TRANSPORTATION ANALYSIS

US 19 and Spring Hill Drive - NEC

Prepared for:

Meridien Development LLC



Submitted by freorge Andelidos@BCC Provided by applicant w/ application



Transportation Analysis US 19 and Spring Hill Drive - NEC

December 2024

Prepared for:
Meridien Development LLC

Prepared by:
Palm Traffic
4006 South MacDill Avenue
Tampa, FL 33611
Ph: (813) 296-2595

Project No. T24091



Digitally signed by Vicki L Castro Date: 2024.12.23

Date: 2024.12.23

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Vicki L. Castro, P.E. P.E. No. 47128

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INTRODUCTION

The purpose of this report is to provide the Transportation Analysis for the proposed development of the property located east of US 19 and north of Spring Hill Drive in Hernando County, Florida, as shown in Figure 1.

PROJECT DESCRIPTION

The property is currently vacant. The proposed project will consist of the following uses:

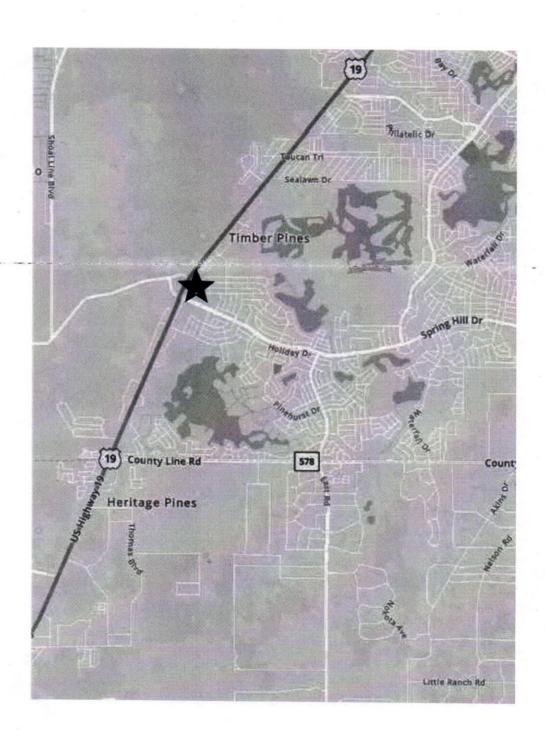
- 3 bay Quick Lube
- 3,000 square foot Coffee Shop with drive-through
- 5,500 square foot Fast Food Restaurant with Drive-Through
- 3,600 square foot Fast Food Restaurant with Drive-Through
- 3,500 square foot Medical Office.

The accesses for the project are proposed to be as follows.

- One (1) right-in/right-out access to US 19
- One (1) left-in/left-out/right-in/right-out access to US 19
- One (1) left-in/right-in/right-out access to Pinehurst Drive.

A conceptual site plan is included in the Appendix of this report.

Figure 1. Project Location



ESTIMATED DAILY PROJECT TRAFFIC

The trip rates utilized in this report were obtained from the latest computerized version of OTISS which utilizes the Institute of Transportation Engineers (ITE) <u>Trip Generation</u>, 11th Edition, 2021, as its database. Based on these trip rates, it is estimated that the proposed project will attract approximately 6,101 daily trip ends, as shown in Table 1.

Studies contained in the ITE <u>Trip Generation</u>, 11th Edition, indicate that a percentage of the project trips already exist on the adjacent roadways - passerby capture. Therefore, the new daily trip ends attracted to the proposed project would be 3,172 trip ends, as shown in Table 1.

ESTIMATED AM PROJECT TRAFFIC

Again, based on data contained in the ITE <u>Trip Generation</u>, 11th Edition, the proposed project would attract approximately 685 trip ends during the AM peak hour with 354 inbound and 331 outbound, as shown in Table 2.

As previously stated, studies contained in the ITE <u>Trip Generation</u>, 11th Edition, indicate that a percentage of the project trips already exist on the adjacent roadways - passerby capture. Therefore, the new AM peak hour trip ends attracted to the proposed project would be 352 trip ends with 184 inbound and 168 outbound, as shown in Table 2.

ESTIMATED PM PROJECT TRAFFIC

Again, based on data contained in the ITE <u>Trip Generation</u>, 11th Edition, the proposed project would attract approximately 444 trip ends during the PM peak hour with 227 inbound and 217 outbound, as shown in Table 3.

As previously stated, studies contained in the ITE <u>Trip Generation</u>, 11th Edition, indicate that a percentage of the projects trips already exist on the adjacent roadways - passerby capture. Therefore, the new PM peak hour trip ends attracted to the proposed project would be 215 trip ends with 109 inbound and 106 outbound, as shown in Table 3.

Table 1. Estimated Daily Project Traffic

Land Use	ITE LUC	<u>Size</u>	Daily Trip Ends (1)	Passerby Capture (1)	New Daily Trip Ends
Quick Lube	941	3 Bays	120	0	120
Coffee Shop w/ DT	937	3,000 SF	1,601	801	800
Fast Food Restaurant w DT	934	5,500 SF	2,571	1,286	1,285
Fast Food Restaurant w DT	934	3,600 SF	1,683	842	841
Medical Office	720	3,500.SF	126	<u> </u>	126
		Total	6,101	2,929	3,172

⁽¹⁾ Source: ITE Trip Generation, 11th Edition, 2021.

Table 2. AM Peak Hour Project Traffic

	ITE		3.00	Peak			asserb pture			AM Pe Trip En	ak Hour ds
Land Use	LUC	Size	<u>ln</u>	Out	Total	<u>ln</u>	Out	Total	<u>ln</u>	Out	Total
Quick Lube	941	3 Bays	6	3	9	0	0	0	6	3	9
Coffee Shop w/ DT	937	3,000 SF	132	126	258	66	63	129	66	63	129
Fast Food Restaurant w DT	934	5,500 SF	125	120	245	63	60	123	62	60	122
Fast Food Restaurant w DT	934	3,600 SF	82	79	161	41	40	81	41	39	80
Medical Office	720	3,500 SF	9	3	12	0	<u>0</u>	0	9	3	12
		Total	354	331	685	170	163	333	184	168	352

⁽¹⁾ Source: ITE Trip Generation, 11th Edition, 2021.

Table 3. PM Peak Hour Project Traffic

	ITE			Peak p Ends			asserb pture			PM Pe Trip En	ak Hour ds
Land Use	LUC	Size	<u>ln</u>	Out	Total	<u>ln</u>	Out	Total	<u>ln</u>	Out	Total
Quick Lube	941	3 Bays	8	7	15	0	0	0	8	7	15
Coffee Shop w/ DT	937	3,000 SF	59	58	117	32	32	64	27	26	53
Fast Food Restaurant w DT	934	5,500 SF	95	87	182	52	48	100	43	39	82
Fast Food Restaurant w DT	934	3,600 SF	62	57	119	34	31	65	28	26	54
Medical Office	720	3,500 SF	3	8	11	<u>0</u>	0	<u>0</u>	3	8	11
		Total	227	217	444	118	111	229	109	106	215

⁽¹⁾ Source: ITE Trip Generation, 11th Edition, 2021.

PROJECT TRIP DISTRIBUTION/ASSIGNMENT

The following distribution of the new AM and PM peak hour trip ends was based on the existing traffic and development patterns with hand assignment to the local network:

- 25% to and from the north (via US 19)
- 25% to and from the south (via US 19)
- 40% to and from the east (via Spring Hill Drive)
- 10% to and from the west (via Osowaw Boulevard).

Table 4 shows the distribution of the new AM and PM peak hour project trip ends. Figure 2 and Figure 3 illustrate the AM and PM peak hour trip ends, respectively.

BUDGETED IMPROVEMENTS

According to the FDOT Work Program and the Hernando County Capital Improvement Program, there are no capacity adding projects budgeted within the vicinity of the project.

Table 4. Estimated New Peak Hour Project Traffic Distribution

Time	North	(25%)	South	(25%)	East	(40%)	West	(10%)	То	tal
<u>Period</u>	<u>ln</u>	Out	<u>In</u>	Out	<u>ln</u>	Out	<u>ln</u>	Out	<u>In</u>	Out
AM	46	42	46	42	74	67	18	17	184	168
PM	27	26	27	27	44	42	11	11	109	106

Figure 2. Project Traffic - AM Peak Hour

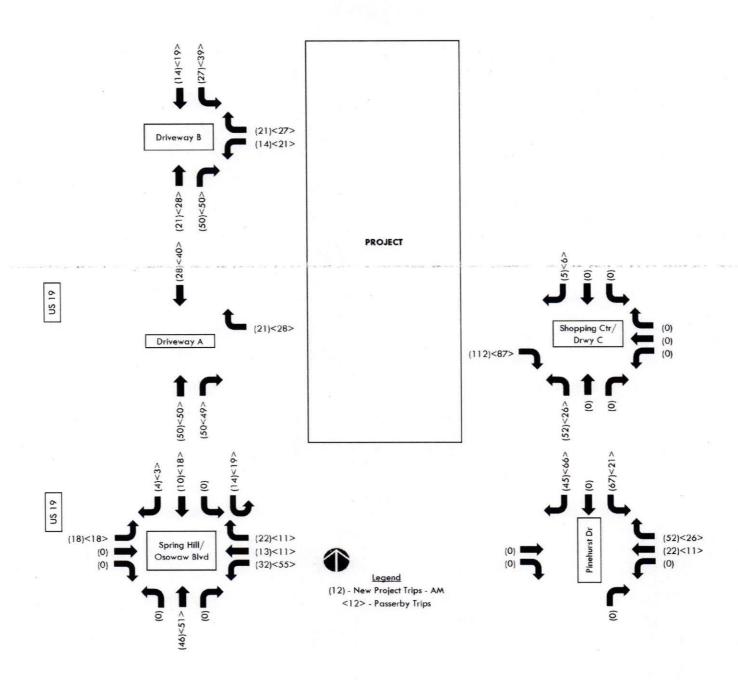
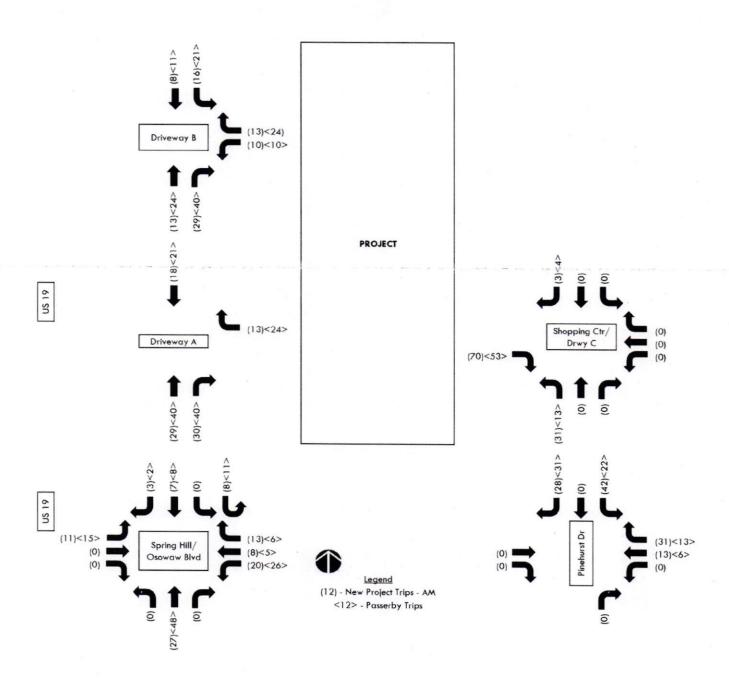


Figure 3. Project Traffic - PM Peak Hour



STUDY AREA

The study area for this analysis was determined to include all major road network facilities in which the peak hour project traffic consumes 4.5 percent or more of the adopted level of service capacity of the roadway. Table 5 shows the Study Area Determination for the project. As shown in the table, the project traffic does not consume more than 4.5 percent of the peak hour capacity on any of the adjacent links. Therefore, only the adjacent links will be included in the study area:

- US 19 from Spring Hill Drive to Trenton Avenue
- Pinehurst Drive from Spring Hill Drive to project.

ADJACENT ROADWAYS

As stated previously, the site is located east of US 19 and north of Spring Hill Drive. US 19 is a sixlane divided roadway. Spring Hill Drive is a four (4) lane divided roadway. Pinehurst Drive is a two (2) lane undivided roadway. According to the FDOT Work Program and Hernando County Capital Improvement Plan, there are no other programmed capacity improvements in the vicinity of the project.

BUILDOUT

It is anticipated the project will have a 2026 buildout date.

Table 5. Study Area Determination

Roadway	From	<u>To</u>	Lanes	Peak Hour Two-Way Capacity (1)	Percent Project Traffic	New PM Peak Hour Project Traffic	Percent
Moddinay	110111	10	Lunes	capacity (1)	Hame	Traine	<u>Consumed</u>
US 19	Applegate Dr	Spring Hill Dr	6LD	5,390	25%	54	1.0%
	Spring Hill Dr	Trenton Ave	6LD	5,390	25%	54	1.0%
			0.10	0,070	2570	34	1.070
Spring Hill Dr	Kenlake Ave	US 19	4LD	3,222	40%	86	2.7%
Osowaw Blva	US-19	Tarpon Blvd	21.0-	1 ,19 7	10%	22	1:8%

⁽¹⁾ Source: FDOT Generalized Level of Service Tables. Local 4LD: $3,580 \times 0.90 = 3,222$

Local 2LU: $1,330 \times 0.90 = 1,197$

BACKGROUND TRAFFIC

The following methodology was utilized to estimate the existing volumes within the study area:

- PALM TRAFFIC conducted AM (7:00 9:00) and PM (4:00 6:00) peak hour turning movement counts on Thursday, November 14, 2024, at the following intersections:
 - US 19 and Spring Hill Drive/Osowaw Boulevard
 - US 19 and Tarpon Boulevard
 - Spring Hill Drive and Pinehurst Drive
 - Pinehurst Drive and Shopping Center.

Figure 4 illustrates the existing traffic for the AM and PM peak hours.

- 2. The turning movement counts were adjusted to the peak season based on the FDOT Peak Season Adjustment Factors for Hernando County of 1.03. Figure 5 illustrates the peak season traffic for the AM and PM peak hours.
- 3. Based on FDOT historical traffic counts on US 19 in the area, there has been little to no growth over the past 10 years. To be conservative, an annual growth rate of 1.0 percent per year was used to determine the background traffic in the buildout year of 2026. Figure 6 illustrates the background traffic. Figure 7 and Figure 8 illustrate the AM and PM background plus project traffic, respectively.

