TRAFFIC IMPACT STUDY

FOR

ATLAS TOWNHOMES

HALL COUNTY, GA

Prepared By:



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September 9, 2024

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EXECUTIVE SUMMARY

Atlas Development Townhouse Project is a proposed residential development located along SR 211 in Hall County, GA. The site is approximately 20 acres and is located along the east side of SR 211, south of SR 53. The development will include 120 townhomes is expected to be constructed by 2027. The site will be accessed by one new driveway on SR 211. This study analyzed existing and future traffic operations and capacity analysis for the study intersections to determine if recommendations to the existing roadway network should be made to accommodate the new traffic and determine how the new driveway should be controlled.

This study analyzed the impacts the development's generated trips are expected to have on the surrounding roadway network and study intersections. The study intersections are listed below:

- 1. SR 53 at SR 211
- 2. SR 211 at Atlas Drive

The ITE Trip Generation Manual, was referenced to estimate the trips generated by the residential development. The expected trips were added to the future projected traffic volumes to analyze delay and level of service at the study intersections in build condition and compare with the existing conditions. The geometry and method of control for the access driveway intersection on the State Route was determined utilizing GDOT's auxiliary lane requirements and ICE tool.

The existing intersection is operating at an overall acceptable level of service in the existing year (2024) and no-build year (2027). The development traffic has a nominal effect on the existing intersection's delay and operation. The development driveway is expected to operate acceptably upon full build-out of the development. Based on the auxiliary lane analysis per GDOT guidelines, both a left-turn and a right-turn lane are recommended at the driveway intersection.

The following is the recommended configuration at the development driveway:

SR 211 at Atlas Drive

- Atlas Drive should be full-access, stop-sign controlled.
- Atlas Drive should be two lanes, one entry and one exit lane.
- Install a northbound right-turn storage lane on SR 211. Lane dimensions should meet GDOT minimum requirements.
- Install a southbound left-turn storage lane on SR 211. Lane dimensions should meet GDOT minimum requirements.

No other roadway improvements are recommended for this development.



INTRODUCTION

A traffic impact study was conducted by Southeastern Engineering, Inc. for the proposed townhome development along SR 211/Old Winder Hwy south of SR 53/Winder Hwy in Hall County, GA. The development proposes adding a total of 120 townhomes and is expected to be completed in 2027. The site will be accessed by a single new driveway on SR 211. An overall location map of the site area is shown in **Figure 1**.



Figure 1 Location Map

This study will identify the potential impacts of the proposed development's traffic on the surrounding roadway network. The study includes the existing and future peak hour traffic operations and capacity analysis for the study intersections. As necessary, operational improvements will be identified and analyzed to mitigate the traffic impacts caused by the development. Based on the results of the analysis for the study intersections, recommendations will be made for intersection geometry and control methods.





September 9, 2024

PROJECT DESCRIPTION

The townhouse development will have 120 townhomes, built on approximately 20 acres of land in Hall County, GA. The site will have one new driveway on SR 211 proposed as a full-access, stop-sign controlled approach. This study analyzes traffic impact upon the full built-out of the development, which is planned for 2027. The site plan is attached in **Appendix A**.

Study Network

The traffic study analyzes traffic operations for the intersections in the vicinity of the development. Capacity analysis and level of service evaluations of the study intersections were conducted for the existing, no-build and build scenarios. An aerial of the study area is shown in **Figure 2**. The study intersections are listed below:

- 1. SR 53/Winder Hwy at SR 211/Old Winder Hwy– Traffic Signal
- 2. SR 211/Old Winder Hwy at Atlas Drive (New Intersection) Minor-Street Stop-Control



Figure 2 Aerial of Study Area



Roadway Conditions

The roadway network adjacent to the development was examined to review the roadway characteristics in the study area.

SR 211/Old Winder Highway

SR 211/Old Winder Highway is an undivided two-lane roadway that is classified as a minor arterial. It has a posted speed limit of 45 mph north of Daylily Drive and 55 mph south of Daylily Drive. There is curb and gutter present as well as some sidewalk near its intersection with SR 53.

SR 53/Winder Highway

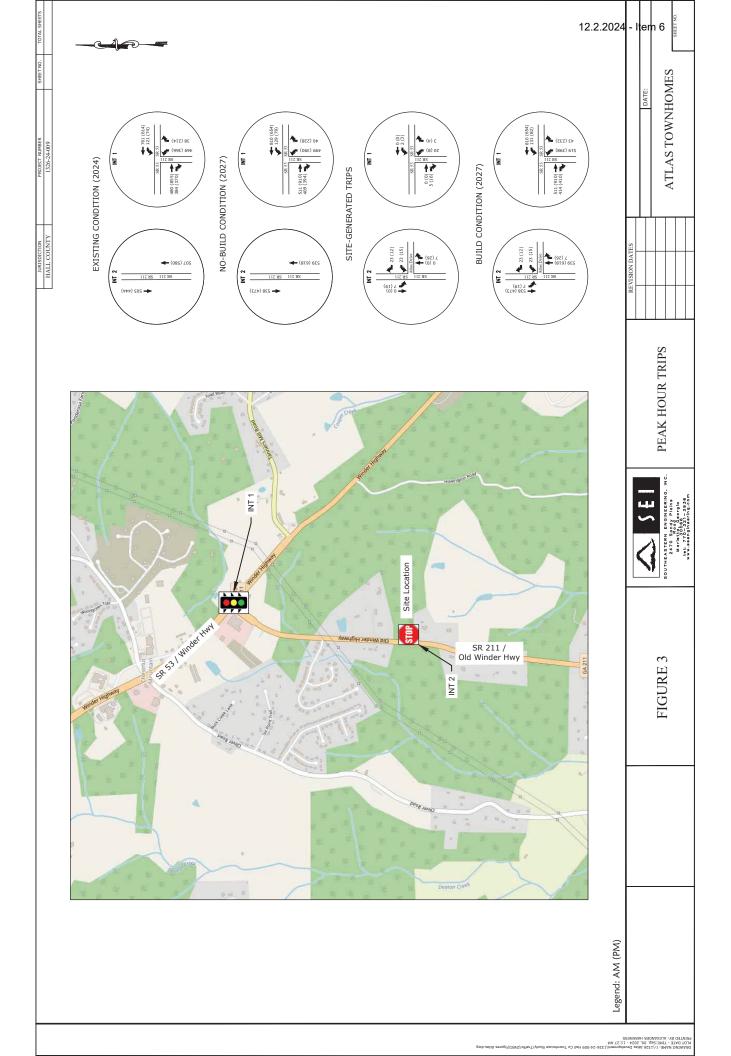
SR 53/Winder Highway is a four-lane median-divided roadway west of Tanners Mill Road and an undivided two-lane roadway east of Tanners Mill Road. It is classified as a minor arterial southeast of Old Winder Hwy and a principal arterial northeast of Old Winder Hwy. It has a posted speed limit of 45 mph. There is curb and gutter present along the roadway, as well as sidewalk in the study area.

EXISTING TRAFFIC CONDITIONS

Existing traffic volumes at the study intersections were collected on Tuesday, January 30th, 2024. Peak hour turning movement counts were collected at the existing study intersections, and daily traffic volumes were collected on primary roadways near the development. Existing daily traffic volumes collected in the study area are summarized in **Table 1**, and detailed traffic counts are attached in **Appendix B**. The existing AM and PM peak hour traffic volumes for the study area are shown in **Figure 3**.

Table 1: Existing Traffic Volumes							
Location	Vol	Total					
Location	Northbound	Southbound	TOLAI				
SR 211 / Old Winder Hwy south of Daylily Dr	6,211	5,986	12,197				





Level of Service Methodology

Intersection capacity analyses were performed using the methodology outlined in the <u>Highway</u> <u>Capacity Manual, 6th Edition</u> (HCM). This methodology is the industry standard for the evaluation of intersection capacity and delay. To facilitate the analysis, computer software Synchro was used. This software conforms to the methodology of the HCM.

An analysis of peak hour traffic conditions was performed to determine the level of service (LOS) at the study intersections. LOS for an intersection is based on vehicular delay at the intersection and is a typical measure of effectiveness used to evaluate intersection operations. The HCM provides ranges of delay for each LOS definition, spanning from very minimal delays (LOS A) to high delays (LOS F). LOS F is considered unacceptable for most drivers.

For unsignalized intersections, where a stop sign controls side streets or minor streets, the criterion for evaluating traffic operations is the LOS for the controlled turning movements at the intersection. Methodology from the HCM to determine the delay and LOS for these turning movements is based on the following input data including intersection geometry, lane configuration, and turning movement volumes.

For the signalized intersections, LOS is based on the following input data: intersection geometry, lane configuration, turning movement volumes, traffic signal timing.

Table 2 below indicates the	relationship between	ı delay and	LOS for	unsignalized	and signalized
intersections, respectively.					

Table 2: Level of Service for Unsignalized and Signalized Intersections								
Level of Service Control Delay Per Vehicle (sec)								
Level of Service	Unsignalized Intersection Signalized Interse							
A	≤10	≤10						
В	>10 and ≤15	>10 and ≤20						
С	>15 and ≤25	>20 and ≤35						
D	>25 and ≤35	>35 and ≤55						
E	>35 and ≤50	>55 and ≤80						
F	>50	>80						

Existing Conditions Level of Service

The level of service for the existing condition was determined using Synchro 11. The existing intersection geometry, lane configuration, signal timings, and turning volumes were utilized for the analysis of the intersection. The results of the intersection capacity analysis are summarized in **Table 3**, and detailed Synchro reports are attached in **Appendix D**. The levels of service for all approaches at the existing intersection are acceptable in the existing conditions.

Table 3: Level of Service and Delay for Existing Condition (2024)								
Intersection			Delay (LOS)					
Intersection	Control Type	Approach	AM	PM				
	Circulation of Internetion	EB	7 (A)	7 (A)				
SD 52 at SD 211		WB	8 (A)	7 (A)				
SR 53 at SR 211	Signalized Intersection	NB	17 (B)	18 (B)				
		Overall	9 (A)	9 (A)				



FUTURE CONDITIONS – WITHOUT THE PROPOSED DEVELOPMENT (NO-BUILD)

The impact of the proposed development on the roadway network was analyzed and evaluated in the future year (2027) without the proposed development (No-Build) to compare the future conditions with the proposed fully constructed development (Build).

Growth Rate

Growth rate for the study area was calculated using annual volume statistics from GDOT's Traffic Analysis & Data Application (TADA). The growth rate calculated using the GDOT's historical traffic data is summarized in **Table 4**. Historical counts and calculations from all sources are attached in **Appendix C**.

Table 4: GDOT Historical Growth Rate								
Station ID	Location	Location 5-Year Rate						
139-0441	Spout Springs Rd n/o Iris Dr	3.4%	5.3%					
135-0476	Thompson Mill Rd w/o Puckett Rd	2.3%	1.0%					
139-8206	Union Circle e/o Spout Springs	9.7%	4.1%					
139-7382	Ridge Rd s/o SR 347	8.3%	6.3%					
139-0437	Spout Springs Rd n/o SR 347	2.6%	3.2%					
1	5 - Year and 10 - Year Average	5.2%	4.0%					
	Average Growth Rate	4.6	5%					

Hall County census data obtained from the U.S. Census Bureau and the Georgia Governor's Office of Planning and Budget was used to calculate a growth rate for the study area. County census data and estimated growth rate is shown in **Table 5**.

Table 5: Georgia Governor's Office of Planning and Budget Annual Population Estimates								
Geographic Area		Average 5-Year Growth Rate from 2020 to 2050						
	2020-2025	025 2025-2030 2030-2035 2035-2040 2040-2045 204		2045-2050	Average			
	Iall County 1.6%		1.3%	1.1%	1.0%	1.0%	1.2%	
Geographic Area	Average 10-Year Growth Rate from 2020 to 2050							
	2020-	-2030	2030-2040		2040-2050		Average	
Hall County	1.3%		1.3%		1.1%		1.3%	

Census data from the U.S. Census Bureau was used to calculate a growth rate for Hall County. Growth rate estimated using the U.S. Census Bureau data is shown in **Table 6**.

Table 6: U.S. Census Bureau Annual Estimates of the Resident Population							
Geographic Area 2010 Census 2020 Census 2010 to 2020 Growth Rate							
Hall County	179,684	203,136	1.23%				

The overall project growth rate for this project was determined reviewing the different sources, and an average growth rate of 2.1% was utilized for the study to project future year traffic volumes.



Future No-Build Traffic Volumes

The projected future 2027 background traffic volumes were calculated by applying the annual exponential growth rate over three years to the existing 2024 background traffic volumes. Future 2027 background traffic volume is shown in **Figure 3**.

Future No-Build Conditions Level of Service

The methodology discussed previously was used to determine the level of service for the study intersections using the future 2027 background traffic volumes to determine operations at the study intersections. The intersection capacity analysis results for future no-build year (2027) are summarized in **Table 7** and detailed Synchro reports are attached in **Appendix D**. The existing intersection and all its approaches are expected to continue to operate similarly and at acceptable levels of service as they do in the existing year (2024) conditions.

Table 7: Level of Service and Delay for No-Build Condition (2027)								
Interception	Control Type			(LOS)				
Intersection	Control Type	Approach	AM	РМ				
		EB	7 (A)	8 (A)				
SD 52 at SD 211		WB	8 (A)	8 (A)				
SR 53 at SR 211	Signalized Intersection	NB	19 (B)	21 (C)				
		Overall	10 (B)	11 (B)				

PROPOSED DEVELOPMENT

The townhouse development will have 120 townhomes located along SR 211 in Hall County, GA. One new driveway on SR 211 is proposed as a full access, stop-controlled approach. This study analyzes traffic impact upon the full built-out of the development, which is planned for 2027.

Trip Generation

The number of trips expected to be generated from the development were estimated based on the method defined in the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition. The trip generation for the proposed development is summarized in **Table 8**. The trip generation report is attached in **Appendix E**.

Table 8: Proposed Site Trip Generation										
Land Use Unit of Daily Traffic AM Peak Hour PM Peak Hour										
(ITE Code)	Measure	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Multi-Family Housing (Low-Rise) (220)	120 Units	422	423	845	14	46	60	45	27	72

Trip Distribution and Assignment

The trips expected to be generated from the proposed development were distributed on the roadway network in the study area. The proposed distribution is based on historical counts and observed traffic patterns in the study area. **Figure 3** shows the development-generated trips in the network.

Auxiliary Lane Analysis

The need for auxiliary lanes on SR 211 was evaluated at the driveway intersection based on the guidelines from GDOT's *Regulations for Driveway and Encroachment Control*. Auxiliary lanes are used on approaches to intersections when the projected daily turning traffic volumes exceed minimum levels. Based on the GDOT manual a left-turn lane is recommended at an intersection if the threshold values as shown in **Table 9** are met.



	Table	9: Left-Turn Lane Req	uirements	
Posted Speed	2 Lane	Routes	More than 2 Lane	es on Main Road
	ADT < 6,000	ADT ≥ 6,000	ADT < 10,000	ADT ≥ 10,000
35 MPH or Less	300 LTV a day	200 LTV a day	400 LTV a day	300 LTV a day
40 to 50 MPH	250 LTV a day	175 LTV a day	325 LTV a day	250 LTV a day
≥ 55 MPH	200 LTV a day	150 LTV a day	250 LTV a day	200 LTV a day

Based on the GDOT manual a right-turn lane is recommended at an intersection if the threshold values as shown in **Table 10** are met.

	Table 1	0: Right-Turn Lane Re	quirements	
Posted Speed	2 Lane	Routes	More than 2 Lane	es on Main Road
	ADT < 6,000	ADT ≥ 6,000	ADT < 10,000	ADT ≥ 10,000
35 MPH or Less	200 RTV a day	100 RTV a day	200 RTV a day	100 RTV a day
40 to 50 MPH	150 RTV a day	75 RTV a day	150 RTV a day	75 RTV a day
55 to 60 MPH	100 RTV a day	50 RTV a day	100 RTV a day	50 RTV a day
≥65 MPH	Always	Always	Always	Always

SR 211 is a two-lane route, with an existing average daily traffic volume of approximately 12,195 vehicles per day (vpd) and has a posted speed limit of 55 miles per hour. Based on these characteristics, the threshold for a left-turn lane is 150 LTV per day, and a right-turn lane is set at 50 RTV per day. Based on the expected trip distribution, approximately 190 vpd will make a left-turn and approximately 230 vpd will make a right-turn onto Atlas Drive (new driveway). Therefore, both a right-turn and left-turn lane are recommended on SR 211 at the new driveway intersection, and will be included in the analysis.

FUTURE CONDITIONS - WITH THE PROPOSED DEVELOPMENT (BUILD)

To assess the impact of the proposed development, the site-generated trips were added to the future no-build background traffic, and the combined volumes were analyzed.

Build Traffic Volumes

The trips expected to be generated from the development were distributed on the roadway network in the study area. The proposed distribution is based on historical counts and traffic patterns in the area from the collected data. The total site generated trip distribution for peak hours is shown in **Figure 3**.

Delay Analysis for Build Condition

The level of service criteria discussed in the prior sections was applied to the study intersections to determine the impacts of 2027 background traffic volumes plus total site-generated volumes. All intersections were analyzed with existing controls and geometric configurations. The driveway was modeled with the auxiliary lanes on SR 211.

The results of the intersection capacity analysis for the future year with the development are summarized in **Table 11** and detailed Synchro reports are attached in **Appendix D**. The proposed development is expected to have a nominal impact on the existing signalized intersection of SR 53 at SR 211. The site driveway is expected to operate acceptably upon full build-out of the development.



Table 11: Level of Service	and Delay for Build Condit	tion (2027)		
Intersection	Control Type	Approach	Delay	(LOS)
intersection	Control Type	Approach	AM	PM
		EB	8 (A)	8 (A)
SR 53 at SR 211	Signalized Intersection	WB	8 (A)	8 (A)
51(55 at 51(211	Signalized Intersection	NB	20 (B)	21 (C)
		Overall	11 (B)	11 (B)
SR 211 at Atlas Drive	Minor-Street Stop-Control	WB	21 (C)	21 (C)

Intersection Control Evaluation (ICE)

GDOT policy 4A-5 states an intersection control evaluation (ICE) is required for a proposed driveway intersection on State Routes. Accordingly, ICE was performed on the new driveway intersection. The ICE process compares and scores the feasible intersection controls based on project cost, safety analysis, traffic operations, environmental impacts, and stakeholder posture. The higher the ICE score, the preferable the intersection control per the GDOT ICE tool.

An ICE waiver was provided for the new driveway on SR 211 because only one feasible alternative, the minor-street stop control with both right-turn and left-turn storage lanes on SR 211, was identified in Stage 1. The ICE tool and associated operational analysis reports are attached in **Appendix F**.

