TRAFFIC IMPACT STUDY

FOR

ATLAS TOWNHOMES

HALL COUNTY, GA

Prepared By:



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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**.

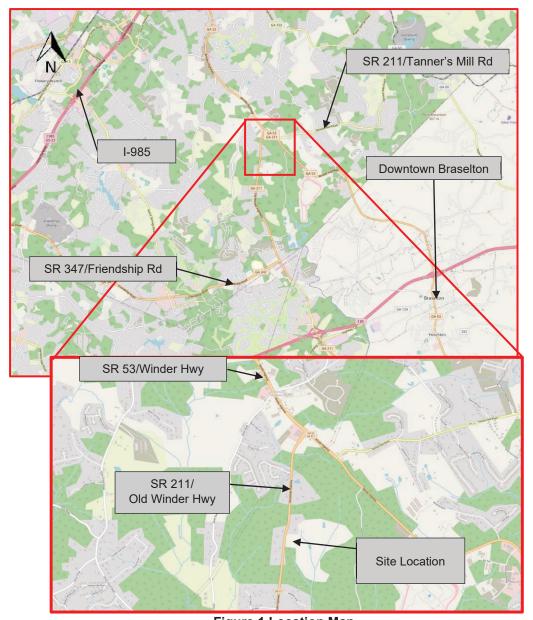


Figure 1 Location Map

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.





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

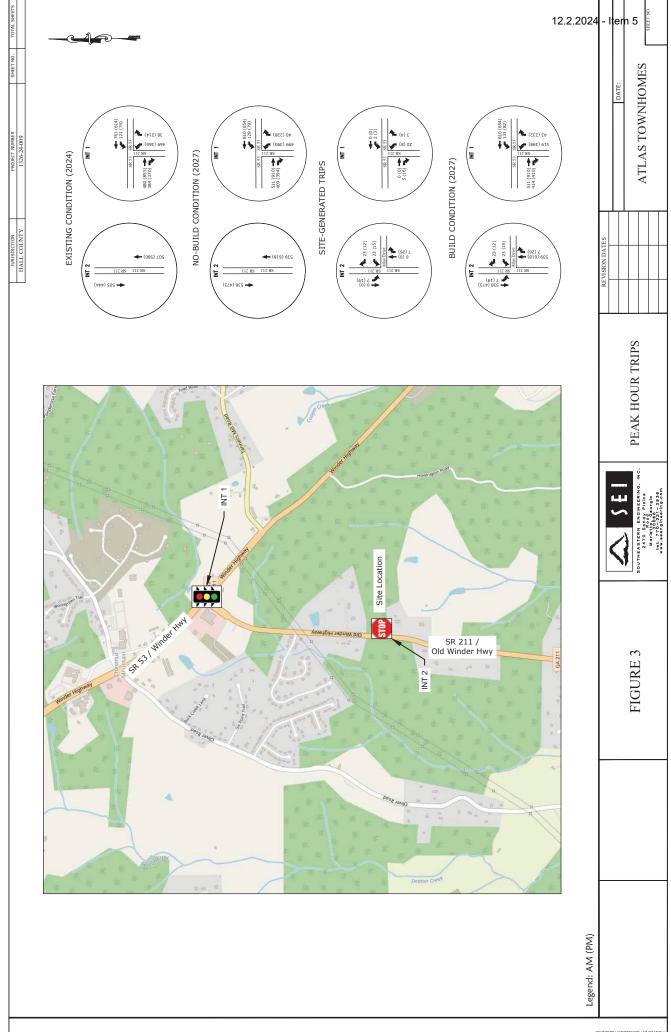
SR 53/Winder Highway is a four-lane median-divided roadway west of Tanners Mill Road and an undivided two-lane roadway east of Tanners Mill Road. It is classified as a minor arterial southeast of Old Winder Hwy and a principal arterial northeast of Old Winder Hwy. It has a posted speed limit of 45 mph. 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	Volu	Total			
Location	Northbound	Southbound	TOLAI		
SR 211 / Old Winder Hwy south of Daylily Dr	6,211	5,986	12,197		





- (5)

Traffic Impact Study September 9, 2024

Level of Service Methodology

Intersection capacity analyses were performed using the methodology outlined in the <u>Highway Capacity Manual</u>, 6th <u>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 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 Intersection				
Α	≤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)								
Interception Control Time Annuach Delay (
Intersection	Control Type	Approach	AM	PM				
	Signalized Intersection	EB	7 (A)	7 (A)				
SD 52 at SD 244		WB	8 (A)	7 (A)				
SR 53 at SR 211		NB	17 (B)	18 (B)				
		Overall	9 (A)	9 (A)				