Figure 4. Existing Traffic

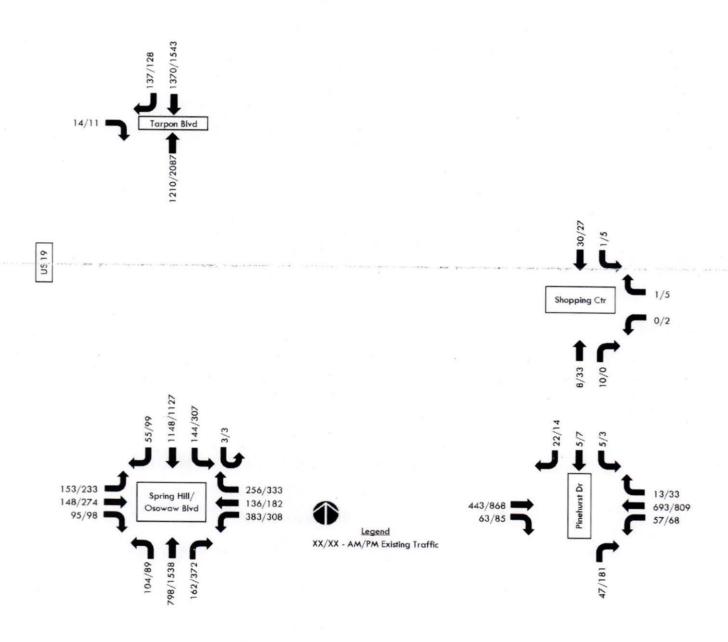


Figure 5. Peak Season Traffic

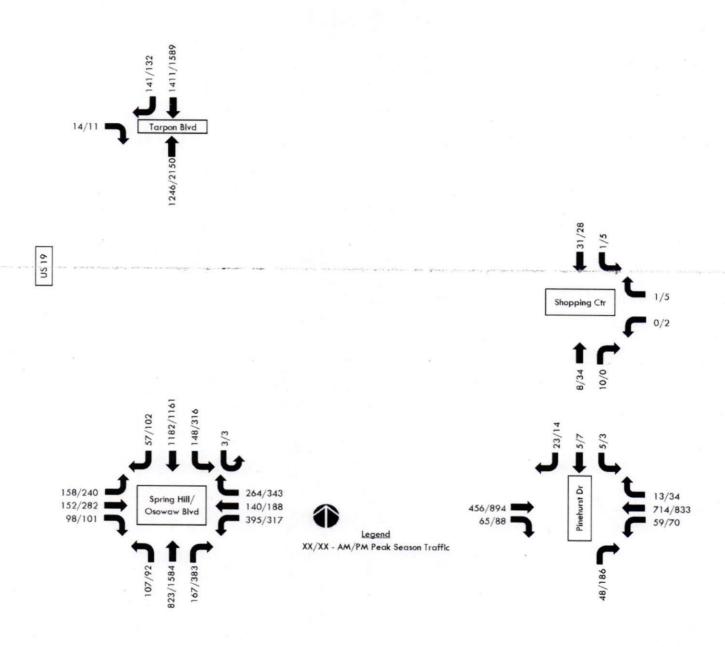


Figure 6. Background Traffic

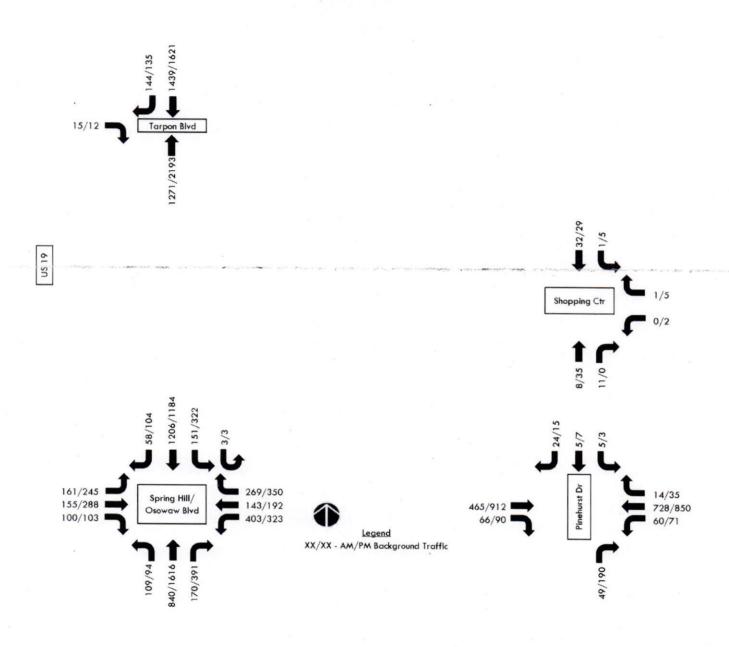


Figure 7. Background Plus Project Traffic - AM Peak Hour

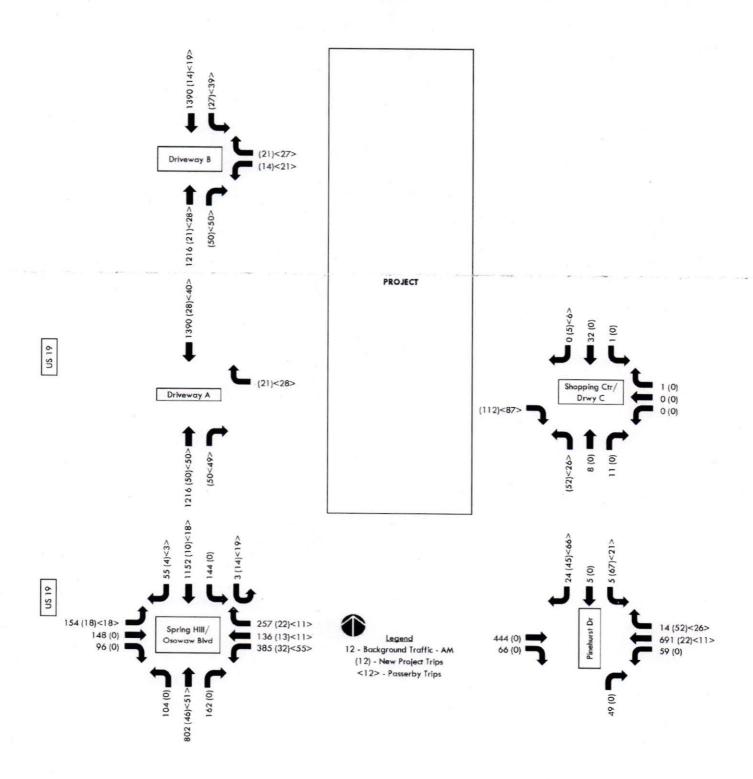
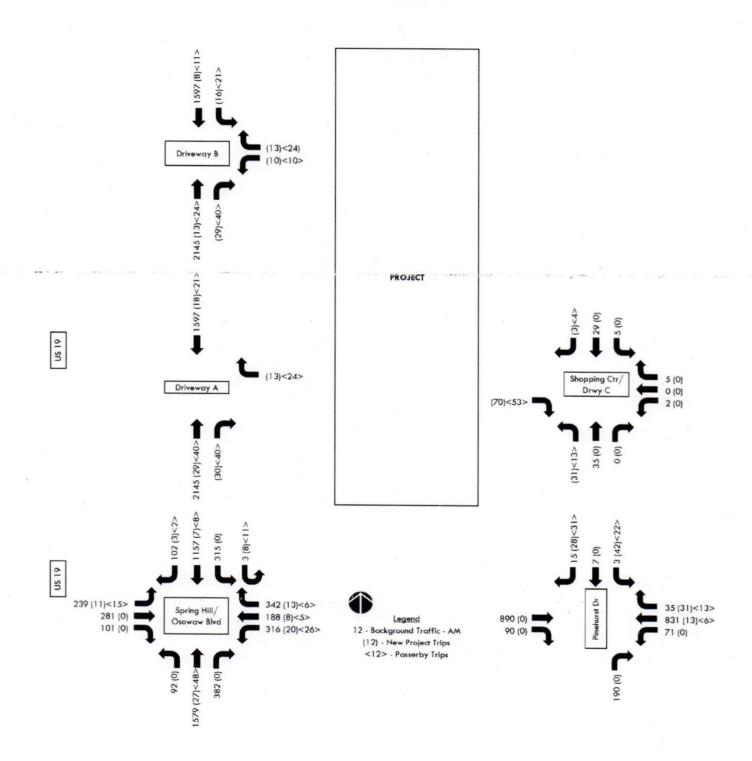


Figure 8. Background Plus Project Traffic – PM Peak Hour



INTERSECTION ANALYSIS

Intersection analysis was conducted for the AM and PM peak hours at the following intersections:

- US 19 and Osowaw Boulevard/Spring Hill Drive
- US 19 and Driveway B
- Spring Hill Drive and Pinehurst Drive
- Pinehurst Drive and Shopping Center/Driveway C.

The analysis was based on SYNCHRO with the proposed project traffic. Table 6 summarize the signalized intersection analysis results. The results are also described in the following paragraphs:

US 19 and Osowaw Boulevard/Spring Hill Drive

Signalized intersection analysis indicates that all the individual movements should operate with a volume to capacity (v/c) ratio less than 1.0 during the AM and PM peak hours with background plus project traffic.

US 19 and Driveway B

The intersection is unsignalized. Unsignalized intersection analysis indicates that all movements should operate with a v/c ratio less than 1.0 during the background plus project traffic during the AM and PM peak hours.

Spring Hill Drive and Pinehurst Drive

The intersection is unsignalized. Unsignalized intersection analysis indicates that all the individual movements should operate with a v/c ratio less than 1.0 during the AM and PM peak hours with background plus project traffic.

Pinehurst Drive and Shopping Center/Driveway C

The intersection is unsignalized. Unsignalized intersection analysis indicates that all the individual movements should operate with a v/c ratio less than 1.0 during the AM and PM peak hours with background plus project traffic.

Table 6. Estimated Intersection Volume to Capacity

		Ва	eak Hour T ckground P roject Traff	lus	Ва	eak Hour T ckground P roject Traff	lus
Intersection	Movement	<u>Left</u>	Through	Right	Left	Through	Right
US 19 and	EB	0.59	0.46	0.30	0.74	0.66	0.31
Spring Hill Drive	WB	0.85	0.57	0.66	0.83	0.76	0.99
	NB	0.68	0.52	0.25	0.73	0.92	0.48
	SB	0.55	0.67	0.09	0.78	0.58	0.15
US 19 and	WB	0.20	-	0.15	0.62	-	0.24
Driveway B	NB	-	*	*	-	*	*
Control of the Contro	SB	0.29	*		0.48	*	*
Spring Hill Drive and	EB	-	*	*	-	*	*
Pinehurst Drive	₩B	0.06	*	*	0.12	*	*
	NB	, -	-	0.07		-7	0.42
	SB	0.64	0.64	0.64	0.67	0.67	0.67
Pinehurst Drive and	EB	-	-	0.21	_	_	0.13
Driveway C	WB	0.00	0.00	0.00	0.01	0.01	0.01
	NB	0.05	*	*	0.03	*	*
	SB	0.00	*	*	0.00	*	*

^{*} Free flow

ACCESS ANALYSIS

The recommendations included in this report are based on a field review of the site, the proposed site plan and the Transportation Analysis. The methodology utilized to determine the need for a right and left turn lanes was based on the FDOT Multimodal Access Management Guidebook 2023. The access recommendations are summarized in Table 7 and described in the following paragraph:

US 19 and Driveway A

The proposed project driveway has right-in/right-out access to US 19. Based on the estimated traffic, a northbound right turn lane is warranted. Based on FDOT Design Manual 212-1, the design speed and the background plus project traffic, the turn lane should be 405 feet, which includes a 50-foot taper.

US 19 and Driveway B

This intersection has left-in/left-out/right-in/right-out access to US 19. Based on the estimated project traffic, a northbound right turn lane and a southbound left turn lane are warranted. Based on FDOT Design Manual 212-1, the design speed and the background plus project traffic, the northbound right turn lane should be 405 feet and the southbound left turn lane should be 455 feet. Both include a 50-foot taper.

Pinehurst Drive and Driveway C

The proposed project driveway will have left-in/right-in/right-out access to Pinehurst Drive. Based on the estimated project traffic, a northbound left turn lane and a southbound right turn lane are not warranted.

Table 7. Access Recommendations

Intersection	Movement	Peak Hour Volume (1)	Turn Lane Warranted?	Queue Storage (2)	Deceleration Length (3)	Required <u>Length</u>
US 19 and Driveway A	NBR	99/70	Υ	0'	405'	405'
US 19 and Driveway B	NBR SBL	100/69 66/37	Y Y	0' 50'	405' 405'	405' 455'
Pinehurst Drive and Driveway C	NBL SBR	78/44 11/7	2 2			

⁽¹⁾ See Figures 7 and 8, Background Plus Project Traffic, from the report.

⁽²⁾ Based on Synchro 95th percentile queue or a minimum of 50 feet for left turn lanes.

⁽³⁾ Based on FDOT Design Manual 212-1 and a design speed of 60 mph on US 19.

GENERALIZED LINK ANALYSIS

A generalized link analysis was conducted for those roadways within the area of influence for the following traffic conditions:

- Peak Season Traffic
- Background Traffic
- Background Plus Project Traffic

Table 8 presents the results of the analysis for the general link analysis. According to the results shown in the table, there currently is excess capacity along US 19 and Pinehurst Drive during the peak season and background conditions. With the project traffic added to the background traffic, it is estimated that the roadway segments within the vicinity of the project would continue to operate at an acceptable level of service.

(1) Source: FDOT Generalized Service Volume Tables.

(2) See Figure 5, Peak Season Traffic, of this report.

(2) See Figure 6, Background Traffic, of this report.

(3) See Figure 2, Project Traffic, of this report.

(4) See Figure 8, Background Plus Project Traffic, of this report.