Level of Service Comparison

The results of the intersection capacity analysis for the no-build (2027) and build with the development are summarized in **Table 12** below for the study intersections. The site driveway is expected to operate acceptably upon full build out of the development. The impact of the development traffic on the existing intersection of SR 53 at SR 211 is nominal.

	Table 12: Level c	of Service Co	mparison			
Interception	Control Turno	Annroach		Build itions	Build Co	onditions
Intersection	Control Type	Approach	Delay	(LOS)	Delay	(LOS)
			AM	PM	AM	PM
		EB	7 (A)	8 (A)	8 (A)	8 (A)
SR 53 at SR 211	Signalized	WB	8 (A)	8 (A)	8 (A)	8 (A)
SK 33 81 SK 211	Signalized	NB	19 (B)	21 (C)	20 (B)	21 (C)
		Overall	10 (B)	11 (B)	11 (B)	11 (B)
SR 211 at Atlas Drive	Minor-Street Stop-Control	WB			21 (C)	21 (C)



September 9, 2024

CONCLUSION

Atlas Development Townhouse Project is a proposed residential development located along SR 211 in Hall County, GA. The site is approximately 20 acres and is located along the east side of SR 211, south of SR 53. The development will include 120 townhomes is expected to be constructed by 2027. The site will be accessed by a single driveway on SR 211. This study analyzed existing and future traffic operations and capacity analysis for the study intersections to determine if recommendations to the existing roadway network should be made to accommodate the new traffic and determine how the new driveway should be controlled.

Based on the analysis, the development driveway and the existing adjacent intersection are expected to operate acceptably in the future no-build and build scenarios. The proposed development will have a nominal impact on the existing intersection.

Based on the auxiliary lane analysis, both a left-turn lane and a right-turn lane are recommended on SR 211 at the driveway intersection.

The following is the recommended configuration at the development driveway:

SR 211 at Atlas Drive

- Atlas Drive should be full-access, stop-sign controlled.
- Atlas Drive should be two lanes, one entry and one exit lane.
- Install a northbound right-turn storage lane on SR 211. Lane dimensions should meet GDOT minimum requirements.
- Install a southbound left-turn storage lane on SR 211. Lane dimensions should meet GDOT minimum requirements.

No other roadway improvements are recommended for this development.



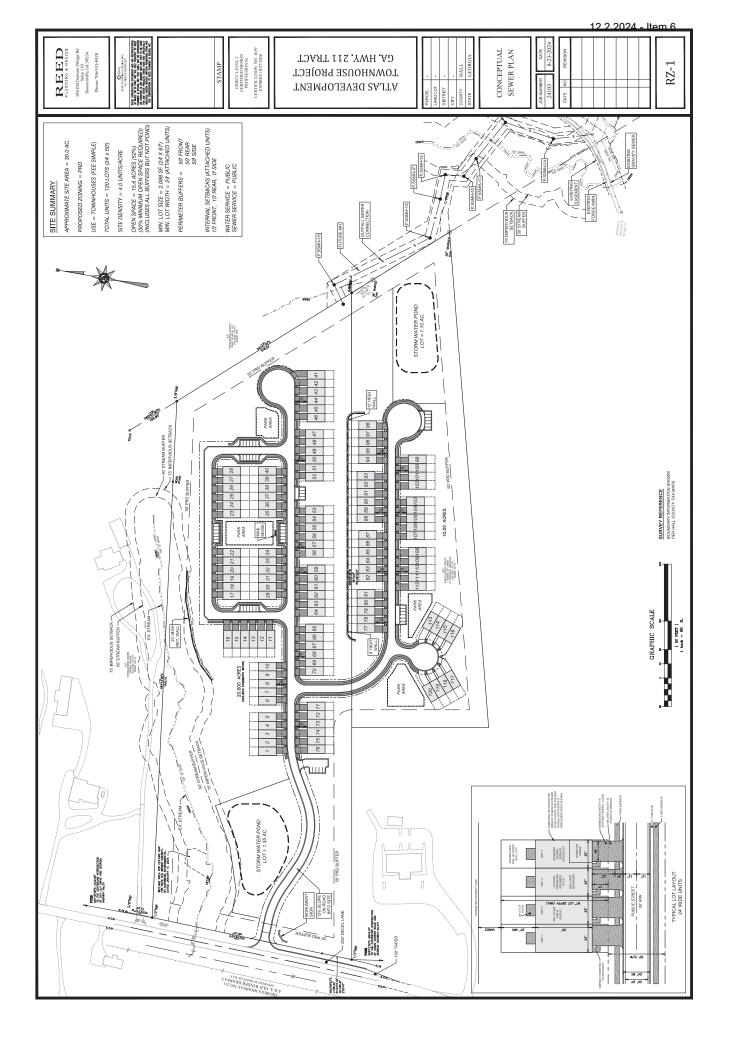
September 9, 2024

APPENDICES

- Appendix A
 - $\circ \quad \text{Site Plan}$
- Appendix B
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- Appendix D
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- Appendix E
 - Trip Generation Report
- Appendix F
 - ICE Tool Report



Appendix A Site Plan



Appendix B

Traffic Counts Summary Sheets

Turning Movement Counts SR 53 / Winder Hwy at SR 211 / Old Winder Hwy



Session Parameters

(Drop Down Menu)

Peak Hour

Volume

0

Peak Hour Turning Movement Count

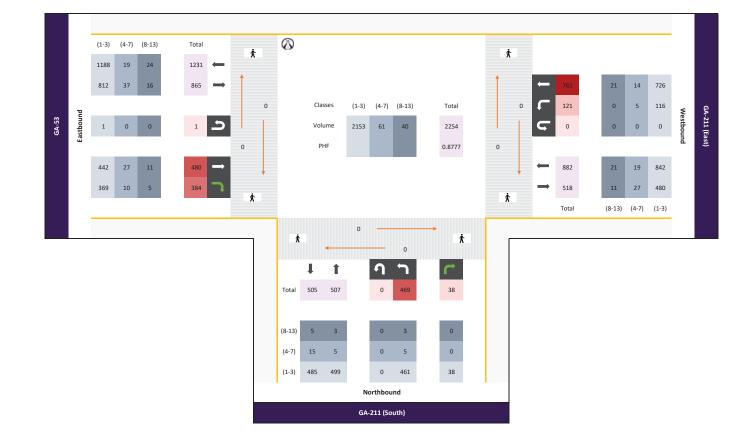
Hall County, GA

 Tuesday, January 30, 2024

 Period
 0600 - 0800

 Peak Hour
 0700 - 0800

* the Peak Hour Diagram does not include Bikes



Q <u>Click here for Map</u>

All vehicles																									
				bound			_						_			ound						bound			
	Left	-	GA-211 Right	(South)	U-Turn	Арр					1	Арр		Thru	GA Right	-53	U-Turn	Арр	Left	Thru	GA-21	1 (East)	U-Turn	Арр	Int
Time	1.1		1.2		1.3	Total						Total		1.4	1.5		1.6	Total	1.7	1.8			1.9	Total	Total
0700 - 0715	96	-	10	-	0	106	-	-	-	-	-	0	-	99	79	-	0	178	16	169	-	-	0	185	469
0715 - 0730	121	-	7	-	0	128	-	-	-	-	-	0	-	113	71	-	0	184	20	198	-	-	0	218	530
0730 - 0745 0745 - 0800	150 102	-	10 11	-	0	160 113	-	-	-	-	-	0	-	116 152	92 142	-	0	208 295	48 37	226 168	-	-	0	274 205	642 613
0745 - 0800	102	-	11	-	U	113	-	-	-	-	-	0	-	152	142	-	1	295	37	168	-	-	U	205	613
Total	469	0	38	0	0	507	0	0	0	0	0	0	0	480	384	0	1	865	121	761	0	0	0	882	2254
Approach %	92.50		7.50	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	55.49	44.39	0.00	0.12	-	13.72	86.28	0.00	0.00	0.00	-	
PHF	0.78	0.00	0.86	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.68	0.00	0.25	0.73	0.63	0.84	0.00	0.00	0.00	0.80	0.88
Passenger Vehicles (1-3)																									
			North	bound											Eastk	ound						bound			
				(South)						-						-53					GA-21	1 (East)			
Time	Left		Right		U-Turn							App		Thru	Right		U-Turn	App	Left	Thru			U-Turn	App	Int
Time 0700 - 0715	1.1 95		1.2 10		1.3 0	Total 105			-			Total 0	-	1.4 91	1.5 73		1.6 0	Total 164	1.7 15	1.8 161			1.9 0	Total 176	Total 445
0715 - 0730	120	-	7	-	0	103		-	-	-	-	0	-	102	68	-	0	170	13	191	-	-	0	209	506
0730 - 0745	148	-	10	-	0	158	-	-	-	-	-	0	-	108	92	-	0	200	48	216	-	-	0	264	622
0745 - 0800	98	-	11	-	0	109	-	-	-	-	-	0	-	141	136	-	1	278	35	158	-	-	0	193	580
Total	101	0	20	0	0	400		0	0	0	0	0		442	369	0		042	44.6	726	0		0	0.42	2452
Approach %	461 92.38	0.00	38 7.62	0.00	0.00	499	0.00	0.00	0.00	0.00	0.00	0	0.00	442 54.43	369 45.44	0.00	1 0.12	812	116 13.78	726 86.22	0.00	0.00	0.00	842	2153
PHF	0.78	0.00	0.86	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.68	0.00	0.12	0.73	0.60	0.84	0.00	0.00	0.00	0.80	0.87
																									•
Single Unit Trucks (4-7)																									
				bound (South)			_									ound						bound 1 (East)			
	Left		Right	(South)	U-Turn	Арр						Арр		Thru	Right	-53	U-Turn	Арр	Left	Thru	GA-21	1 (East)	U-Turn	Арр	Int
Time	1.1		1.2		1.3	Total						Total		1.4	1.5		1.6	Total	1.7	1.8			1.9	Total	Total
0700 - 0715	1	- 1	0	-	0	1	-	-	-	-	-	0	-	4	5	-	0	9	1	4	-	-	0	5	15
0715 - 0730	1	-	0	-	0	1	-	-	-	-	-	0	-	8	2	-	0	10	2	4	-	-	0	6	17
0730 - 0745 0745 - 0800	1	-	0	-	0	1	-	-	-	-	-	0	-	6	0	-	0	6	0	4	-	-	0	4	11
0745 - 0800	2	-	0	-	0	2	-	-	-	-	-	0	-	9	3	-	0	12	2	2	-	-	0	4	18
Total	5	0	0	0	0	5	0	0	0	0	0	0	0	27	10	0	0	37	5	14	0	0	0	19	61
Approach %	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	72.97	27.03	0.00	0.00	-	26.32	73.68	0.00	0.00	0.00	-	
PHF	0.63	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.50	0.00	0.00	0.77	0.63	0.88	0.00	0.00	0.00	0.79	0.85
Combination Trucks (8-13)																									
			North	bound											Eastk	ound					West	bound			
				. (South)												-53					GA-21	1 (East)			
_	Left		Right		U-Turn							App		Thru	Right		U-Turn	App	Left	Thru			U-Turn	App	Int
Time 0700 - 0715	1.1 0		1.2 0	<u> </u>	1.3 0	Total 0						Total 0		1.4	1.5		1.6 0	Total 5	1.7 0	1.8			1.9 0	Total 4	Total 9
0715 - 0730	0	H	0	1	0	0	H÷-			<u> </u>	-	0	<u> </u>	3	1	-	0	4	0	3	-		0	4	7
0730 - 0745	1	- 1	0	-	0	1	-	-	-	-	-	0	-	2	0	-	0	2	0	6	-	-	0	6	9
0745 - 0800	2	-	0	-	0	2	-	-	-	-	-	0	-	2	3	-	0	5	0	8	-	-	0	8	15
											-			_	-	-					_				
Total Approach %	3 100.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0	0.00	11 68.75	5 31.25	0.00	0.00	16	0.00	21 100.00	0.00	0.00	0.00	21	40
PHF	0.38	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.42	0.00	0.00	0.80	0.00	0.66	0.00	0.00	0.00	0.66	0.67
																									•
Bikes		_			_	_	_	_	_					_			_	_		_			_		
				bound (South)												ound						bound 1 (East)			
	Left	1	Right		U-Turn	Арр						Арр		Thru	Right		U-Turn	Арр	Left	Thru	GA-ZI	+ (Last)	U-Turn	Арр	Int
Time	1.1	1	1.2		1.3	Total						Total		1.4	1.5		1.6	Total	1.7	1.8			1.9	Total	Total
0700 - 0715	0	-	0	-	0	0	-	-	-	-	-	0	-	0	0	-	0	0	0	0	-	-	0	0	0
0715 - 0730	0	· ·	0	-	0	0	-		-	-	-	0	-	0	0	-	0	0	0	0	-	-	0	0	0
0730 - 0745 0745 - 0800	0	-	0	-	0	0		-	-	-	-	0		0	0	-	0	0	0	0	-	-	0	0	0
0743 - 0600	- U	<u> </u>	U		U	0	<u> </u>	-	-			0		U	U		U	0	U	U	<u> </u>		U	0	0
Total	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
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Session Parameters

(Drop Down Menu)

