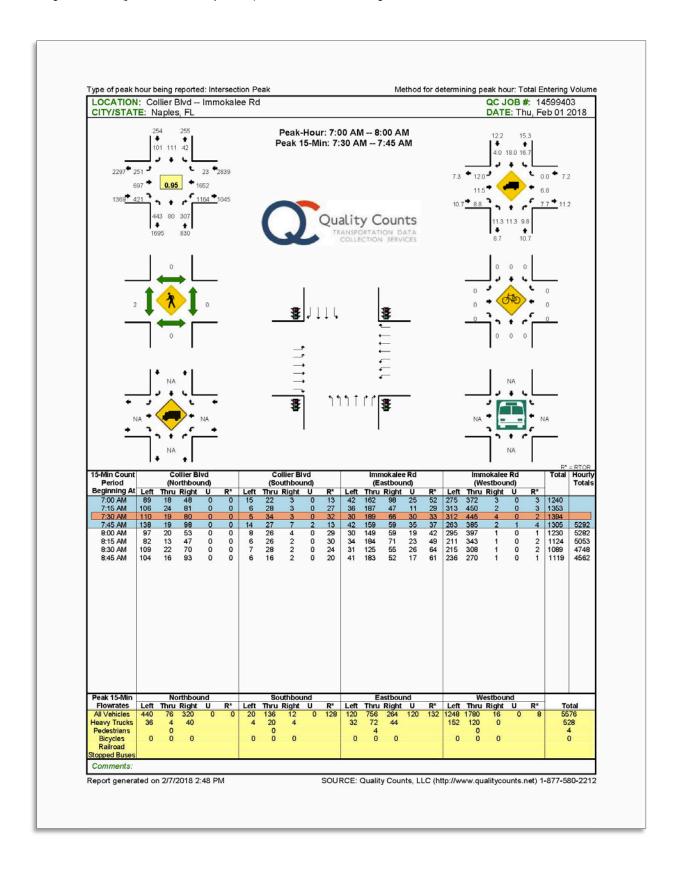


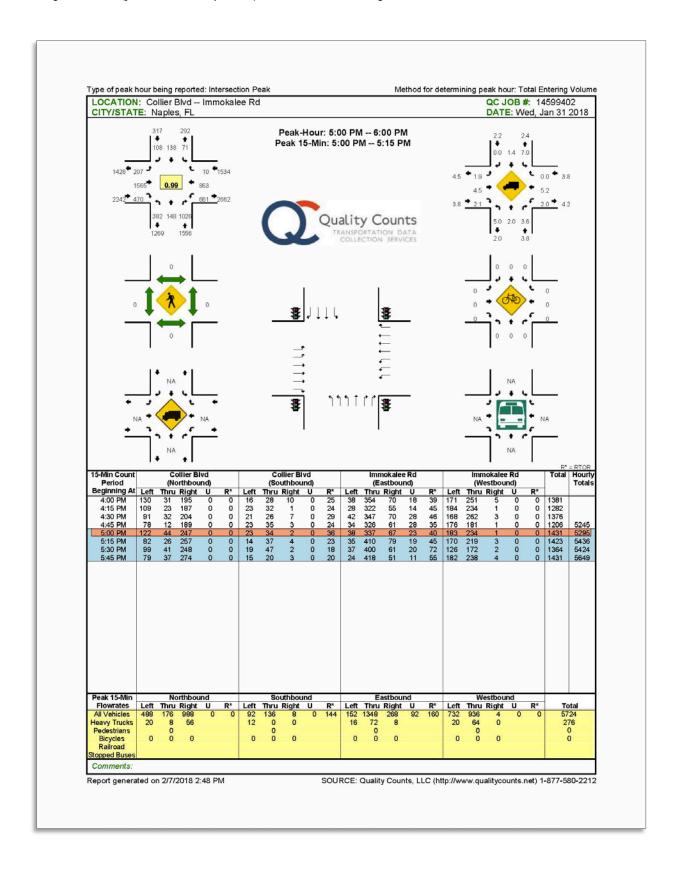


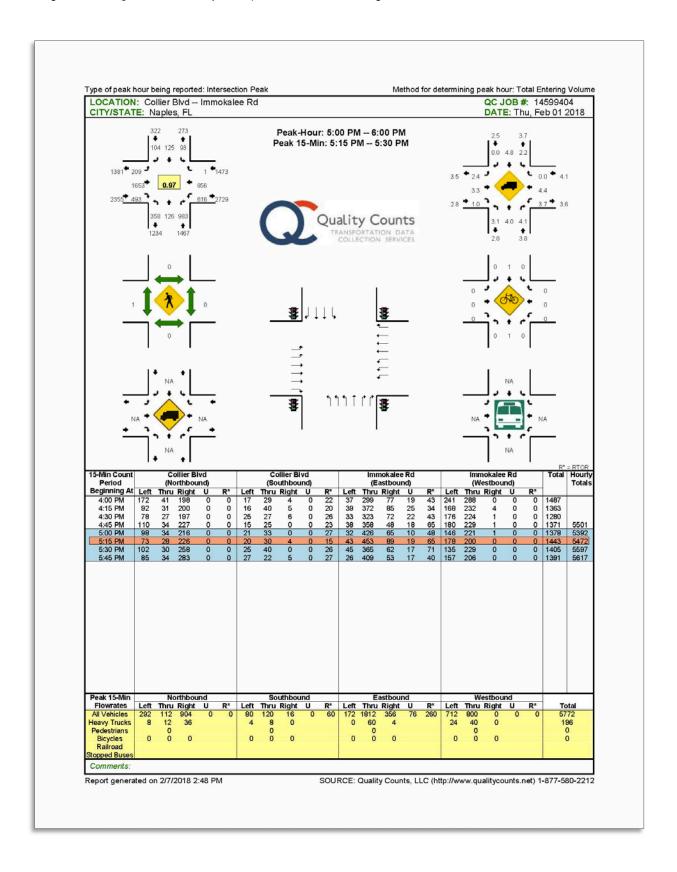
Appendix E: Raw Intersections Turning Movement Counts