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APPENDIX

APPENDIXCONCEPTUAL SITE PLAN



APPENDIXTRIP GENERATION

PERIOD SETTING

Analysis Name:

Daily

Project Name:

US 19 and Spring Hill Dr -2024

No:

Date:

11/27/2024

City:

State/Province:

Zip/Postal Code:

Country:

Client Name:

Analyst's Name:

Edition:

Trip Generation Manual, 11th

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
941 - Quick Lubrication Vehicle Shop (General Urban/Suburban)	Servicing Positions	3 ⁽⁰⁾	Weekday	Average 40	60 ⁽¹⁾ 50%	60 ⁽¹⁾ 50%	120 ⁽¹⁾
937 - Coffee/Donut Shop with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	3 ⁽⁰⁾	Weekday	Average 533.57	801 50%	800 50%	1601
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	5.5	Weekday	Average 467.48	1286 50%	1285 50%	2571
934 - Fast-Food Restaurant with Drive- Through Window - 1 (General Urban/Suburban)	1000 Sq. Ft. GFA	3.6	Weekday	Average 467.48	842 50%	841 50%	1683
720 - Medical-Dental Office Building - Stand-Alone (General Urban/Suburban)	1000 Sq. Ft. GFA	3.5	Weekday	Average 36	63 50%	63 50%	126

TRAFFIC REDUCTIONS

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
941 - Quick Lubrication Vehicle Shop	0 %	60	0 %	60
937 - Coffee/Donut Shop with Drive-Through Window	0 %	801	0 %	800
934 - Fast-Food Restaurant with Drive-Through Window	0 %	1286	0 %	1285
934 - Fast-Food Restaurant with Drive-Through Window - 1	0 %	842	0 %	841
720 - Medical-Dental Office Building	0 %	63	0 %	63
	941 - Quick Lubrication Vehicle Shop 937 - Coffee/Donut Shop with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through Window - 1	941 - Quick Lubrication Vehicle Shop 0 % 937 - Coffee/Donut Shop with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through 0 % Window - 1	941 - Quick Lubrication Vehicle Shop 0 % 60 937 - Coffee/Donut Shop with Drive-Through 0 % 801 Window 934 - Fast-Food Restaurant with Drive-Through 0 % 1286 Window 934 - Fast-Food Restaurant with Drive-Through 0 % 842 Window - 1	941 - Quick Lubrication Vehicle Shop 0 % 60 0 % 937 - Coffee/Donut Shop with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through 0 % 1286 0 % Window 934 - Fast-Food Restaurant with Drive-Through 0 % 842 0 % Window - 1

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

INTERNAL TRIPS

941 - 0	Quick Lubr	ication Vehicle	Shop			937 - Coffee/Don	ut Sh	op with Drive	-Throu Windo	
Exit	60	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	801
Entry	60	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	800
941 - 0	Quick Lubr	ication Vehicle	Shop			934 - Fast-	Food	Restaurant v Throug	vith Driv	0.000
Exit	60	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	1286
Entry	60	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	1285
941 - 0	Quick Lubr	ication Vehicle	Shop			934 - Fast-	Food	Restaurant v		100 Tol.
Exit	60	Demand Exit:	0 %	(0)	Balanced:	Demand Entry:	0 %	(0)	Entry	842
Entry	60	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	841
 941 - 0	Quick Lubr	ication Vehicle	Shop		100 100 April 100 100 100 100 100 100 100 100 100 10	720 - Me	dical	-Dental Offic	a Ruildi	ina
Exit	60	Demand Exit:	100.000 (100.00	(0)	Balanced:	Demand Entry:			Entry	
Entry	60	Demand Entry:	0 %	(0)	Balanced:	Demand Exit:	0 %		Exit	63
					O					
937 - 0 Windo		ut Shop with Dr	rive-Ti	nrough		934 - Fast-	Food	Restaurant v Throug	vith Driv h Wind	
Exit	800	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	1286
Entry	801	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	1285
937 - 0 Windo		ut Shop with Dr	rive-TI	hrough		934 - Fast-	Food	Restaurant v Through V		
Exit	800	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	842
Entry	801	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	841
937 - 0 Windo		ut Shop with Dr	rive-TI	hrough		720 - Me	edical	I-Dental Offic	e Buildi	ing
Exit	800	Demand Exit:	0 %	(0)	Balanced:	Demand Entry:	0 %	(0)	Entry	63
Entry	801	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	63
934 - F Windo		Restaurant with	Drive	-Through		934 - Fast-	Food	Restaurant v		-
Exit	1285	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	842
Entry	1286	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	841
934 - F Windo		Restaurant with	Drive	-Through		720 - M e	edical	I-Dental Offic	e Buildi	ng

Exit	1285	Dema	and Exit:	0% (0)	Baland 0		Dema	nd Entry:	0 %	(0)	Entry	63
Entry	1286	Dema	and Entry:	0 % (0)	Baland 0		Dema	nd Exit:	0 %	(0)	Exit	63
		n <u>-</u> a a a						*					
934 - F Windo		Restau	rant with	Drive-T	hrough				720 - Me	edical	-Dental O	office Buildi	ng
Exit	841	Dema	and Exit:	0 % (0)	Baland 0		Dema	nd Entry:	0 %	(0)	Entry	63
Entry	842	Dema	and Entry:	0% (0)	Baland 0		Dema	nd Exit:	0 %	(0)	Exit	63
			· · · · · · · · · · · · · · · · · · ·			_							
			n Vehicle	Shop		Ü							
			Nehicle										
		oricatio	1	Trips Conut th	934 - Fas Restaura with Drive Through Window	t-Food	934 - Fa Food Restaur with Dri Through Window	rant ive-	720 - Medical- Dental O Building	ffice	Total	External	l Trip
	Quick Lub	rication	937 - Coffee/D Shop wi Drive-Th	Trips Conut th	Restaura with Drive Through	t-Food	Food Restaur with Dri Through	rant ive-	Medical- Dental C	ffice	Total	External 60 (100%)	
941 - (Quick Lub	rips	937 - Coffee/E Shop wi Drive-Th Window	Trips Conut th	Restaura with Drive Through Window	t-Food	Food Restaur with Dri Through Window	rant ive-	Medical- Dental C Building	ffice			· %)

	Total Trips	Internal Trips					
		941 - Quick Lubrication Vehicle Shop	934 - Fast-Food Restaurant with Drive- Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	720 - Medical- Dental Office Building	Total	External Trips
Entry	801 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	801 (100%)
Exit	800 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	800 (100%)
Total	1601 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1601 (100%)

934 - Fast-Food Restaurant with Drive-Through Window

	Total Trips	Internal Trips	=				
		941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	720 - Medical- Dental Office Building	Total	External Trips
Entry	1286 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1286 (100%)
Exit	1285 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1285 (100%)
Total	2571 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	2571 (100%)

934 - Fast-Food Restaurant with Drive-Through Window - 1

	Total Trips	Internal Trips					
		941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window	720 - Medical- Dental Office Building	Total	External Trips
Entry	842 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	842 (100%)

Exit	841 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	841 (100%)
Total	1683 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1683 (100%)

720 - Medical-Dental Office Building

	Total Trips	Internal Trips					
		941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	Total	External Trips
Entry	63 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	63 (100%)
Exit	63 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	63 (100%)
Total	126 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	126 (100%)

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips
941 - Quick Lubrication Vehicle Shop	120	0	0	120
937 - Coffee/Donut Shop with Drive-Through Window	1601	50	801	800
934 - Fast-Food Restaurant with Drive-Through Window	2571	50	1286	1285
934 - Fast-Food Restaurant with Drive-Through Window - 1	1683	50	842	841
720 - Medical-Dental Office Building	126	0	0	126

ITE DEVIATION DETAILS

Weekday

Landuse

No deviations from ITE.

Methods

No deviations from ITE.

Weekday

External Trips

941 - Quick Lubrication Vehicle Shop (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

937 - Coffee/Donut Shop with Drive-Through Window (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.

934 - Fast-Food Restaurant with Drive-Through Window - 1 (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

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

SUMMARY

Total Entering	3052
Total Exiting	3049
Total Entering-Reduction	
Total Exiting Reduction	0
Total Entering Internal Capture Reduction	0
Total Exiting Internal Capture Reduction	0
Total Entering Pass-by Reduction	1464
Total Exiting Pass-by Reduction	1465
Total Entering Non-Pass-by Trips	1588
Total Exiting Non-Pass-by Trips	1584

PERIOD SETTING

Analysis Name:

AM Peak Hour

Project Name :

US 19 and Spring Hill Dr -2024

Date:

11/27/2024

City:

No:

State/Province:

Country:

Zip/Postal Code: Client Name:

Analyst's Name:

Edition:

Trip Generation Manual, 11th

	Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total
	941 - Quick Lubrication Vehicle Shop (General Urban/Suburban)	Servicing Positions	3(0)	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.		6 ⁽¹⁾ 67%	3 ⁽¹⁾ 33%	g ⁽¹⁾
* 17	937 - Coffee/Donut Shop with Drive- Through Window	1000 Sq. Ft. GFA		Weekday, Peak Hour of Adjacent Street Traffic.		132 51%	126 49%	258
	(General Urban/Suburban)			One Hour Between 7 and 9 a.m.				
	934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	5.5	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.		125 51%	120 49%	245
	934 - Fast-Food Restaurant with Drive- Through Window - 1 (General Urban/Suburban)	1000 Sq. Ft. GFA	3.6	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.		82 51%	79 49%	161
	720 - Medical-Dental Office Building - Stand-Alone (General Urban/Suburban)	1000 Sq. Ft. GFA	3.5	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.		9 75%	3 25%	12

TRAFFIC REDUCTIONS

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
941 - Quick Lubrication Vehicle Shop	0 %	6	0 %	3
937 - Coffee/Donut Shop with Drive-Through Window	0 %	132	0 %	126

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

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
934 - Fast-Food Restaurant with Drive-Through Window	0 %	125	0 %	120
934 - Fast-Food Restaurant with Drive-Through Window - 1	0 %	82	0 %	79
720 - Medical-Dental Office Building	0 %	9	0 %	3

INTERNAL TRIPS

941 - 0	Quick Lubr	rication Vehicle	Shop			937 - Coffee/Don	ut Sh	op with Drive	-Throug	
Exit	3	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	132
Entry	6	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	126
941 - 0	Quick Lubr	rication Vehicle	Shop			934 - Fast-	Food	Restaurant w		
 Exit	3	Demand Exit:	0 %	(0)	 Balanced:	Demand.Entry:	0.%	(0)	Entry	125
Entry	6	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	120
941 - 0	Quick Lubr	rication Vehicle	Shop			934 - Fast-	Food	Restaurant w Through W		
Exit	3	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	82
Entry	6	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	79
941 - 0	Quick Lubr	rication Vehicle	Shop		SI SI	720 - Me	edical	-Dental Office	Buildi	ng
Exit	3	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	9
Entry	6	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	3
937 - 0 Windo		nut Shop with D	rive-T	hrough		934 - Fast-	Food	Restaurant v Throug		A CONTRACTOR OF THE PARTY OF TH
Exit	126	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	125
Entry	132	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	120
937 - 0 Windo		nut Shop with D	rive-T	hrough		934 - Fast-	Food	Restaurant v Through V		Contract of the Contract of th
Exit	126	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	82
Entry	132	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	79
937 - 0 Windo		nut Shop with D	rive-T	hrough		720 - M	edical	I-Dental Offic	e Buildi	ng
Exit	126	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	9

Entry	132	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	3
934 - F Windo		Restaurant with	Drive	-Through		934 - Fast-	Food	Restaurant w Through W		-
Exit	120	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	82
Entry	125	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	79
934 - F Windo		Restaurant with	Drive	-Through		720 - Me	edical	-Dental Office	Buildi	ng
Exit	120	Demand Exit:	0 %	(0)	Balanced:	Demand Entry:	0 %	(0)	Entry	9
Entry	125	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	3
934 - F Windo		Restaurant with	Drive	-Through		720 - Me	edical	-Dental Office	Buildi	ng
Exit	79	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	9
Entry	82	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	3

941 - Quick Lubrication Vehicle Shop

	to the control of the	Internal Trips	the at the section of the property	or a second of the second	equire	and the same	The section of the se
	Total Trips	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast-Food Restaurant with Drive-Through Window		720 - Medical- Dental Office Building	Total	External Trips
Entry	6 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	6 (100%)
Exit	3 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	3 (100%)
Total	9 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	9 (100%)

937 - Coffee/Donut Shop with Drive-Through Window

		Internal Trips					
	Total Trips	941 - Quick Lubrication Vehicle Shop	934 - Fast-Food Restaurant with Drive-Through Window		720 - Medical- Dental Office Building	Total	External Trips
Entry	132 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	132 (100%)
Exit	126 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	126 (100%)
Total	258 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	258 (100%)

934 - Fast-Food Restaurant with Drive-Through Window

		Internal Trips						
	Total Trips	941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	720 - Medical- Dental Office Building	Total	External Trips	
Entry	125 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	125 (100%)	
Exit	120 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	120 (100%)	

Action to the second	Torring the second seco	T			-T		
Total	245 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	245 (100%)

934 - Fast-Food Restaurant with Drive-Through Window - 1

		Internal Trips						
	Total Trips	941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window	720 - Medical- Dental Office Building	Total	External Trips	
Entry	82 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	82 (100%)	
Exit	79 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79 (100%)	
Total	161 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	161 (100%)	

720 - Medical-Dental Office Building

		Internal Trips					
	Total Trips	941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	Total	External Trips
Entry	9 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	9 (100%)
Exit	3 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	3 (100%)
Total	12 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	12 (100%)

EXTERNAL TRIPS

Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips	
941 - Quick Lubrication Vehicle Shop	9	0	0	9	
937 - Coffee/Donut Shop with Drive-Through Window	258	50	129	129	
934 - Fast-Food Restaurant with Drive-Through Window	245	50	123	122	
934 - Fast-Food Restaurant with Drive-Through Window - 1	161	50	81	80	
720 - Medical-Dental Office Building	12	0	0	12	

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 941 - Quick Lubrication Vehicle Shop (General Urban/Suburban)

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

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

937 - Coffee/Donut Shop with Drive-Through Window (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.