Peak Hour

Volume

0

Peak Hour Turning Movement Count

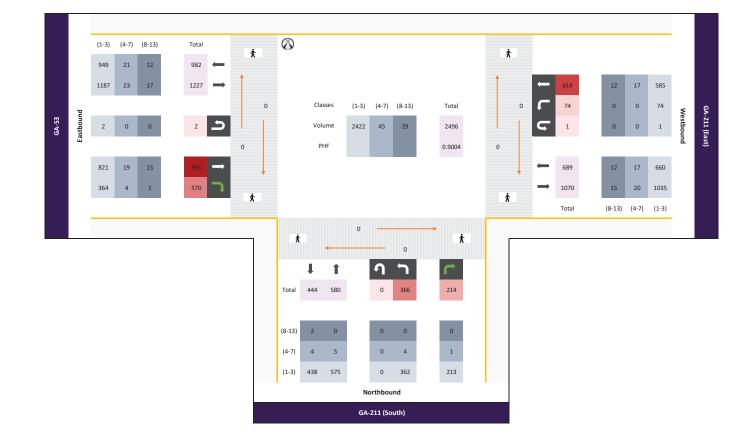
Hall County, GA

 Tuesday, January 30, 2024

 Period
 1600 - 1800

 Peak Hour
 1700 - 1800

* the Peak Hour Diagram does not include Bikes



Q <u>Click here for Map</u>

 0.00
 0.00
 0.00
 0.00
 0.00

 0.00
 0.00
 0.00
 0.00
 0.00

0.00

All vehicles		Northb	oound											Eastbo	ound					West	bound		
		GA-211 ((South)											GA-	53					GA-21	1 (East)		
	Left	Right		U-Turn	Арр						App		Thru	Right		U-Turn	App	Left	Thru			U-Turn	App
Time	1.1	1.2		1.3	Total						Total		1.4	1.5		1.6	Total	1.7	1.8			1.9	Total
1700 - 1715	67 -	72		0	139	-	-	-	-	-	0	-	252	66	-	0	318	21	164	-	-	1	186
1715 - 1730	111 -	74	-	0	185	-	-	-	-	-	0	-	221	111	-	1	333	14	161	-	-	0	175
1730 - 1745	109 -	32	-	0	141	-	-	-	-	-	0	-	179	94	-	1	274	17	149	-	-	0	166
1745 - 1800	79 -	36	-	0	115	-	-	-	-	-	0	-	203	99	-	0	302	22	140	-	-	0	162
Total	200 0	1 244	0		500	0	0	0		0	0	0	055	270	0	2	4007	74	64.4	<u> </u>		1	600
Approach %	366 0 63.10 0.00	214 36.90	0.00	0.00	580	0.00	0.00	0.00	0.00	0.00	0	0.00	855 69.68	370 30.15	0.00	2 0.16	1227	74 10.74	614 89.11	0.00	0.00	1 0.15	689
PHF	0.82 0.00		0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.83	0.00	0.16	0.92	0.84	0.94	0.00	0.00	0.15	0.93
	0.82 0.00	0.72	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.85	0.00	0.50	0.52	0.84	0.94	0.00	0.00	0.25	0.93
assenger Vehicles (1-3)		Northb	bound											Eastbo	ound					West	bound		
		GA-211 ((South)											GA-	53					GA-21	1 (East)		
	Left	Right	<u> </u>	U-Turn	Арр				<u> </u>	1	App		Thru	Right		U-Turn	Арр	Left	Thru		Ľ	U-Turn	App
Time	1.1	1.2		1.3	Total						Total		1.4	1.5		1.6	Total	1.7	1.8			1.9	Total
1700 - 1715	67 -	71	-	0	138	-	-	-	-	- 1	0	-	235	66	-	0	301	21	154	-	-	1	176
1715 - 1730	109 -	74		0	183		-	-			0	-	211	109	-	1	321	14	156	-	-	0	170
1730 - 1745	109 -	32	-	0	141	-	-	-	-	-	0	-	176	91	-	1	268	17	140	-	-	0	157
1745 - 1800	77 -	36	-	0	113	-	-	-	-	-	0	-	199	98	-	0	297	22	135	-	-	0	157
Total	362 0	213	0	0	575	0	0	0	0	0	0	0	821	364	0	2	1187	74	585	0	0	1	660
Approach %	62.96 0.00		0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	69.17	30.67	0.00	0.17	-	11.21	88.64	0.00	0.00	0.15	-
PHF	0.83 0.00	0.72	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.83	0.00	0.50	0.92	0.84	0.94	0.00	0.00	0.25	0.94
ngle Unit Trucks (4-7)																							
		Northb												Eastbo							bound		
		GA-211 ((South)											GA-	53					GA-21	1 (East)		
	Left	Right		U-Turn	App						Арр		Thru	Right		U-Turn	Арр	Left	Thru			U-Turn	Арр
Time	1.1	1.2		1.3	Total						Total		1.4	1.5		1.6	Total	1.7	1.8			1.9	Total
1700 - 1715	0 -	1	-	0	1	-	-	-	-	-	0	-	10	0	-	0	10	0	9	-	-	0	9
1715 - 1730	2 -	0	-	0	2	-	-	-	-	-	0	-	5	1	-	0	6	0	3	-	-	0	3
1730 - 1745	0 -	0	-	0	0	-	-	-	-	-	0	-	2	3	-	0	5	0	4	-	-	0	4
1745 - 1800	2 -	0	-	0	2	-	-	-	-	-	0	-	2	0	-	0	2	0	1	-	-	0	1
Total	4 0	1	0	0	5	0	0	0	0	0	0	0	19	4	0	0	23	0	17	0	0	0	17
Approach %	80.00 0.00		0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	82.61	17.39	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-
PHF	0.50 0.00	0.25	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.33	0.00	0.00	0.58	0.00	0.47	0.00	0.00	0.00	0.47
Sindination macks (8-13)		AL - shirts												E. alt						14/	h a const		
Simplification marks (8-13)		Northb												Eastbo							bound		
		GA-211 ((South)											GA-				1.6			bound 1 (East)	1	
	Left	GA-211 (Right	(South)	U-Turn	App						App		Thru	GA- Right		U-Turn	App	Left	Thru			U-Turn	App
Time	1.1	GA-211 (Right 1.2	(South)	1.3	Total						Total		1.4	GA- Right 1.5	53	1.6	App Total	1.7	1.8	GA-21	1 (East)	1.9	Total
Time 1700 - 1715	1.1 0 -	GA-211 (Right 1.2 0	(South)	1.3 0	Total 0	-	-	-	-	-	Total 0	-	1.4 7	GA- Right 1.5 0	-	1.6 0	Total 7	1.7 0	1.8 1			1.9 0	Total 1
Time 1700 - 1715 1715 - 1730	1.1 0 - 0 -	GA-211 (Right 1.2 0 0	(South)	1.3 0 0	Total 0 0	-	-	-	-	-	Total 0 0	-	1.4 7 5	GA- Right 1.5 0 1		1.6 0 0	Total 7 6	1.7 0 0	1.8 1 2	GA-21	1 (East)	1.9 0 0	Total 1 2
Time 1700 - 1715 1715 - 1730 1730 - 1745	1.1 0 - 0 - 0 -	GA-211 (Right 1.2 0 0 0	(South)	1.3 0 0	Total 0 0	-		-	- - -		Total 0 0	-	1.4 7 5 1	GA- Right 1.5 0 1 0	-	1.6 0 0	Total 7 6 1	1.7 0 0	1.8 1 2 5	GA-21	1 (East) - -	1.9 0 0	Total 1 2 5
Time 1700 - 1715 1715 - 1730	1.1 0 - 0 -	GA-211 (Right 1.2 0 0	(South)	1.3 0 0	Total 0 0	- - - -	-	- - -			Total 0 0		1.4 7 5	GA- Right 1.5 0 1		1.6 0 0	Total 7 6	1.7 0 0	1.8 1 2	GA-21	1 (East)	1.9 0 0	Total 1 2
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800	1.1 0 0 0 0 0 0 0	GA-211 (Right 1.2 0 0 0 0	(South) - - -	1.3 0 0 0 0	Total 0 0 0		-	-	-	-	Total 0 0 0 0	- - - -	1.4 7 5 1 2	GA- Right 1.5 0 1 0 1		1.6 0 0 0	Total 7 6 1 3	1.7 0 0 0	1.8 1 2 5 4	GA-21	1 (East) - - - -	1.9 0 0 0	Total 1 2 5 4
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total	1.1 0 - 0 - 0 - 0 - 0 - 0 - 0 0	GA-211 (Right 1.2 0 0 0 0 0 0	(South) 	1.3 0 0 0 0	Total 0 0	- - - 0	- - - 0	0	0	0	Total 0 0 0 0	- - - 0	1.4 7 5 1 2 15	GA- Right 1.5 0 1 0 1 1 2	53 - - - - 0	1.6 0 0 0 0	Total 7 6 1 3 17	1.7 0 0 0 0	1.8 1 2 5 4	GA-21	1 (East) 0	1.9 0 0 0 0	Total 1 2 5 4 12
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.00	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0	Total 0 0 0 0 0 -	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24	GA- Right 1.5 0 1 0 1 2 11.76	53 - - - - 0 0.00	1.6 0 0 0 0 0 0 0.00	Total 7 6 1 3 17 -	1.7 0 0 0 0 0 0.00	1.8 1 2 5 4 12 100.00	GA-21	1 (East) - - - 0 0.00	1.9 0 0 0 0 0 0 0 0.00	Total 1 2 5 4 12 -
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total	1.1 0 - 0 - 0 - 0 - 0 - 0 - 0 0	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0	Total 0 0 0		- - - 0	0	0	0	Total 0 0 0 0		1.4 7 5 1 2 15	GA- Right 1.5 0 1 0 1 1 2	53 - - - - 0	1.6 0 0 0 0	Total 7 6 1 3 17	1.7 0 0 0 0	1.8 1 2 5 4	GA-21	1 (East) 0	1.9 0 0 0 0	Total 1 2 5 4 12
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.00	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0	Total 0 0 0 0 0 -	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24	GA- Right 1.5 0 1 0 1 1 2 11.76	53 - - - - 0 0.00	1.6 0 0 0 0 0 0 0.00	Total 7 6 1 3 17 -	1.7 0 0 0 0 0 0.00	1.8 1 2 5 4 12 100.00	GA-21	1 (East) - - - 0 0.00	1.9 0 0 0 0 0 0 0 0.00	Total 1 2 5 4 12 -
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.00	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0	Total 0 0 0 0 0 -	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24	GA- Right 1.5 0 1 0 1 1 2 11.76	53 - - - - 0 0.00	1.6 0 0 0 0 0 0 0.00	Total 7 6 1 3 17 -	1.7 0 0 0 0 0 0.00	1.8 1 2 5 4 12 100.00	GA-21	1 (East) - - - 0 0.00	1.9 0 0 0 0 0 0 0 0.00	Total 1 2 5 4 12 -
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.00	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0	Total 0 0 0 0 0 -	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24	GA- Right 1.5 0 1 0 1 2 11.76 0.50	53 - - - 0.00 0.00 0.00	1.6 0 0 0 0 0 0 0.00	Total 7 6 1 3 17 -	1.7 0 0 0 0 0 0 0.00	1.8 1 2 5 4 12 100.00	GA-21	1 (East) - - 0 0.00 0.00	1.9 0 0 0 0 0 0 0 0.00	Total 1 2 5 4 12 -
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.00	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0	Total 0 0 0 0 0 -	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24	GA- Right 1.5 0 1 0 1 2 11.76 0.50 Eastbo	53 - - - - 0 0.00 0.00 0.00	1.6 0 0 0 0 0 0 0.00	Total 7 6 1 3 17 -	1.7 0 0 0 0 0 0 0.00	1.8 1 2 5 4 12 100.00	GA-21	1 (East) - - 0 0.00 0.00 0.00	1.9 0 0 0 0 0 0 0 0.00	Total 1 2 5 4 12 -
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF		GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0 0.00 0.00	Total 0 0 0 - - 0.00	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 - 0.00	0.00	1.4 7 5 1 2 15 88.24 0.54	GA- Right 1.5 0 1 0 1 1 2 11.76 0.50 Eastbo GA-	53 - - - - 0 0.00 0.00 0.00	1.6 0 0 0 0 0.00 0.00	Total 7 6 1 3 3 17 - 0.61	1.7 0 0 0 0 0.00 0.00	1.8 1 2 5 4 100.00 0.60	GA-21	1 (East) - - 0 0.00 0.00	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Kes	1.1 0 - 0 - 0 - 0 - 0 - 0 - 0 0 0.00 0.00 0.00 0.00 Left	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0.00 0.00 0.00	Total 0 0 0 0 - 0.00 - 0.00	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24 0.54	GA- Right 1.5 0 1 0 1 1 2 11.76 0.50 Eastbo GA- Right	53 - - - - 0 0.00 0.00 0.00	1.6 0 0 0 0.00 0.00 0.00 U-Turn	Total 7 6 1 3 - 0.61	1.7 0 0 0 0 0.00 0.00 0.00	1.8 1 2 5 4 100.00 0.60 Thru	GA-21	1 (East) - - 0 0.00 0.00 0.00	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF	1.1 0 - 0 - 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0.00 0.00 0.00 0.00 0.00 Left 1.1	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0.00 0.00 0.00 U-Turn 1.3	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24 0.54	GA- Right 1.5 0 1 0 1 2 11.76 0.50 Eastbo GA- Right 1.5	53 - - - - 0 0.00 0.00 0.00	1.6 0 0 0 0 0.00 0.00 0.00 U-Turn 1.6	Total 7 6 1 3 - - 0.61 6 0.61	1.7 0 0 0 0 0.00 0.00 0.00	1.8 1 2 5 4 100.00 0.60 Thru 1.8	GA-21	1 (East) - - 0 0.00 0.00 0.00	1.9 0 0 0 0 0.00 0.00 0.00	Total 1 2 5 4 12 - 0.60
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF kes 1700 - 1715	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0.00 0.00 0.00 Left 1.1 0	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0.00 0.00 0.00 0.00 0.00	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	- - - 0 0.00	- - 0 0.00	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24 0.54 Thru 1.4 0	GA- Right 1.5 0 1 0 1 1.76 0.50 Eastbo GA- Right 1.5 0	53 - - - - 0 0.00 0.00 0.00	1.6 0 0 0 0 0.00 0.00 0.00 U-Turn 1.6 0	Total 7 6 1 3 17 - 0.61 0.61 App Total 0	1.7 0 0 0 0 0.00 0.00 0.00 0.00	1.8 1 2 5 4 100.00 0.60 Thru 1.8 0	GA-21	1 (East) - - 0 0.00 0.00 0.00	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Kes 1700 - 1715 1700 - 1715	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0.00 0.00 0.00 0 0 0 0 0 0	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 0 - 0.00 - 0.00 - 0.00	0.00	- - 0 0.00 0.00 - -	- - 0 0.00 0.00 - -	- - - 0 0.00 0.00 0.00	- - - 0 0.00 0.00 0.00	Total 0 0 0 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24 0.54 0.54 0.54	GA- Right 1.5 0 1 0 1 1.76 0.50 Eastbo GA- Right 1.5 0 0 0	53 - - - - 0 0.00 0.00 0.00 0.00 0.00	1.6 0 0 0 0.00 0.00 0.00 0.00 0.00	Total 7 6 1 3 17 - 0.61 0 6 0 0 0	1.7 0 0 0 0.00 0.00 0.00 Left 1.7 0 0	1.8 1 2 5 100.00 0.60 Thru 1.8 0 0	GA-21 - - - - - - - - - - - - -	1 (East) - - - - - - - - - - 0 0.000 0.00 0.00 0.00 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF 1700 - 1715 1700 - 1745 1730 - 1745 1730 - 1745	1.1 0 - 0 - 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 - 0 - 0 - 0 - 0 - 0 - 0 -	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	- - - 0 0.00	- - 0.00 0.00 - - - -	- - - 0 0.00	- - - 0 0.00	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24 0.54 0.54 0.54	GA- Right 1.5 0 1 0 1 2 11.76 0.50 Eastbo GA- Right 1.5 0 0 0 0 0 0	53 - - - - - - - - - - - - - - - - - - -	1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 7 6 1 3 3	1.7 0 0 0 0.00 0.00 0.00 Left 1.7 0 0 0	1.8 1 2 5 4 12 100.00 0.60 Thru 1.8 0 0 0 0 0	GA-21 - - - - - - - - - - - - - - - - - -	1 (East) - - 0 0.00 0.00 0.00	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60 App Total 0 0 0 0
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Kes 1700 - 1715 1700 - 1715	1.1 0 0 0 0 0 0 0 0 0 0 0 0 0.00 0.00 0.00 0 0 0 0 0 0	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 0 - 0.00 - 0.00 - 0.00	0.00	- - 0 0.00 0.00 - -	- - 0 0.00 0.00 - -	- - - 0 0.00 0.00 0.00	- - - 0 0.00 0.00 0.00	Total 0 0 0 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24 0.54 0.54 0.54	GA- Right 1.5 0 1 0 1 1.76 0.50 Eastbo GA- Right 1.5 0 0 0	53 - - - - 0 0.00 0.00 0.00 0.00 0.00	1.6 0 0 0 0.00 0.00 0.00 0.00 0.00	Total 7 6 1 3 17 - 0.61 0 6 0 0 0	1.7 0 0 0 0.00 0.00 0.00 Left 1.7 0 0	1.8 1 2 5 100.00 0.60 Thru 1.8 0 0	GA-21 - - - - - - - - - - - - -	1 (East) - - - - - - - - - - 0 0.000 0.00 0.00 0.00 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60
Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF 1700 - 1715 1730 - 1745 1730 - 1745 1730 - 1745 1730 - 1745	1.1 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 -	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) - - - - - - - - - - - - -	1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 - - - -	- - 0.00 0.00 - - - - -	- - 0.00 0.00 - - - - -	- - - 0.00 0.00 - - - - -	- - - - - - - - - - - -	Total 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00	1.4 7 5 1 2 15 88.24 0.54	GA- Right 1.5 0 1 0 1 1 2 11.76 0.50 Eastbo GA- Right 1.5 0 0 0 0 0 0 0 0 0 0 0 0 0	53 - - - - - - - - - - - - - - - - - - -	1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 7 6 1 3 3 17 - 0.61 0 0.61	1.7 0 0 0 0.00 0.00 0.00 0.00	1.8 1 2 5 4 100.00 0.60 Thru 1.8 0 0 0 0 0 0 0 0 0 0 0 0 0	GA-21 - - - - - - - - - - - - -	1 (East) - - - - - - - - - - - - -	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60 0 0 0 0 0 0 0 0 0 0
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF ikes Time 1700 - 1715 1715 - 1730 1713 - 1745	1.1 0 - 0 - 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 - 0 - 0 - 0 - 0 - 0 - 0 -	GA-211 (Right 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0	(South) 	1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	- - 0 0.00 0.00 - -	- - 0.00 0.00 - - - -	- - - 0 0.00 0.00 0.00	- - - 0.00 0.00 0.00	Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	1.4 7 5 1 2 15 88.24 0.54 0.54 0.54	GA- Right 1.5 0 1 0 1 2 11.76 0.50 Eastbo GA- Right 1.5 0 0 0 0 0 0	53 - - - - - - - - - - - - - - - - - - -	1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 7 6 1 3 3	1.7 0 0 0 0.00 0.00 0.00 Left 1.7 0 0 0	1.8 1 2 5 4 12 100.00 0.60 Thru 1.8 0 0 0 0 0	GA-21 - - - - - - - - - - - - - - - - - -	1 (East) - - - - - - - - - - 0 0.000 0.00 0.00 0.00 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1 2 5 4 12 - 0.60 App Total 0 0 0 0

0.00

0.00

0.00

0.00 0.00 0.00 0.00 0.00 0.00

Approach % PHF 0.00 0.00 0.00

0.00

0.00 0.00

0.00 0.00

0.00

24-Hour Classification Count SR 211 south of Daylily Dr.

ECTIO	Marr Tr									15min	NB EB	ss Count		Bi-Direct	
errtraffic.o	www.ma												24	Hall County, C	
					Weather Fair			ary 30, 2024	Date Tuesday, Janu					Site 1 GA-211 (East)	
					47°F				Lat/Long				ily Dr	south of Dayli	
			her	Detailed Weat	Click here for			83.835738°	34.161821°, -						
							Map	Click here for	9						
											0-2024)	Session) (01-3	Weekday 24h	0000 - 2400 (NB EB 15min	
60m	15min	12	12		10			ound (Movem							
Tota	Total 6	13	0	11	10	9	8	0	6	5	4	3	2	0	5
	7 7	0	0	0	0	0	0	0	0	0	0	3 4	4	0	0 5
24	4	0	0	0	0	0	0	0	0	0	0	1	3	0	0 5
	5 4	0	0	0	0	0	0	0	0	0	0	2 0	3 3	0	0 5
15	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0
	2 7	0	0	0	0	0	0	0	0	0	0	0	2	0	5 0
23	7 7	0	0	0	0	0	0	0	0	3 0	1 0	0	3 3	0	5 0
	5 3	0	0	0	0	0	0	0	0	1	0	1	3	0	5
19	5	0	0	0	0	0	0	0	0	0	0	2	3	0	5 0
19	6	0	0	0	0	0	0	0	0	0	0	3	4	0	5
	12 17	0	0	0	0	0	0	0	0	0	0	5 10	7 7	0	0 5
51	16 18	0	0	0	0	1	0	0	0	3	0	4	8	0	0 5
	17 36	0	0	0	0	2	0	0	0	1	0	6 14	8 21	0	0
100	29	0	0	0	0	0	0	0	0	0	0	11	18	0	0
	56 78	0	0	0	0	0	0	0	0	0 4	0	11 14	45 60	0	5 0
326	91 101	0	0	0	0	0	0	0	1 0	3 2	0	17 19	70 80	0	5 0
	109 139	0	0	0	0	0	0	0	0	1 0	0	20 26	88 113	0	5
	148	0	0	0	0	1	0	0	0	1	0	34	112	0	5
513	117 100	0	0	0	0	1	1	0	0	2	1	26 36	86 63	0	0 5
	84 117	0	0	0	0	0	0	0	0	0	0	16 34	68 81	0	0 5
403	102 105	0	0	0	0	3	0	0	0	0	0	25 22	74 78	0	0
	100	0	0	0	0	0	0	0	1	2	0	29	68	0	0
378	89 84	0	0	0	0	1	0	0	0	3 5	0	18 27	67 50	0	5 0
	84 99	0	0	0	0	3 0	1	0	2	3 5	0	20 20	55 69	0	5 0
366	90 93	0	0	0	0	0	1	0	1	3	0	22 23	63 66	0	5 0
300	76	0	0	0	0	1	0	0	0	4	0	18	53	0	5
	81 94	0	0	0	0	3 0	0	0	0	4 3	0	19 23	55 68	0	0 5
315	64 98	0	0	0	0	0	0	0	0	2	0	16 29	46 61	0	0 5
	91 95	0	0	0	0	1 3	2 0	0	0 2	3 3	0	21 18	64 69	0	0 5
347	63 86	0	0	0	0	2	0	0	2	0	0	19	40	0	0 5
	82	0	0	0	0	1	0	0	2	1	1	18	59	0	0
346	85 93	0	0	0	0	0 4	0	0	0	1	0	10 25	74 60	0	5 0
	90 90	0	0	0	1	1	0	0	0	0 4	0	21 18	67 65	0	5 0
378	96 102	0	0	0	0	0	1	0	0	0	4 0	34 26	57 74	0	5 0
	104 116	0	0	0	1	1 0	0	0	1	3	1	15 17	82 95	0	5 0
	109	0	0	0	0	1	1	0	2	1	0	18	86	0	5
462	133 120	0	0	0	0	0	2	0	2	4	0	32 29	93 85	0	0 5
	122 112	0	0	0	0	1	0	0	0	2 0	1	25 31	92 80	1	0 5
478	124	0	0	0	0	0	0	0	0	2	0	28	94	0	0 5
	181	0	0	0	0	0	0	0	0	2	0	32	147	0	0
590	137 127	0	0	0	0	0	0	0	0	0 2	0	29 16	107 108	1 1	5 0
	108 112	0	0	0	0	0	0	0	0	1 0	1 0	21 22	85 88	0	5 0
399	100 79	0	0	0	0	0	0	0	0	1 0	0	12 16	87 63	0	5
333	70	0	0	0	0	0	0	0	0	1	0	11	58	0	5
	87 64	0	0	0	0	0	1 0	0	0	2 2	0	17 13	67 49	0	0 5
266	45 37	0	0	0	0	0	0	0	0	1	0	8 10	36 27	0	0 5
	40 65	0	0	0	0	0	0	0	0	0	0	9 15	31 50	0	5
	30	0	0	0	0	0	0	0	0	0	0	6	24	0	0
172	36	0	0	0	0	0				0	0	8	28	0	5