Collier Blvd. and Immokalee Rd. Intersection

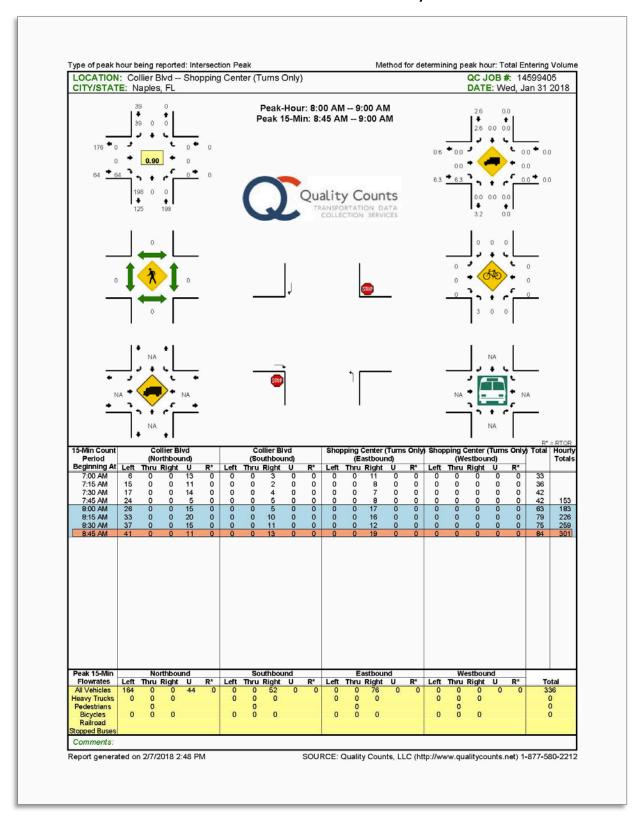


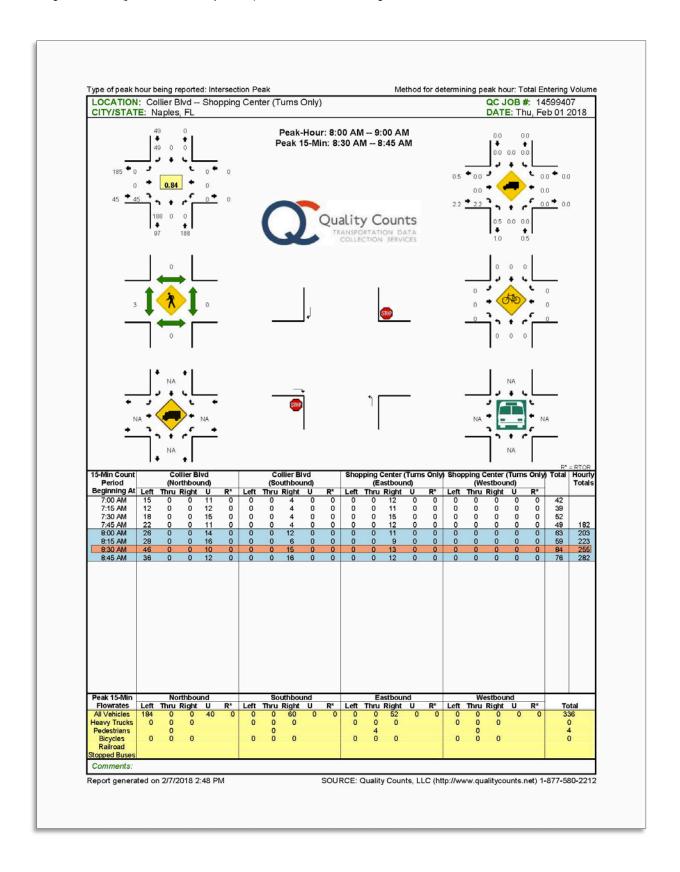


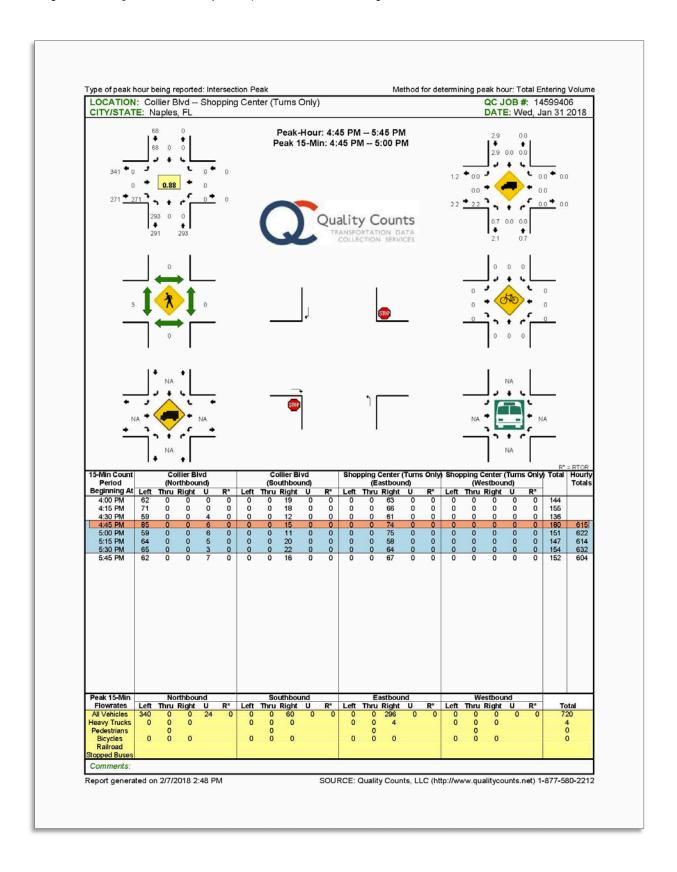


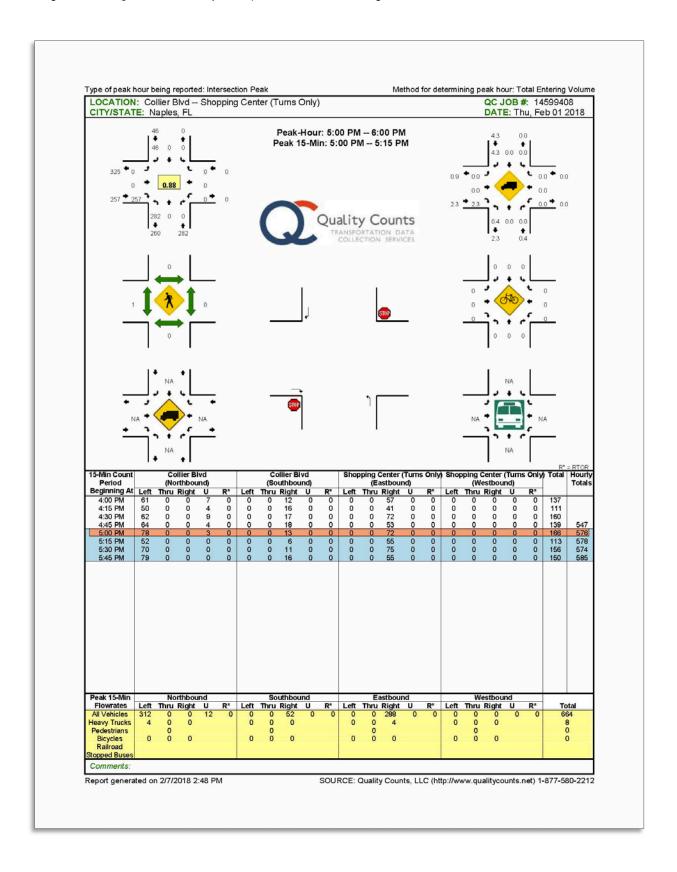


Collier Blvd. and Pebblebrooke Center Driveway Intersection

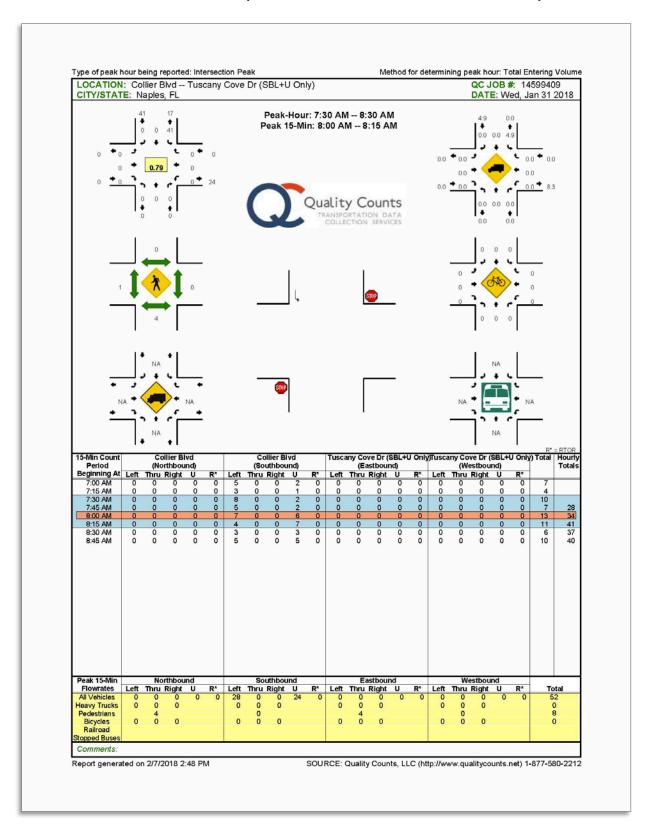


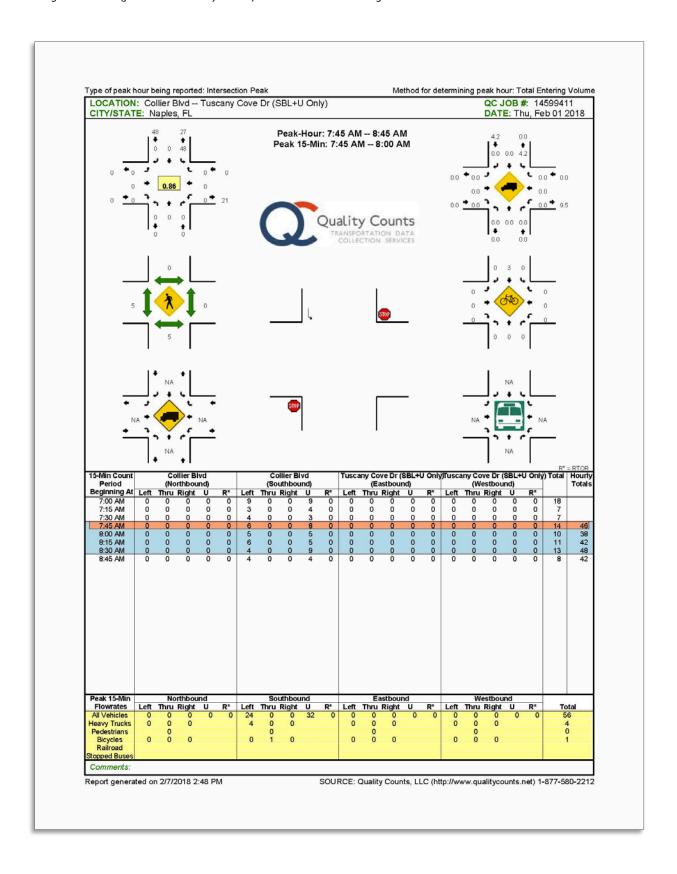


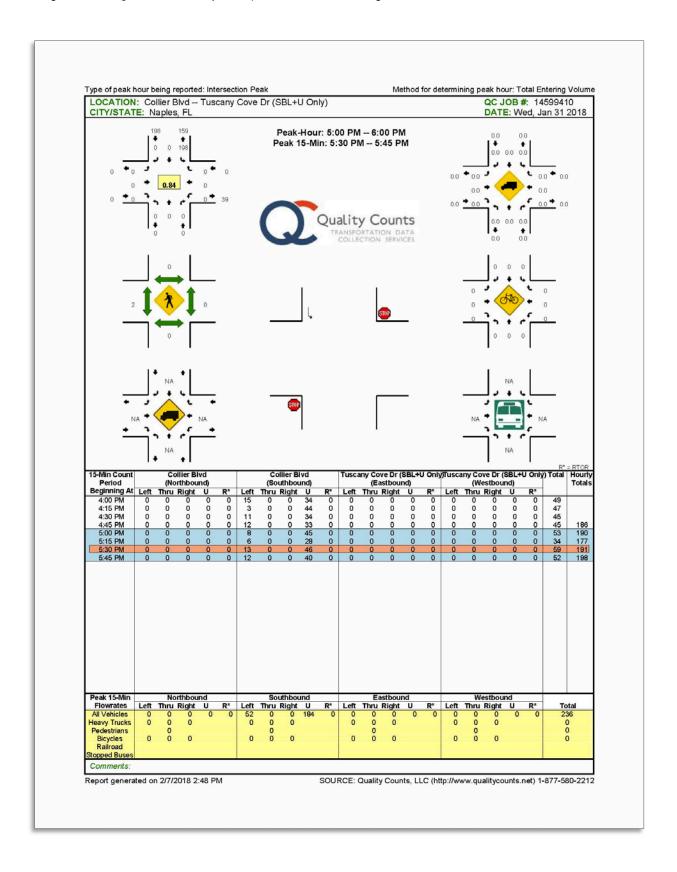


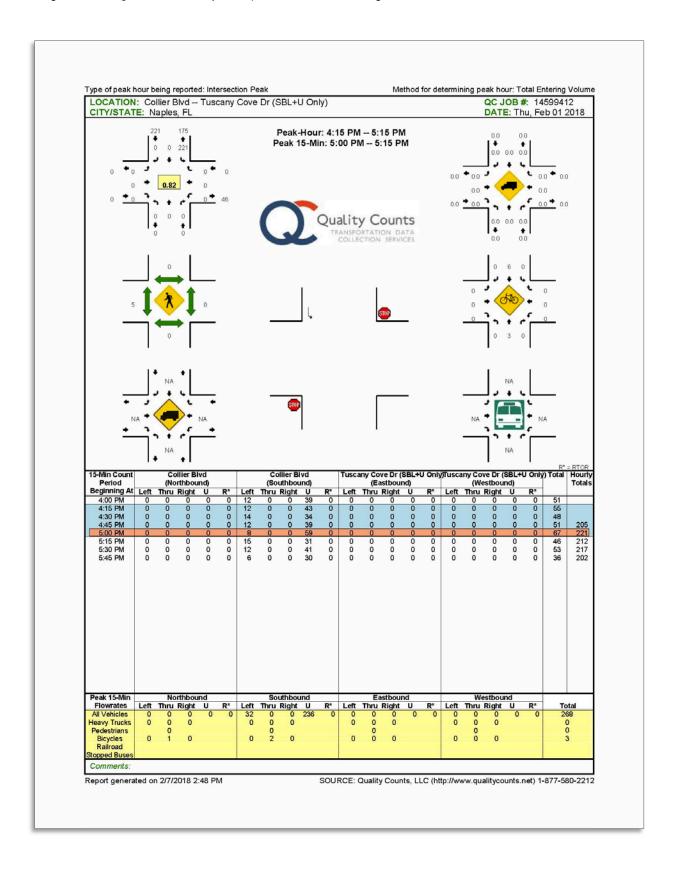


Collier Blvd. and Tuscany Cove Dr. Intersection – SB Left and U turns only







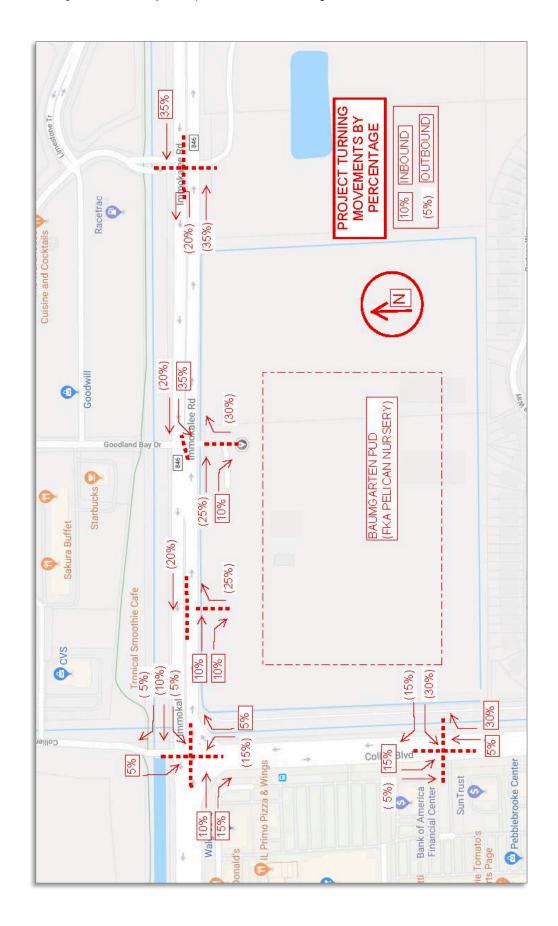


Baumaarten MPUD (fka Pelican Nurserv MPU	D) – PUD Rezone –	- TIS - Au	iaust 201	18
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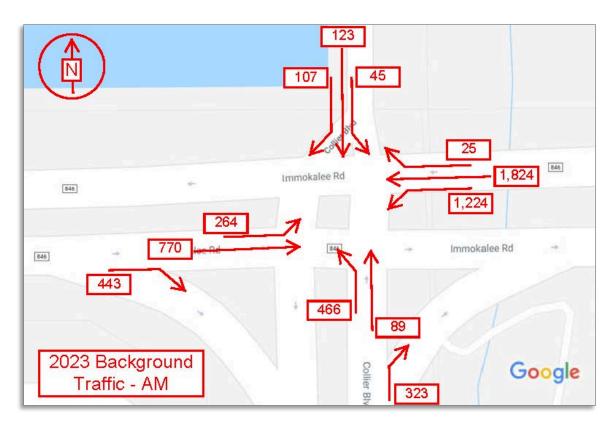
Appendix F: FDOT 2016 Peak Season Factor Category Report - Excerpt

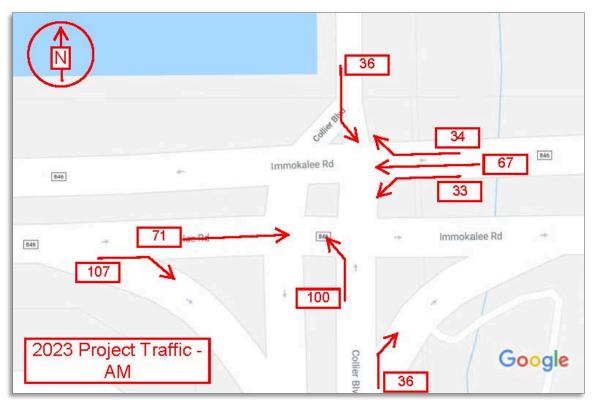
1 0 2 0 * 3 0 * 4 0 * 5 0	01/01/2016 - 01/02/2016 01/03/2016 - 01/09/2016 01/10/2016 - 01/16/2016		PSCF	
2 0 * 3 0 * 4 0 * 5 0	1/03/2016 - 01/09/2016			
* 3 0 * 4 0 * 5 0		0.98	1.13	
* 4 0 * 5 0		0.95	1.09	
* 5 0		0.91	1.05	
	01/17/2016 - 01/23/2016	0.89	1.02	
* 6	01/24/2016 - 01/30/2016	0.88	1.01	
	01/31/2016 - 02/06/2016	0.87	1.00	
	02/07/2016 - 02/13/2016	0.85	0.98	
	02/14/2016 - 02/20/2016	0.84	0.97	
	02/21/2016 - 02/27/2016	0.84	0.97	
	02/28/2016 - 03/05/2016	0.84	0.97	
	03/06/2016 - 03/12/2016	0.84	0.97	
	03/13/2016 - 03/19/2016	0.84	0.97	
	03/20/2016 - 03/26/2016 03/27/2016 - 04/02/2016	0.86	0.99 1.02	
		0.89	1.05	
	04/03/2016 - 04/09/2016	0.91		
	04/10/2016 - 04/16/2016 04/17/2016 - 04/23/2016	0.94	1.08	
	04/24/2016 - 04/23/2016	0.98	1.10	
	05/01/2016 - 04/30/2016	1.00	1.15	
	05/08/2016 - 05/14/2016	1.02	1.17	
	05/15/2016 - 05/21/2016	1.02	1.21	
	05/22/2016 - 05/28/2016	1.07	1.23	
	05/22/2016 - 05/28/2016	1.10	1.26	
	06/05/2016 - 06/04/2016	1.13	1.30	
	06/12/2016 - 06/11/2016	1.13	1.33	
	06/19/2016 - 06/25/2016	1.15	1.32	
	06/26/2016 - 07/02/2016	1.15	1.32	
	7/03/2016 - 07/09/2016	1.15	1.32	
	7/10/2016 - 07/16/2016	1.14	1.31	
	7/17/2016 - 07/23/2016	1.15	1.32	
	7/24/2016 - 07/30/2016	1.15	1.32	
	7/31/2016 - 08/06/2016	1.15	1.32	
	8/07/2016 - 08/13/2016	1.16	1.33	