934 - Fast-Food Restaurant with Drive-Through Window - 1 (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

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

SUMMARY

354
331
0
0
0
0
169
164
185
167

PERIOD SETTING

Analysis Name:

PM Peak Hour

Project Name :

US 19 and Spring Hill Dr -

2024

Date:

11/27/2024

City:

No:

State/Province:

Zip/Postal Code:

Country:

Client Name:

Analyst's Name:

Edition:

Trip Generation Manual, 11th

Ed

Land Use	Independent Variable	Size	Time Period	Method	Entry	Exit	Total	
941 - Quick Lubrication Vehicle Shop (General Urban/Suburban)	Servicing Positions	3	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Average 4.85	8 53%	7 47%	15	
937 - Coffee/Donut Shop with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	3	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	9	59 50%	58 50%	117	
934 - Fast-Food Restaurant with Drive- Through Window (General Urban/Suburban)	1000 Sq. Ft. GFA	5.5	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.		95 52%	87 48%	182	
934 - Fast-Food Restaurant with Drive- Through Window - 1 (General Urban/Suburban)	1000 Sq. Ft. GFA	3.6	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.		62 52%	57 48%	119	
720 - Medical-Dental Office Building - Stand-Alone (General Urban/Suburban)	1000 Sq. Ft. GFA	3.5	Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.	Best Fit (LIN) T = 4.07 (X)+-3.17	3 27%	8 73%	11	

TRAFFIC REDUCTIONS

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
941 - Quick Lubrication Vehicle Shop	0 %	8	0 %	7
937 - Coffee/Donut Shop with Drive-Through Window	0 %	59	0 %	58
934 - Fast-Food Restaurant with Drive-Throug Window	h 0%	95	0 %	87

Land Use	Entry Reduction	Adjusted Entry	Exit Reduction	Adjusted Exit
934 - Fast-Food Restaurant with Drive-Through Window - 1	0 %	62	0 %	57
720 - Medical-Dental Office Building	0 %	3	0 %	8

INTERNAL TRIPS

941 - 0	Quick Lubr	ication Vehicle S	Shop			937 - Coffee/Don	ut Sh	op with Drive	-Throug	
Exit	7	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	59
Entry	8	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	58
941 - 0	Quick Lubr	rication Vehicle	Shop			934 - Fast-	Food	Restaurant w		
Exit	7	Demand Exit:	0 %	(0)	Balanced:	Demand Entry:	0 %	(0)	Entry	95
Entry	8	Demand Entry:	0 %	(0)	Balanced:	Demand Exit:	0 %	(0)	Exit	87
941 - 0	Quick Lubr	rication Vehicle	Shop			934 - Fast-	Food	Restaurant w Through W		
Exit	7	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	62
Entry	8	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	57
941 - 0	Quick Lubi	rication Vehicle	Shop			720 - Me	edical	I-Dental Office	Buildi	ng
Exit	7	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	3
Entry	8	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	8
937 - 0 Windo		nut Shop with Dr	ive-T	hrough		934 - Fast-	Food	Restaurant w		
Exit	58	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	95
Entry	59	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	87
937 - 0 Windo		nut Shop with Di	rive-T	hrough		934 - Fast-	Food	Restaurant w		ROTE I
Exit	58	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	62
Entry	59	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	57
937 - 0 Windo		nut Shop with Di	rive-T	hrough		720 - Me	edica	I-Dental Office	Buildi	ng
Exit	58	Demand Exit:	0 %	(0)	Balanced:	Demand Entry:	0 %	(0)	Entry	3
Entry	59	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	8

934 - F Windo		Restaurant with	Drive	-Through		934 - Fast-	Food	Restaurant w Through W			
Exit	87	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	62	
Entry	95	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	57	
934 - F Windo		Restaurant with	Drive	-Through		720 - Me	edical	-Dental Office	Buildir	ng	
Exit	87	Demand Exit:	0 %	(0)	Balanced: 0	Demand Entry:	0 %	(0)	Entry	3	
Entry	95	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	8	
934 - F Windo		Restaurant with	Drive	-Through		720 - M e	edical	-Dental Office	Buildir	ng	
Exit	57	Demand Exit:	0 %	(0)	Balanced:	Demand Entry:	0 %	(0)	Entry	3	
Entry	62	Demand Entry:	0 %	(0)	Balanced: 0	Demand Exit:	0 %	(0)	Exit	8	

941 - Quick Lubrication Vehicle Shop

	Total Trips	Internal Trips					
No. 10 at the Sour		937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast-Food Restaurant with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	720 - Medical- Dental Office Building	Total	External Trips
Entry	8 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	8 (100%)
Exit	7 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	7 (100%)
Total	15 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	15 (100%)

937 - Coffee/Donut Shop with Drive-Through Window

	The second secon	Internal Trips						
	Total Trips	941 - Quick Lubrication Vehicle Shop	934 - Fast-Food Restaurant with Drive-Through Window		720 - Medical- Dental Office Building	Total	External Trips	
Entry	59 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	59 (100%)	
Exit	58 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	58 (100%)	
Total	117 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	117 (100%)	

934 - Fast-Food Restaurant with Drive-Through Window

		Internal Trips					
	Total Trips	941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	720 - Medical- Dental Office Building	Total	External Trips
Entry	95 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	95 (100%)
Exit	87 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	87 (100%)
Total	182 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	182 (100%)

934 - Fast-Food Restaurant with Drive-Through Window - 1

		Internal Trips					
	Total Trips	941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window	720 - Medical- Dental Office Building	Total	External Trips
Entry	62 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	62 (100%)
Exit	57 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	57 (100%)
Total	119 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	119 (100%)

720 - Medical-Dental Office Building

		Internal Trips					
	Total Trips	941 - Quick Lubrication Vehicle Shop	937 - Coffee/Donut Shop with Drive-Through Window	934 - Fast- Food Restaurant with Drive- Through Window	934 - Fast- Food Restaurant with Drive- Through Window - 1	Total	External Trips
Entry	3 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	3 (100%)
Exit	8 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	8 (100%)
Total	11 (100%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	11 (100%)

EXTERNAL TRIPS

941 - Quick Lubrication Vehicle Shop 15 0 0 15 937 - Coffee/Donut Shop with Drive-Through Window 117 55 64 53 934 - Fast-Food Restaurant with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through 119 55 65 54 Window - 1						
937 - Coffee/Donut Shop with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through 119 55 65 54 Window - 1	Land Use	External Trips	Pass-by%	Pass-by Trips	Non-pass-by Trips	
Window 934 - Fast-Food Restaurant with Drive-Through Window 934 - Fast-Food Restaurant with Drive-Through 182 934 - Fast-Food Restaurant with Drive-Through 119 55 65 54	941 - Quick Lubrication Vehicle Shop	15	0	0	15	
Window 934 - Fast-Food Restaurant with Drive-Through Window - 1 700 Market Broad Restaurant with Drive States St		117	55	64	53	
Window - 1		182	55	100	82	
720 - Medical-Dental Office Building		119	55	65	54	
The investment of the state of	720 - Medical-Dental Office Building	11	0	0	11	

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.

External Trips

941 - Quick Lubrication Vehicle Shop (General Urban/Suburban)

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

937 - Coffee/Donut Shop with Drive-Through Window (General Urban/Suburban)

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

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.

934 - Fast-Food Restaurant with Drive-Through Window - 1 (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

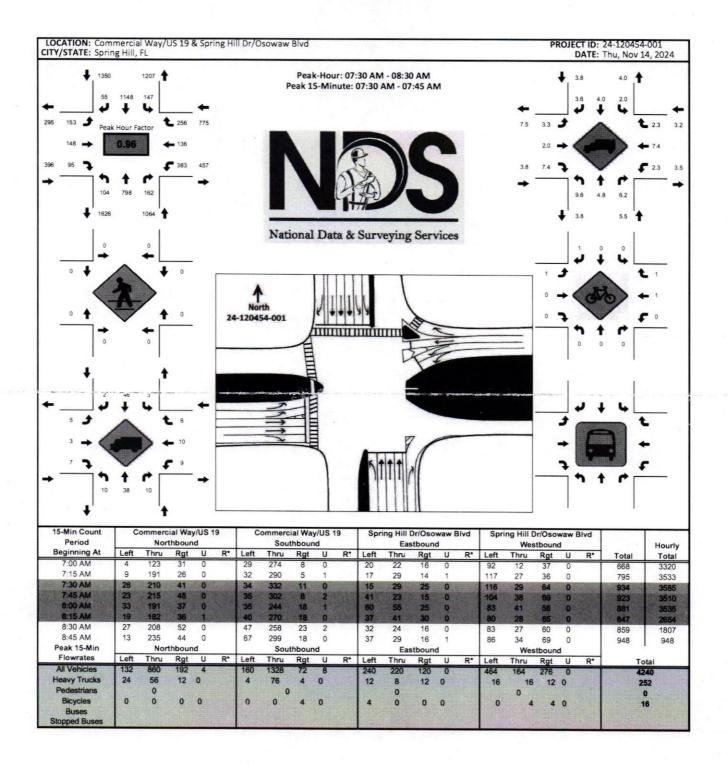
720 - Medical-Dental Office Building - Stand-Alone (General Urban/Suburban) ITE does not recommend a particular pass-by% for this case.

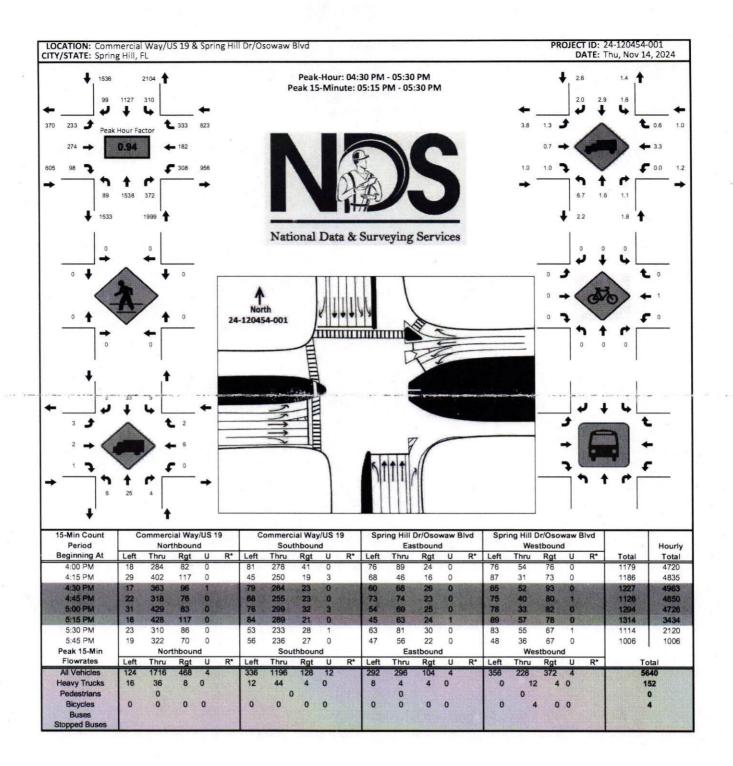
SUMMARY

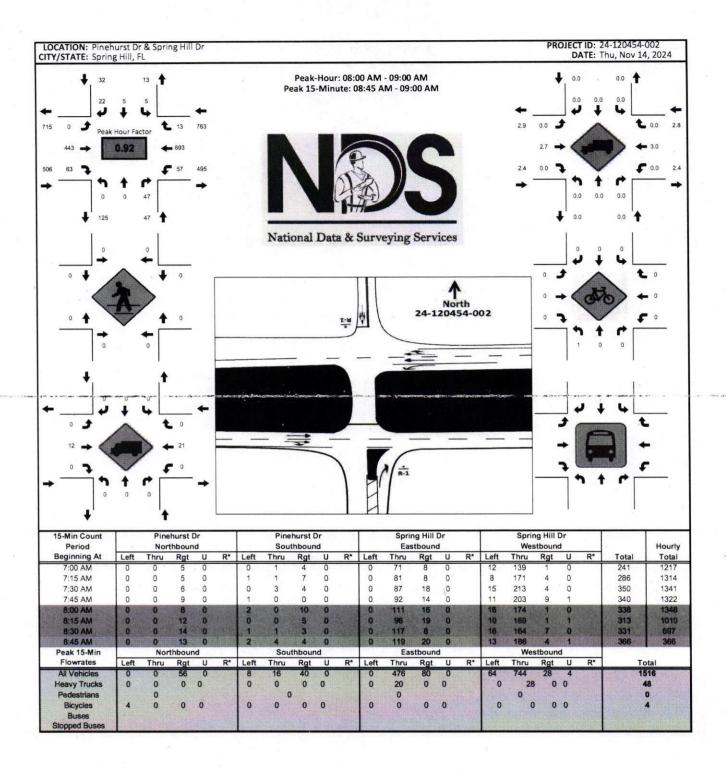
Total Entering		227	
Total Exiting		217	
Total Entering Reduction		0	
Total Exiting Reduction		0	
Total Entering Internal Capture Reduction		0	
Total Exiting Internal Capture Reduction	Annual to the season of the season of the season of	<u> </u>	
Total Entering Pass-by Reduction		118	
Total Exiting Pass-by Reduction		111	
Total Entering Non-Pass-by Trips		109	
Total Exiting Non-Pass-by Trips		106	