12.2.2024 - Item 5

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	5-Year Growth Rate	10-Year Growth 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%			
	5 - Year and 10 - Year Average 5.2% 4.0%					
	Average Growth Rate 4.6%					

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							
Hall County	2020-2025	2025-2030	2030-2035	2035-2040	2040-2045	2045-2050	Average		
Tiali County	1.6%	1.4%	1.3%	1.1%	1.0%	1.0%	1.2%		
Geographic Area		Average 10-Year Growth Rate from 2020 to 2050							
Hall County	2020-2030		2030-2040		2040-2050		Average		
Hall County	1.3	3%	1.3	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)							
Interpostion	Control Type	Approach	Delay (LOS)				
Intersection	Intersection Control Type Approa		AM	PM			
	Signalized Intersection	EB	7 (A)	8 (A)			
SR 53 at SR 211		WB	8 (A)	8 (A)			
SK 33 at SK 211		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	Da	ily Traf	fic	AM	Peak H	lour	PM I	Peak H	our
(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 Requirements							
Posted Speed	2 Lane	Routes	More than 2 Lane	s 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 10: Right-Turn Lane Requirements							
Posted Speed	2 Lane	Routes	s 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)											
Interception	Intersection Control Type Approach												
intersection	Intersection Control Type Approach AM												
		EB	8 (A)	8 (A)									
SR 53 at SR 211	Signalized Intersection	WB	8 (A)	8 (A)									
SIX 33 at SIX 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 o	of Service Co	mparison			
Intersection	Control Type	Approach		Build itions	Build Co	nditions
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	Cianolizad	WB	8 (A)	8 (A)	8 (A)	8 (A)
3K 33 at 3K 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)





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.