	8/14/2016 - 08/20/2016	1.16	1.33	
	8/21/2016 - 08/27/2016	1.16	1.33	
	8/28/2016 - 09/03/2016	1.17	1.34	
	9/04/2016 - 09/10/2016	1.17	1.34	
	9/11/2016 - 09/17/2016	1.18	1.36	
	9/18/2016 - 09/24/2016	1.15	1.32	
	9/25/2016 - 10/01/2016	1.13	1.30	
	.0/02/2016 - 10/08/2016	1.10	1.26	
	.0/09/2016 - 10/15/2016	1.08	1.24	
43 1	.0/16/2016 - 10/22/2016	1.05	1.21	
44 1	.0/23/2016 - 10/29/2016	1.03	1.18	
	.0/30/2016 - 11/05/2016	1.01	1.16	
	1/06/2016 - 11/12/2016	0.99	1.14	
	1/13/2016 - 11/19/2016	0.97	1.11	
	1/20/2016 - 11/26/2016	0.97	1.11	
	1/27/2016 - 12/03/2016	0.98	1.13	
	2/04/2016 - 12/10/2016	0.98	1.13	
	2/11/2016 - 12/17/2016	0.98	1.13	
	2/18/2016 - 12/24/2016	0.95	1.09	
53 1	.2/25/2016 - 12/31/2016	0.91	1.05	
* PEAK S	EASON			
21-FEB-2	2017 10:54:33		830UPD	1_0300_PKSEASON.TXT
* PEAK S	EEASON	0.91		1_0300_PKSEASON.TXT

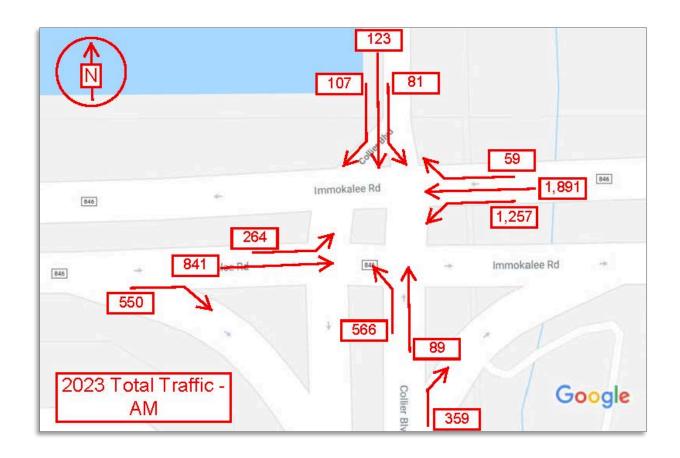
Appendix G: Intersections Projected Traffic at Buildout Conditions



Collier Blvd. and Immokalee Rd. Intersection





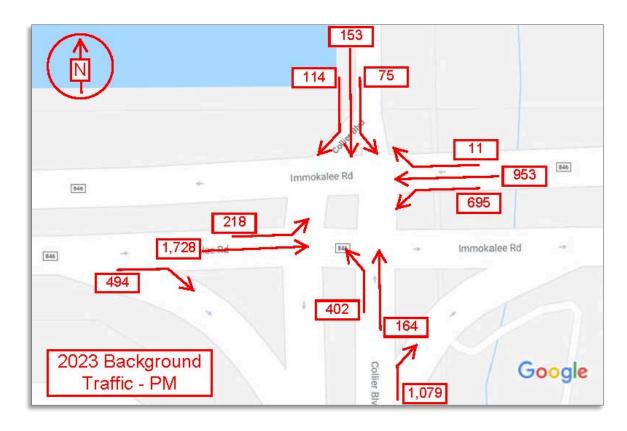


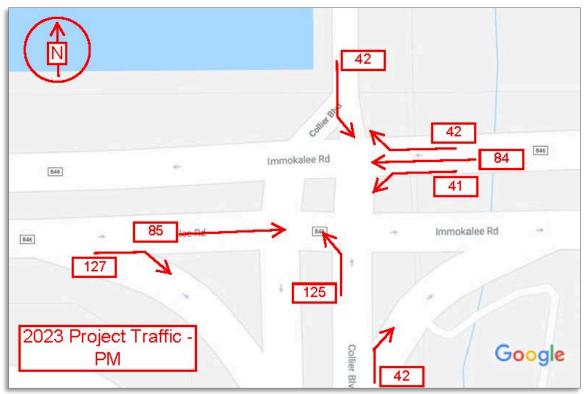
PROJECT - INTERSECTION TURNING MOVEMENT COUNTS - WITH FULL OPENING (SIGNAL) AT PEBBLEBROOKE AND CR 951

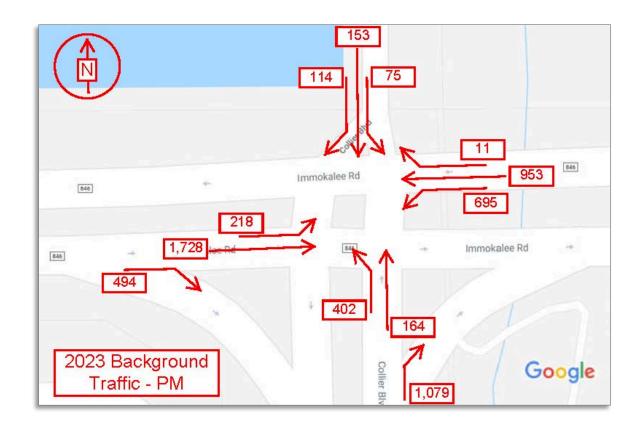
INTERSECTION - COLLIER BLVD AND IMMOKALEE RD

COUNT DATA - DATE - 02-01-2018 COUNT DATA - TIME - 7.00 AM - 9.00 AM PEAK HOUR - 7.00 AM - 8.00 AM

				1	AM PEA	CHOUR FU	TURE TR	AFFIC								
			IMN	OKALEE	BOULEV	'ARD					C	OLLIER BO	DULEVA	RD		
		WESTB	DUND			EASTBO	DUND			SOUTHE	OUND			NORTHB	OUND	
	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL
TMCs	1,164	1,652	23	2,839	251	697	421	1,369	42	111	101	254	443	80	307	830
PSCF	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
2018 BACKGROUND VOLUME	1,164	1,652	23	2,839	251	697	421	1,369	42	111	101	254	443	80	307	830
GROWTH RATE	1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%	
YEARS TO BUILD-OUT	5	5	5		5	5	5		5	5	5		5	5	5	
2023 BACKGROUND	1,224	1,824	25	3,073	264	770	443	1,477	45	123	107	275	466	89	323	878
PROJECT TURNING VOLUMES	33	67	34	134	0	71	107	178	36	0	0	36	100	0	36	136
2023 BACKGROUND + PROJECT	1,257	1,891	59	3,207	264	841	550	1,655	81	123	107	311	566	89	359	1,014