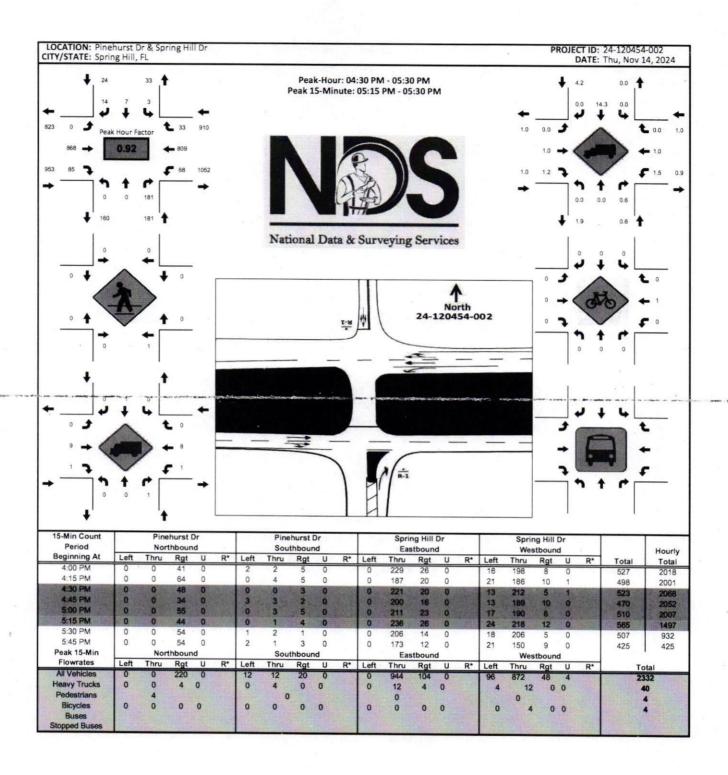
ITE PASSERBY RATES

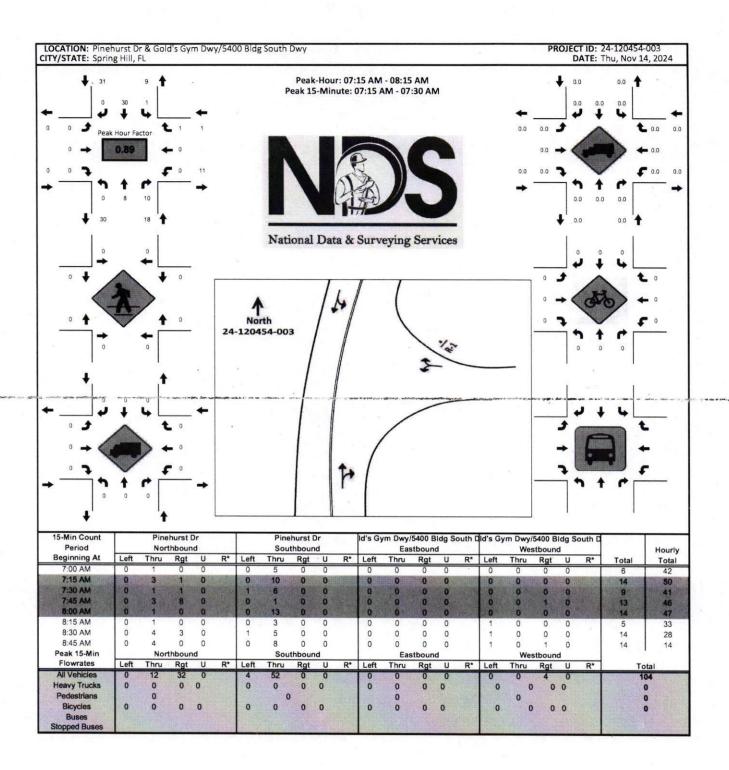
TURNING MOVEMENT COUNTS

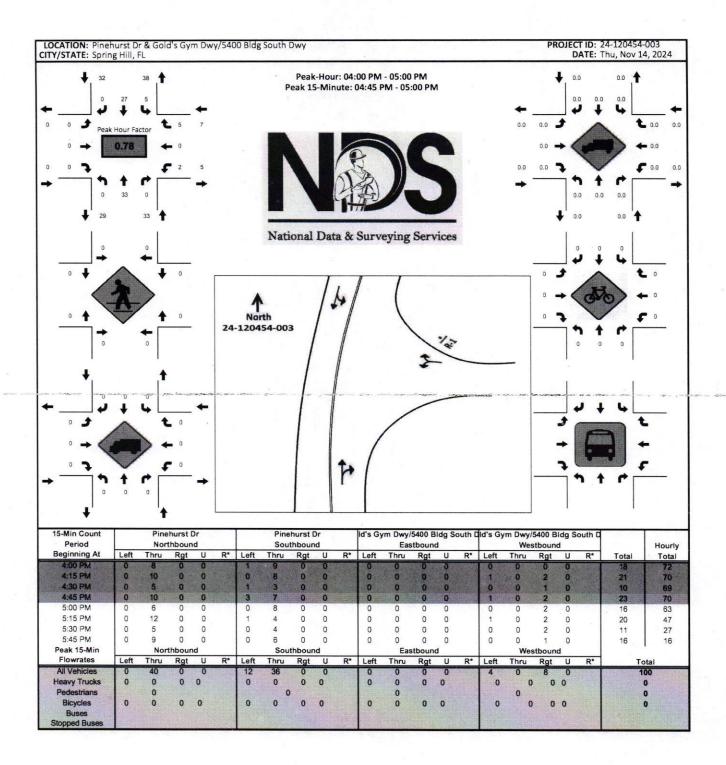


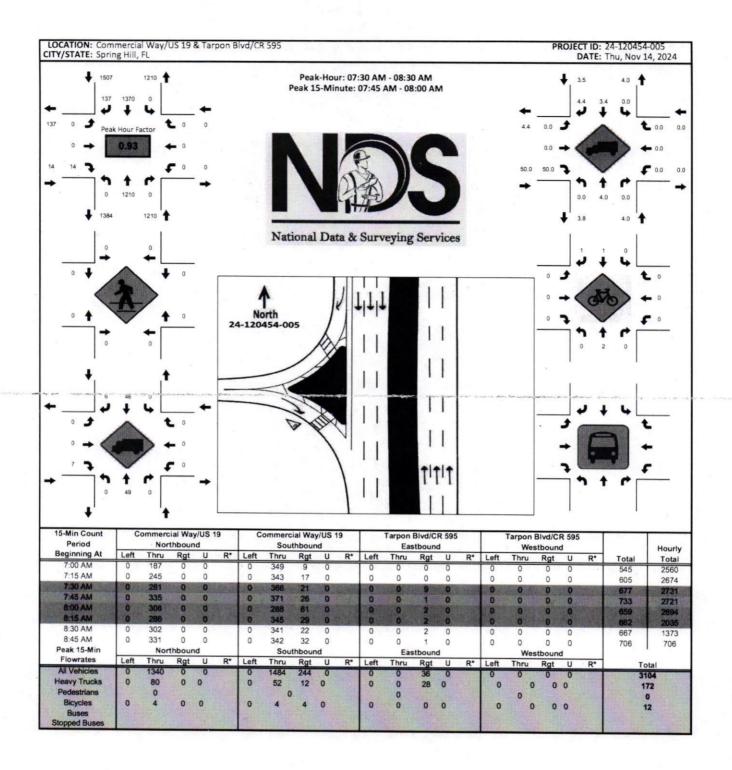


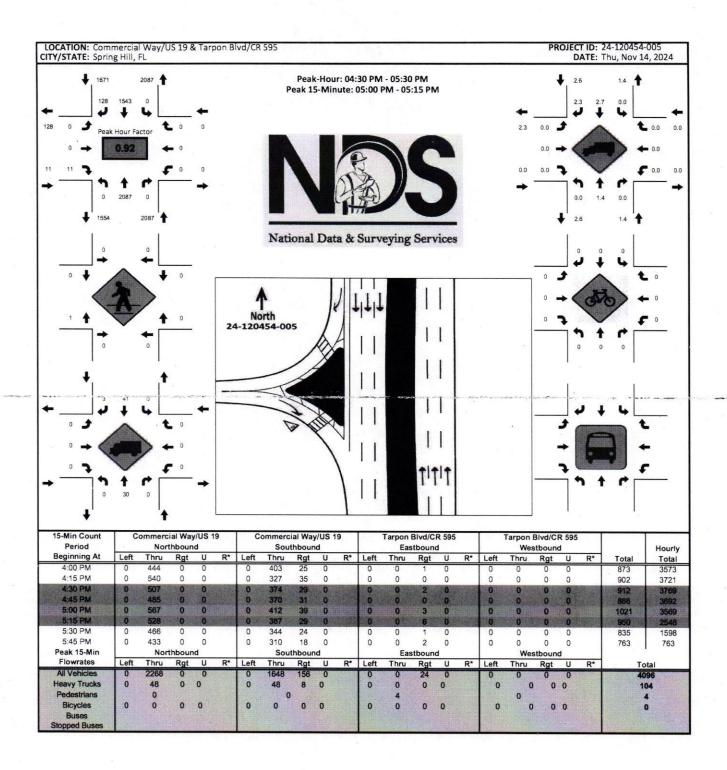












FDOT PEAK SEASON ADJUSTMENT FACTORS

2023 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 0800 HERNANDO COUNTYWIDE

OHILDOO	ALL COURT INDIVIDUO COUNTY	INIDE	MOCF: 0.96	
WEEK	DATES ***	SF ==========	PSCF =========	
1 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 2 1 2 2 3 4 5 6 7 8 9 0 2 1 2 2 3 4 5 6 7 8 9 0 2 1 2 2 3 4 5 6 7 8 9 0 2 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 2 3 4 5 6 7 8 9 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	01/01/2023 - 01/07/2023 01/08/2023 - 01/14/2023 01/15/2023 - 01/21/2023 01/22/2023 - 01/28/2023 01/29/2023 - 02/04/2023 02/05/2023 - 02/11/2023 02/12/2023 - 02/11/2023 02/12/2023 - 02/18/2023 02/12/2023 - 02/25/2023 02/26/2023 - 03/04/2023 03/05/2023 - 03/11/2023 03/12/2023 - 03/18/2023 03/19/2023 - 03/25/2023 03/19/2023 - 03/25/2023 03/19/2023 - 04/01/2023 04/02/2023 - 04/08/2023 04/09/2023 - 04/08/2023 04/16/2023 - 04/22/2023 04/16/2023 - 04/22/2023 04/30/2023 - 05/06/2023 05/07/2023 - 05/06/2023 05/07/2023 - 05/20/2023 05/21/2023 - 05/20/2023 05/21/2023 - 06/03/2023 06/04/2023 - 06/03/2023 06/04/2023 - 06/17/2023 06/11/2023 - 06/17/2023 06/11/2023 - 06/17/2023 06/11/2023 - 06/17/2023 06/11/2023 - 06/17/2023 06/11/2023 - 06/24/2023 06/25/2023 - 07/01/2023	0.97 0.97 0.98 0.99 0.99 1.00 1.01 1.02 1.04 1.05 1.05	1.04 1.05 1.05 1.04 1.03 1.02 1.01 1.00 0.99 0.98 0.97 0.98 0.99 1.00 1.01 1.01 1.02 1.03 1.03 1.04 1.05 1.06 1.08 1.09 1.09	
28 29 31 32 33 34 35 36 37 38 39 41 42 43 44 45 47 48	07/09/2023 - 07/15/2023 07/16/2023 - 07/22/2023 07/23/2023 - 07/29/2023 07/30/2023 - 08/05/2023 08/06/2023 - 08/12/2023 08/13/2023 - 08/12/2023 08/20/2023 - 08/26/2023 08/27/2023 - 09/02/2023 09/03/2023 - 09/09/2023 09/10/2023 - 09/16/2023 09/17/2023 - 09/23/2023 09/17/2023 - 09/23/2023 09/24/2023 - 09/30/2023 10/01/2023 - 10/07/2023 10/08/2023 - 10/21/2023 10/22/2023 - 10/28/2023 10/29/2023 - 11/14/2023 11/12/2023 - 11/11/2023 11/12/2023 - 11/11/2023 11/12/2023 - 11/18/2023 11/19/2023 - 11/25/2023 11/19/2023 - 11/25/2023	1.05 1.05 1.05 1.06 1.06 1.06 1.05 1.04 1.04 1.03 1.02 1.01 1.01 1.00	1.09 1.09 1.09 1.10 1.10 1.10 1.10 1.09 1.08 1.08 1.07 1.06 1.05 1.05 1.05 1.04 1.04 1.03 1.03 1.03 1.03 1.03	Control of the Contro
49 50 51 52 53	12/03/2023 - 12/09/2023 12/10/2023 - 12/16/2023 12/17/2023 - 12/23/2023 12/24/2023 - 12/30/2023 12/31/2023 - 12/31/2023	0.99 1.00 1.00 1.01 1.01	1.03 1.04 1.04 1.05 1.05	

^{*} PEAK SEASON

FDOT HISTORICAL COUNTS

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2023 HISTORICAL AADT REPORT

COUNTY: 08 - HERNANDO

SITE: 0036 - SR 55/US 19, N OF SPRING HILL DRIVE

OR T FACTOR	0	4.10	4.10	80 4.10	3.50	3.40	3.90	3.90	3.90	3.70	3.80	3.50	3.50	3.30	3.30	3.90
D FACTOR	54.8	54.5	54.2	54.3	54.3	54.4	55.6	54.8	55.0	56.00	57.9	55.00	55.00	54.6	55.4	54.9
*K FACTOR	9.00	00.6	00.6	00.6	00.6	00.6	00.6	00.6	00.6	9.00	00.6	00.6	00.6	9.74	09.6	9.72
DIRECTION 2		S 24000	S 22000	S 22500	S 21000	S 21000	S 23000	S 21500	S 20500	S 19500	s 19500	S 19500	S 19500	S 19000	S 19000	S 17500
DIRECTION 1	N 21000	N 22000	N 23000	N 23000	N 22000	N 22000	N 23000	N 21500	N 20500	N 20000	N 20000	N 21000	N 21000	N 20000	N 20000	N 17500
AADT	41000 C	46000 C	45000 C	45500 C	43000 C	43000 C	46000 F	43000 C	41000 C	39500 C	39500 C	40500 F	40500 C	39000 C	39000 C	35000 C
YEAR	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES *K FACTOR:

SIGNAL TIMINGS

Hernando County, FL

MOVING TRAFFIC FORWARD

2 - Commercial Wy @ Spring Hill Dr - 192.168.150.243 - Econolite Type - ASC/3

Controller Timing Plan (MM) 2-1

Plan 1

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Direction				-												1.7
Min Green	5	20	5	10	5	20	5	10	0	0	0	0	0	0	0	0
Bk Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CS Min Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delay Green	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk	0	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Walk2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walk Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear	0	50	0	35	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped Clear Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ped CO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle Ext	3.0	4.0	4.0	3.0	3.5	4.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vehicle Ext 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max1	35	60	15	35	35	35	15	35	0	0	0	0	0	0	0	0
Max2	15	50	15	20	15	50	15	20	0	0	0	0	0	0	0	0
Max3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DYM Max	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dym Step	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	5.6	5.6	4.5	4.5	5.6	5.6	4.5	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Red Clear	2.6	2.6	3.5	3.5	2.6	2.6	3.5	3.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Red Max	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Revert	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Act B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sec/Act	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Int	30	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0
Time B4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cars Wt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STPTDuc	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TTReduc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Hernando County, FL

MOVING TRAFFIC FORWARD

2 - Commercial Wy @ Spring Hill Dr - 192.168.150.243 - Econolite Type - ASC/3

Coordination Pattern Data Coordinator Pattern Data (MM) 3-2

Coordinator Pattern # 1

Split Pattern 1 TS2 (Pat-Off) 0-1 Splits In Seconds Cycle 120 Std (COS) 9 Offsets In Seconds

Offset Value 91s Dwell/Add Time 0 Actuated Coord Yes Timing Plan 0

Actuated Walk No Sequence 2

Phase No Action Plan 0

Max Select None Force Off None

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description									6 1							
Splits (Split Pat 1)	20	50	22	28	24	46	28	22	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4	Misc. Data		
Ring Split Ext	0	0	0	0			Veh Perm 2 Disp 0
Ring Displacement	-	0	0	0	Split Demand 0	Split Demand 0	Crossing Arterial 0
Split Sum	1205	1205	Os	Os			