1	70	0	0	0	0	0	0	0	0	-	0	11	20	0	1900-1919
	87	0	0	0	0	0	1	0	0	2	0	17	67	0	1915 - 1930
	64	0	0	0	0	0	0	0	0	2	0	13	49	0	1930 - 1945
266	45	0	0	0	0	0	0	0	0	1	0	8	36	0	1945 - 2000
	37	0	0	0	0	0	0	0	0	0	0	10	27	0	2000 - 2015
1	40	0	0	0	0	0	0	0	0	0	0	9	31	0	2015 - 2030
1	65	0	0	0	0	0	0	0	0	0	0	15	50	0	2030 - 2045
172	30	0	0	0	0	0	0	0	0	0	0	6	24	0	2045 - 2100
	36	0	0	0	0	0	0	0	0	0	0	8	28	0	2100 - 2115
	29	0	0	0	0	0	0	0	0	0	0	5	24	0	2115 - 2130
	20	0	0	0	0	1	0	0	0	0	0	3	16	0	2130 - 2145
122	37	0	0	0	0	1	0	0	0	0	0	6	30	0	2145 - 2200
	23	0	0	0	0	0	1	0	0	0	0	3	19	0	2200 - 2215
1	21	0	0	0	0	0	0	0	0	1	0	2	18	0	2215 - 2230
1	18	0	0	0	0	0	0	0	0	0	0	2	16	0	2230 - 2245
75	13	0	0	0	0	0	0	0	0	0	0	2	11	0	2245 - 2300
	13	0	0	0	0	0	0	0	0	0	0	1	12	0	2300 - 2315
	13	0	0	0	0	0	0	0	0	0	0	3	10	0	2315 - 2330
	9	0	0	0	0	0	0	0	0	0	0	2	7	0	2330 - 2345
43	8	0	0	0	0	0	0	0	0	0	0	1	7	0	2345 - 0000
1	6211	0	0	0	2	50	17	0	35	113	14	1365	4611	4	Session Total
1	64.70	0.00	0.00	0.00	0.02	0.52	0.18	0.00	0.36	1.18	0.15	14.22	48.03	0.04	Session Average
		0.00	0.00	0.00	0.03	0.81	0.27	0.00	0.56	1.82	0.23	21.98	74.24	0.06	Session Percentage
I	0700 - 0800					0815 - 0915	0945 - 1045		0945 - 1045	0930 - 1030	0500 - 0600	0715 - 0815	0700 - 0800		AM Peak Hour
1	513	0	0	0	0	6	3	0	8	16	1	122	399	0	AM Peak Volume
•	515	v	0	0	0	Ū	5	0	0	10	-	122	333	0	Auto Cak Volume
1	1445 - 1545	-	-	-	1315 - 1415	1200 - 1300	1345 - 1445	-	1230 - 1330	1015 - 1115	1415 - 1515	1400 - 1500	1445 - 1545	-	Noon Peak Hour
1	431	0	0	0	1	10	4	0	8	16	6	99	337	0	Noon Peak Volume
	1700 - 1800	-	-		1500 1600	1530 - 1630	1500 - 1600		1500 - 1600	1500 - 1600	1530 - 1630	1545 - 1645	1700 1800	1700 - 1800	PM Peak Hour

	Bi-Direct	tional Cla	ss Count	SB WI	3 15min									Marr T	ECTION
	Site 1 GA-211 (East south of Dayl				-	Date Tuesday, Jan	uary 30, 2024		-	Weather Fair 47°F				-	
						Lat/Long 34.161821°,	-83.835738°			Click here for	Detailed Wea	ther			
						9	Click here for	Map							
	0000 - 2400 (Weekday 24h	Session) (01-3	30-2024)											
	55 10 151					South	oound (Mover	ent 1.2)						15min	60min
Time 0000 - 0015	1	2	3	4	5	6 0	7	8	9	10 0	11 0	12 0	13 0	Total 7	Total
0015 - 0030 0030 - 0045	0	5 3	2	0	0	0	0	0	0	0	0	0	0	7	
0045 - 0100 0100 - 0115	0	2	1	0	0	0	0	0	0	0	0	0	0	3	22
0115 - 0130 0130 - 0145	0	5	1 2	0	0	0	0	0	0	0	0	0	0	6	
0145 - 0200 0200 - 0215	0	4	1	0	0	0	0	0	0	0	0	0	0	5	23
0215 - 0230 0230 - 0245	0	5	0	0	0	0	0	0	1	0	0	0	0	6 4	
0245 - 0300 0300 - 0315	0	7	2	0	0	0	0	0	0	0	0	0	0	9	20
0315 - 0330 0330 - 0345	0	4	1	0	0	0	0	0	0	0	0	0	0	5	
0345 - 0400	0	5	0	0	0	0	0	0	0	0	0	0	0	6	17
0400 - 0415 0415 - 0430	0	2 6	0 2	1 0	0	0	0	0	0	0	0	0	0	3 9	
0430 - 0445 0445 - 0500	0	10 14	2 4	0	0	0	0	0	1	0	0	0	0	13 19	44
0500 - 0515 0515 - 0530	0	12 26	6 8	0	1 0	0	0	0	1	0	0	0	0	20 35	
0530 - 0545 0545 - 0600	0	31 37	11 12	0	0	0	0	0	0	0	0	0	0	42 50	147
0600 - 0615 0615 - 0630	0	60 80	16 18	0	1	0	0	0	0	0	0	0	0	77 99	
0630 - 0645 0645 - 0700	0	60 55	14 12	0	3 2	0	0	0	0	0	0	0	0	77 69	322
0700 - 0715	0	72	18 23	0	6	0	0	0	1	0	0	0	0	97	
0730 - 0745 0745 - 0800	0	117 144	18 29	0	0	0	0	0	0	0	0	0	0	135 181	509
0800 - 0815	0	100	30	1	1	2	0	0	2	0	0	0	0	136	509
0815 - 0830 0830 - 0845	0	91 67	22 24	0	2 5	2 0	0	0	0	0	0	0	0	117 96	
0845 - 0900 0900 - 0915	0	84 61	18 25	0	1	0	0	0	2	0	0	0	0	105 90	454
0915 - 0930 0930 - 0945	0	50 66	14 17	0	4	2	0	0	1	0	0	0	0	71 86	
0945 - 1000 1000 - 1015	0	60 58	23 19	0	3	2	0	0	0	0	0	0	0	88 81	335
1015 - 1030 1030 - 1045	0	47 51	25 16	0	1 2	1 0	0	0	0	0	0	0	0	74 70	
1045 - 1100 1100 - 1115	0	53 72	11	0	1 6	0	0	0	1	0	0	0	0	66 89	291
1115 - 1130 1130 - 1145	0	60 52	10	0	5	2	0	1	1	0	0	0	0	79	
1145 - 1200 1200 - 1215	0	49	20	0	5	0	0	0	0	0	0	0	0	74	315
1215 - 1230 1230 - 1245	0	40 73	20 24 22	0	1 2	1	0	0	1	0	0	0	0	67	
1245 - 1300	0	69	17	0	3	3	0	0	0	0	0	0	0	92	335
1300 - 1315 1315 - 1330	0	57 54	22 17	1 2	2 3	0	0	0	1	0	0	0	0	83 79	
1330 - 1345 1345 - 1400	0	62 55	19 20	0	0	0	0	0	2	0	0	0	0	83 78	323
1400 - 1415 1415 - 1430	0	63 71	14 21	0	3 1	1 0	0	0	2	0	0	0	0	83 97	
1430 - 1445 1445 - 1500	0	74 84	14 23	2	3 2	0	0	0	4	0	0	0	0	97 111	388
1500 - 1515 1515 - 1530	0	92 99	31 30	2	2	1	0	0	1 1	0	0	0	0	129 133	
1530 - 1545 1545 - 1600	1	94 99	24 16	0 2	0	0	0	0	0	0	0	0	0	119 118	499
1600 - 1615 1615 - 1630	0	70 89	25 20	1	0	0	0	0	1	0	0	0	0	97 110	
1630 - 1645 1645 - 1700	0	79 104	22 19	0	2	0	0	0	1	0	0	0	0	104 124	435
1700 - 1715 1715 - 1730	0	63 84	19 28	0	0	0	0	0	0	0	0	0	0	82 114	455
1730 - 1745 1745 - 1800	0	83 84	25	0	3	0	0	0	0	0	0	0	0	111	420
1745 - 1800 1800 - 1815 1815 - 1830	0	69	28	0	0	0	0	1	1	0	0	0	0	99	420
1830 - 1845	0	81 72	21 10	0	2 1	0	0	0	1	0	0	0	0	105 83	
1845 - 1900 1900 - 1915	0	52 49	13 10	0	0	0	0	0	0	0	0	0	0	65 60	352
1915 - 1930 1930 - 1945	0	65 51	12 9	0	0	0	0	0	1 0	0	0	0	0	78 60	
1945 - 2000 2000 - 2015	0	49 55	9 15	0	0	0	0	1	0	0	0	0	0	59 72	257
2015 - 2030 2030 - 2045	0	49 44	7	1 0	0	0	0	0	0	0	0	0	0	57 53	
2045 - 2100 2100 - 2115	0	43	8	0	0	0	0	1 0	0	0	0	0	0	52	234
2100 - 2115 2115 - 2130 2130 - 2145	0	32 36	6	0	0	0	0	0	0	0	0	0	0	47 38 42	
2145 - 2200	0	19	4	0	0	0	0	0	0	0	0	0	0	23	150
2200 - 2215 2215 - 2230	0	12 11	2	0	0	0	0	0	0	0	0	0	0	14 14	
2230 - 2245 2245 - 2300	0	9 16	1 3	0	1 0	0	0	0	0	0	0	0	0	11 19	58
2300 - 2315 2315 - 2330	0	10 7	2	0	0	0	0	0	0	0	0	0	0	12 9	
2330 - 2345 2345 - 0000	0	6 5	2 2	0	0	0	0	0	0	0	0	0	0	8 7	36

Session Total	2	4546	1232	19	108	25	0	9	44	4	0	0	0	5986
	2									1		-		
Session Average	0.02	47.35	12.83	0.20	1.13	0.26	0.00	0.09	0.46	0.01	0.00	0.00	0.00	62.35
Session Percentage	0.03	75.94	20.58	0.32	1.80	0.42	0.00	0.15	0.74	0.02	0.00	0.00	0.00	
														_
AM Peak Hour	-	0730 - 0830	0745 - 0845	0715 - 0815	0630 - 0730	0900 - 1000	-	-	0715 - 0815	-	-	-	-	0730 - 0830
AM Peak Volume	0	452	105	5	15	5	0	0	6	0	0	0	0	569
														•
Noon Peak Hour	1330 - 1430	1445 - 1545	1445 - 1545	1415 - 1515	1100 - 1200	1200 - 1300	-	1115 - 1215	1345 - 1445	-	-	-	-	1445 - 1545
Noon Peak Volume	1	369	108	6	19	5	0	2	8	0	0	0	0	492
PM Peak Hour	1500 - 1600	1500 - 1600	1715 - 1815	1500 - 1600	1730 - 1830	1500 - 1600	-	1715 - 1815	1500 - 1600	1600 - 1700	-	-	-	1500 - 1600
PM Peak Volume	1	384	109	4	5	2	0	2	3	1	0	0	0	499

Bi-Directional Class Count	Bi-Directional 15min	Q	Marr Traffic
Hall County, GA			www.marrtraffic.com
Site 1	Date	Weather	_
GA-211 (East),	Tuesday, January 30, 2024	Fair	
south of Daylily Dr		47°F	
	Lat/Long 34.161821°, -83.835738°	Click here for Detailed Weather	

	0000 - 2400 Bi-Directiona	(Weekday 24h	Session) (01-3	0-2024)											
							Directional 15							15min	60min
Time 0000 - 0015	1 0	2	3	4	5	6	7	8	9	10	11 0	12	13 0	Total 13	Total
0015 - 0030	0	9	5	0	ō	0	0	0	0	0	ō	0	0	14	
0030 - 0045	0	6	6	0	0	0	0	0	0	0	0	0	0	12	
0045 - 0100 0100 - 0115	0	5	2	0	0	0	0	0	0	0	0	0	0	7	46
0100 - 0115 0115 - 0130	0	8	3	0	0	0	0	0	0	0	0	0	0	10	
0130 - 0145	0	7	2	0	0	0	0	0	1	0	0	0	0	10	
0145 - 0200	0	5	2	0	0	0	0	0	0	0	0	0	0	7	38
0200 - 0215 0215 - 0230	0	2	0	0	0	0	0	0	1	0	0	0	0	3 13	
0215 - 0230 0230 - 0245	0	6	3 0	0	0	0	0	0	1	0	0	0	0	13	
0245 - 0300	0	10	4	0	0	0	0	1	1	0	0	0	0	16	43
0300 - 0315	0	6	1	0	1	0	0	0	0	0	0	0	0	8	
0315 - 0330	0	6	1	0	1	0	0	0	0	0	0	0	0	8	
0330 - 0345 0345 - 0400	0	6	2	0	0	0	0	0	0	0	0	0	0	8 12	36
0400 - 0415	0	5	3	1	0	0	0	0	0	0	0	0	0	9	
0415 - 0430	0	13	7	0	1	0	0	0	0	0	0	0	0	21	
0430 - 0445 0445 - 0500	0	17	12	0	0	0	0	0	1	0	0	0	0	30	
0445 - 0500 0500 - 0515	0	22	8	0	3	0	0	1 0	1 3	0	0	0	0	35 38	95
0515 - 0530	0	34	10	0	1	0	0	0	3	0	0	0	0	52	
0530 - 0545	0	52	25	0	0	0	0	0	1	0	0	0	0	78	
0545 - 0600	0	55	23	0	0	0	0	0	1	0	0	0	0	79	247
0600 - 0615	0	105 140	27 32	0	1	0	0	0	0	0	0	0	0	133 177	
0615 - 0630 0630 - 0645	0	140	32	0	5	0	0	0	0	0	0	0	0	168	
0645 - 0700	0	135	31	0	4	0	0	0	0	0	0	0	0	170	648
0700 - 0715	0	160	38	0	7	0	0	0	1	0	0	0	0	206	
0715 - 0730	0	181	49	0	4	0	0	0	1	0	0	0	0	235	
0730 - 0745 0745 - 0800	0	229 230	52 55	0	1 3	0	0	0	1 4	0	0	0	0	283 298	1022
0800 - 0815	0	163	66	1	1	3	0	0	4	0	0	0	0	236	1022
0815 - 0830	0	159	38	0	2	2	0	0	0	0	0	0	0	201	
0830 - 0845	0	148	58	0	5	0	0	0	2	0	0	0	0	213	057
0845 - 0900	0	158 139	43	0	1	0	0	0	5	0	0	0	0	207 195	857
0915 - 0930	0	118	47	0	6	3	0	0	1	0	0	0	0	195	
0930 - 0945	0	133	35	0	5	1	0	0	1	0	0	0	0	175	
0945 - 1000	0	110	50	0	8	3	0	0	1	0	0	0	0	172	713
1000 - 1015 1015 - 1030	0	113 116	39 45	0	7	2 5	0	1	3 0	0	0	0	0	165 173	
1015 - 1030	0	110	45	0	5	1	0	1	1	0	0	0	0	1/5	
1045 - 1100	0	119	34	0	5	0	0	0	1	0	0	0	0	159	657
1100 - 1115	0	125	29	0	10	0	0	0	1	0	0	0	0	165	
1115 - 1130	0	115	29	0	9	2	0	1	4	0	0	0	0	160	
1130 - 1145 1145 - 1200	0	120 95	40 36	0	6 7	1 0	0	0	0	0	0	0	0	167 138	630
1200 - 1215	0	108	57	0	3	2	0	2	4	0	0	0	0	176	030
1215 - 1230	0	104	45	0	4	1	0	2	2	0	0	0	0	158	
1230 - 1245	0	142	40	0	5	3	0	0	3	0	0	0	0	193	
1245 - 1300 1300 - 1315	0	109 115	36 43	0	3	5	0	0	2	0	0	0	0	155	682
1300 - 1315 1315 - 1330	0	115	43	3	4	2	0	0	3	0	0	0	0	169 161	
1330 - 1345	0	136	29	0	1	0	0	0	2	0	0	0	0	168	
1345 - 1400	0	115	45	0	3	1	0	2	5	0	0	0	0	171	669
1400 - 1415	0	130	35	0	3	1	0	0	3	1	0	0	0	173	
1415 - 1430 1430 - 1445	1	136 131	39 48	2	5	0	0	2	2	0	0	0	0	187 193	
1445 - 1500	0	158	49	1	3	1	0	0	1	0	ō	0	0	213	766
1500 - 1515	0	174	46	3	5	2	0	0	2	1	0	0	0	233	
1515 - 1530	0	194	47	0	3	4	0	0	1	0	0	0	0	249	
1530 - 1545 1545 - 1600	1	180 192	42 48	0	1 4	2	0	1 2	1	0	0	0	0	228 251	961
1600 - 1615	0	155	54	3	2	1	0	0	2	0	0	0	0	217	
1615 - 1630	1	181	45	1	2	1	0	0	1	0	0	0	0	232	
1630 - 1645 1645 - 1700	0	159 198	53 47	0	2	1	0	0	1	0	0	0	0	216	913
1700 - 1715	1	198	38	0	1	0	0	0	0	0	0	0	0	248 227	913
1715 - 1730	0	231	60	0	2	1	0	1	0	0	0	0	0	295	
1730 - 1745	1	190	54	0	3	0	0	0	0	0	0	0	0	248	
1745 - 1800	1	192	44	0	2	0	0	0	1	0	0	0	0	240	1010
1800 - 1815 1815 - 1830	0	154 169	49 43	1	1	0	0	1	1	0	0	0	0	207 217	
1830 - 1845	0	159	22	0	2	0	0	0	0	0	0	0	0	183	
1845 - 1900	0	115	29	0	0	0	0	0	0	0	0	0	0	144	751
1900 - 1915	0	107	21	0	2	0	0	0	0	0	0	0	0	130	
1915 - 1930 1930 - 1945	0	132 100	29 22	0	2	0	0	1	1	0	0	0	0	165 124	
1945 - 2000	0	85	17	0	1	0	0	1	0	0	0	0	0	104	523
2000 - 2015	0	82	25	0	1	0	0	1	0	0	0	0	0	109	
	0	80 94	16 24	1	0	0	0	0	0	0	0	0	0	97 118	
2015 - 2030			24 14	0	0	0	0	0	0	0	0	0	0	118 82	406
2030 - 2045		67		-		0	0	0	0	0	0	0	0	83	
2030 - 2045 2045 - 2100 2100 - 2115	0	67 66	17	0	0					0				67	
2030 - 2045 2045 - 2100 2100 - 2115 2115 - 2130	0	66 56	11	0	0	0	0	0	0		0	0	0		
2030 - 2045 2045 - 2100 2100 - 2115 2115 - 2130 2130 - 2145	0	66 56 52	11 9	0	0	0	0	0	1	0	0	0	0	62	272
2030 - 2045 2045 - 2100 2100 - 2115 2115 - 2130 2130 - 2145 2145 - 2200	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	66 56 52 49	11 9 10	0 0 0	0 0 0	0	0	0 0	1 1	0 0	0	0	0	62 60	272
2030 - 2045 2045 - 2100 2100 - 2115 2115 - 2130 2130 - 2145	0	66 56 52	11 9	0	0	0	0	0	1	0	0	0	0	62	272
2030 - 2045 2045 - 2100 2100 - 2115 2115 - 2130 2130 - 2145 2145 - 2200 2200 - 2215 2205 - 2230 2230 - 2245	0 0 0 0 0 0 0 0 0	66 56 52 49 31 29 25	11 9 10 5 4 3	0 0 0 0 0	0 0 0 1 1	0 0 0 0	0 0 0 0	0 0 1 0 0	1 1 0 1 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	62 60 37 35 29	
2030 - 2045 2045 - 2100 2100 - 2115 2115 - 2130 2130 - 2145 2145 - 2200 2200 - 2215 2215 - 2230 2230 - 2245 2245 - 2300		66 56 52 49 31 29 25 27	11 9 10 5 4 3 5	0 0 0 0 0 0	0 0 0 1 1 0	0 0 0 0 0	0 0 0 0	0 0 1 0 0 0	1 0 1 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	62 60 37 35 29 32	272
2030 - 2045 2045 - 2100 2100 - 2115 2135 - 2130 2130 - 2145 2145 - 2200 2200 - 2215 2215 - 2230 2230 - 2245 2245 - 2300 2300 - 2315	0 0 0 0 0 0 0 0 0 0 0 0	66 56 52 49 31 29 25 27 22	11 9 10 5 4 3 5 3	0 0 0 0 0 0 0	0 0 0 1 1 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 1 0 0 0 0	1 0 1 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	62 60 37 35 29 32 25	
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2030 - 2045 2045 - 2100 2115 - 2135 2130 - 2145 2130 - 2145 2130 - 2145 2145 - 2200 2200 - 2215 2230 - 2245 2330 - 2315 2330 - 2315 2330 - 2315 2330 - 2315 2330 - 2315 2335 - 2330 2330 - 2315 2335 - 2300 2330 - 2315 2335 - 2300 2330 - 2315 2355 - 0000 Ession Average ession Percentage AM Peak Hour AM Peak Hour Noon Peak Hour Noon Peak Hour Noon Peak Hour	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	66 56 52 49 31 29 25 27 22 27 22 27 22 13 12 9157 95,39 75,08 0715 - 0815 803 1445 - 1545 706	11 9 10 5 4 3 5 3 5 4 3 5 22,05 27,05 21,29 0715 - 0815 222 1430 - 1530 190	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 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 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 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	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 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	62 60 37 35 29 32 25 22 17 15 122.05 125.05	133
2030 - 2045 2045 - 2100 2115 - 2135 2135 - 2130 2130 - 2145 2145 - 2200 2200 - 2215 22145 - 2200 2230 - 2215 2230 - 2215 2230 - 2315 2330 - 2315 2330 - 2315 2330 - 2315 2330 - 2315 2330 - 2315 2335 - 2300 2330 - 2315 2335 - 2300 2336 - 2305 Session Average ession Percentage AM Peak Hour AM Peak Hour Noon Peak Hour	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	66 56 52 49 31 29 25 27 7 22 17 13 12 9157 95.39 75.08 0715 - 0815 803 1445 - 1545	11 9 10 5 4 3 5 3 5 4 3 5 22,05 27,05 21,29 0715 - 0815 222 1430 - 1530 190	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 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 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 1 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	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 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	62 60 37 35 29 32 25 22 17 15 12197 127.05 0715 - 0815 1052 1445 - 1545	133