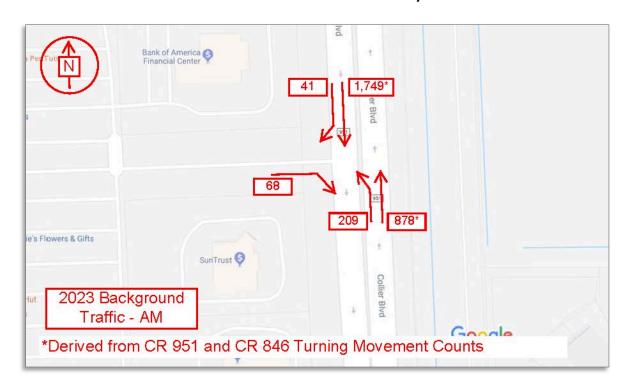
 $\textbf{PROJECT-INTERSECTION TURNING MOVEMENT COUNTS-WITH FULL OPENING (SIGNAL) AT PEBBLEBROOKE AND CR 951 \\$

INTERSECTION - COLLIER BLVD AND IMMOKALEE RD

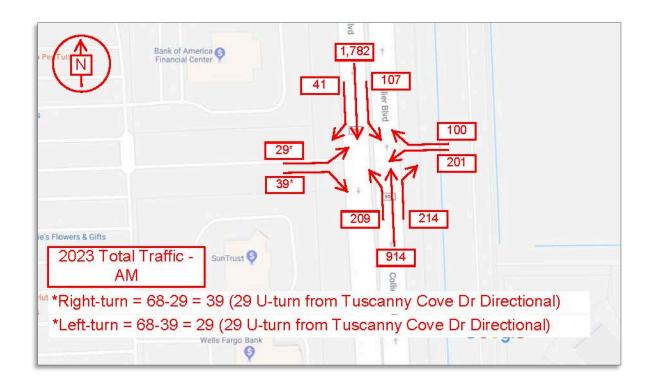
COUNT DATA - DATE - 01-31-2018 COUNT DATA - TIME - 4.00 PM - 6.00 PM PEAK HOUR - 5.00 PM - 6.00 PM

)	PM PEAR	K HOUR FU	TURE TR	AFFIC								
			IMN	OKALEE	BOULEV	'ARD					C	OLLIER B	OULEVA	RD		
		WESTBO	OUND			EASTBO	DUND			SOUTHE	BOUND			NORTHE	OUND	
	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL
TMCs	661	863	10	1,534	207	1,565	470	2,242	71	138	108	317	382	148	1,026	1,556
PSCF	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
2018 BACKGROUND VOLUME	661	863	10	1,534	207	1,565	470	2,242	71	138	108	317	382	148	1,026	1,556
GROWTH RATE	1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%	
YEARS TO BUILD-OUT	5	5	5		5	5	5		5	5	5		5	5	5	
2023 BACKGROUND	695	953	11	1,659	218	1,728	494	2,440	75	153	114	342	402	164	1,079	1,645
PROJECT TURNING VOLUMES	41	84	42	167	0	85	127	212	42	0	0	42	125	0	42	167
2023 BACKGROUND + PROJECT	736	1,037	53	1,826	218	1,813	621	2,652	117	153	114	384	527	164	1,121	1,812

Collier Blvd. and Pebblebrooke Center Driveway Intersection







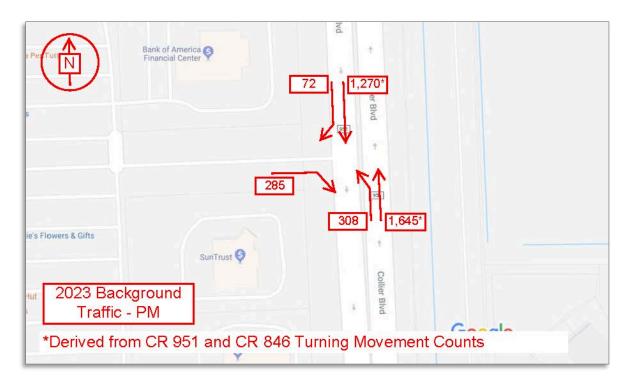
PROJECT - INTERSECTION TURNING MOVEMENT COUNTS - WITH PROJECT INTERSECTION - COLLIER BOULEVARD AND SHOPPES OF PEBBLEBROOKE COUNT DATA - DATE - 01-31-2018

COUNT DATA - DATE - 01-31-2018

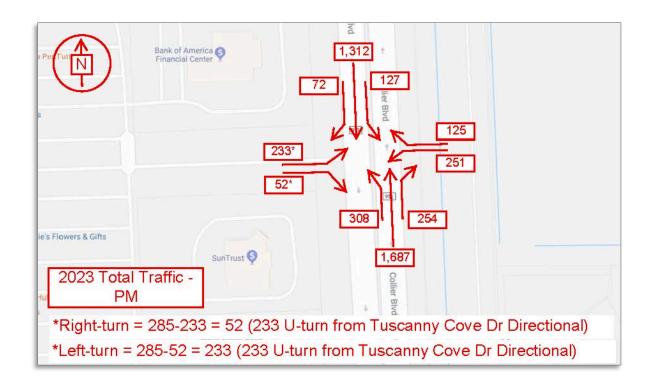
COUNT DATA - TIME - 7.00 AM - 9.00 AM

PEAK HOUR - 8.00 AM - 9.00 AM

				7	AM PEAI	CHOUR FU	TURE TR	AFFIC								
	PEL	ICAN NUR	SEY PROJ	ECT	SHO	PPES OF PE	BBLEBRO	OOKE			C	OLLIER BO	DULEVA	RD		
		WESTB	DUND			EASTBO	DUND			SOUTHB	OUND			NORTHB	OUND	
	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL
TMCs	0	0	0	0	0	0	64	64	0	0	39	39	198	0	0	198
PSCF	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
2018 PEAK SEASON VOLUME	0	0	0	0	0	0	64	64	0	0	39	39	198	0	0	198
GROWTH RATE	1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%	
YEARS TO BUILD-OUT	5	5	5		5	5	5		5	5	5		5	5	5	
2023 BACKGROUND	0	0	0	0	0	0	68	68	0	0	41	41	209	0	0	209
PROJECT TURNING VOLUMES	201	0	100	301	0	0	0	0	107	33	0	140	0	36	214	250
2023 BACKGROUND + PROJECT	201	0	100	301	0	0	68	68	107	33	41	181	209	36	214	459







PROJECT - INTERSECTION TURNING MOVEMENT COUNTS - WITH PROJECT INTERSECTION - COLLIER BOULEVARD AND SHOPPES OF PEBBLEBROOKE

COUNT DATA - DATE - 01-31-2018 COUNT DATA - TIME - 4.00 PM - 6.00 PM PEAK HOUR - 4.45 PM - 5.45 PM

					PM PEA	(HOUR FU	TURE TR	AFFIC								
	PEL	ICAN NURS	EY PROJ	ECT	SHO	PPES OF PE	BBLEBRO	OOKE			C	OLLIER B	OULEVAI	RD		
		WESTBO	DUND			EASTBO	DUND			SOUTHE	OUND			NORTHE	OUND	
	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL
TMCs	0	0	0	0	0	0	271	271	0	0	68	68	293	0	0	293
PSCF	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00	
2018 PEAK SEASON VOLUME	0	0	0	0	0	0	271	271	0	0	68	68	293	0	0	293
GROWTH RATE	1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%		1.0%	2.0%	1.0%	
YEARS TO BUILD-OUT	5	5	5		5	5	5		5	5	5		5	5	5	
2023 BACKGROUND	0	0	0	0	0	0	285	285	0	0	72	72	308	0	0	308
PROJECT TURNING VOLUMES	251	0	125	376	0	0	0	0	127	42	0	169	0	42	254	296
2023 BACKGROUND + PROJECT	251	0	125	376	0	0	285	285	127	42	72	241	308	42	254	604

Collier Blvd. and Tuscany Cove Dr. Intersection – SB Left and U turns only





PROJECT - INTERSECTION TURNING MOVEMENT COUNTS - SB LT AND UT MOVEMENTS

INTERSECTION - COLLIER BOULEVARD AND TUSCANY COVE DRIVE

COUNT DATA - DATE - 02-01-2018 COUNT DATA - TIME - 7.00 AM - 9.00 AM PEAK HOUR - 7.45 AM - 8.45 AM

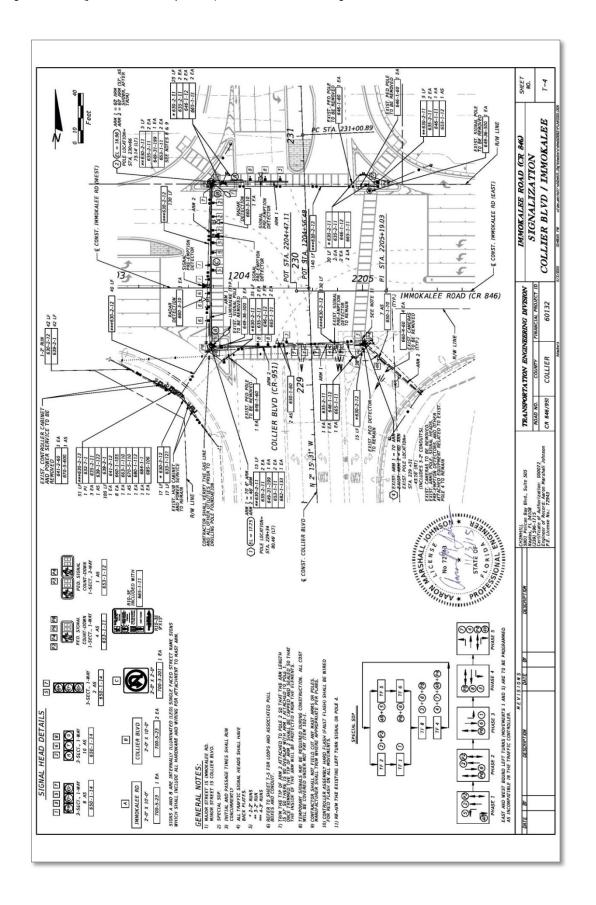
	AM	РЕАК НО	UR FUTUR	E TRAFF	IC				
				COLLI	R BOULI	EVARD			
		SC	OUTHBOUN	I D			NORTHB	OUND	
	LEFT	U- TURN	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL
TMCs	21	27	0	0	48	О	0	0	0
PSCF	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
2018 PEAK SEASON VOLUME	21	27	0	0	48	0	0	0	0
GROWTH RATE	1.0%	1.0%	2.0%	1.0%		1.0%	2.0%	1.0%	
YEARS TO BUILD-OUT	5	5	5	5		5	5	5	
2023 BACKGROUND	23	29	0	0	52	0	0	0	0
PROJECT TURNING VOLUMES	0	0	0	0	0	0	0	0	0
2023 BACKGROUND + PROJECT	23	29	0	0	52	0	0	0	0