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase		Х				Х					-					
Vehicle Recall						7	144			1						
Pedestrian Recall																
Recall to Max. Time		Х				х								à		
Omit Phase													Х	X	X	Х
Special Funciton Outputs														11		

Coordinator Pattern # 2

Split Pattern

Cycle

2

TS2 (Pat-Off)

0-2 Std (COS) 10

Splits In Seconds Offsets In Seconds

Offset Value

140 55s

Dwell/Add Time 0

Actuated Coord Yes

Actuated Walk

Timing Plan

Rest

Sequence

Phase Reservice

No

Action Plan

0

Max Select

None

Force Off

None

Split Preference Phases

- p			_				_									
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description												-				
Splits (Split Pat 2)	20	65	25	30	30	55	30	25	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Displacement		0	0	0
Split Sum	140s	140s	0s	0s

Misc. Data

Pat 1

Veh Perm 1 0 Split Demand 0

Veh Perm 2 0 Split Demand 0

Veh Perm 2 Disp 0 Crossing Arterial

Pat

Pat 2

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase	·	X	_	-		X	·	-			•••	12	10		10	-
Vehicle Recall																
Pedestrian Recall																
Recall to Max. Time		Х				х										
Omit Phase													X	Х	Х	Х
Special Funciton	1000							100								

Coordinator Pattern # 3

Split Pattern

3

TS2 (Pat-Off)

Splits In Seconds Offsets In Seconds

Cycle 140 Offset Value

59s

Std (COS) 82

Dwell/Add Time 0

Actuated Coord Yes

Timing Plan

Actuated Walk No

Sequence 1

Rest Phase

Action Plan

0

0

0-3

Reservice Max Select No None

Force Off

None

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 3)	20	67	25	28	28	59	28	25	0	0	0	0	0	0	0	0

Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	0
Pref 2	0	0	0	0	0	0	0	0.	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Displacement	-	0	0	0
Split Sum	140s	140s	0s	0s

Misc. Data		
Veh Perm 1 0	Veh Perm 2 0	Veh Perm 2 Disp 0
Split Demand 0 Pat 1	Split Demand 0 Pat 2	Crossing Arterial 0

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase		Х				Х	77									
Vehicle Recall																
Pedestrian Recall																
Recall to Max. Time		Х				х										
Omit Phase													X	X	Х	X
Special Funciton Outputs																

Coordinator Pattern # 4

Split Pattern 4 TS2 (Pat-Off) 1-1 Splits In Seconds Cycle 110 Std (COS) 12 Offsets In Seconds

Offset Value 55s Dwell/Add Time 0

Actuated Coord Yes Timing Plan 0

Actuated Walk No Sequence 4

Phase No Action Plan 0

Max Select None Force Off None

Split Preference Phases

opiner reference		uoo														
Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description						The state of						0.01				
Splits (Split Pat 4)	20	48	20	22	20	48	20	22	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4	Misc. Data		
Ring Split Ext	0	0	0	0			Veh Perm 2 Disp 0
Ring Displacement	-	0	0	0	Split Demand 0 Pat 1	Split Demand 0 Pat 2	Crossing Arterial 0
Split Sum	110s	110s	0s	0s			

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase		Х				X					-					
Vehicle Recall																
Pedestrian Recall		277 74									166		0.0			
Recall to Max. Time		Х				х										
Omit Phase						= ,							Х	X	Х	X
Special Funciton Outputs																

Coordinator Pattern # 5

Split Pattern 5 TS2 (Pat-Off) 1-2 Splits In Seconds Cycle 140 Std (COS) 154 Offsets In Seconds

Offset Value 55s Dwell/Add Time 0
Actuated Coord Yes Timing Plan 0

Actuated Walk No Sequence 1

Phase Reservice No Action Plan 0

Max Select None Force Off None

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description																
Splits (Split Pat 5)	25	58	27	30	30	53	32	25	0	0	0	0	0	0	0	0

Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0.	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Displacement	-	0	0	0
Split Sum	140s	140s	0s	0s

Misc. Data					
Veh Perm 1	0	Veh Perm 2	0	Veh Perm 2 Disp 0	
Split Demand Pat 1	0	Split Demand Pat 2	0	Crossing Arterial 0	

Split Pattern

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase		Х				Х		779	2		7					
Vehicle Recall												CK.				
Pedestrian Recall	1000															
Recall to Max. Time		Х				х										
Omit Phase													X	Х	X	X
Special Funciton Outputs																

Coordinator Pattern # 6

Split Pattern

6

TS2 (Pat-Off)

1-3 Std (COS) 81

Splits In Seconds Offsets In Seconds

Cycle Offset Value

120 91s

Actuated Coord Yes

Dwell/Add Time 0

Actuated Walk

Timing Plan

Rest

Reservice Max Select

Sequence

Phase

No

Action Plan

None

Force Off

0

Split Preference Phases

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Description									7/							
Splits (Split Pat 6)	20	50	22	28	24	46	28	22	0	0	0	0	0	0	0	0
Pref 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pref 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

None

Ring	1	2	3	4
Ring Split Ext	0	0	0	0
Ring Displacement		0	0	0
Split Sum	120s	120s	0s	0s

Misc. Data

Pat 1

Split Demand 0

Split Demand 0

Veh Perm 1 0 Veh Perm 2 0 Veh Perm 2 Disp 0 Crossing Arterial 0

Pat 2 Pat

Split Dattorn

Phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Coord Phase		Х				Х							-1			
Vehicle Recall															*	
Pedestrian Recall																
Recall to Max. Time		Х				х										
Omit Phase													Х	Х	Х	Х
Special Funciton Outputs					- Set Set											

INTERSECTION ANALYSIS

	٠	→	•	1	-	*	1	†	-	-	↓	1
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	^	7	ሻሻ	1	7	7	^	7	ሻሻ	^	7
Traffic Volume (vph)	190	148	93	472	160	290	104	899	162	180	1180	62
Future Volume (vph)	190	148	93	472	160	290	104	899	162	180	1180	62
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	12
Grade (%)		0%			0%	No. of the London		0%			0%	
Storage Length (ft)	400	Market Hard California	150	0	STATE OF THE PARTY OF	0	500	THE RESERVE OF THE PARTY OF THE	550	350	THE RESERVE OF THE PERSON	545
Storage Lanes	2		1	2		S STEP	1		1	2		
Taper Length (ft)	25			25			25			25		
Right Turn on Red			Yes		0.00	Yes	12 16 10	150 260	Yes			Yes
Link Speed (mph)		30		The same of the same	40			55			55	NO. MELLOCATION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PER
Link Distance (ft)		1000	A. 1837.	330	300			1000			1180	
Travel Time (s)	ent of the same of	22.7	and an analysis sharper co	AND DESCRIPTION OF THE PERSON	5.1	and Children and		12.4			14.6	WHEN THE
Confl. Peds. (#/hr)			1000					Sex	1			
Confl. Bikes (#/hr)			7									THE REAL PROPERTY.
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Growth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Heavy Vehicles (%)	3%	2%	7%	2%	7%	2%	10%	5%	6%	2%	4%	4%
Bus Blockages (#/hr)	0	0	. 0	0	0	0	0	0	0	0	0	
Parking (#/hr)										Marie S		
Mid-Block Traffic (%)	I CONTRACTOR CONTRACTO	0%			0%	CONTRACTOR		0%	CONTRACTOR OF THE PARTY OF THE		0%	
Shared Lane Traffic (%)			60 60 60 60					45.00				4
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	3	8		7	4			6		5	2	
Permitted Phases	SUBSTITUTE WHITE AT LESS	CONTROL MICHELL	8	Olivora establish	SCHOOL STATE	4		MANAGEMENT AND ADDRESS OF THE PARTY OF THE P	6	AND DESCRIPTION	NACOTERNA DE	2
Detector Phase	3	8	8	1	4	4	5 1	6	6	5	2	
Switch Phase					NAME OF TAXABLE PARTY.	No.				THE REAL PROPERTY.		CONTRACTOR OF THE PARTY OF THE
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	20.0	20.0	5.0	20.0	20.0
Minimum Split (s)	14.0	18.0	18.0	14.0	18.0	18.0	14.0	28.2	28.2	14.0	28.2	28.2
Total Split (s)	22.0	22.0	22.0	28.0	28.0	28.0	20.0	46.0	46.0	24.0	50.0	50.0
Total Split (%)	18.3%	18.3%	18.3%	23.3%	23.3%	23.3%	16.7%	38.3%	38.3%	20.0%	41.7%	41.7%
Yellow Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	5.6	5.6	5.6	5.6	5.6	5.6
All-Red Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6
Lost Time Adjust (s)	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 Lost Time (s)	8.0	8.0	8.0	8.0	8.0	8.0	8.2	8.2	8.2	8.2	8.2	8.2
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	C-Min	C-Mir
Act Effct Green (s)	11.9	11.5	11.5	20.3	19.9	19.9	11.6	43.9	43.9	11.9	44.2	44.2
Actuated g/C Ratio	0.10	0.10	0.10	0.17	0.17	0.17	0.10	0.37	0.37	0.10	0.37	0.37
v/c Ratio	0.59	0.46	0.30	0.85	0.57	0.66	0.68	0.52	0.25	0.55	0.67	0.09
Control Delay	58.7	55.5	2.4	62.7	54.5	18.6	74.0	31.8	3.6	57.6	34.6	0.3
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	58.7	55.5	2.4	62.7	54.5	18.6	74.0	31.8	3.6	57.6	34.6	0.3
LOS	Е	Е	Α	E	D	В	E	С	А	Е	С	-
Approach Delay		45.4			47.4			31.6			36.0	
Approach LOS		D			D			С			D	

Other				
	MINISTER AND			
renced to phase 2:SBT and 6:NB	BT, Start of Green		THE REPORT OF THE PARTY OF THE	
ted-Coordinated	TANK THE PROPERTY.			146
	Intersection	n LOS: D		计一维。
	ICU Level	of Service D		
1) 15	AST AND STREET	A Mill Late		
1: US 19 & Spring Hill Dr				
Ø2 (R)		≯ _{Ø3}	Ø4	
1 1 00 (R)		€ 07	₹ 08	
	gth: 120 renced to phase 2:SBT and 6:Ne ted-Coordinated 0.85 Delay: 38.4 y Utilization 77.4% 1) 15 1: US 19 & Spring Hill Dr	gth: 120 renced to phase 2:SBT and 6:NBT, Start of Green ted-Coordinated 0.85 Delay: 38.4 y Utilization 77.4% ICU Level 1) 15 1: US 19 & Spring Hill Dr	gth: 120 renced to phase 2:SBT and 6:NBT, Start of Green ted-Coordinated 0.85 Delay: 38.4 y Utilization 77.4% ICU Level of Service D 1: US 19 & Spring Hill Dr	gth: 120 renced to phase 2:SBT and 6:NBT, Start of Green ted-Coordinated 0.85 Delay: 38.4 y Utilization 77.4% ICU Level of Service D 1: US 19 & Spring Hill Dr

Intersection	ie objet				100		
Int Delay, s/veh	1.2					N. S. Jack	
Movement	WBI	WBR	BR NE	TIN	VBR	SRI	SBT
Lane Configurations	1	7	7 44	4	7	*	^
Traffic Vol, veh/h	25		48 126		100	66	1423
Future Vol, veh/h	25		AND DESCRIPTION OF THE PERSON		100	66	1423
Conflicting Peds, #/hr	0		0	0	0	0	0
Sign Control	Stop	Stop	op Fre	e F	ree	Free	Free
RT Channelized		OF THE PARTY	-	-	lone		Free
Storage Length	0	and the second	0	-	405	405	
Veh in Median Storage	,# 2			0		SE SECTION AND ADDRESS OF THE PARTY OF THE P	0
Grade, %	0		-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	4	2	2	4
Mymt Flow	26	51	51 13	32	105	69	1498
					No. William		
VENNER	-	Sa saoit				201-0	
STATE OF STA	Minor1	000	Majo			Major2	
Conflicting Flow All	2069		NAME AND ADDRESS OF THE OWNER, WHEN PARTY AND AD	0	0	1437	0
Stage 1	1332						TO SERVICE
Stage 2	737			000000	-	THE WAY	ACCOUNTS NAME
Critical Hdwy	5.74	STATE OF THE PARTY	NESS THE RESIDENCE SE			5.34	
Critical Hdwy Stg 1	6.64			-	-	-	-
Critical Hdwy Stg 2	6.04			1	2		
Follow-up Hdwy	3.82			-	-	0	-
Pot Cap-1 Maneuver	86		45			239	(T)
Stage 1	151		-		-	-	-
Stage 2	394						
Platoon blocked, %				-	-		A STATE OF
Mov Cap-1 Maneuver	61		45			239	2.3
Mov Cap-2 Maneuver	134			-	-	N. C. S.	
Stage 1	151						
Stage 2	280		-	-	Service Services	A 11482	
Approach	WB			IB.	No. of	SB	
HCM Control Delay, s	24.4			0		1.2	
HCM LOS	24.4 C		A SERVICE AND A		22.10	301.2	
TIOWI LOS					200		204 S
		Serio De		SALES	A STATE OF	COURSE	
Minor Lane/Major Myrr	t :	NB	BT NE	RWE	3Ln1V	WBLn2	SBL
Capacity (veh/h)					134	345	239
HCM Lane V/C Ratio			-	- 0	.196	0.146	
HCM Control Delay (s)		ia is			38.3	17.2	26.1
HCM Lane LOS			-	-	E	C	
HCM 95th %tile Q(veh)				0.7	0.5	1.2
				W			