Bi-Directional Class Count || Volume Summary 15min

Hall County, GA

Site 1 GA-211 (East), south of Daylily Dr

Date Tuesday, January 30, 2024 Weather Fair 47°F

Lat/Long 34.161821°, -83.835738°

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session) (01-30-2024) Volume Summary 15min

	Volume Sum	nmary 15min	15min	60min
TIME	NB	SB	Total	Total
0000 - 0015	6	7	13	
0015 - 0030	7	7	14	
0030 - 0045	7	5	12	
0045 - 0100	4	3	7	46
0100 - 0115	4	6	10	
0115 - 0130	5	6	11	
0130 - 0145	4	6	10	
0145 - 0200	2	5	7	38
0200 - 0215	2	1	3	
0215 - 0230	7	6	13	
0230 - 0245	7	4	11	
0245 - 0300	7	9	16	43
0300 - 0315	5	3	8	
0315 - 0330	3	5	8	
0330 - 0345	5	3	8	
0345 - 0400	6	6	12	36
0400 - 0415	6	3	9	30
0415 - 0430	12	9	21	
0430 - 0445	12	13	30	
0430 - 0443	17	15	35	95
0500 - 0515	18	20	38	95
	18	-	38 52	
0515 - 0530		35	-	
0530 - 0545	36	42	78	247
0545 - 0600	29	50	79	247
0600 - 0615	56	77	133	
0615 - 0630	78	99	177	
0630 - 0645	91	77	168	
0645 - 0700	101	69	170	648
0700 - 0715	109	97	206	
0715 - 0730	139	96	235	
0730 - 0745	148	135	283	
0745 - 0800	117	181	298	1022
0800 - 0815	100	136	236	
0815 - 0830	84	117	201	
0830 - 0845	117	96	213	
0845 - 0900	102	105	207	857
0900 - 0915	105	90	195	
0915 - 0930	100	71	171	
0930 - 0945	89	86	175	
0945 - 1000	84	88	172	713
1000 - 1015	84	81	165	
1015 - 1030	99	74	173	
1030 - 1045	90	70	160	
1045 - 1100	93	66	159	657
1100 - 1115	76	89	165	
1115 - 1130	81	79	160	
1130 - 1145	94	73	167	
1145 - 1200	64	74	138	630

Session Total	6211	5986	12197
Session Average	64.70	62.35	127.05
Session Percentage	50.92	49.08	

		nmary 15min	15min	60min
Time	NB	SB	Total	Total
1200 - 1215	98	78	176	
1215 - 1230	91	67	158	
1230 - 1245	95	98	193	
1245 - 1300	63	92	155	682
1300 - 1315	86	83	169	
1315 - 1330	82	79	161	
1330 - 1345	85	83	168	
1345 - 1400	93	78	171	669
1400 - 1415	90	83	173	
1415 - 1430	90	97	187	
1430 - 1445	96	97	193	
1445 - 1500	102	111	213	766
1500 - 1515	104	129	233	
1515 - 1530	116	133	249	
1530 - 1545	109	119	228	
1545 - 1600	133	118	251	961
1600 - 1615	120	97	217	
1615 - 1630	122	110	232	
1630 - 1645	112	104	216	
1645 - 1700	124	124	248	913
1700 - 1715	145	82	227	
1715 - 1730	181	114	295	
1730 - 1745	137	111	248	
1745 - 1800	127	113	240	1010
1800 - 1815	108	99	207	
1815 - 1830	112	105	217	
1830 - 1845	100	83	183	
1845 - 1900	79	65	144	751
1900 - 1915	70	60	130	
1915 - 1930	87	78	165	
1930 - 1945	64	60	124	
1945 - 2000	45	59	104	523
2000 - 2015	37	72	104	525
2015 - 2030	40	57	97	
2030 - 2045	65	53	118	
2045 - 2100	30	52	82	406
2100 - 2115	36	47	83	400
2115 - 2130	29	38	67	
2130 - 2145	20	42	62	
2145 - 2200	37	23	60	272
2200 - 2215	23	14	37	272
2215 - 2230	25	14	35	
2230 - 2245	18	14	29	
2245 - 2300	13	11	32	133
2300 - 2315	13	19	25	155
2300 - 2315 2315 - 2330	13	9	25	
	9	-		
2330 - 2345		8	17	70
2345 - 0000	8	7	15	79

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Appendix C Growth Rate Summary

Growth Rate Based on U.S Census Bureau	on U.S Census	s Bureau	
	2010	2020	2010-2020
Geographic Area	Census	Census	Population % Change
Hall County	179,684	203,136	1.23%

					GDOT	GDOT Historical Growth Rate	wth Rate							
	Station ID	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	5 year	10 year
Spout Springs Rd n/o Iris Dr	139-0441		18816				16450				12434		3.4%	5.3%
Thompson Mill Rd w/o Puckett Rd	135-0476			6367				5822				5861	2.3%	1.0%
Union Circle e/o Spout Springs	139-8206	4488			3402				3390				9.7%	4.1%
Ridge Rd s/o SR 347	139-7382		8327			6560				5382	5122		8.3%	6.3%
Spout Springs Rd n/o SR 347	139-0437	11200				10100				8450			2.6%	3.2%
				5 &	5 & 10 - Year Average	srage							5.2%	4.0%
				4	Weighted Average	age							4.6%	%

Growth Rate Based on Georgia Governor's Office of Planning and Budget Annual Population Projections	ia Governor's (office of Plann	ing and Budg	et Annual Popu	ulation Project	Ions
Geographic Area		Average	5-Year Growt	Average 5-Year Growth Rate From 2020-2050	020-2050	
	2020-2025	2025-2030	2030-2035	2035-2040	2040-2045	2045-2050
	1.6%	1.4%	1.3%	1.1%	1.0%	1.0%
		Average			1.2%	
Hall County		Average	10-Year Growt	Average 10-Year Growth Rate From 2020-2050	020-2050	
	2020-2030	2030	2030	2030-2040	2040-	2040-2050
	-	1.3%	-	1.3%	1.1	1.1%
		Average			1.2%	

Average Growth Rate

Appendix D Synchro Reports

Synchro Reports Existing Year (2024)

HCM 6th Signalized Intersection Summary 1: SR 211 & SR 53

AM	Existing
	02/06/2024

	\$	-	7	1	+	1	1
Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		41	1	a l	^	ሻሻ	1
Traffic Volume (veh/h)	1	480	384	121	761	469	38
Future Volume (veh/h)	1	480	384	121	761	469	38
Initial Q (Qb), veh		0	0	0	0	0	0
Ped-Bike Adj(A_pbT)			1.00	1.00		1.00	1.00
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No	No	
Adj Sat Flow, veh/h/ln		1781	1841	1841	1826	1870	1870
Adj Flow Rate, veh/h		545	436	138	865	533	43
Peak Hour Factor		0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %		8	4	4	5	2	2
Cap, veh/h		1754	808	397	1798	760	349
Arrive On Green		0.52	0.52	0.52	0.52	0.22	0.22
Sat Flow, veh/h		3474	1560	564	3561	3456	1585
Grp Volume(v), veh/h		545	436	138	865	533	43
Grp Sat Flow(s),veh/h/ln		1692	1560	564	1735	1728	1585
Q Serve(g_s), s		4.2	8.6	8.5	7.3	6.5	1.0
Cycle Q Clear(g_c), s		4.2	8.6	12.8	7.3	6.5	1.0
Prop In Lane			1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h		1754	808	397	1798	760	349
V/C Ratio(X)		0.31	0.54	0.35	0.48	0.70	0.12
Avail Cap(c_a), veh/h		5094	2347	954	5221	1432	657
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh		6.3	7.4	10.0	7.1	16.5	14.3
Incr Delay (d2), s/veh		0.1	0.6	0.5	0.2	1.2	0.2
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In		0.8	1.7	0.7	1.5	2.1	0.3
Unsig. Movement Delay, s/veh	1						
LnGrp Delay(d),s/veh		6.4	7.9	10.5	7.3	17.7	14.5
LnGrp LOS		А	А	В	А	В	В
Approach Vol, veh/h		981			1003	576	
Approach Delay, s/veh		7.1			7.7	17.4	
Approach LOS		А			А	В	
Timer - Assigned Phs		2				6	
Phs Duration (G+Y+Rc), s		29.8				29.8	
Change Period (Y+Rc), s		6.0				6.0	
Max Green Setting (Gmax), s		69.0				69.0	
Max Q Clear Time (g_c+I1), s		10.6				14.8	
Green Ext Time (p_c), s		5.6				9.0	
· · · ·		0.0				5.0	
Intersection Summary			<u> </u>				
HCM 6th Ctrl Delay			9.7				
HCM 6th LOS			A				
Mataa							

Notes

User approved ignoring U-Turning movement.

HCM 6th Signalized Intersection Summary 1: SR 211 & SR 53

	•	+	1	F	4	Ŧ	1	1	
Movement	EBU	EBT	EBR	WBU	WBL	WBT	NBL	NBR	
Lane Configurations		-f1	1		1	† †	ኘኘ	1	
Traffic Volume (veh/h)	2	855	370	1	74	614	366	214	
Future Volume (veh/h)	2	855	370	1	74	614	366	214	
Initial Q (Qb), veh		0	0		0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00		1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00		1.00	1.00	1.00	1.00	
Work Zone On Approach		No				No	No		
Adj Sat Flow, veh/h/ln		1841	1870		1870	1826	1870	1870	
Adj Flow Rate, veh/h		950	411		82	682	407	238	
Peak Hour Factor		0.90	0.90		0.90	0.90	0.90	0.90	
Percent Heavy Veh, %		4	2		2	5	2	2	
Cap, veh/h		1853	840		295	1838	742	340	
Arrive On Green		0.53	0.53		0.53	0.53	0.21	0.21	
Sat Flow, veh/h		3589	1585		400	3561	3456	1585	
Grp Volume(v), veh/h		950	411		82	682	407	238	
Grp Sat Flow(s),veh/h/ln		1749	1585		400	1735	1728	1585	
Q Serve(g_s), s		8.2	7.7		7.8	5.4	4.9	6.5	
Cycle Q Clear(g_c), s		8.2	7.7		16.1	5.4	4.9	6.5	
Prop In Lane			1.00		1.00		1.00	1.00	
_ane Grp Cap(c), veh/h		1853	840		295	1838	742	340	
V/C Ratio(X)		0.51	0.49		0.28	0.37	0.55	0.70	
Avail Cap(c_a), veh/h		5288	2397		688	5245	1251	574	
HCM Platoon Ratio		1.00	1.00		1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00		1.00	1.00	1.00	1.00	
Jniform Delay (d), s/veh		7.1	7.0		12.3	6.5	16.4	17.0	
lncr Delay (d2), s/veh		0.2	0.4		0.5	0.1	0.6	2.6	
Initial Q Delay(d3),s/veh		0.0	0.0		0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		1.7	1.5		0.5	1.1	1.6	2.1	
Jnsig. Movement Delay, s/veh									
₋nGrp Delay(d),s/veh		7.3	7.5		12.8	6.6	17.0	19.6	
nGrp LOS		Α	Α		В	Α	В	В	
Approach Vol, veh/h		1361				764	645		
Approach Delay, s/veh		7.4				7.3	18.0		
Approach LOS		А				А	В		
Timer - Assigned Phs		2				6		8	
Phs Duration (G+Y+Rc), s		30.9				30.9		16.1	
Change Period (Y+Rc), s		6.0				6.0		6.0	
Max Green Setting (Gmax), s		71.0				71.0		17.0	
Max Q Clear Time (g_c+I1), s		10.2				18.1		8.5	
Green Ext Time (p_c), s		10.0				6.8		1.6	
Intersection Summary									
HCM 6th Ctrl Delay			9.8						
HCM 6th LOS			А						
N1-4									

Notes

User approved ignoring U-Turning movement.

Synchro Reports No-Build Year (2027)

HCM 6th Signalized Intersection Summary 1: SR 211 & SR 53

	₫	-	7	1	+	1	1	
Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations		- 4 ↑	1	A	^	ኘኘ	1	
Traffic Volume (veh/h)	1	511	409	129	810	499	40	
Future Volume (veh/h)	1	511	409	129	810	499	40	
Initial Q (Qb), veh		0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00	1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach		No			No	No		
Adj Sat Flow, veh/h/ln		1781	1841	1841	1826	1870	1870	
Adj Flow Rate, veh/h		581	465	147	920	567	45	
Peak Hour Factor		0.88	0.88	0.88	0.88	0.88	0.88	
Percent Heavy Veh, %		8	4	4	5	2	2	
Cap, veh/h		1835	846	379	1881	770	353	
Arrive On Green		0.54	0.54	0.54	0.54	0.22	0.22	
Sat Flow, veh/h		3474	1560	531	3561	3456	1585	
Grp Volume(v), veh/h		581	465	147	920	567	45	
Grp Sat Flow(s),veh/h/ln		1692	1560	531	1735	1728	1585	
Q Serve(g_s), s		4.8	9.9	10.8	8.4	7.8	1.2	
Cycle Q Clear(g_c), s		4.8	9.9	15.6	8.4	7.8	1.2	
Prop In Lane			1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h		1835	846	379	1881	770	353	
V/C Ratio(X)		0.32	0.55	0.39	0.49	0.74	0.13	
Avail Cap(c_a), veh/h		4574	2108	808	4688	1286	590	
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh		6.5	7.6	10.8	7.3	18.5	15.9	
Incr Delay (d2), s/veh		0.1	0.6	0.7	0.2	1.4	0.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/In		1.0	2.1	0.9	1.9	2.7	0.4	
Unsig. Movement Delay, s/veh	1							
LnGrp Delay(d),s/veh		6.6	8.2	11.4	7.5	19.8	16.0	
LnGrp LOS		Α	A	В	A	В	В	
Approach Vol, veh/h		1046			1067	612		
Approach Delay, s/veh		7.3			8.0	19.6		
Approach LOS		А			А	В		
Timer - Assigned Phs		2				6		
Phs Duration (G+Y+Rc), s		33.7				33.7		17
Change Period (Y+Rc), s		6.0				6.0		6
Max Green Setting (Gmax), s		69.0				69.0		19
Max Q Clear Time (g_c+I1), s		11.9				17.6		ç
Green Ext Time (p_c), s		6.1				10.0		1.
Intersection Summary								
HCM 6th Ctrl Delay			10.3					
HCM 6th LOS			B					
Notos			-					

Notes

User approved ignoring U-Turning movement.