PROJECT - INTERSECTION TURNING MOVEMENT COUNTS - SB LT AND UT MOVEMENTS INTERSECTION - COLLIER BOULEVARD AND TUSCANY COVE DRIVE COUNT DATA - DATE - 02-01-2018 COUNT DATA - TIME - 4.00 PM - 6.00 PM PEAK HOUR - 4.15 PM - 5.15 PM

	PM I	РЕАК НО	UR FUTUR	E TRAFF	ıc				
				COLLIE	R BOUL	EVARD			
		SC	OUTHBOUN	1D			NORTHB	OUND	
	LEFT	U- TURN	THRU	RIGHT	TOTAL	LEFT	THRU	RIGHT	TOTAL
TMCs	46	175	0	0	221	0	0	0	0
PSCF	1.00	1.00	1.00	1.00		1.00	1.00	1.00	
2018 PEAK SEASON VOLUME	46	175	0	0	221	0	0	0	0
GROWTH RATE	1.0%	1.0%	2.0%	1.0%		1.0%	2.0%	1.0%	
YEARS TO BUILD-OUT	5	5	5	5		5	5	5	
2023 BACKGROUND	49	184	0	0	233	О	0	0	0
PROJECT TURNING VOLUMES	0	0	0	0	0	0	0	0	0
2023 BACKGROUND + PROJECT	49	184	0	0	233	0	0	0	0

		- "			
Baumaarten	MPUD (†ka	Pelican Nurser	v MPUD) – PUD Re	ezone – TIS – Augusi	t 2018

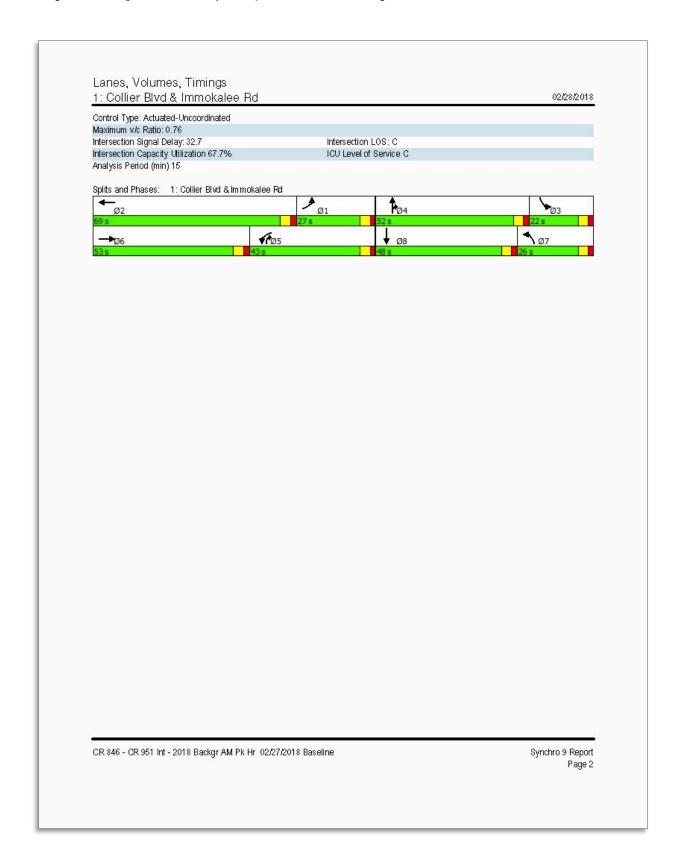
Appendix H: Collier Blvd. & Immokalee Rd. Intersection
- Approved Signalization Plan



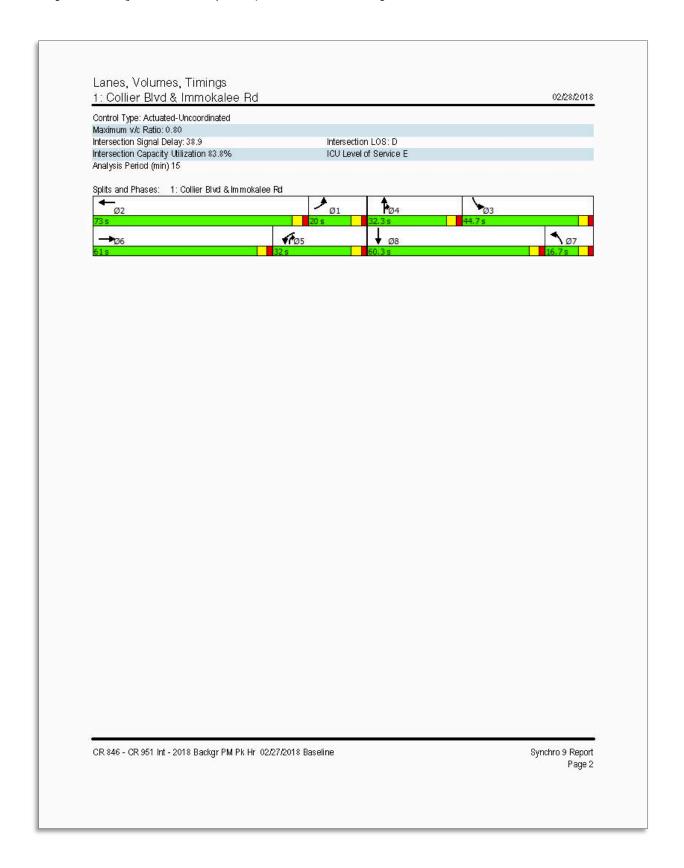
Baumgarten MPUD (fka Pelican Nursery MPUD) – PUD Rezone – TIS – August 2018
Appendix I: Intersection Analyses – Synchro Studio 9

Collier Blvd. and Immokalee Rd. Intersection – Year 2018 Background Conditions

	•	-	7	1	+	•	4	†	-	\	Į.	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	ሻሻ	^ ^^	7	ሻሻሻ	^ ^	7	ሻሻሻ	†	77	7	^	7
Traffic Volume (vph)	251	697	421	1164	1652	23	443	80	307	42	111	101
Future Volume (vph)	251	697	421	1164	1652	23	443	80	307	42	111	101
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	550		400	760		580	540		515	330		330
Storage Lanes	2		1	3		1	2		1	1		
Taper Length (ft)	100			140			100		10.00	50		
Lane Util. Factor	0.97	0.91	1.00	0.94	0.91	1.00	0.94	1.00	0.88	1.00	0.95	1.00
Frt	0.050		0.850	0.050		0.850	0.050		0.850	0.050		0.850
Fit Protected	0.950	EOOE	1500	0.950	EAGE	1500	0.950	1062	0707	0.950	2520	1500
Satd. Flow (prot) Fit Permitted	3433 0.950	5085	1583	4990 0.950	5085	1583	4990 0.950	1863	2787	1770 0.950	3539	1583
Satd. Flow (perm)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	1583
Right Turn on Red	0400	0000	No	4000	0000	No	4000	1000	Yes	11110	0000	No
Satd. Flow (RTOR)			140			110			319			140
Link Speed (mph)		45			45			45	3.0		45	
Link Distance (ft)		3220			3645			1891			2183	
Travel Time (s)		48.8			55.2			28.7			33.1	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.96
Shared Lane Traffic (%)												
Lane Group Flow (vph)	264	734	443	1225	1739	24	466	84	323	44	117	106
Tum Type	Prot	NA	Free	Prot	NA	Free	Prot	NA	pt+ov	Prot	NA	Free
Protected Phases	1	6		5	2		7	4	4.5	3	8	
Permitted Phases		100000	Free			Free						Free
Total Split (s)	27.0	53.0		43.0	69.0		26.0	52.0		22.0	48.0	
Total Lost Time (s)	5.4	5.4	NAME OF THE OWNER.	5.4	5.4	77777	5.4	5.4		5.4	5.4	Value No.
Act Effct Green (s)	16.6	24.8	119.1	45.5	53.7	119.1	17.1	15.8	66.8	13.8	9.7	119.1
Actuated g/C Ratio	0.14	0.21	1.00	0.38	0.45	1.00	0.14	0.13	0.56	0.12	0.08	1.00
Wc Ratio	0.55 54.9	0.69 48.3	0.28	0.64 32.6	0.76 29.9	0.02	0.65 54.1	0.34 57.2	0.19	0.22 53.5	0.40 59.0	0.07
Control Delay	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Delay Total Delay	54.9	48.3	0.4	32.6	29.9	0.0	54.1	57.2	1.9	53.5	59.0	0.1
LOS	D D	40.0 D	Α.	C	23.3 C	Α.	D D	E	A	D	E	,
Approach Delay		34.8			30.7			35.1			34.7	Í
Approach LOS		С			C			D			С	
Queue Length 50th (ft)	100	193	0	270	390	0	121	62	1	31	45	(
Queue Length 95th (ft)	162	269	0	367	518	0	180	126	25	76	86	(
Internal Link Dist (ft)		3140			3565			1811			2103	
Tum Bay Length (ft)	550		400	760		580	540		515	330		330
Base Capacity (vph)	632	2063	1583	1905	2757	1583	876	740	2355	251	1285	1583
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	(
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	(
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	(
Reduced v/c Ratio	0.42	0.36	0.28	0.64	0.63	0.02	0.53	0.11	0.14	0.18	0.09	0.07
Intersection Summary												
Area Type:	Other											
Cycle Length: 170												
Actuated Cycle Length: 119	.1											
CR 846 - CR 951 Int - 2018	Backgr AM	IPk Hr 0	2/27/201	Baseline	ı					,	Synchro 9	Repor