Intersection 4				10 11/4								1			
Int Delay, s/veh	4.7	ALC: NO.		11111										7 10	
Movement	ÉBL	EBT	EBR	WBI	WRT	WBR	NBI	NBT	NBR	SRI	SRT	SBR	12 4 1		
Lane Configurations		44		٦	†	NAME OF STREET			1		4	ENCL ARM			COMPAND COMPAND
Traffic Vol., veh/h	0	444	66	59	724	92	0	0	49	93	5	135		No.	
Future Vol, veh/h	0	444	66	59	724	92	0	0	49	93	5	135		CONTRACTOR OF	NAME OF STREET
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0			
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop			
RT Channelized			None			None			None			None		THE RES	
Storage Length	-	-	-	150	-	-	-	-	0	-	-	-		A STATE OF THE PERSONS	OUT TO SERVICE OUT TO SERVICE OUT TO A
Veh in Median Storage	,# -	0			0			0			2				
Grade, %	-	0	-	-	0	484	-	0	-	-	0	-			
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	Mark 1		Tage!
Heavy Vehicles, %	0	3	2	2	3	0	0	. 0	2	0	0	0		the self-	
Mvmt Flow	0	467	69	62	762	97	0	0	52	98	5	142			
Major/Minor	Major1			Major2			Minor1	Maria Ca		Miner2					
Conflicting Flow All	IVIBIUI I	0	0	536	0	0	THE SALE	19884	268	1169	1471	430		THE PERSON	美国公司
Stage 1		U	U	330	U	U	-	on the m	200	Marian Printers and	935	430		* * **	
Stage 2			NO. A. T.							234	536		THE SAME		
Critical Hdwy		- CONTRACTOR		4.14			Per Della		6.94	7.5	6.5	6.9			ER OTANIA
Critical Hdwy Stg 1				7.17				ACCHES ES	0.04	6.5	5.5	0.5	国际	S. V. P. LANGUE	2200
Critical Hdwy Stg 2							District of the second			6.5	5.5				West Bloom
Follow-up Hdwy				2.22			ENGINEERING -		3.32	3.5	4	3.3	SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PER	EVETTANE	學等更換解釋的
Pot Cap-1 Maneuver	0			1028			0	0	730	151	128	579			
Stage 1	0	and the contract	THE REPORT OF THE PERSON	-			0	0		289	347	-	STATE OF THE PARTY OF		
Stage 2	0		A Section				0	0		754	527		10000	X ASS	E STEW
Platoon blocked, %	100000000000000000000000000000000000000	-	-		-	-	CONTRACTOR OF THE PARTY OF THE		MANAGED ST						
Mov Cap-1 Maneuver				1028					730	134	120	579	1 1 1 1 1 1		
Mov Cap-2 Maneuver	-	-	CONTROL	-	-	-	-	-	-	264	274	-	EUROSAUNES		
Stage 1	1000000		STEWAY.		Y NA					289	326			THE REAL PROPERTY.	
Stage 2	-	-	-	-	-	-	-	-	-	701	527	-	and the same of th	NOT IN THE REAL PROPERTY.	
								SWE.	n in Civ				NAS A		The Laboratory
Administration	CO		10 A 41	WD			NO			Op	No. of Concession,	ALESS DEVO	ATT LESS OF	A HE SAME	
Approach	EB	No.		WB			NB 40.2	NO POST OF		SB		DE PEUR			A DECEMBER
HCM LOS	0		100 miles 6	0.6			10.3			29.2					
HCM LOS	SCHOOL STREET	E05/8000		SANGE SON		XX 200	В		Carlot Oct	D		2000 V 200	CHARLES CO.	N POWER	SECTION SECTION
PARTICIPATION OF THE PARTICIPA	NEW YORK		A DE PER			025046			A COLOR		100000				
Minor Lane/Major Myn	nt 1	NBLn1	EBT	EBR	WBL	WBT	WBR	SBLn1			AL TOP			***	
Capacity (veh/h)		730			1028			386							
HCM Lane V/C Ratio		0.071	-		0.06	-	-	0.635							
HCM Control Delay (s))	10.3			8.7			29.2							
HCM Lane LOS	11-12-1-17	В	-	-	Α	-	-	D							
HCM 95th %tile Q(veh)	0.2	-	•	0.2			4.2			Ser a series			4 4 4 9	

4: Pinehurst Dr & Driveway C/Shopping Ctr

tersection.								Side	ATE UNI		V SEC				
t Delay, s/veh	7.3	a september 1										T SOLD SECTION			
ovement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ship is		
ane Configurations			7		4			4			4				-
raffic Vol, veh/h	0	0	199	0	0		78	8	11	1	32	110			
uture Vol, veh/h	0	0	199	0	0	1	78	8	11	1	32	11		THE REAL PROPERTY.	NAMES OF TAXABLE PARTY.
onflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0			
	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free			
Channelized			None			None			None			None			国 总数
orage Length	-	-	0	-	-		-	-	-	-		-		DOM: FOR HEAD	
eh in Median Storage,	THE REAL PROPERTY.	0			0	-		0			0		TO STATE		
rade, %	-	0	- 00	-	0	-	-	0	-		0	-	20000000000000000000000000000000000000	NAME OF STREET	
eak Hour Factor	92	92	92	92	92	92	92	92	92	92	100	92			R. W.
eavy Vehicles, %	0	0	0 216	0	0	0	0 85	0	12	0	0 32	0	A STATE OF THE PARTY OF THE PAR	150 1008	
VIII FIOW	U	U	210	U	U		65	9	12		32	12			
ajcr/Minor M	nor2			/inor1			Major1			Major2					
onflicting Flow All	-	-	38	333	231	15	44	0	0	21	0	0			N. S. Williams
Stage 1	tr. y-4	manchis	V TO	165	185		-							ration ductor	
Stage 2	-	SCHOOL STORY	entresie de la constante de la	148	46	-	-	-	-	MUNICIPAL .	-	-	MARIO COLOR	200 178 200	SAUS PLAN
ritical Hdwy			6.2	7.1	6.5	6.2	4.1		No. of the last	4.1		17.6			No. of the
ritical Hdwy Stg 1	-	-	-	6.1	5.5	-	-	SOMETIMEN .	-	-	-	-	SPACE SALES SALES	A CONTRACTOR OF THE PARTY OF TH	SIGNOUS PARTIES
ritical Hdwy Stg 2				6.1	5.5										Branch Co.
ollow-up Hdwy	-	-	3.3	3.5	4	3.3	2.2	-		2.2	-	-			
ot Cap-1 Maneuver	0	0	1040	624	672	1070	1577			1608	10 to 10	100 - 6			
Stage 1	0	0	-	821	751	-		-	-	-	-	-			
Stage 2	0	0		859	861	M.									
atoon blocked, %								-	-		-	-			
ov Cap-1 Maneuver	*		1040	473	634	1070	1577			1608					
ov Cap-2 Maneuver	-	-		473	634		-				-	-			
Stage 1				776	710										STATE OF A
Stage 2	-	- TON 14 (19)	-	680	860	STOCKHOOL	-	-	-	-	-	-	nethra network		
pproach :	EB		1000	WB	T S S		NB			SB					
CM Control Delay, s	9.4			8.4			6	e faith		0.2		2000年			
CM LOS	Α			Α	A SHIPP CHILDREN	WINGS BUILDINGS	Marie Sales Sa	SCHOOLSTERN	CONTRACTOR OF THE PARTY OF THE	SECOND COM	NAME AND ADDRESS OF THE OWNER,	- Children Control		NAME OF TAXABLE PARTY.	NAME OF STREET
					27/2										
inor Lane/Major Mymt		INBL	NBT	State of the latest	EBLn1V		SBL	SBT	SBR						E WILLIAM
apacity (veh/h)		1577			1040										
CM Lane V/C Ratio		0.054		-	0.208	-		-	-				The land		
CM Control Delay (s)		7.4	0		9.4	8.4	7.2	0				ALC: N			
CM Lane LOS	THE PARTY	Α	Α		Α	Α	Α	Α	-			O ATT NO COLUMN TO THE OWNER.			NAME OF TAXABLE PARTY.
CM 95th %tile Q(veh)		0.2			0.8	0	0								

	٠	-	•	-	-		1	†	-	-	1	1
ane Group	EBL	4 E87	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SB
ane Configurations	ጎ ጎ	^	7	ሻሻ	↑	1	7	^ ^	*	ሻሻ	^	
raffic Volume (vph)	265	281	101	362	201	361	92	1654	382	327	1172	10
uture Volume (vph)	265	281	101	362	201	361	92	1654	382	327	1172	10
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	190
ane Width (ft)	12	12	12	12	12	12	12	12	12	12	12	1
Grade (%)		0%			0%	201524	NAME OF THE OWNER, OWNE	0%			0%	1200
torage Length (ft)	400		150	0		0	500	CONTRACTOR OF THE PARTY OF THE	550	350		54
torage Lanes	2			2	ar Charles			200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	电影源 教	No.
aper Length (ft)	25	DEPAID STREET	S.Commistry	25			25			25		
ight Turn on Red			Yes			Yes		100 miles	Yes			Y
ink Speed (mph)		30			40		NEST REMISS	55			55	
ink Distance (ft)		1000			300	CONTROL OF		1000	Control of	SE 15 10	1180	
ravel Time (s)		22.7	NAME OF STREET		5.1			12.4	DESCRIPTION OF	CHE CONTRACTOR	14.6	No. of the last
onfl. Peds. (#/hr)						STEWN BET			\$25.00	S. C. C. C.	14.0	584MZ
confl. Bikes (#/hr)				SECTION DESIGNATION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE P			Balleton English		SAROHI EDISOR			
eak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.9
rowth Factor	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100
leavy Vehicles (%)	2%	2%	2%	2%	3%	2%	7%	2%	2%	2%	3%	2
us Biockages (#/hr)			Û	0-		()		0-		- Û		
arking (#/hr)					S. STATION							and the
lid-Block Traffic (%)		0%			0%			0%	SHOOT HEED		0%	多 图
hared Lane Traffic (%)		0 70		ALC: NO.	0 70	ACCEPTANCE OF		0 70	10 April 2004		0 70	
urn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Per
rotected Phases	3	8	CITI	7	4	1 CIIII	1100	6	CIIII	5	2	I CI
Permitted Phases	Charles Car		8			4			6			E CONTRACTOR
etector Phase	3	8		24	No. 18		DECECTION OF	6	6	5	93.50	
Switch Phase												215200
finimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	20.0	20.0	5.0	20.0	20
Minimum Split (s)	14.0	18.0	18.0	14.0	18.0	18.0	14.0	28.2	28.2	14.0	28.2	28
otal Split (s)	25.0	25.0	25.0	28.0	28.0	28.0	20.0	59.0	59.0	28.0	67.0	67
otal Split (%)	17.9%	17.9%	17.9%	20.0%	20.0%	20.0%	14.3%	42.1%	42.1%	20.0%	47.9%	47.9
ellow Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	5.6	5.6	5.6	5.6	5.6	47.5
II-Red Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2
ost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
otal Lost Time (s)	8.0	8.0	8.0	8.0	8.0	8.0	8.2	8.2	8.2	8.2	8.2	8
ead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	L
ead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Y
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	C-Min	C-N
ct Effct Green (s)	15.6	18.0	18.0	19.0	21.4	21.4	11.1	52.4	52.4	18.2	59.5	. 59
ctuated g/C Ratio	0.11	0.13	0.13	0.14	0.15	0.15	0.08	0.37	0.37	0.13	0.42	0.
/c Ratio	0.74	0.66	0.31	0.83	0.76	0.99	0.73	0.92	0.48	0.78	0.58	0.
Control Delay	72.2	66.0	3.0	74.3	75.0	75.4	92.5	51.3	4.8	71.8	32.3	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	(
otal Delay	72.2	66.0	3.0	74.3	75.0	75.4	92.5	51.3	4.8	71.8	32.3	
OS	E	E	A	E	E	E	F	D	Α.	E	C	SCHOOL STATE
pproach Delay		58.8			74.9			44.7		A A SHEET	38.3	of the same
pproach LOS		E	Land Market	TARREST STATE	E	STORY OF THE STORY		NAME OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	the Republic		The Park	

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Area Type: Other			
Cycle Length: 140	THE WASHINGTON TO A STATE OF THE PARTY OF TH		
Actuated Cycle Length: 140			
Offset: 0 (0%), Referenced to phase 2:SBT and 6:N	BT, Start of Green	THE PROPERTY OF	建立了某些的现在分词,然后是
Natural Cycle: 90		A STATE OF THE STA	
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.99			
Intersection Signal Delay: 49.7	Intersection LC	OS: D	《在本》,是一个人
ntersection Capacity Utilization 86.9%	ICU Level of S	Service E	
Analysis Period (min) 15			NOT THE RESERVE OF
Splits and Phases: 1: US 19 & Spring Hill Dr			-
◆ Ø1		→ Ø3	4 ⁴ 04
The second secon			

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Intersection		A LINE			於阿里	
Int Delay, s/veh	2.2					
Movement & Common Commo	WBL	WED	NOT	Neo	CEI	СОТ
Lane Configurations	T	#	十十十	NON	*	† †
Traffic Vol, veh/h	20	37	2182	69	37	1616
Future Vol, veh/h	20	37	2182	69	37	1616
	0	3/	2102	09	0	1010
Conflicting Peds, #/hr		220/12/20/02		NAME OF TAXABLE PARTY.	Man Late	
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	^	None		None	405	Free
Storage Length	0	0		405	405	
Veh in Median Storage			0			0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	3
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Critical Hdwy Stg 2	6.04					
Follow-up Hdwy	3.82	3.92	-	-	3.12	-
Pot Cap-1 Maneuver	24	165			81	
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Lane Configurations		†		7	44				7		4				
Traffic Vol. veh/h	0	890	90	71	850	79	0	0	190	67	7	74			
Future Vol, veh/h	0	890	90	71	850	79	0	0	190	67	7	74		COLUMN TO SERVICE	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	No. 3		
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop			MUNICIPAL SOCI
RT Channelized			None		S 24	None			None			None	A STATE OF THE		1
Storage Length	-	-	-	150	-	-	-		0	-	-	-			
Veh in Median Storage	,#	0			0	No.		0			2				
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-			
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92			
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APPENDIX

TURN LANE WARRANTS





Multimodal Access Management Guidebook

October 2023



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
SYSTEMS IMPLEMENTATION OFFICE
605 Suwannee Street, MS 19 • Tallahassee, FL 32399
www.fdot.gov/planning



Chapter 6: Turn Lanes and U-Turns

6.1 Overview

For driveways, medians, and median openings, the placement and design of turn lanes and U-turns are critical to avoid potential traffic safety issues. For example, a median opening placed across a left-turn lane at an intersection could create conditions leading to a vehicular crash (See <u>Figure 27</u> or <u>Figure 28</u>). Locating these roadway openings is discussed in greater detail in <u>Chapter 2: Roadway Openings</u>. This chapter will instead focus on where to locate and design turn lanes and U-turns and how they relate to driveways, medians, and median openings.