HCM 6th Signalized Intersection Summary 1: SR 211 & SR 53

	₫	-	7	F	1	+	1	1	
Movement	EBU	EBT	EBR	WBU	WBL	WBT	NBL	NBR	
Lane Configurations		-fî†	1		3	^	ኘኘ	1	
Traffic Volume (veh/h)	2	910	394	1	79	654	390	228	
Future Volume (veh/h)	2	910	394	1	79	654	390	228	
Initial Q (Qb), veh		0	0		0	0	0	0	
Ped-Bike Adj(A_pbT)			1.00		1.00		1.00	1.00	
Parking Bus, Adj		1.00	1.00		1.00	1.00	1.00	1.00	
Work Zone On Approach		No				No	No		
Adj Sat Flow, veh/h/ln		1841	1870		1870	1826	1870	1870	
Adj Flow Rate, veh/h		1011	438		88	727	433	253	
Peak Hour Factor		0.90	0.90		0.90	0.90	0.90	0.90	
Percent Heavy Veh, %		4	2		2	5	2	2	
Cap, veh/h		1951	884		275	1935	745	342	
Arrive On Green		0.56	0.56		0.56	0.56	0.22	0.22	
Sat Flow, veh/h		3589	1585		367	3561	3456	1585	
Grp Volume(v), veh/h		1011	438		88	727	433	253	
Grp Sat Flow(s),veh/h/ln		1749	1585		367	1735	1728	1585	
Q Serve(g_s), s		9.5	8.9		10.4	6.2	5.9	7.9	
Cycle Q Clear(g_c), s		9.5	8.9		19.9	6.2	5.9	7.9	
Prop In Lane		0.0	1.00		1.00		1.00	1.00	
Lane Grp Cap(c), veh/h		1951	884		275	1935	745	342	
V/C Ratio(X)		0.52	0.50		0.32	0.38	0.58	0.74	
Avail Cap(c_a), veh/h		4691	2126		563	4653	1110	509	
HCM Platoon Ratio		1.00	1.00		1.00	1.00	1.00	1.00	
Upstream Filter(I)		1.00	1.00		1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh		7.3	7.2		13.5	6.5	18.6	19.4	
Incr Delay (d2), s/veh		0.2	0.4		0.7	0.1	0.7	3.2	
Initial Q Delay(d3),s/veh		0.0	0.0		0.0	0.0	0.0	0.0	
%ile BackOfQ(50%),veh/ln		2.2	1.9		0.7	1.4	2.0	2.7	
Unsig. Movement Delay, s/veh	1				•				
LnGrp Delay(d),s/veh		7.5	7.6		14.1	6.7	19.3	22.5	
LnGrp LOS		A	A		В	A	В	C	
Approach Vol, veh/h		1449				815	686		
Approach Delay, s/veh		7.5				7.5	20.5		
Approach LOS		A				A	20.0 C		
Timer - Assigned Phs		2				6	-	8	
Phs Duration (G+Y+Rc), s		35.5				35.5		17.4	
Change Period (Y+Rc), s		35.5 6.0				35.5 6.0		6.0	
Max Green Setting (Gmax), s		6.0 71.0				71.0		0.0 17.0	
Max Q Clear Time (g_c+l1), s		11.5				21.9		9.9	
Green Ext Time (p_c), s		11.0				7.6		9.9 1.5	
, , , , , , , , , , , , , , , , , , ,		11.0				1.0		1.5	
Intersection Summary			10 -						
HCM 6th Ctrl Delay			10.5						
HCM 6th LOS			В						
N star									

Notes

User approved ignoring U-Turning movement.

Synchro Reports Build Year (2027)

HCM 6th Signalized Intersection Capacity Analysis AM Build

	₫	-	7	1	+	1	1			
Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR			
Lane Configurations		4ħ	1	A	††	ኘካ	1			
Traffic Volume (veh/h)	1	511	414	131	810	519	43			
Future Volume (veh/h)	1	511	414	131	810	519	43			
Number		2	12	1	6	3	18			
Initial Q, veh		0	0	0	0	0	0			
Ped-Bike Adj (A_pbT)			1.00	1.00		1.00	1.00			
Parking Bus Adj		1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No	No				
Lanes Open During Work Zon	е									
Adj Sat Flow, veh/h/ln		1781	1841	1841	1826	1870	1870			
Adj Flow Rate, veh/h		581	470	149	920	590	49			
Peak Hour Factor		0.88	0.88	0.88	0.88	0.88	0.88			
Percent Heavy Veh, %		8	4	4	5	2	2			
Opposing Right Turn Influence)			Yes		Yes				
Cap, veh/h		1837	846	374	1882	788	361			
HCM Platoon Ratio		1.00	1.00	1.00	1.00	1.00	1.00			
Prop Arrive On Green		0.54	0.54	0.54	0.54	0.23	0.23			
Unsig. Movement Delay										
Ln Grp Delay, s/veh		6.7	8.4	11.8	7.6	20.3	16.3			
Ln Grp LOS		А	А	В	A	С	В			
Approach Vol, veh/h		1051			1069	639				
Approach Delay, s/veh		7.5			8.2	19.9				
Approach LOS		A			A	В				
Timer:		1	2	3	4	5	6	7	8	
Assigned Phs		1	2	8	т	0	6	1	0	
Assigned Fils										
Case No			7.0	9.0			6.0			
Case No Phs Duration (G+Y+Rc), s			7.0 34.4	9.0 17.9			6.0 34.4			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s			7.0 34.4 6.0	9.0 17.9 6.0			6.0 34.4 6.0			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s			7.0 34.4 6.0 69.0	9.0 17.9 6.0 19.0			6.0 34.4 6.0 69.0			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s			7.0 34.4 6.0 69.0 4.5	9.0 17.9 6.0 19.0 3.7			6.0 34.4 6.0 69.0 5.3			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+l1), s			7.0 34.4 6.0 69.0 4.5 12.3	9.0 17.9 6.0 19.0 3.7 10.3			6.0 34.4 6.0 69.0 5.3 18.3			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s			7.0 34.4 6.0 69.0 4.5 12.3 6.1	9.0 17.9 6.0 19.0 3.7 10.3 1.6			6.0 34.4 6.0 69.0 5.3 18.3 10.1			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c)			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Max Out (p_x)			7.0 34.4 6.0 69.0 4.5 12.3 6.1	9.0 17.9 6.0 19.0 3.7 10.3 1.6			6.0 34.4 6.0 69.0 5.3 18.3 10.1			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c)			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Max Out (p_x)			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+11), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Through Movement Data			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Through Movement Data Assigned Mvmt			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456 8			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528 6			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+11), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Through Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Through Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456 8			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528 6			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+11), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Through Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456 8			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528 6			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Through Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0 5 0 2 3474	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456 8 0			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528 6 3561			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0 5 0 2 3474 2 3474	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456 8 8 0			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528 6 3561 6 3561			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Left Lane Group Data			7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0 5 0 2 3474 2 3474	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456 8 0 8 0 18 1585			6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528 6 3561 6 3561 16 0			
Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s Max Q Clear (g_c+I1), s Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h		0	7.0 34.4 6.0 69.0 4.5 12.3 6.1 1.00 0.00 5 0 5 0 2 3474 2 3474	9.0 17.9 6.0 19.0 3.7 10.3 1.6 1.00 0.13 3 3456 8 8 0	0	0	6.0 34.4 6.0 69.0 5.3 18.3 10.1 1.00 0.01 1 528 6 3561 6 3561	0	0	

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Lanes in Grp	0	0	2	0	0	1	0	0	
Grp Vol (v), veh/h	0	0	590	0	0	149	0	0	
Grp Sat Flow (s), veh/h/ln	0	0	1728	0	0	528	0	0	
Q Serve Time (g_s), s	0.0	0.0	8.3	0.0	0.0	11.3	0.0	0.0	
Cycle Q Clear Time (g_c), s	0.0	0.0	8.3	0.0	0.0	16.3	0.0	0.0	
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1728	0	0	528	0	0	
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0	
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	28.4	0.0	0.0	
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	23.4	0.0	0.0	
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	
Time to First Blk (g_f), s	0.0	28.4	0.0	0.0	0.0	0.0	0.0	0.0	
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	
ane Grp Cap (c), veh/h	0.00	0.00	788	0.00	0.00	374	0.00	0.00	
//C Ratio (X)	0.00	0.00	0.75	0.00	0.00	0.40	0.00	0.00	
Avail Cap (c_a), veh/h	0.00	0.00	1255	0.00	0.00	784	0.00	0.00	
Jpstream Filter (I)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	
Jniform Delay (d1), s/veh	0.0	0.00	18.8	0.00	0.00	11.1	0.00	0.00	
ncr Delay (d2), s/veh	0.0	0.0	1.5	0.0	0.0	0.7	0.0	0.0	
nitial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	0.0	0.0	20.3	0.0	0.0	11.8	0.0	0.0	
Ist-Term Q (Q1), veh/ln	0.0	0.0	20.3	0.0	0.0	0.9	0.0	0.0	
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.9	0.0	0.0	
Brd-Term Q (Q2), veh/ln	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
%ile Back of Q (50%), veh/ln	0.0	0.0	2.9	0.00	0.00	1.00	0.00	0.00	
%ile Storage Ratio (RQ%)	0.00	0.00	0.29	0.00	0.00	0.10	0.00	0.00	
nitial Q (Qb), veh	0.0	0.00	0.29	0.00	0.00	0.10	0.00	0.00	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
nitial Q Clear Time (tc), h	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	
Middle Lane Group Data				^			^		
Assigned Mvmt	0	2	8	0	0	6	0	0	
ane Assignment		Т	-		-	Т		-	
anes in Grp	0	2	0	0	0	2	0	0	
Grp Vol (v), veh/h	0	581	0	0	0	920	0	0	
Grp Sat Flow (s), veh/h/ln	0	1692	0	0	0	1735	0	0	
Q Serve Time (g_s), s	0.0	5.0	0.0	0.0	0.0	8.6	0.0	0.0	
Cycle Q Clear Time (g_c), s	0.0	5.0	0.0	0.0	0.0	8.6	0.0	0.0	
_ane Grp Cap (c), veh/h	0	1837	0	0	0	1882	0	0	
//C Ratio (X)	0.00	0.32	0.00	0.00	0.00	0.49	0.00	0.00	
Avail Cap (c_a), veh/h	0	4464	0	0	0	4575	0	0	
Jpstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	
Jniform Delay (d1), s/veh	0.0	6.6	0.0	0.0	0.0	7.4	0.0	0.0	
ncr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	
nitial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	0.0	6.7	0.0	0.0	0.0	7.6	0.0	0.0	
1st-Term Q (Q1), veh/In	0.0	1.1	0.0	0.0	0.0	1.9	0.0	0.0	
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	

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3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
%ile Back of Q (50%), veh/ln	0.0	1.1	0.0	0.0	0.0	2.0	0.0	0.0	
%ile Storage Ratio (RQ%)	0.00	0.02	0.00	0.00	0.00	0.05	0.00	0.00	
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0	
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Lane Group Data									
Assigned Mvmt	0	12	18	0	0	16	0	0	
Lane Assignment	U	R	R	0	U	10	U	U	
Lanes in Grp	0	1	1	0	0	0	0	0	
Grp Vol (v), veh/h	0	470	49	0	0	0	0	0	
Grp Sat Flow (s), veh/h/ln	0	1560	1585	0	0	0	0	0	
Q Serve Time (g_s), s	0.0	10.3	1.3	0.0	0.0	0.0	0.0	0.0	
	0.0	10.3	1.3	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear Time (g_c), s									
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	
Lane Grp Cap (c), veh/h	0	846	361	0	0	0	0	0	
V/C Ratio (X)	0.00	0.56	0.14	0.00	0.00	0.00	0.00	0.00	
Avail Cap (c_a), veh/h	0	2057	576	0	0	0	0	0	
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	7.8	16.1	0.0	0.0	0.0	0.0	0.0	
Incr Delay (d2), s/veh	0.0	0.6	0.2	0.0	0.0	0.0	0.0	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	0.0	8.4	16.3	0.0	0.0	0.0	0.0	0.0	
1st-Term Q (Q1), veh/In	0.0	2.1	0.4	0.0	0.0	0.0	0.0	0.0	
2nd-Term Q (Q2), veh/In	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
3rd-Term Q (Q3), veh/In	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
%ile Back of Q (50%), veh/In	0.0	2.2	0.4	0.0	0.0	0.0	0.0	0.0	
%ile Storage Ratio (RQ%)	0.00	0.23	0.01	0.00	0.00	0.00	0.00	0.00	
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0	
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Intersection Summary									
HCM 6th Ctrl Delay		10.6							
HCM 6th LOS		10.0 B							
		D							

Notes

User approved ignoring U-Turning movement.

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Intersection						
Int Delay, s/veh	0.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		•	۲	٦	†
Traffic Vol, veh/h	23	23	539	7	6	539
Future Vol, veh/h	23	23	539	7	6	539
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	250	250	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	4
Mvmt Flow	26	26	613	8	7	613

Major/Minor	Minor1	Ν	/lajor1	Ν	/lajor2	
Conflicting Flow All	1240	613	0	0	621	0
Stage 1	613	-	-	-	-	-
Stage 2	627	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	193	492	-	-	960	-
Stage 1	541	-	-	-	-	-
Stage 2	532	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	· 192	492	-	-	960	-
Mov Cap-2 Maneuver	· 192	-	-	-	-	-
Stage 1	541	-	-	-	-	-
Stage 2	528	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s			0		0.1	
HCM LOS	C		0		0.1	
	0					
Minor Lane/Major Mv	mt	NBT	NBRW	BLn1	SBL	SBT

Minor Lane/Major Wivmt	INRI	INBRINBLUI	SBL	SBI	
Capacity (veh/h)	-	- 276	960	-	
HCM Lane V/C Ratio	-	- 0.189	0.007	-	
HCM Control Delay (s)	-	- 21.1	8.8	-	
HCM Lane LOS	-	- C	А	-	
HCM 95th %tile Q(veh)	-	- 0.7	0	-	