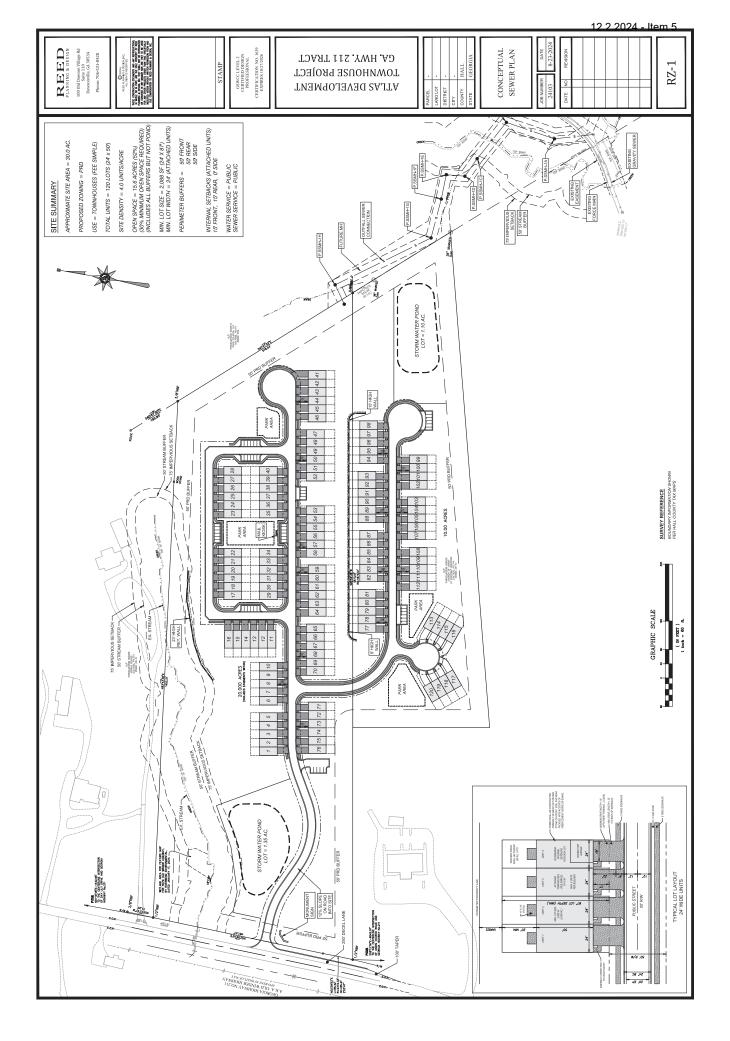
APPENDICES

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Appendix A Site Plan



Appendix B Traffic Counts Summary Sheets

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

Peak Hour Turning Movement Count

Hall County, GA

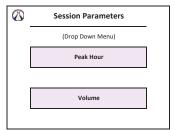


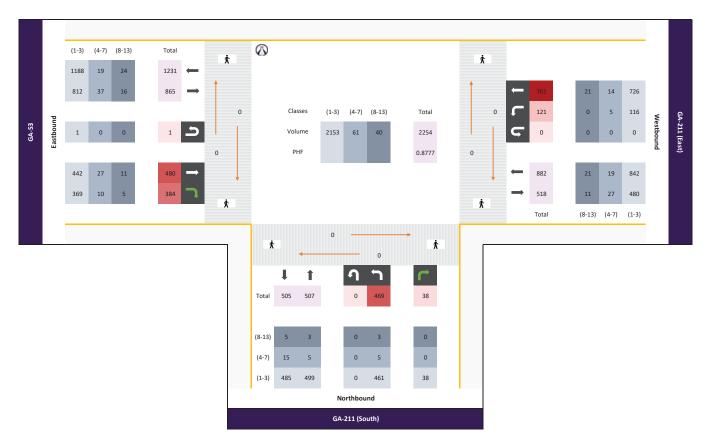




Т	uesday, January 30, 2024								
Period 0600 - 0800									
Peak Hour	0700 - 0800								

* the Peak Hour Diagram does not include Bikes





				bound												ound						bound		
	Left		GA-211 Right	(South)	U-Turn	App		1			1	Арр		Thru	G <i>A</i> Right	i-53	U-Turn	App	Left	Thru	GA-21	1 (East)	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
0700 - 0715	96	-	10	-	0	106	-	-	-	-	-	0	-	99	79	-	0	178	16	169	-	-	0	185
0715 - 0730	121	-	7	-	0	128	-	-	-	-	-	0		113	71	-	0	184	20	198	-	-	0	218
0730 - 0745	150	-	10	-	0	160	-	-	-	-	-	0		116	92	-	0	208	48	226	-	-	0	274
0745 - 0800	102	-	11	-	0	113	-	-	-	-	-	0	-	152	142	-	1	295	37	168	-	-	0	205
Total	460		20			507	_			_		0	_	400	204			005	424	764	0			000
Approach %	469 92.50	0.00	38 7.50	0.00	0.00	507	0.00	0.00	0.00	0.00	0.00	0	0.00	480 55.49	384 44.39	0.00	0.12	865	121 13.72	761 86.28	0.00	0.00	0.00	882
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
enger Vehicles (1-3)																								
enger venicles (1-3)			North	bound											East	ound					West	bound		
				L (South)											G/	-53					GA-21	.1 (East)		
	Left		Right		U-Turn	App						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
0700 - 0715	95	-	10	-	0	105	-	-	-	-	-	0	<u> </u>	91	73	-	0	164	15	161	-	-	0	176
0715 - 0730	120	-	7	-	0	127	-	-	-	-	-	0	·	102	68	-	0	170	18	191	-	-	0	209
0730 - 0745	148	<u> </u>	10	<u> </u>	0	158		-	-	-	-	0	<u> </u>	108	92	-	0	200	48	216	-	<u> </u>	0	264
0745 - 0800	98	L -	11	-	0	109	i i			-		0	<u> </u>	141	136	-	1	278	35	158	-	-	0	193
Total	461	0	38	0	0	499	0	0	0	0	0	0	0	442	369	0	1	812	116	726	0	0	0	842
Approach %	92.38	0.00	7.62	0.00	0.00	- 453	0.00	0.00	0.00	0.00	0.00	-	0.00	54.43	45.44	0.00	0.12	- 012	13.78	86.22	0.00	0.00	0.00	- 042
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	0.25	0.73	0.60	0.84	0.00	0.00	0.00	0.80
		0.00			0.00			0.00		0.00	0.00				0.00	0.00	0.20				0.00		0.00	0.00
e Unit Trucks (4-7)																								
				bound												ound -53						bound		