6.2 Exclusive Right-Turn Lanes

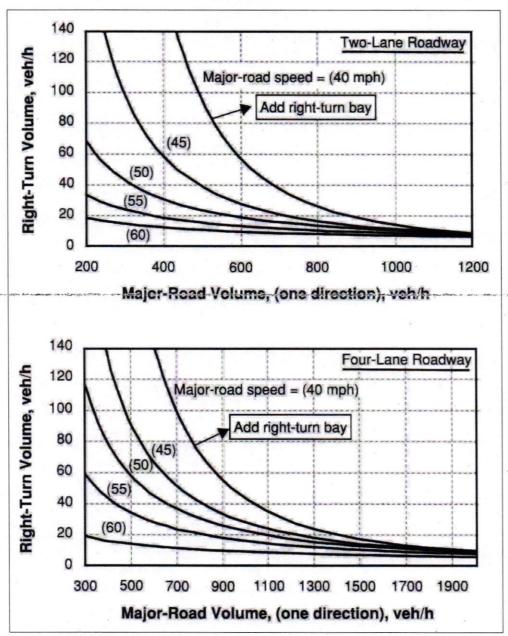
At driveways and intersections, an exclusive right-turn lane separates vehicles that are slowing or stopped to turn from the major road through traffic lanes. This separation minimizes turn-related collisions and eliminates unnecessary delay to through vehicles. Exclusive right-turn lanes are useful where a combination of high roadway speeds, and high right-turn volumes into a driveway are expected. Congestion on the roadway may also be a good reason to use an exclusive right-turn lane. It properly built, they remove the turning vehicle from the through lanes, thereby decreasing the operational and safety impact of right turning vehicles on the through traffic.

It is also important to consider potential pedestrian conflicts since the addition of a right-turn lane increases the crossing distance, time, and exposure for pedestrians. A well-designed right-turn lane can help to reduce pedestrian conflicts by slowing vehicle speeds, increasing pedestrian visibility, and reducing pedestrian exposure with a pedestrian refuge area.

6.2.1 When to Consider Exclusive Right-Turn Lanes

There are instances when adding an exclusive right-turn lane for unsignalized driveways and intersections is beneficial to traffic operations and safety. <u>Figure 74</u> provides guidance for two-lane and four-lane roadways based on the speed limit of the major roadway, major roadway approach volume, and how many right turns occur per hour. These recommendations are based primarily on the research done in <u>NCHRP Report 457</u>, <u>Evaluating Intersection Improvements</u>: <u>An Engineering Study Guide</u>, <u>Chapter 2 – Add a Right-Turn Bay on the Major Road</u>.

Figure 74 | Recommended Guidelines for Exclusive Right-Turn Lanes to Unsignalized Driveway/Intersection



Source: NCHRP Report 457, TDOT Highway System Access Manual

Here are some additional situations when adding an exclusive right-turn lane may be required:

- Facilities having a high volume of buses, trucks, or trailers (2 or 3 per hour), including:
 - Trucking facilities (or other locations that have a high volume of large vehicle traffic such as water ports, train stations, etc.)
 - Recreational facilities attracting boats, trailers, and other large recreation vehicles
 - Transit facilities
 - School driveways to drop-off and pick-up areas
- Poor internal site design of a driveway facility causing potential backups in the through lanes
- Heavier than normal peak flows on the main roadway
- Very high operating speeds (such as 55 mph or above) and in rural locations where turns are not expected by through drivers
- · Highways with curves or hills where sight distance is impacted
- Gated entrances
- Crash experience, especially rear end collisions
- Intersections or driveways just after signalized intersections where acceleration or driver expectancy would make a separate right-turn lane desirable
- Severe skewed angle of intersection requiring right-turn vehicle to slow greatly

6.2.2 When Not to Consider Exclusive Right-Turn Lanes

- Dense or built-out corridors with limited space
- Right-turn lane that would negatively impact pedestrians or bicyclists
- Vehicular movements from driveways or median openings that cross the right-turn lane resulting in multiple threat crashes
- Context classifications C2T, C4, C5, or C6

6.2.3 Exclusive Right-Turn Lane Design

For information on exclusive right-turn lane design, refer to <u>FDM 212 - Intersections</u> and <u>Standard Plans, Index 711-001</u>. The FDM states that "Right-turn lane tapers and lengths are identical to left-turn lanes under stop control conditions. Right-turn lane tapers and lengths are site-specific for free-flow or yield conditions." Sheet 11 of Standard Plans, Index 711-001 provides requirements for clearance distance, brake to stop distance and deceleration distance by design speed for both curbed and uncurbed roadways. <u>Section 3.1.2: Median Opening Failures</u> provides discussion on the various parameters used in turn lane design such as decision distance, stopping distance, etc.

6.2.4 Important Considerations

Right-Turn Channelization

Where right-turn exiting channelization is used, be careful to provide a traffic entry angle that is easy for the exiting driver to negotiate while trying to enter traffic. *Figure 75* illustrates how driver head turn angles between 120°-125° (Tighter Angle) are more comfortable than the 145°-150° (Wide Angle) associated with more traditional designs. The tighter angle also encourages drivers to slow down, which provides more time for a thorough scan for conflicts.



Figure 77 | Raised Crosswalk at Channelized Right Turn

Source: City of Los Angeles Supplemental Street Design Guide

6.3 Exclusive Left-Turn Lanes

While some principles for right-turn lanes apply to left-turn lanes, there are inherent differences between them

6.3.1 When Exclusive Left-Turn Lanes are Beneficial

There are several situations when a left-turn lane should be built on the roadway. For example, if on a multilane roadway and there is a median opening that is serving a driveway, there should be a left-turn lane to allow for vehicles to move safely out the way of the through traffic. Exclusive left-turn lanes should be considered at any location serving the public, especially on curves and where speeds are in excess of 45 mph. The <u>AASHTO Green Book</u> contains guidance on this issue. However, the guidelines were developed based on delay rather than crash avoidance. Safety is the main reason behind exclusive left-turn lanes.

6.3.2 When to Consider Exclusive Left-Turn Lanes at Unsignalized Intersections and Driveways

Left-turn lane warrants at unsignalized intersections and driveways were included in <u>NCHRP</u> <u>Report 745, Left-Turn Accommodations at Unsignalized Intersections</u>. The recommended left-turn lane warrants are provided for the following roadway facilities.

- Rural, two-lane highways (Figure 78)
- Rural, four-lane highways (Figure 79)
- Urban and suburban roadways (Figure 80)

Alternatively, the left-turn warrants based on <u>NCHRP Report 457</u>, (See <u>Figure 81</u>) can be used if it is found to be more appropriate and reasonable for a local condition. Engineering judgment should be used when deciding between the NCHRP 745, and NCHRP 457 guidelines.

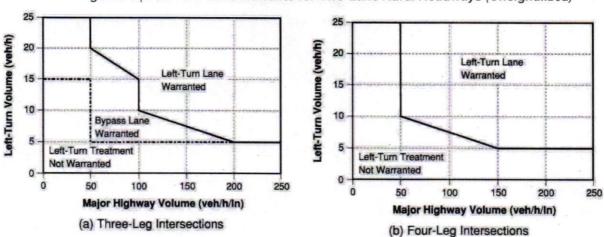
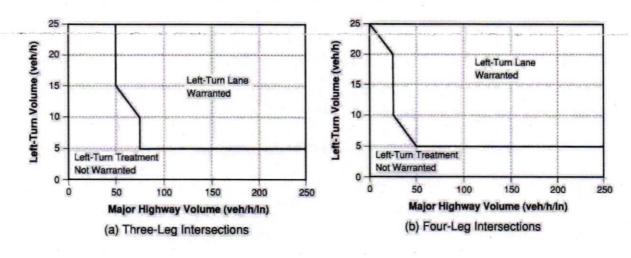
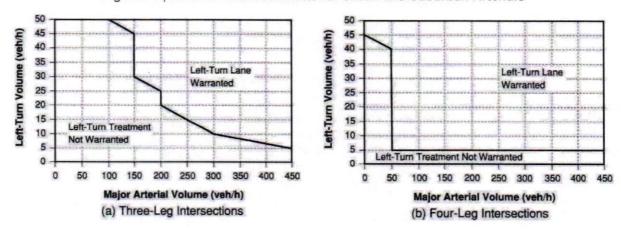


Figure 78 | Left-Turn Lane Warrants for Two-Lane Rural Roadways (Unsignalized)



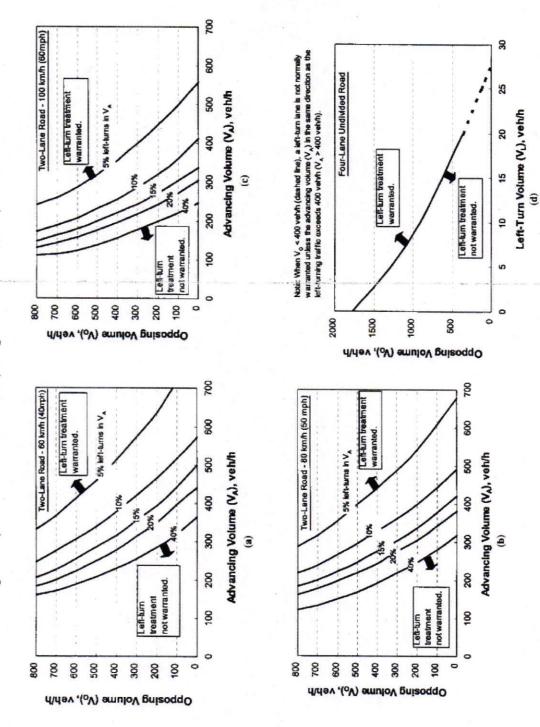






Source: NCHRP Report 745

Figure 81 | Left-Turn Lane Warrants (Unsignalized Intersections) – Alternate Method

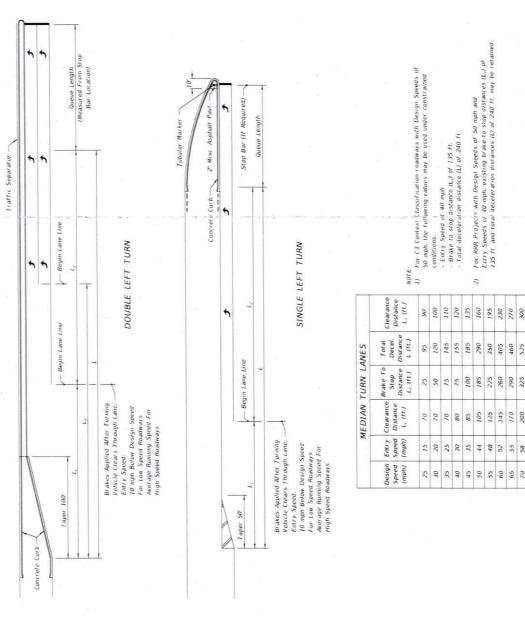


Source: NCHRP Report 457

APPENDIX

FDOT DESIGN MANUAL 212-1

MINIMUM DECELERATION LENGTHS MEDIAN TURN LANES



1) For C3 Context Classification roadways with Design Speeds of 50 mph, the following values may be used under constrained conditions:

- Entry Speed of 40 mph

- Brake to stop distance (L.) of 135 ft.

- Total develoration distance (L.) of 240 ft.

7.5

125 145 170 200 200

145 185 185 290 290 350 460 460

225 260 290 325

55 60 65 70

For RRR Projects with Design Speeds of 50 mph and Entry Speeds of 40 mph, existing brake to stop distances (L.) of 135 ft. and total deceleration distances (L) of 240 ft. may be retained.

NOT TO SCALE

EXHIBIT 212-1 01/01/2024

APPENDIX

FDOT GENERALIZED SERVICE VOLUME TABLES



C3C & C3R

Peak Hour Directional

Motor Vehicle Arterial Generalized Service Volume Tables

C3C-Suburban Commercial)

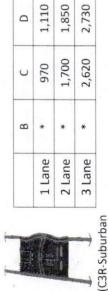
Ш	*	*	*	*
D	1,070	1,810	2,680	3,180
C	760	1,520	2,360	3,170
8	*	*	*	*
	1 Lane	2 Lane	3 Lane	4 Lane

Peak Hour Two-Way

-	В	U	۵	ш
2 Lane	*	1,380	1,950	*
4 Lane	*	2,760	3,290	*
6 Lane	*	4,290	4,870	*
8 Lane	*	2,760	5,780	*

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	В	U	٥	Е
2 Lane	*	15,300	21,700	*
4 Lane	*	30,700	36,600	*
6 Lane	*	47,700	54,100	*
8 Lane	*	64,000	64,200	*



Residential)

* * *

* 3.090 3.360 **	*
	*

-				
	В	O	O	ш
2 Lane	*	19,600	22,400	*
4 Lane	*	34,300	37,300	*
6 Lane	*	52,900	55,100	*

Adjustment Factors

The peak hour directional service volumes should be adjust by multiplying by 1.2 for one-way facilities The AADT service volumes should be adjusted by multiplying 0.6 for one way facilities 2. Lane Divided 2 Jane Undivided Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.80 Roadway with an Exclusive Left Turn Lane(s): Multiply by 1.05

Multilane Undivided Roadway with an Exclusive Left Turn Lane(s): Multiply by 0.95 Multilane Roadway with No Exclusive Left Turn Lane(s): Multiply by 0.75

Non-State Signalized Roadway: Multiply by 0.90

This table does not constitute a standard and should be used only for general planning applications. The table should not be used for corridor or intersection design, where more refined techniques exist.

* Cannot be achieved using table input value defaults.
** Not applicable for that level of service letter grade. For the automobile mode, volumes greater than level of service D become F because intersection capacities have been reached.



C3C & C3R

Motor Vehicle Arterial Generalized Service Volume Tables

Input Parameters

Roadway Characteristics

C3C C3R	1-3	45 45	3.98 2.57
	Number of Lanes (one	Posted Speed (mph)	Facility Length (miles)

Traffic Characteristics

	38	, c	C3R	8
lanning Analysis Hour Factor (K)	0.0	60.0	60.0	6
Directional Distribution Factor (D)	0.5	0.55	0.55	5,
eak Hour Factor (PHF)	0.9	0.95	0.92	2
sase Saturation Flow Rate	1,9	1,950	1,950	20
Heavy Vehicle Percent (%)	7		4	
ane Width	12	2	12	
/ledian Type	Non Restrictive (1 lane)	Restrictive (2,3,4 lanes)	Non Restrictive (1 lane)	Restrictive (2,3 lanes)
loadway Edge Type	Curbed	ped	Flush	r.
On-Street Parking	None	ne	None	ie.

Control Characteristics

	33	, u	GR	
Cycle Length	160	09	190	
Major Street Through g/c	0.5 (1,2,3 lanes)	0.45 (4 lanes)	0.5	
Yellow Change Interval	5.1	1	5.1	
Red Change Interval	2		2	
Number of Signals	10	0	5	