HCM 6th Signalized Intersection Capacity Analysis PM Build

Movement EBU EBT EBR WBU WBT NBL NBR Lane Configurations 4 7 2 4 7 7 7 Traffic Volume (veh/h) 2 910 410 1 82 654 339 232 Future Volume (veh/h) 2 910 410 1 82 654 339 232 Initial Q veh 0 0 0 0 0 0 0 0 Parking Bus Adj 1.00		≜	-	7	F	1	+	1	1		
Lane Configurations 4↑ 7 1 2 4↑ 7% 7 Traffic Volume (veh/h) 2 910 410 1 82 654 398 232 Number 2 12 1 6 3 18 Inibial Q, veh 0 0 0 0 0 0 Parking Bus Adj 100 1.00 1.00 1.00 1.00 1.00 Parking Bus Adj 100 1.00 1.00 1.00 1.00 1.00 Adj Flow Rate, weh/h 1011 456 91 727 442 258 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 90 Adj Flow Rate, weh/h 1971 833 271 1955 748 343 Percent Heavy Veh, % 4 2 2 5 2	Movement	EBU	EBT	EBR	WBU	WBL	WBT	NBL	NBR		
Traffic Volume (velvh) 2 910 410 1 82 654 398 232 Number 2 910 410 1 82 654 338 232 Number 2 12 1 6 3 18 Initial Q, veh 0 0 0 0 0 0 0 Ped-Bike Adj (A, pDT) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Ped-Bike Adj (A, pDT) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Ped-Bike Adj (A, pDT) 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Adj Sat Flow, veh/mi 1911 455 91 727 442 258 28 Percent Heavy Veh/% 4 2 2 5 2 2 2 Opposing Right Turn Influence Yes Yes Yes Yes 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 </td <td></td>											
Future Volume (veh/h) 2 910 410 1 82 654 338 232 Number 2 12 1 6 3 18 Inital Q, veh 0 0 0 0 0 100 Perd-Rike Adj (A, pbT) 1.00 1.00 1.00 1.00 1.00 Lenes Open During Work Zone No No No No No Adj Elow Rate, veh/h 1011 456 91 727 442 28 Percent Heavy Veh, % 4 2 2 5 2 2 Opposing Right Turn Influence Yes Yes Yes Yes Cap. veh/h 100 1.00		2			1						
Number 2 12 1 6 3 18 Initial Q, veh 0											
Initial Queh 0 0 0 0 0 0 PackBike Adj (A, pbT) 1.00 1.00 1.00 1.00 1.00 1.00 Packing Bus Adj 1.00 1.00 1.00 1.00 1.00 1.00 Lanes Open During Work Zone No No No No No Adj Flow Rate, veh/h 1011 456 91 727 442 258 Percent Heavy Veh, % 4 2 2 5 2 2 Opposing Right Turn Influence Yes Yes Yes Yes Yes Prop Arrie On Green 0.56 0.56 0.56 0.22 0.22 Unsign Movement Delay In Grp Delay, Sveh 7.5 7.7 14.5 6.7 19.9 23.8 In Grp LOS A A B A B C Appraach Delay, Sveh 7.5 7.7 14.5 6.7 19.9 23.8 In Grp LOS A A B A B C Appraach Leis, Sveh 7.6 7.6 7.14.5 6.7 8 S											
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Work Zone On Approach No No No No Lanes Open During Work Zone Adj Sat How, vehrhlin 1841 1870 1826 1870 1870 Adj Sat How, vehrhlin 1011 456 91 727 442 258 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 0.90 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 0.90 Cap, vehrh 1971 833 271 1955 748 543 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Unsig. Movement Delay			1.00				1.00				
Lanes Open During Work Zone Adj Sat Flow, veh/h/ln 1841 1870 1820 1870 1870 Adj Sat Flow, veh/h/ln 1011 456 91 727 442 258 Peak Hour Factor 0.90 0.90 0.90 0.90 0.90 0.90 Percent Heavy Veh, % 4 2 2 5 2 2 Opposing Right Turn Influence Yes Yes Yes 2 3 4 5 6 7 8 3 3 1 3 3 1 3 3 1 3 3 1 3 <td></td>											
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Percent Heavy Veh, % 4 2 2 5 2 2 Opposing Right Turn Influence Yes Yes <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
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HČM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 Prop Arrive On Green 0.56 0.56 0.56 0.22 0.22 Unsig, Movement Delay Ln Grp Delay, s/veh 7.5 7.7 14.5 6.7 19.9 23.8 Ln Grp LOS A A B A B C Approach Delay, s/veh 7.6 21.4 Approach Delay, s/veh 7.6 21.4 Approach LOS A A B 6 7 8 Assigned Phs 2 8 6 6 7 8 Case No 7.0 9.0 6.0 6.0 6.0 6.0 Max Green (Grax), s 71.0 17.8 36.7 71.0 Max Alow Headway (MAH), s 4.6 3.8 5.6 Max Qicer (g_c-ril), s 11.7 10.3 23.0 Green Ext Time (g_e), s 11.7 10.3 23.0 Green Ext Time (g_e), s 11.2 1.5 7.8 Prob of Pha Call (p_c) 1.00 1.00 </td <td></td> <td></td> <td>1971</td> <td>893</td> <td></td> <td></td> <td>1955</td> <td></td> <td>343</td> <td></td> <td></td>			1971	893			1955		343		
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Ln Grp Delay, s/veh 7.5 7.7 14.5 6.7 19.9 23.8 Ln Grp LOS A A B A B C Approach Vol, veh/h 1467 818 700 Approach Delay, s/veh 7.6 7.6 21.4 Approach LOS A A C Timer: 1 2 3 4 5 6 7 8 Assigned Phs 2 8 6	•										
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Approach Vol, veh/h 1467 818 700 Approach Delay, s/veh 7.6 7.6 21.4 Approach LOS A A C Timer: 1 2 3 4 5 6 7 8 Assigned Phs 2 8 6 6 7 8 Change Period (Y+Rc), s 36.7 17.8 36.7 7 8 Phs Duration (G+Y+Rc), s 11.7 10.3 23.0 3											
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Green Ext Time (g_e), s 11.2 1.5 7.8 Prob of Phs Call (p_c) 1.00 1.00 1.00 Prob of Max Out (p_x) 0.01 0.35 0.00 Left-Turn Movement Data											
Prob of Phs Call (p_c) 1.00 1.00 1.00 Prob of Max Out (p_x) 0.01 0.35 0.00 Left-Turn Movement Data											
Prob of Max Out (p_x) 0.01 0.35 0.00 Left-Turn Movement Data											
Left-Turn Movement Data Assigned Mvmt 5 3 1 Mvmt Sat Flow, veh/h 0 3456 361 Through Movement Data 2 8 6 Assigned Mvmt 2 8 6 Mvmt Sat Flow, veh/h 3589 0 3561 Right-Turn Movement Data	a = r										
Assigned Mvmt 5 3 1 Mvmt Sat Flow, veh/h 0 3456 361 Through Movement Data 2 8 6 Assigned Mvmt 2 8 6 Mvmt Sat Flow, veh/h 3589 0 3561 Right-Turn Movement Data 2 18 16 Assigned Mvmt 12 18 16 Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data 0 5 3 0 0 1 0 0	Prop of Max Out (p_x)			0.01	0.35			0.00			
Mvmt Sat Flow, veh/h 0 3456 361 Through Movement Data Assigned Mvmt 2 8 6 Assigned Mvmt Sat Flow, veh/h 3589 0 3561 Right-Turn Movement Data 2 18 16 Assigned Mvmt 12 18 16 Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data 0 5 3 0 1 0 0	Left-Turn Movement Data										
Through Movement Data Assigned Mvmt 2 8 6 Mvmt Sat Flow, veh/h 3589 0 3561 Right-Turn Movement Data	Assigned Mvmt			5	3			1			
Assigned Mvmt 2 8 6 Mvmt Sat Flow, veh/h 3589 0 3561 Right-Turn Movement Data 12 18 16 Assigned Mvmt 12 18 16 Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data 0 5 3 0 1 0 0	Mvmt Sat Flow, veh/h			0	3456			361			
Assigned Mvmt 2 8 6 Mvmt Sat Flow, veh/h 3589 0 3561 Right-Turn Movement Data 12 18 16 Assigned Mvmt 12 18 16 Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data 0 5 3 0 1 0 0	Through Movement Data										
Mvmt Sat Flow, veh/h 3589 0 3561 Right-Turn Movement Data Assigned Mvmt 12 18 16 Assigned Mvmt 1585 1585 0 1585 1585 0 Left Lane Group Data 0 5 3 0 1 0 0				0	0			0			
Right-Turn Movement Data Assigned Mvmt 12 18 16 Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data Vent 0 5 3 0 1 0 0											
Assigned Mvmt 12 18 16 Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data Veh/h 0 5 3 0 1 0 0	Mvmt Sat Flow, ven/h			3589	0			3561			
Assigned Mvmt 12 18 16 Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data Vertical Stress Vertical Stress Vertical Stress Assigned Mvmt 0 5 3 0 1 0 0	Right-Turn Movement Data										
Mvmt Sat Flow, veh/h 1585 1585 0 Left Lane Group Data Veh/h 0 5 3 0 1 0 0				12	18			16			
Left Lane Group Data Assigned Mvmt 0 5 3 0 1 0 0											
Assigned Mvmt 0 5 3 0 0 1 0 0	·							-			
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L L			0	5		0	0		0	0	
	Lane Assignment				L			L			

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Lanes in Grp	0	0	2	0	0	1	0	0	
Grp Vol (v), veh/h	0	0	442	0	0	91	0	0	
Grp Sat Flow (s), veh/h/ln	0	0	1728	0	0	361	0	0	
Q Serve Time (g_s), s	0.0	0.0	6.3	0.0	0.0	11.3	0.0	0.0	
Cycle Q Clear Time (g_c), s	0.0	0.0	6.3	0.0	0.0	21.0	0.0	0.0	
Perm LT Sat Flow (s_l), veh/h/ln	0	0	1728	0	0	361	0	0	
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0	
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	30.7	0.0	0.0	
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	21.1	0.0	0.0	
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	
Time to First Blk (g_f), s	0.0	30.7	0.0	0.0	0.0	0.0	0.0	0.0	
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prop LT Inside Lane (P_L)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	
_ane Grp Cap (c), veh/h	0.00	0.00	748	0.00	0.00	271	0.00	0.00	
//C Ratio (X)	0.00	0.00	0.59	0.00	0.00	0.34	0.00	0.00	
Avail Cap (c_a), veh/h	0.00	0.00	1077	0.00	0.00	538	0.00	0.00	
Jpstream Filter (I)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	
Jniform Delay (d1), s/veh	0.0	0.00	19.2	0.00	0.00	13.7	0.00	0.00	
Incr Delay (d2), s/veh	0.0	0.0	0.7	0.0	0.0	0.7	0.0	0.0	
nitial Q Delay (d3), s/veh	0.0	0.0	0.7	0.0	0.0	0.7	0.0	0.0	
Control Delay (d), s/veh	0.0	0.0	19.9	0.0	0.0	14.5	0.0	0.0	
1st-Term Q (Q1), veh/ln	0.0	0.0	2.1	0.0	0.0	0.7	0.0	0.0	
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	
Brd-Term Q (Q2), veh/ln	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
%ile Back of Q (50%), veh/ln	0.0	0.0	2.2	0.00	0.00	0.7	0.00	0.00	
%ile Storage Ratio (RQ%)	0.00	0.00	0.22	0.00	0.00	0.08	0.00	0.00	
Initial Q (Qb), veh	0.0	0.00	0.22	0.00	0.00	0.00	0.00	0.00	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
nitial Q Clear Time (tc), h	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	
Viddle Lane Group Data									
Assigned Mvmt	0	2	8	0	0	6	0	0	
_ane Assignment		Т	_		_	Т		_	
_anes in Grp	0	2	0	0	0	2	0	0	
Grp Vol (v), veh/h	0	1011	0	0	0	727	0	0	
Grp Sat Flow (s), veh/h/ln	0	1749	0	0	0	1735	0	0	
Q Serve Time (g_s), s	0.0	9.7	0.0	0.0	0.0	6.3	0.0	0.0	
Cycle Q Clear Time (g_c), s	0.0	9.7	0.0	0.0	0.0	6.3	0.0	0.0	
_ane Grp Cap (c), veh/h	0	1971	0	0	0	1955	0	0	
//C Ratio (X)	0.00	0.51	0.00	0.00	0.00	0.37	0.00	0.00	
Avail Cap (c_a), veh/h	0	4553	0	0	0	4516	0	0	
Jpstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	
Jniform Delay (d1), s/veh	0.0	7.3	0.0	0.0	0.0	6.6	0.0	0.0	
ncr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	
nitial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	7.5	0.0	0.0	0.0	6.7	0.0	0.0	
Control Delay (d), s/veh	0.0	1.5	0.0			•••			
Control Delay (d), s/veh 1st-Term Q (Q1), veh/ln	0.0	2.2	0.0	0.0	0.0	1.4	0.0	0.0	

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3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
%ile Back of Q (50%), veh/ln	0.0	2.2	0.0	0.0	0.0	1.4	0.0	0.0	
%ile Storage Ratio (RQ%)	0.00	0.03	0.00	0.00	0.00	0.04	0.00	0.00	
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0	
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Right Lane Group Data									
Assigned Mvmt	0	12	18	0	0	16	0	0	
Lane Assignment	0	R	R	0	0	10	0	0	
Lanes in Grp	0	1	1	0	0	0	0	0	
Grp Vol (v), veh/h	0	456	258	0	0	0	0	0	
Grp Sat Flow (s), veh/h/ln	0	1585	1585	0	0	0	0	0	
Q Serve Time (g_s), s	0.0	9.6	8.3	0.0	0.0	0.0	0.0	0.0	
	0.0	9.0 9.6	8.3	0.0	0.0	0.0	0.0	0.0	
Cycle Q Clear Time (g_c), s									
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prop RT Outside Lane (P_R)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	
Lane Grp Cap (c), veh/h	0	893	343	0	0	0	0	0	
V/C Ratio (X)	0.00	0.51	0.75	0.00	0.00	0.00	0.00	0.00	
Avail Cap (c_a), veh/h	0	2063	494	0	0	0	0	0	
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	7.3	20.0	0.0	0.0	0.0	0.0	0.0	
Incr Delay (d2), s/veh	0.0	0.5	3.9	0.0	0.0	0.0	0.0	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	0.0	7.7	23.8	0.0	0.0	0.0	0.0	0.0	
1st-Term Q (Q1), veh/In	0.0	1.9	2.6	0.0	0.0	0.0	0.0	0.0	
2nd-Term Q (Q2), veh/In	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	
3rd-Term Q (Q3), veh/In	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
%ile Back of Q (50%), veh/In	0.0	2.1	2.9	0.0	0.0	0.0	0.0	0.0	
%ile Storage Ratio (RQ%)	0.00	0.21	0.07	0.00	0.00	0.00	0.00	0.00	
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0	
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Intersection Summary									
HCM 6th Ctrl Delay		10.8							
HCM 6th LOS		10.0 B							
		D							

Notes

User approved ignoring U-Turning movement.

Southeastern Engineering INC. 09/09/2024

Intersection							
Int Delay, s/veh	0.7						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	-
Lane Configurations	Y		•	1	٦	•	•
Traffic Vol, veh/h	15	12	618	26	19	473	3
Future Vol, veh/h	15	12	618	26	19	473	3
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	ę
RT Channelized	-	None	-	None	-	None	ė
Storage Length	0	-	-	250	250	-	-
Veh in Median Storage	,# 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	90	90	90	90	90	90)
Heavy Vehicles, %	2	2	2	2	2	2)
Mvmt Flow	17	13	687	29	21	526	5
Peak Hour Factor Heavy Vehicles, %	90 2	90 2	90 2	90 2	90 2	90 2) 2

Major/Minor	Minor1	Ν	/lajor1	I	Major2	
Conflicting Flow All	1255	687	0	0		0
Stage 1	687	-	-	-	-	-
Stage 2	568	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518		-	-	2.218	-
Pot Cap-1 Maneuver	189	447	-	-	885	-
Stage 1	499	-	-	-	-	-
Stage 2	567	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		447	-	-	885	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	499	-	-	-	-	-
Stage 2	553	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	21.4		0		0.4	
HCM LOS	С					
Minor Lane/Major Mvn	nt	NBT	NBRW	/RI n1	SBL	SBT
	int int	ND1	NDIXN		885	100
Capacity (veh/h) HCM Lane V/C Ratio		-	-	249	0.024	-
HCM Control Delay (s)	-	-	21.4	9.2	-
HCM Lane LOS)	-	-	21.4 C	9.2 A	-
	`	-	-		A	-

PM Build 9:02 am 02/06/2024		

-

0.4

-

0.1

_

HCM 95th %tile Q(veh)

12.2.2024 - Item 6

Appendix E Trip Generation Report

Multifamily Housing (Low-Rise) Not Close to Rail Transit (220)

Vehicle Trip Ends vs: Dwelling Units On a: Weekday

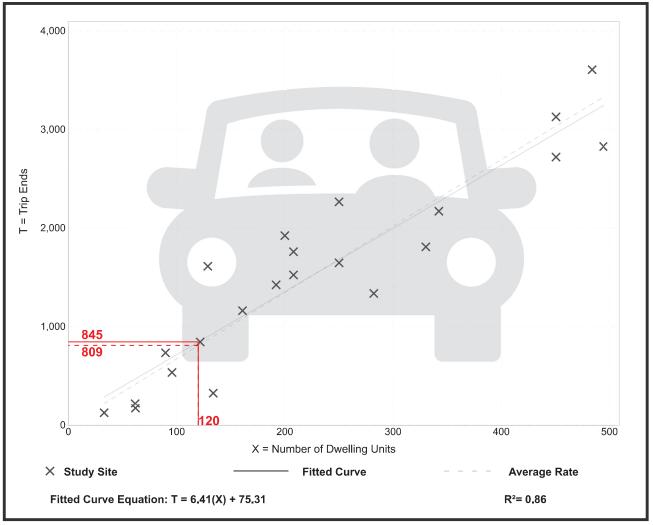
Setting/Location: General Urban/Suburban

Number of Studies:	22
Avg. Num. of Dwelling Units:	229
Directional Distribution:	50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
6.74	2.46 - 12.50	1.79

Data Plot and Equation



Trip Gen Manual, 11th Edition

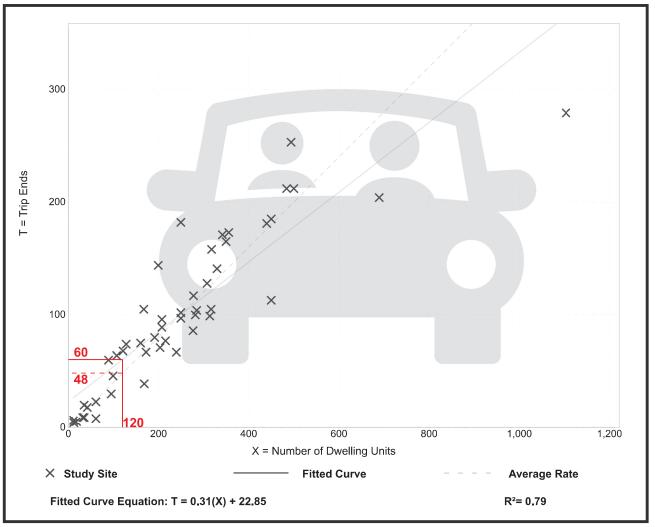
• Institute of Transportation Engineers

Multifamily Housing (Low-Rise) Not Close to Rail Transit (220)					
Vehicle Trip Ends vs: On a	Dwelling Units Weekday,				
on al	Peak Hour of Adjacent Street Traffic,				
	One Hour Between 7 and 9 a.m.				
Setting/Location:	General Urban/Suburban				
Number of Studies:	49				
Avg. Num. of Dwelling Units:	249				
Directional Distribution:	24% entering, 76% exiting				

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.40	0.13 - 0.73	0.12

Data Plot and Equation



Trip Gen Manual, 11th Edition

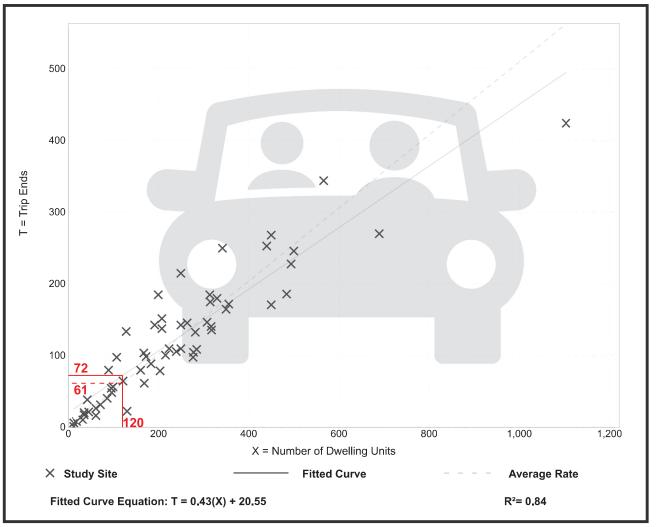
• Institute of Transportation Engineers

Multifamily Housing (Low-Rise) Not Close to Rail Transit (220)					
Vehicle Trip Ends vs: On a:	-				
Setting/Location:	General Urban/Suburban				
Number of Studies:	59				
Avg. Num. of Dwelling Units:	241				
Directional Distribution:	63% entering, 37% exiting				