	1 - 64			(South)		A	_	1	1		1	A	_	Thomas		1-53	III Tomas	A	1 - 64	Th	GA-21	1 (East)	III Torres	A
Time	Left 1.1		Right 1.2		U-Turn 1.3	App Total						App Total		Thru 1.4	Right 1.5		U-Turn 1.6	App Total	Left 1.7	Thru 1.8			U-Turn 1.9	App Total
0700 - 0715		-					_		-				_								-	<u> </u>		
0700 - 0715	1	-	0	-	0	1	·	-	-	-	-	0	·	4	5	-	0	9	1	4	-	-	0	5
0715 - 0730	1	-	0	-	0	1	·	-	-	-	-	0	·	8	2	-	0	10	2	4	-	-	0	6
0745 - 0800	2	-	0	-	0	2		-	-	-	-	0	<u> </u>	6 9	0	-	0	6	2	4	-	<u> </u>	0	4
0743 - 0800		<u> </u>	U	<u> </u>	U			-		-	-	0	<u> </u>	9	3	-	0	12			-	<u> </u>	U	4
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
Approach %	100.00		0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	U	0.00	72.97	27.03	0.00	0.00	3/	26.32	73.68	0.00	0.00	0.00	19
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
	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.50	0.00	0.00	0.77	0.03	0.00	0.00	0.00	0.00	0.75
	-																							
bination Trucks (8-13)			North	bound											Eastl	ound					West	bound		
			GA-211	L (South)											G/	-53					GA-21	1 (East)		
	Left		Right		U-Turn	App						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
0700 - 0715	0	-	0	-	0	0	-	-	-	-	-	0	-	4	1	-	0	5	0	4	-	-	0	4
0715 - 0730	0	I =	0	_	0	0						0	_	3	1	-	0	4	0	3			0	3
0730 - 0745	1	-	0	-	0	1	-	-	-	-	-	0	-	2	0	-	0	2	0	6	-	-	0	6
0745 - 0800	2	-	0	-	0	2	-	-	-	-	-	0	-	2	3	-	0	5	0	8	-	-	0	8
Total	3	0	0	0	0	3	0	0	0	0	0	0	0	11	5	0	0	16	0	21	0	0	0	21
Approach %	100.00		0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	68.75	31.25	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-
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
:																								
			North	bound											Eastl	ound					West	bound		
			GA-211	(South)											G/	-53					GA-21	1 (East)		
	Left		Right		U-Turn	App	I					App	I	Thru	Right	l	U-Turn	App	Left	Thru		1	U-Turn	App
Time	1.1		1.2		1.3	Total						Total		1.4	1.5		1.6	Total	1.7	1.8		<u> </u>	1.9	Total
0700 - 0715	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	1 -	0	-	0	0	-	-	-	-	-	0	-	0	0	-	0	0	0	0	-	-	0	0
0730 - 0745		_																						
0730 - 0745 0745 - 0800	0	-	0	-	0	0	-	-	-	-	-	0	-	0	0	-	0	0	0	0	-	-	0	0
0745 - 0800	0	-	0			0	-	-			-		-								-			
		0 0.00		0 0.00	0 0.00		0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0