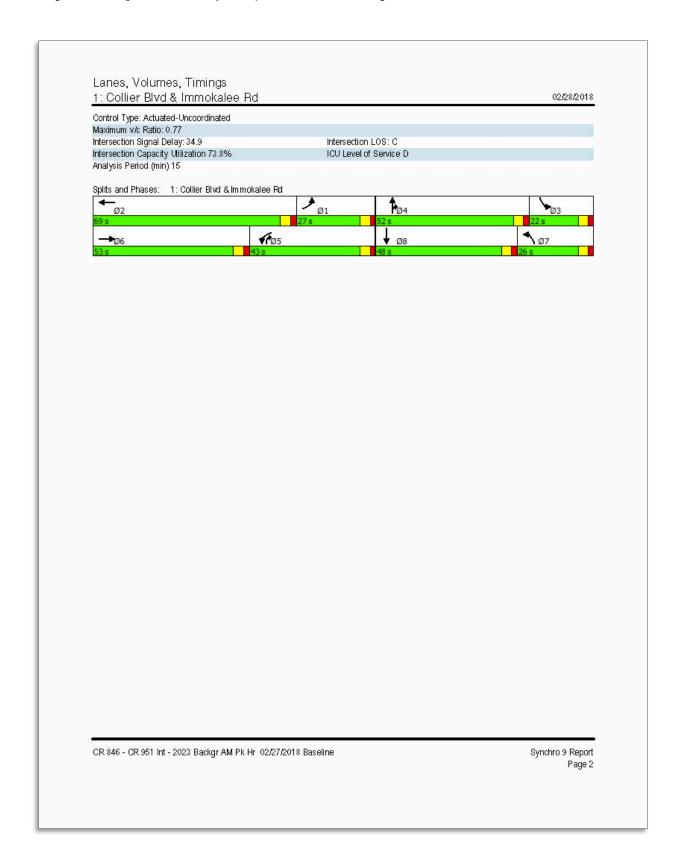


	•	-	•	1	+	•	1	†	~	\	ļ	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SB
Lane Configurations	ሻሻ	^ ^	7	ሻሻሻ	^ ^	7	ሻሻሻ	^	77	7	^	
Traffic Volume (vph)	207	1565	470	661	863	10	382	148	1026	71	138	10
Future Volume (vph)	207	1565	470	661	863	10	382	148	1026	71	138	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	190
Storage Length (ft)	550		400	760		580	540		515	330		33
Storage Lanes	2		1	3		1	2		1	1		
Taper Length (ft)	100			140			100			50		
Lane Util Factor	0.97	0.91	1.00	0.94	0.91	1.00	0.94	1.00	0.88	1.00	0.95	1.0
Frt			0.850			0.850			0.850			0.85
Fit Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	158
Fit Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	158
Right Turn on Red			No			No			Yes			1
Satd. Flow (RTOR)									481			
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		3220			3645			1891			2183	
Travel Time (s)		48.8			55.2			28.7			33.1	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.5
Shared Lane Traffic (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	
Lane Group Flow (vph)	218	1647	495	696	908	11	402	156	1080	75	145	11
Tum Type	Prot	NA	Free	Prot	NA	Free	Prot	NA	pt+ov	Prot	NA	Fre
Protected Phases	1	6		5	2	1100	7	4	4.5	3	8	
Permitted Phases	271		Free			Free			-10	·		Fre
Total Split (s)	20.0	61.0	1100	32.0	73.0	1100	16.7	32.3		44.7	60.3	
Total Lost Time (s)	5.4	5.4		5.4	5.4		5.4	5.4		5.4	5.4	
Act Effct Green (s)	48.8	54.3	134.0	26.1	31.7	134.0	20.8	20.6	52.2	11.2	11.0	134
Actuated g/C Ratio	0.36	0.41	1.00	0.19	0.24	1.00	0.16	0.15	0.39	0.08	0.08	1.0
v/c Ratio	0.17	0.80	0.31	0.72	0.76	0.01	0.52	0.55	0.78	0.51	0.50	0.0
Control Delay	32.1	39.6	0.5	56.3	52.3	0.0	54.6	60.6	23.9	73.1	66.6	0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ŏ
Total Delay	32.1	39.6	0.5	56.3	52.3	0.0	54.6	60.6	23.9	73.1	66.6	ŏ
LOS	C	D	A	E	D	A	D	E	C	E	E	
Approach Delay	-	30.7			53.7			34.9			45.3	
Approach LOS		C			D			C			D	
Queue Length 50th (ft)	67	463	0	206	276	0	117	129	279	65	65	
Queue Length 95th (ft)	116	591	o o	274	335	0	156	209	396	123	107	
Internal Link Dist (ft)	117	3140		217	3565		100	1811	000	120	2103	
Tum Bay Length (ft)	550	0140	400	760	0000	580	540	1411	515	330	2100	33
Base Capacity (vph)	1249	2124	1583	997	2582	1583	773	376	1479	522	1460	158
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	101
Spillback Cap Reductn	Ô	Ů.	Ŏ	Ŏ	0	0	0	Ů.	Ŏ	0	Ŏ	
Storage Cap Reductn	0	ō	o o	Ŏ	0	0	0	Ö	ō	0	0	
Reduced v/c Ratio	0.17	0.78	0.31	0.70	0.35	0.01	0.52	0.41	0.73	0.14	0.10	0.0
2000 2000 200		****	****	****						*****		
Intersection Summary	Aller											
Area Type:	Other											
Cycle Length: 170 Actuated Cycle Length: 10												

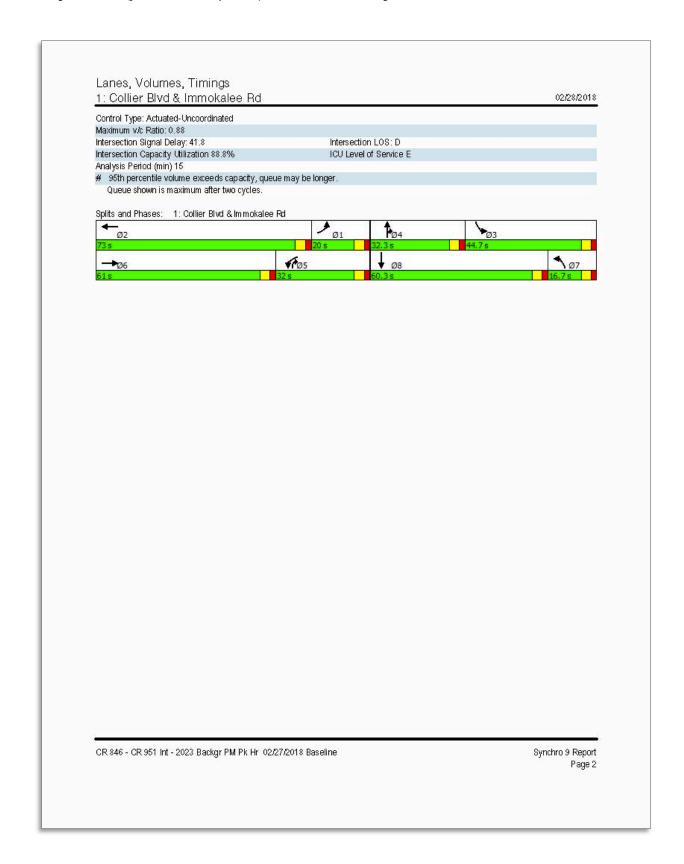


Collier Blvd. and Immokalee Rd. Intersection – Year 2023 Background Conditions

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	ሻሻ	ተተተ	7	444	^ ^	7	ሻሻሻ	†	77	7	^	7
Traffic Volume (vph)	264	770	443	1224	1824	25	466	89	323	45	123	107
Future Volume (vph)	264	770	443	1224	1824	25	466	89	323	45	123	107
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	550		400	760		580	540		515	330		330
Storage Lanes	2		- 1	3		1	2		1	_1		1
Taper Length (ft)	100	0.04	4.00	140	0.04	4.00	100	4.00		50	A AF	4.00
Lane Util. Factor	0.97	0.91	1.00	0.94	0.91	1.00	0.94	1.00	0.88	1.00	0.95	1.00
Frt Protected	0.950		0.850	0.950		0.850	0.950		0.850	0.950		0.850
Satd. Flow (prot)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	1583
Fit Permitted	0.950	0000	1000	0.950	0000	1000	0.950	1000	2101	0.950	0000	1000
Satd. Flow (perm)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	1583
Right Turn on Red			No			No			Yes			No
Satd. Flow (RTOR)									295			
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		3220			3645			1891			2183	
Travel Time (s)		48.8			55.2			28.7			33.1	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.96
Shared Lane Traffic (%)												
Lane Group Flow (vph)	278	811	466	1288	1920	_ 26	491	94	340	47	129	113
Tum Type	Prot	NA	Free	Prot	NA	Free	Prot	NA	pt+ov	Prot	NA	Free
Protected Phases	- 1	6		5	2	F	7	4	4.5	3	\$	E.s.
Permitted Phases	27.0	53.0	Free	43.0	69.0	Free	26.0	52.0		22.0	48.0	Free
Total Split (s) Total Lost Time (s)	5.4	5.4		5.4	5.4		5.4	5.4		5.4	5.4	
Act Effct Green (s)	15.9	27.2	129.2	52.3	63.6	129.2	17.9	16.4	74.1	14.2	10.2	129.
Actuated g/C Ratio	0.12	0.21	1.00	0.40	0.49	1.00	0.14	0.13	0.57	0.11	0.08	1.00
wc Ratio	0.66	0.76	0.29	0.64	0.77	0.02	0.71	0.40	0.20	0.24	0.46	0.07
Control Delay	62.7	53.2	0.5	33.8	30.3	0.0	59.9	60.9	3.1	56.6	63.5	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	62.7	53.2	0.5	33.8	30.3	0.0	59.9	60.9	3.1	56.6	63.5	0.1
LOS	E	D	Α	С	С	Α	E	E	Α	E	E	- 1
Approach Delay		39.1			31.5			39.1			37.6	
Approach LOS	20020	D	- 56	0.000	С	100		D			D	
Queue Length 50th (ft)	117	236	0	307	472	0	141	77	9	36	55	(
Queue Length 95th (ft)	170	294	0	407	612	0	192	139	37	81	94	(
Internal Link Dist (ft) Tum Bay Length (ft)	550	3140	400	760	3565	580	540	1811	515	330	2103	330
Base Capacity (vph)	575	1879	1583	2018	2511	1583	797	673	2309	231	1170	1583
Starvation Cap Reductn	0/0	0	1000	2010	2011	1000	0	0/3	2309	201	0	1000
Spillback Cap Reductn	Ô	ő	0	0	o o	o	ő	Ó	Ó	ó	o o	ì
Storage Cap Reductn	Ŏ	ō	0	Ŏ	0	0	0	o o	0	0	0	(
Reduced v/c Ratio	0.48	0.43	0.29	0.64	0.76	0.02	0.62	0.14	0.15	0.20	0.11	0.07
Interposition Cummons												
Intersection Summary	Other											
Area Type: Cycle Length: 170	Other											
Actuated Cycle Length: 129	2											
retudica Oyele Beligini. 120	-											
CR 846 - CR 951 Int - 2023	Backgr AM	IPk Hr 0	2/27/2018	Baseline							Synchro 9	Repor