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.51	0.08 - 1.04	0.15

Data Plot and Equation



Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

Appendix F

ICE Tool Report



GDQT GDOT INTERSECTION CONTROL EVALUATION (ICE) TOOL

ICE Version 2.3| Revised 11/13/2023

Georgia Departmen	nt of Transportation																							
GDO.	T PI#: N/A		Reque	est By:	Atlas D	evelop	ment				1						2024	EXIST	ING YE	EAR VO	OLUME	S	Δ	
Co	unty: Hall	,		c	GDOT D	listrict [.]	1 - Gaii	nesville	1		-			<u>CH SP</u> 100%			Ę	505 (444	4) [12197	7]			N	
											-		Drive:			-	(0)	(0)	(444)	(0)				
Major F	Road: SR 211			Road Class:	Minor A	Arterial		Speed Limit:	55	mph						SR 211	0	0 .M	505	0 M.	WB Atla Peds	<u> </u>	(0)	
Crossing F	Road: Atlas D	rive		Road Class:	Local			Speed Limit:	< 35	mph					(0)	8	Peds Ţ	¢#	1 Intersection	₩	↓	0	(0)	0]
Major Rd Dire	ction: North/S	South	Area	а Туре:	Suburb)/Trans	ition							0 (0) [0]	(0)	0	⇒		ing Volume	e (est):	¢	0	(0)	0 (0) [0]
Intersection Co	ontrol: New Int	tersect	ion or (Other			Proj	ect ID:	N	I/A				0	(0)	0	Peds	4	12,197 ①	Â	₽ ✓ Peds	211 0	(0)	
Prepare	d By: Southe	astern	Engine	ering II	NC.			Date:	8/30	/2024	1				(1)	EB At	las Drive		507	0	0	NB SR 2		
Project Pur	pose: New ac	cess fo	or Atlas	s Townł	homes (develor	oment				-	PEAK	<u>HR %</u>	TRUC	<u>KS:</u>	_		(0)	(580)	(0)	(0)	z		
												EB	WB	NB	SB				507 (580)) [12197]			
Existing Data	Year: 202	24			2027 (OPENI	NG YE	AR V	OLUM	ES		1%	1%	2%	4%		202	27 DES	SIGN Y	EAR V	OLUM	ES		
Project Opening	·			[5	45 (492) [13729]]								Ę	545 (492	2) [13729	9]				
Project Design Annual Growth				_	(0)	(0)	(473)	(19)									(0)	(0)	(473)	(19)				
	actor*: 9%			SR 211	0	0	538	7	WB Atl	as Driv	e		-			SR 211	0	0	538	7	WB Atla	s Drive		
				8	Peds	4	Û	Ð	Peds ←→	0	(0)	- <u>-</u>		·	1	88	Peds 🚽	¢Ÿ	Û	Ŷ	Peds ←→	0	(0)	8
•	ual daily traffic		(0)	0	£ 1		ntersectior ng Volume		t) t¢	23	(12)	46 (27) [748]			(0)	0	∄∕ ⇒		Intersection ing Volume		₹¥ (‡)	23	(12)	46 (27) [748]
occurring in t hour of the da	he highest one ay) (0) [0]	(0)	0	t ₽		14,103		<u>لم</u>	0 23	(0)	46 (0 (0) [0]	(0)	0	 ₽		14,103		\⊈ \-	0 23	(0) (15)	46 (
			(0)	0	Peds	\$ 1	企	Â	Peds		(10)]		(0)	0	Peds	ণ্দ	企	ने		23	(10)	
LEGENI	D:			EB Atla	as Drive	0	539	7	0	NB SR 211				I		EB At	las Drive	0	539	7	0	NB SR		
	AM Peak Appro	ach Volu	ume			(0)	(618)	(26)	(0)	Z								(0)	(618)	(26)	(0)	Z		
(000) =	PM Peak Appro	ach Volu	ıme			5	644 (644) [13729	9]]									546 (644) [13729	9]			
[000] =	ADT Volume (E	stimate)																						
Introduction:	In 2005, SAFI prioritize safet SHSP. Inters alternatives, a roughly seven intersection sa the ICE policy defensible ber	y fundinection (and furth ty five afety to , develo	ing inves Control ther leve percent advance oped an	stments Evaluat erage sa it of all t ce the To nd adopt	interse tion (ICE afety ad traffic cr oward Ze ted to he	ections E) polic vancen rashes ero Dea elp ensu	quickly l ies and nents fo in Geor oths visio	procedu procedu r interse gia occ on embr	e a com ures rep ection in ur at of aced by	mon co presen mprove r adjac y the G	omponer t a trace ements b ent to ir eorgia G	nt of mo able ar beyond ntersec Governo	ost sta nd tran just th tions. <i>I</i> or's Off	tes' SH sparer le safe Accord ice of H	ISP em nt proce ty prog lingly, th Iighway	phasis dure to ram. A he Geo Safety	areas ar streaml Approxim orgia SH (GOHS	nd HŠIF ine the ately or SP inclu). This I	P project evaluati ne-third udes an CE tool	ion of in of all tra emphas was dev	cluding (tersectio affic fata sis on e eloped to	Georgia' on contro lities an nhancin o suppo	s bl d g rt	
Tool Goal:	The goal of th quantify inters identifying and	ection o	control i	improver	ment be	nefits. 7	The tool	support	ts the IC	E polic	cy and pr	rocedur	es to p	orovide	traceat	oility, tra	ansparen	cy, con	sistency	and acc	countabil	ity when		
Requirements:	, ,	uired for ent pern I Highw e requi e and for esign, ir n either	r any inf mit that vay Syst irement or instru nvolves r 1) a di	tersectic affects a tem; or 2 <u>may</u> be uctions to only rou livided, r	on impro an inters 2) the inf waived to submi utine tra multi-lan	ovemen section) tersection based based it a wai ffic sign ne high	t (e.g. no where: on will b on approver required timing way with	ew or m 1) the i e design opriate e uest to g and e n a clos	nodified ntersec ned or c evidenc the Dep quipme sed mec	interse tion inc constru e prese partmen nt mair dian an	ection, wi cludes at cted usir ented wit nt). An lo ntenance id only ri	idening least c ng State ch a writ CE is r e, or for ight-in/r	/recon one roa e or Fe ten req ot req drivev right-ou	struction dway of deral f quest. uired w way per ut acce	on or co designa unding. (See the when th rmits wh	rridor p ted as In certa e " Wai e prop nere the	oroject, or a State F ain circur ver" tab t osed wor e drivewa	work a coute (S nstance o review k does ny is not	accomplia State Hig es where v criteria not incl t a new l	shed thr hway Sy an ICE that ma lude any leg to an	ough a c ystem) o would o y make a c change already	driveway r as part therwise a project es to the existing		
Process:	A complete IC magnitude an appropriate le shaded grey in	d comp vel of e nclude (plexity o effort. Th drop do	of the in he Stage own men	ntersection e 1 and nu choice	on. Pric Stage : es and	or to sta 2 ICE fo all fields	rting ar rms are shadeo	n ICE, t e desigr d blue re	the Dis ned mir equire	trict Trat nimize re data entr	ffic Eng equired ry. All o	gineer data ii ther ce	and/or nputs u ells in t	State using dru he work	Traffic op-dow (sheet a	Engineer n menu are locke	· should choices d.	d be cor and lim	nsulted f niting tex	or advic t entry.	e on an All fields	;	
Screening Decision Record	Stage 1 should as a screening use good eng eliminated with	g effort ineering hout du	meant t ig judge ie consid	to <i>elimin</i> ement in ideration	nate non respon n, and re	-compending to asons f	titive op the sev or elimin	tions and ven polit nating o	nd iden cy ques or advar	tify whi stions l ncing a	ch altern by selec n alterna	natives ting "Y ntive sh	merit f es" or ould be	urther "No" i e docu	conside n the di mented	rations rop-dov in the '	based o vn boxes 'Screenir	n their a. Alterr ng Deci	practical natives s sion Jus	l feasibili should n stification	ity. User ot be su " columi	s should Immarily n.		
Alternative Selection Decision	Stage 2 involv to detailed des stakeholder po alternative eva and ranked, w	sign. St osture o aluated,	tage 2 d data, for , and a s	lata entr rm the b separate	ry may re basis of t e Users	equire t the ICE Guide h	he use o evaluat ias beer	of exterr ion. A : prepar	nal anal separat red to gi	ysis too e "Cos ive guio	ols to dei tEst" woi dance on	termine rksheet Stage	e costs t tab he 1 and	, opera elps us Stage	itions ar ers dev 2 data e	nd/or sa velop pr entry. O	afety data e-plannii ince all d	a that, c ng-level ata is ei	ombined cost es ntered, e	d with en timates f each alte	ivironme for each mative i	ental and Stage 2 s scored		
Documentation:		E docu	ument co	onsists (of the co	ombina	tion of tl	ne outp	uts fron	n eithei	r a comp	leted a	nd sig	ned wa	aiver for	m or b	oth Stag	e 1 and	Stage 2	2 worksh	neets (al			

ICE Version 2.3| Revised 11/13/2023



GDOT ICE STAGE 1: SCREENING DECISION RECORD

Project				mauves							
	t Location: SR 211 @ Atlas Drive	may be	Note: Up to 5 alternatives may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2 10^{00} $10^$								
<u> </u>	g Control: New Intersection or Other	Stage 1	to screen	s ICE 5 or	d'Il les	2. ancen	Werterweite	all con	ille cite		
Prepare		fewer al	may be selected and evaluated; Use this ICE Stage 1 to screen 5 or fewer alternatives to evaluate in Stage 2								
Date:	8/30/2024	evaluate	e in Stage	2 101	WITT JOH PO	D. Sales	and these	ildon sible	Stor Siles Sector		
cont ev Inte	ver "Yes" or "No" to each policy question for each trol type to identify which alternatives should be raluated in the Stage 2 Decision Record; enter justification in the rightmost column rsection Alternative (see "Intersections" tab for iiled description of intersection/interchange type)	N. 00	atenative add	Alendro Des	overesting the training of the training the training of the training the training of the train	L offender offe	and belling		entreside dentres		
	Conventional (Minor Stop)	Yes	No	No	Yes	Yes	Yes	Yes	Feasible solution to evaluate.		
	Conventional (All-Way Stop)	No	Yes	Yes	No	No	No	No	Warrants not satisfied		
	Mini Roundabout	No	Yes	No	No	No	No	No	Traffic pattern and turning volumes are not preferable		
	Single Lane Roundabout	No	Yes	No	Yes	Yes	No	No	Traffic pattern and turning volumes are not preferable		
tions	Multilane Roundabout	No	Yes	No	Yes	Yes	No	No	SR 211 is a single-lane facility		
Unsignalized Intersections	RCUT (stop control)	Yes	No	Yes	Yes	No	No	No	No feasible u-turn location		
ed Int	RIRO w/down stream U-Turn	Yes	No	Yes	Yes	No	No	No	No feasible u-turn location		
jnalize	High-T (unsignalized)	Yes	No	Yes	No	No	No	No	Traffic pattern and turning volumes are not preferable		
Unsiç	Offset-T Intersections	No	No	No	No	No	No	No	Not feasible to offset. Intersection configuration is 3-legged.		
	Diamond Interch (Stop Control)	No	No	No	No	No	No	No	Not an interchange, volumes do not warrant grade separation.		
I L	Diamond Interch (RAB Control)	No	No	No	No	No	No	No	Not an interchange, volumes do not warrant grade separation.		
	Add one LT Lane on SR 211 Add one RT Lane on SR 211	Yes	No	No	Yes	Yes	Yes	No	Turn lanes included in Conventional (Minor Stop)		
	Other unsignalized (provide description):	No	No	No	No	No	No	No	N/A		
	Traffic Signal	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
	Median U-Turn (Indirect Left)	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
	RCUT (signalized)	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
	Displaced Left Turn (CFI)	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
ection	Continuous Green-T	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
nterse	Jughandle	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
ized I	Quadrant Roadway	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
Signalized Intersections	Diamond Interch (Signal Control)	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
	Diverging Diamond	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
	Single Point Interchange	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
	No LT Lane Improvements No RT Lane Improvements	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		
	Other Signalized (provide description):	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.		

= Intersection type selected for more detailed analysis in Stage 2 Alternative Selection Decision Record



GDOT INTERSECTION CONTROL EVALUATION (ICE) WAIVER FORM

ICE Version 2.3| Revised 11/13/2023

Waiver Request - Level 2 / 3

In certain circumstances where an ICE would otherwise be required, an ICE <u>may</u> be waived based on appropriate evidence presented with a written request. Scenarios in which an ICE waiver request may be considered include:

- 1. Proposed improvements do not substantially alter the character of the intersection, and are considered minor in nature, such as extending existing turn lane(s) or modifying signal phasing at an existing traffic signal
- 2. The intersection consists of a public roadway intersecting a divided, multilane roadway where the access will be limited to a closed median with only right-in/right-out access that will operate acceptably; or
- 3 The intersection is along an undivided, two-lane roadway that will not be widened and meets the following criteria:
 - · Low risk in terms of exposure (total intersection entering volume less than 1,000 vehicles /day)
 - Latest 5 years of crash history is not indicative of a crash problem (no discernible crash patterns coupled with low crash frequency and severity)
 - · Layout has no unusual or undesirable geometric features (such as restricted sight distance)
 - · The proposed changes are not expected to adversely affect safety

If only one alternative is determined to be feasible from the ICE Stage 1, then a waiver may be submitted in lieu of completing ICE Stage 2. The waiver must clearly explain why there is no other feasible alternative. A Waiver Form should also be submitted to document an agreed upon decision to select a preferred alternative other than the highest scoring alternative in Stage 2.

ICE waiver forms with supporting documentation should be submitted for approval to the Office of Traffic Operations or District Engineer (depending on Waiver level). Questions regarding the waiver process should be routed to the State Traffic Engineer.

Project Information:	Location:	SR 211 @ Atlas Drive
	County:	Hall
	GDOT District:	1 - Gainesville
	Area Type:	Suburb/Transition
Existing Inter	section Control:	New Intersection or Other

Traffic and Operations Data:^{1,2}

Intersection meets signal/AWS warrants?	None			
Traffic Analysis Type:	Intersecti	on Delay		
Existing Major Street Avg Daily Traffic (ADT):	12,	197		
Existing Minor Street Avg Daily Traffic (ADT):	0			
Analysis Period:	AM Peak	PM Peak		
2027 Opening Yr Peak Hour Intersection Delay:	21.1 sec	21.4 sec		
2027 Opening Yr Peak Hour Intersection V/C:	0.19	0.12		
2027 Design Yr Peak Hour Intersection Delay:	21.1 sec	21.4 sec		
2027 Design Yr Peak Hour Intersection V/C:	0.19	0.12		

GDOT PI # (or N/A): N/A Requested By: Atlas Development Prepared By: Southeastern Engineering INC. Date: 8/30/2024 Waiver Request Type: Driveway Permit

ſ	Cras	h Data	(Requi	ed): ³			
Γ	Crash Data: Enter most		Cra	ash Sevel	rity		Years:
	recent 5 years of crash data	K*	A*	B*	C*	0	5
	Angle	0	0	0	0	0	#DIV/0!
lype	Head-On	0	0	0	0	0	#DIV/0!
- us	Rear End	0	0	0	0	0	#DIV/0!
Urasn	Sideswipe - same	0	0	0	0	0	#DIV/0!
	Sideswipe - opposite	0	0	0	0	0	#DIV/0!
	Not Collision w/Motor Veh	0	0	0	0	0	#DIV/0!
	TOTALS:	0	0	0	0	0	0

* Number of crashes resulting in injuries / fatalities, not number of persons

Description of Work / Only one feasible alternative was identified in Stage 1. The minor-street stop control operates acceptably in both Justification for Waiver peak hours. Atlas Drive will be two lanes, one entry and one exit. The intersection meets the threshold for both a (Required): left-turn and right-turn auxiliary lane on SR 211, and they are included in the analysis.

Proposed Intersection Control: Conventional (Minor Stop)

REQUESTED BY:	Chris Maddox, PE, PTOE	Date:	8/30/2024
Title:	Traffic Engineer		
APPROVED BY:		Date:	
Name:			
	District Engineer or (Approved Delegate)		

¹ Analysis data input on this worksheet is for proposed control & configuration on form, not the No-Build data shown on the top of Stage 2

² ADT's required if available (from data collected or nearest GDOT count station site); Capacity data optional unless needed to justify basis of the waiver request.

³ Crash data (required for all existing intersections) must be entered here independent from Stage 2 worksheet inputs (not linked)

Southeastern Engineering INC. 09/09/2024

Int Delay, s/veh Movement Lane Configurations	0.9 WBL	WBR	NIDT			
		WBR	NDT			
Lane Configurations	Sec. 10		NBT	NBR	SBL	SBT
	Y		•	7	1	1
Traffic Vol, veh/h	23	23	539	7	6	539
Future Vol, veh/h	23	23	539	7	6	539
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	250	250	-
Veh in Median Storage,	,# 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	4
Mvmt Flow	26	26	613	8	7	613

Major/Minor	Minor1	N	/lajor1	N	Major2					
Conflicting Flow All	1240	613	0	0	621	0				
Stage 1	613	-	-	-	-	-				
Stage 2	627	-	-	-	-	-				
Critical Hdwy	6.42	6.22	-	-	4.12	-				
Critical Hdwy Stg 1	5.42	-	-	-	-	-				
Critical Hdwy Stg 2	5.42	-	-	-	-	-				
Follow-up Hdwy	3.518		-	-	2.218	-				
Pot Cap-1 Maneuver		492	-	-	960	-				
Stage 1	541	-	-	-	-	-				
Stage 2	532	-	-	-	-	-				
Platoon blocked, %			-	-		-				
Mov Cap-1 Maneuve		492	-	-	960	-				
Mov Cap-2 Maneuve		-	-	-	-	-				
Stage 1	541	-	-	-	-	-				
Stage 2	528	-	-	-	-	-				
Approach	WB		NB		SB					
HCM Control Delay, s			0		0.1					
HCM LOS	С									
Minor Lane/Major Mv	'mt	NBT	NBRW	'BLn1	SBL	SBT				
Capacity (veh/h)		-	-	276	960	-	_			

Capacity (veh/h)	-	- 276	960 -	
HCM Lane V/C Ratio	-	- 0.189 0	.007 -	
HCM Control Delay (s)	-	- 21.1	8.8 -	
HCM Lane LOS	-	- C	A -	
HCM 95th %tile Q(veh)	-	- 0.7	0 -	

Intersection							
Int Delay, s/veh	0.7						
Movement	WBL	WBR	NBT	NBR	SBL	SBT	-
Lane Configurations	Y		1	1	٦	•	•
Traffic Vol, veh/h	15	12	618	26	19	473	3
Future Vol, veh/h	15	12	618	26	19	473	}
Conflicting Peds, #/hr	0	0	0	0	0	0)
Sign Control	Stop	Stop	Free	Free	Free	Free	;
RT Channelized	-	None	-	None	-	None	;
Storage Length	0	-	-	250	250	-	-
Veh in Median Storage	,# 0	-	0	-	-	0)
Grade, %	0	-	0	-	-	0)
Peak Hour Factor	90	90	90	90	90	90)
Heavy Vehicles, %	2	2	2	2	2	2	2
Mvmt Flow	17	13	687	29	21	526	5

Major/Minor	Minor1	N	Major1	ľ	Major2		
Conflicting Flow All	1255	687	0	0	716	0	
Stage 1	687	-	-	-	-	-	
Stage 2	568	-	-	-	-	-	
Critical Hdwy	6.42	6.22	-	-	4.12	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy	3.518	3.318	-	-	2.218	-	
Pot Cap-1 Maneuver	189	447	-	-	885	-	
Stage 1	499	-	-	-	-	-	
Stage 2	567	-	-	-	-	-	
Platoon blocked, %			-	-		-	
Mov Cap-1 Maneuver	184	447	-	-	885	-	
Mov Cap-2 Maneuver	184	-	-	-	-	-	
Stage 1	499	-	-	-	-	-	
Stage 2	553	-	-	-	-	-	
Approach	WB		NB		SB		
HCM Control Delay, s			0	_	0.4		
HCM LOS	C		0		0.4		
	U						
Minor Lane/Major Mvi	mt	NBT	NBRW	BLn1	SBL	SBT	
Capacity (veh/h)		-	-	249	885	-	
				0.40	0.004		

			240	000				
HCM Lane V/C Ratio	-	-	0.12	0.024	-			
HCM Control Delay (s)	-	-	21.4	9.2	-			
HCM Lane LOS	-	-	С	А	-			
HCM 95th %tile Q(veh)	-	-	0.4	0.1	-			