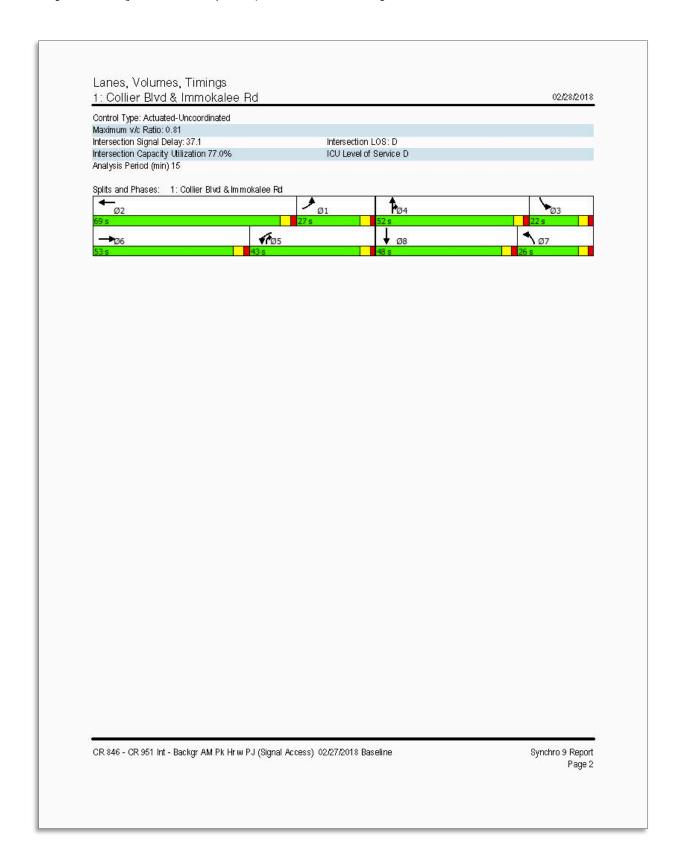


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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	S
Lane Configurations	ሻሻ	^ ^	7	ሻሻሻ	^ ^	7	ሻሻሻ	↑	77	7	^	
Traffic Volume (vph)	218	1728	494	695	953	11	402	164	1079	75	153	- 1
Future Volume (vph)	218	1728	494	695	953	11	402	164	1079	75	153	া
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	19
Storage Length (ft)	550		400	760		580	540		515	330		3
Storage Lanes	2		1	3		1	2		1	1		
Taper Length (ft)	100			140			100			50		
Lane Util. Factor	0.97	0.91	1.00	0.94	0.91	1.00	0.94	1.00	0.88	1.00	0.95	1
Frt			0.850			0.850			0.850			0.8
Fit Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	15
Fit Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	15
Right Turn on Red			No			No			Yes			
Satd. Flow (RTOR)									471			
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		3220			3645			1891			2183	
Travel Time (s)		48.8			55.2			28.7			33.1	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.
Shared Lane Traffic (%)												
Lane Group Flow (vph)	229	1819	520	732	1003	12	423	173	1136	79	161	- 1
Tum Type	Prot	NA	Free	Prot	NA	Free	Prot	NA	pt+ov	Prot	NA	Fr
Protected Phases	1	6		5	2		7	4	4.5	3	8	
Permitted Phases			Free			Free						Fr
Total Split (s)	20.0	61.0		32.0	73.0		16.7	32.3		44.7	60.3	
Total Lost Time (s)	5.4	5.4		5.4	5.4		5.4	5.4		5.4	5.4	
Act Effct Green (s)	47.3	55.8	137.9	26.7	35.2	137.9	22.0	22.2	54.3	11.6	11.7	137
Actuated g/C Ratio	0.34	0.40	1.00	0.19	0.26	1.00	0.16	0.16	0.39	0.08	0.08	1.
wc Ratio	0.19	0.88	0.33	0.76	0.77	0.01	0.53	0.58	0.82	0.53	0.53	0.
Control Delay	35.3	45.0	0.6	59.2	52.1	0.0	55.6	61.9	27.0	74.8	68.0	(
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
Total Delay	35.3	45.0	0.6	59.2	52.1	0.0	55.6	61.9	27.0	74.8	68.0	(
LOS	D	D	Α	E	D	Α	E	E	С	E	E	
Approach Delay		35.2			54.8			37.5			46.9	
Approach LOS		D			D			D			D	
Queue Length 50th (ft)	76	557	0	224	309	0	124	145	324	70	74	
Queue Length 95th (ft)	126	#698	0	291	365	0	165	231	454	128	117	
Internal Link Dist (ft)		3140			3565			1811			2103	
Tum Bay Length (ft)	550		400	760	fotostano	580	540		515	330		3
Base Capacity (vph)	1176	2057	1583	965	2501	1583	796	364	1463	506	1413	15
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	500
Reduced v/c Ratio	0.19	0.88	0.33	0.76	0.40	0.01	0.53	0.48	0.78	0.16	0.11	0.0
Intersection Summary												
Area Type:	Other											
Cycle Length: 170												
Actuated Cycle Length: 137	.9											

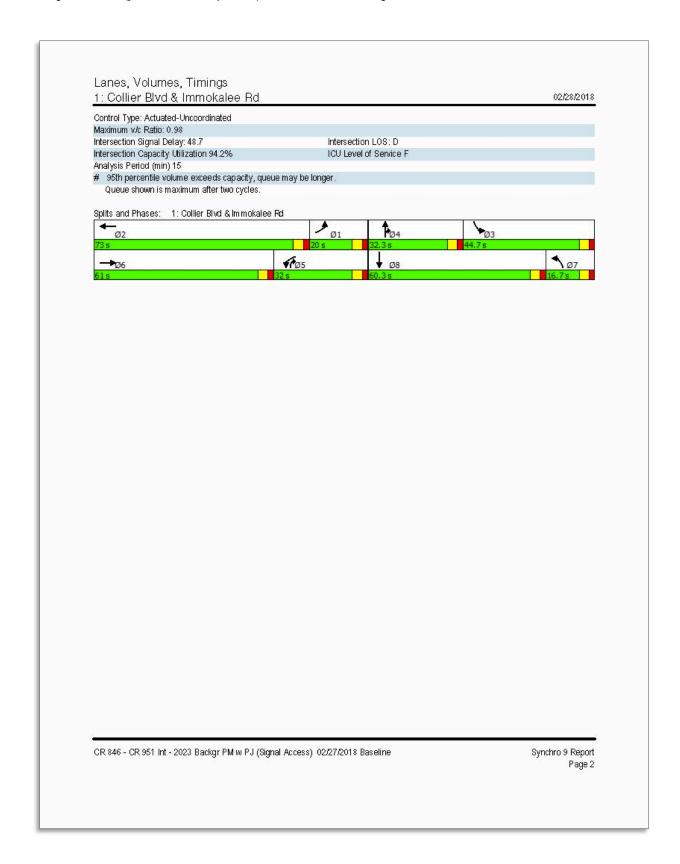


Collier Blvd. and Immokalee Rd. Intersection – Year 2023 Background with Project Conditions

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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	ሻሻ	ተተተ	7	ሻሻሻ	^	7	777	↑	77	7	^	7
Traffic Volume (vph)	264	841	550	1257	1891	59	566	89	359	81	123	107
Future Volume (vph)	264	841	550	1257	1891	59	566	89	359	81	123	107
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	550		400	760		580	540		515	330		330
Storage Lanes	2		-1	3		1	2		1	_1		- 1
Taper Length (ft)	100	0.04	4.00	140	0.04	4.00	100	4.00	^ ^^	50	0.05	4.00
Lane Util. Factor Frt	0.97	0.91	1.00 0.850	0.94	0.91	1.00 0.850	0.94	1.00	0.88	1.00	0.95	0.850
Fit Protected	0.950		0.850	0.950		0.650	0.950		0.650	0.950		0.000
Satd. Flow (prot)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	1583
Fit Permitted	0.950	0000	1000	0.950	0000	1000	0.950	1000	2101	0.950	0000	1000
Satd. Flow (perm)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	1583
Right Turn on Red			No			No			Yes			No
Satd. Flow (RTOR)									179			
Link Speed (mph)		45			45			45			45	
Link Distance (ft)		3220			3645			1891			2183	
Travel Time (s)		48.8			55.2			28.7			33.1	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Shared Lane Traffic (%)	0.00	1992	42000	190000	0.000	- 22	1927	1999	1757	1/12	1999	
Lane Group Flow (vph)	278	885	579	1323	1991	62	596	94	378	85	129	113
Tum Type	Prot	NA	Free	Prot	NA	Free	Prot	NA	pt+ov	Prot	NA	Free
Protected Phases	1	6	Ema	5	2	Fron	7	4	4.5	3	8	Fron
Permitted Phases	27.0	53.0	Free	43.0	69.0	Free	26.0	52.0		22.0	48.0	Free
Total Split (s) Total Lost Time (s)	5.4	5.4		5.4	5.4		5.4	5.4		5.4	5.4	
Act Effct Green (s)	15.9	29.4	132.2	50.3	63.7	132.2	20.7	12.3	68.0	18.6	10.3	132.2
Actuated g/C Ratio	0.12	0.22	1.00	0.38	0.48	1.00	0.16	0.09	0.51	0.14	0.08	1.00
wc Ratio	0.67	0.78	0.37	0.70	0.81	0.04	0.77	0.55	0.25	0.34	0.47	0.07
Control Delay	64.3	53.8	0.7	37.7	33.1	0.1	61.3	69.4	9.6	57.6	64.6	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	64.3	53.8	0.7	37.7	33.1	0.1	61.3	69.4	9.6	57.6	64.6	0.1
LOS	E	D	A	D	С	Α	E	E	Α	E	E	1
Approach Delay		37.8			34.3			43.7			40.5	
Approach LOS	574	D	- 2	200	С	16	1442	D		-	D	-
Queue Length 50th (ft)	119	263	0	336	519	0	175	78	49	66	56	(
Queue Length 95th (ft)	170	318	0	433	651 2565	0	233	139	85	130	94	(
Internal Link Dist (ft) Tum Bay Length (ft)	550	3140	400	760	3565	580	540	1811	515	330	2103	330
Base Capacity (vph)	561	1834	1583	1897	2450	1583	780	657	2198	250	1142	1583
Starvation Cap Reductn	0	0	0	0	2400	0	0	0	0	0	0	1000
Spillback Cap Reductn	Ô	ő	Ó	ő	Ó	Ó	ő	ő	Ó	o o	ů.	Č
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	(
Reduced v/c Ratio	0.50	0.48	0.37	0.70	0.81	0.04	0.76	0.14	0.17	0.34	0.11	0.07
Intersection Summary												
Area Type:	Other											
Cycle Length: 170 Actuated Cycle Length: 132												
CR 846 - CR 951 Int - Back	gr AM Pk H	lrw PJ (S	ignal Acc	ess) 02/2	7 <i>1</i> 2018 B	aseline				,	Synchro 9	Repor

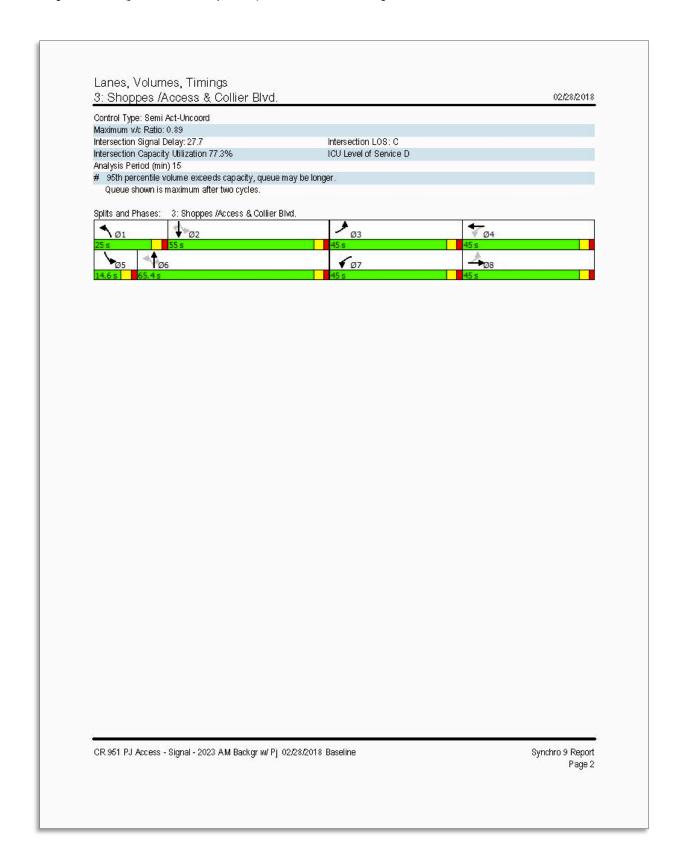


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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	
Lane Configurations	ሻሻ	**	7	ሻሻሻ	^ ^	7	ሻሻሻ	†	77	7	44	
Traffic Volume (vph)	218	1813	621	736	1037	53	527	164	1121	117	153	
Future Volume (vph)	218	1813	621	736	1037	53	527	164	1121	117	153	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1
Storage Length (ft)	550		400	760		580	540		515	330		
Storage Lanes	2		1	3		1	2		1	1		
Taper Length (ft)	100			140			100			50		
Lane Util . Factor	0.97	0.91	1.00	0.94	0.91	1.00	0.94	1.00	0.88	1.00	0.95	9
Frt		0.01	0.850		0.01	0.850	0.01		0.850	1.00		0
Fit Protected	0.950		0.000	0.950		0.000	0.950		0.000	0.950		
Satd. Flow (prot)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	1
Fit Permitted	0.950	0000	1000	0.950	0000	1000	0.950	1000	2101	0.950	0000	
Satd. Flow (perm)	3433	5085	1583	4990	5085	1583	4990	1863	2787	1770	3539	1
Right Turn on Red	0400	0000	No	4330	0000	No	4330	1000	Yes	11110	.0003	_
Satd. Flow (RTOR)			180			140			368			
Link Speed (mph)		45			45			45	000		45	
Link Distance (ft)		3220			3645			1891			2183	
Travel Time (s)		48.8			55.2			28.7			33.1	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	- i
Shared Lane Traffic (%)	0.30	0.30	0.30	0.50	0.50	0.30	0.30	0.30	0.30	0.30	0.30	
	229	1908	654	775	1092	56	555	173	1180	123	161	
Lane Group Flow (vph)	Prot		Free	Prot	NA		Prot	NA		Prot	NA.	
Tum Type		NA 6	riee	5	2	Free	7	4	pt+ov 4.5	3	NA 8	F
Protected Phases	- 1	0	Ema.	D	2	Fron	- 1	4	40	3	*	
Permitted Phases	00.0	C4 0	Free	20.0	70.0	Free	407	20.2		44.7	00.0	F
Total Split (s)	20.0	61.0		32.0	73.0		16.7	32.3		44.7	60.3	
Total Lost Time (s)	5.4	5.4	1151	5.4	5.4	115.1	5.4	5.4	F0.4	5.4	5.4	4
Act Effct Green (s)	43.0	55.7	145.4	26.6	39.3	145.4	29.5	26.1	58.1	15.4	12.0	1
Actuated g/C Ratio	0.30	0.38	1.00	0.18	0.27	1.00	0.20	0.18	0.40	0.11	0.08	-
wc Ratio	0.23	0.98	0.41	0.85	0.79	0.04	0.55	0.52	0.88	0.66	0.55	
Control Delay	41.7	60.5	0.8	67.6	54.0	0.0	54.4	60.9	36.7	79.3	71.9	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Delay	41.7	60.5	0.8	67.6	54.0	0.0	54.4	60.9	36.7	79.3	71.9	
LOS	D	Е	Α	E	D	Α	D	Е	D	E	E	
Approach Delay		45.0			57.9			44.1			52.8	
Approach LOS	12.0	D	- 1	200	Е	100		D	77.2	1000	D	
Queue Length 50th (ft)	85	656	0	256	355	0	168	150	435	115	78	
Queue Length 95th (ft)	137	#830	0	#836	404	0	215	239	#600	185	121	
Internal Link Dist (ft)		3140			3565			1811			2103	
Tum Bay Length (ft)	550	which the	400	760	festivation	580	540	2000000	515	330	-	
Base Capacity (vph)	1015	1947	1583	914	2367	1583	1010	345	1349	479	1338	1
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.23	0.98	0.41	0.85	0.46	0.04	0.55	0.50	0.87	0.26	0.12	(
Intersection Summary												
Area Type: Cycle Length: 170 Actuated Cycle Length: 14	Other											



Collier Blvd. and Pebblebrooke Center/Project Access Intersection – Year 2023 Background with Project Conditions

Lane Group	•	_	*	1	+	•	1	1	~	\	↓	4
	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	1	1>		7	f.		7	^ ^	7	7	^ ^	i
Traffic Volume (vph)	29	0	39	201	0	100	209	914	214	107	1782	4
Future Volume (vph)	29	0	39	201	0	100	209	914	214	107	1782	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	190
Storage Length (ft)	0		0	0		0	310		185	285		28
Storage Lanes	1		0	_1_		0	_1		1	_1		
Taper Length (ft)	50	4 00	4.00	50	4.00	4.00	50	0.04	4.00	50	0.04	4.0
Lane Util. Factor Frt	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.91	1.00	1.00	0.91	1.0
Fit Protected	0.950	0.850		0.950	0.850		0.950		0.850	0.950		0.85
Satd. Flow (prot)	1770	1583	0	1770	1583	0	1770	5085	1583	1770	5085	158
Fit Permitted	0.727	1000		0.368	1000		0.072	0000	1000	0.270	0000	1000
Satd. Flow (perm)	1354	1583	0	685	1583	0	134	5085	1583	503	5085	158
Right Turn on Red	1004	1000	Yes	***	1000	Yes	101	0 0 0 0	Yes	000	0000	Ye
Satd. Flow (RTOR)		321			487				176			11
Link Speed (mph)		25			25			45			45	
Link Distance (ft)		275			260			792			1100	
Travel Time (s)		7.5			7.1			12.0			16.7	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.9
Shared Lane Traffic (%)												
Lane Group Flow (vph)	32	43	0	223	111	0	232	1016	238	119	1980	41
Tum Type	pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm	pm+pt	NA	Pern
Protected Phases	3	8		7	4		1	6	-	5	2	
Permitted Phases	8	APPEN		4	40200		6	200	6	2		
Total Split (s)	45.0	45.0		45.0	45.0		25.0	65.4	65.4	14.6	55.0	55.
Total Lost Time (s)	5.4	5.4		5.4	5.4		5.4	5.4	5.4	5.4	5.4	5.
Act Effct Green (s)	12.5	5.5		30.2	17.8		72.5	58.9	58.9	58.0	49.8	49.
Actuated g/C Ratio v/c Ratio	0.11	0.05		0.27	0.16 0.17		0.64	0.52	0.52	0.51	0.44	0.4
Control Delay	35.4	0.11		0.61 42.8	0.17		37.3	17.5	0.26 5.6	12.9	36.4	0.0
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.
Total Delay	35.4	0.6		42.8	0.6		37.3	17.5	5.6	12.9	36.4	0.
LOS	D	A		D D	A		D	В	A	12.3 B	D	~,
Approach Delay		15.4			28.7			18.7			34.3	· i
Approach LOS		В			С			В			С	
Queue Length 50th (ft)	18	0		139	0		108	157	22	31	485	- 1
Queue Length 95th (ft)	43	0		215	0		212	219	72	64	#671	1
Internal Link Dist (ft)		195			180			712			1020	
Turn Bay Length (ft)							310		185	285		28
Base Capacity (vph)	619	762		619	870		368	2696	922	364	2229	76
Starvation Cap Reductn	0	0		0	0		0	0	0	0	0	- 1
	0	0		0	0		0	0	0	0	0	- 1
Spillback Cap Reductn	0	0		0	0		0	0	0	0	0	1
Spillback Cap Reductn Storage Cap Reductn		0.06		0.36	0.13		0.63	0.38	0.26	0.33	0.89	0.0
Spillback Cap Reductn	0.05											
Spillback Cap Reductn Storage Cap Reductn	0.05											
Spillback Cap Reductn Storage Cap Reductn Reduced wc Ratio Intersection Summary Area Type:	Other											
Spillback Cap Reductn Storage Cap Reductn Reduced wc Ratio Intersection Summary	Other											



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Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	
Lane Configurations	7	7	EDIN	7	13	00 DIX	NDL	†	NON	7	†	
Traffic Volume (vph)	233	0	52	251	0	125	308	1687	254	127	1312	
Future Volume (vph)	233	ő	52	251	ŏ	125	308	1687	254	127	1312	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	1000	0	0	1000	0	310		185	285	1000	
Storage Lanes	1		0	1		0	1		1	1		
Taper Length (ft)	50			50			50			50		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.91	1.00	1.00	0.91	
Frt		0.850			0.850				0.850			
Fit Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1583	0	1770	1583	0	1770	5085	1583	1770	5085	
Fit Permitted	0.727			0.556			0.078			0.088		
Satd. Flow (perm)	1354	1583	0	1036	1583	0	145	5085	1583	164	5085	
Right Turn on Red			Yes			Yes			Yes			
Satd. Flow (RTOR)		350			283				113			
Link Speed (mph)		25			25			45			45	
Link Distance (ft)		275			260			792			1100	
Travel Time (s)		7.5			7.1			12.0			16.7	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
Shared Lane Traffic (%)												
Lane Group Flow (vph)	259	58	0	279	139	0	342	1874	282	141	1458	
Tum Type	pm+pt	NA		pm+pt	NA		pm+pt	NA	Perm	pm+pt	NA.	
Protected Phases	3	8		7	4		1	6		5	2	
Permitted Phases	8			4			6		6	2		
Total Split (s)	45.0	45.0		45.0	45.0		29.0	65.4	65.4	14.6	51.0	
Total Lost Time (s)	5.4	5.4		5.4	5.4		5.4	5.4	5.4	5.4	5.4	
Act Effct Green (s)	25.6	5.5		28.9	7.1		74.7	60.1	60.1	54.9	45.7	
Actuated g/C Ratio	0.22	0.05		0.24	0.06		0.63	0.51	0.51	0.46	0.39	
w/c Ratio	0.71	0.14		0.72	0.39		0.82	0.72	0.33	0.70	0.74	
Control Delay	47.8	0.7		47.8	3.1		48.6	25.3	11.7	44.7	34.6	
Queue Delay	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Total Delay	47.8	0.7		47.8	3.1		48.6	25.3	11.7	44.7	34.6	
LOS	D	Α		D	Α		D	С	В	D	С	
Approach Delay		39.2			33.0			26.9			33.9	
Approach LOS	90000	D		100	С		2000	С	1000	1000	С	
Queue Length 50th (ft)	167	0		183	0		197	392	69	51	345	
Queue Length 95th (ft)	250	0		270	0		#887	510	143	#162	445	
Internal Link Dist (ft)		195			180		772757	712	7752		1020	
Tum Bay Length (ft)							310		185	285		
Base Capacity (vph)	594	763		594	719		416	2585	860	201	1964	
Starvation Cap Reductn	0	0		0	0		0	0	0	0	0	
Spillback Cap Reductn	0	0		0	0		0	0	0	0	0	
Storage Cap Reductn	0	0		0.47	0		0	0 70	0	0 70	0	
Reduced v/c Ratio	0.44	80.0		0.47	0.19		0.82	0.72	0.33	0.70	0.74	
Intersection Summary												
Area Type: Cycle Length: 170 Actuated Cycle Length: 118	Other											