Peak Hour Turning Movement Count

Hall County, GA

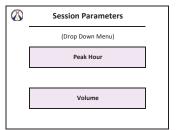


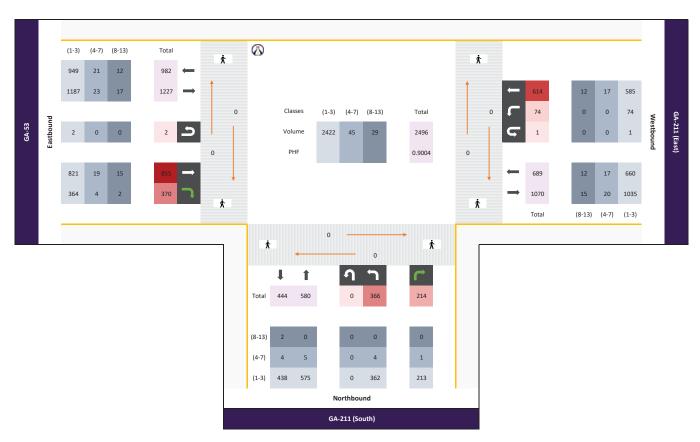


Т	uesday, January 30, 2024
Period	1600 - 1800
Peak Hour	1700 - 1800

Click here for Map

* the Peak Hour Diagram does not include Bikes





All vehicles				bound (South)											Eastb	ound						bound 1 (East)			1
	Left		Right	(South)	U-Turn	App	-			1		Арр		Thru	Right	1-53	U-Turn	App	Left	Thru	GA-21	I (East)	U-Turn	App	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
1700 - 1715	67	-	72	-	0	139	-	-	-	-	-	0	-	252	66	-	0	318	21	164	-	-	1	186	643
1715 - 1730	111	-	74	-	0	185	-	-	-	-	-	0	-	221	111	-	1	333	14	161	-	-	0	175	693
1730 - 1745	109	-	32	-	0	141	-	-	-	-	-	0	-	179	94	-	1	274	17	149	-	-	0	166	581
1745 - 1800	79	-	36	-	0	115	-	-	-	-	-	0	-	203	99	-	0	302	22	140	-	-	0	162	579
Total	366	0	214	0	0	580	0	0	0	0	0	0	0	855	370	0	2	1227	74	614	0	0	1	689	2496
Approach %	63.10	0.00	36.90	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	69.68	30.15	0.00	0.16	-	10.74	89.11	0.00	0.00	0.15	-	
PHF	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	0.83	0.00	0.50	0.92	0.84	0.94	0.00	0.00	0.25	0.93	0.90
Passenger Vehicles (1-3)																									
assenger venicles (1-5)			North	bound											Eastb	ound					West	bound			
				(South)												-53						1 (East)			
	Left		Right	i i	U-Turn	App						App		Thru	Right		U-Turn	Арр	Left	Thru			U-Turn	App	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
1700 - 1715	67	-	71	-	0	138	-	-	-	-	-	0	-	235	66	-	0	301	21	154	-	-	1	176	615
1715 - 1730	109	-	74	-	0	183	-	-	-	-	-	0	-	211	109	-	1	321	14	156	-	-	0	170	674
1730 - 1745	109	-	32	-	0	141	-	-	-	-	-	0	-	176	91	-	1	268	17	140	-	-	0	157	566
1745 - 1800	77	-	36		0	113	-			-		0	-	199	98		0	297	22	135	-	<u> </u>	0	157	567
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	2422
Approach %	62.96	0.00	37.04	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	0.90
																									=
Single Unit Trucks (4-7)																									
				bound												ound						bound			
				(South)												-53					GA-21	1 (East)			
	Left		Right		U-Turn	App						App		Thru	Right		U-Turn	App	Left	Thru			U-Turn	App	Int
Time	1.1		1.2	l	1.3							Total		1.4	1.5		1.6	Total	1.7	1.8				Total	Total
						Total						rotar			1.5				1.7				1.9		
1700 - 1715	0	-	1	-	0	1	-	-	-	-	-	0	-	10	0	-	0	10	0	9	-	-	0	9	20
1700 - 1715 1715 - 1730	0 2	-	1	-	0	1 2	-	-	-	-	-	0	-	10 5	0	-	0	10 6	0	9	-	-	0	3	20 11
1700 - 1715 1715 - 1730 1730 - 1745	0 2 0	-	1 0 0	-	0 0	1 2 0	-	-	- -	- -	- - -	0 0	-	10 5 2	0 1 3	- - -	0 0 0	10 6 5	0 0	9 3 4	-	-	0 0	3	20 11 9
1700 - 1715 1715 - 1730	0 2	-	1	- - -	0	1 2	-	-		-	- - -	0	-	10 5	0		0	10 6	0	9			0	3	20 11
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800	0 2 0 2	-	1 0 0 0	-	0 0 0	1 2 0 2		-	-	÷	÷	0 0 0	-	10 5 2 2	0 1 3 0	-	0 0 0	10 6 5 2	0 0 0	9 3 4 1	-	-	0 0 0 0	3 4 1	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total	0 2 0 2	- - - -	1 0 0 0	- 0	0 0 0 0	1 2 0 2	- 0	- - - -	0	- 0	- 0	0 0 0 0	- 0	10 5 2 2	0 1 3 0		0 0 0 0	10 6 5 2	0 0 0 0	9 3 4 1	- 0		0 0 0 0	3	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	0 2 0 2 2 4 80.00	0.00	1 0 0 0	- 0 0.00	0 0 0 0	1 2 0 2	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0	0	10 5 2 2 2 19 82.61	0 1 3 0 4 17.39	- - 0 0.00	0 0 0 0	10 6 5 2	0 0 0 0	9 3 4 1 17 100.00	- - 0 0.00	- - 0 0.00	0 0 0 0	3 4 1	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total	0 2 0 2	_	1 0 0 0	- 0	0 0 0 0	1 2 0 2	- 0	-	0	- 0	- 0	0 0 0 0	- 0	10 5 2 2	0 1 3 0		0 0 0 0	10 6 5 2	0 0 0 0	9 3 4 1	- 0		0 0 0 0	3 4 1	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	0 2 0 2 2 4 80.00	0.00	1 0 0 0	- 0 0.00	0 0 0 0	1 2 0 2	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0	0	10 5 2 2 2 19 82.61	0 1 3 0 4 17.39	- - 0 0.00	0 0 0 0	10 6 5 2	0 0 0 0	9 3 4 1 17 100.00	- - 0 0.00	- - 0 0.00	0 0 0 0	3 4 1	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	0 2 0 2 2 4 80.00	0.00	1 0 0 0	- 0 0.00	0 0 0 0	1 2 0 2	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0	0	10 5 2 2 2 19 82.61	0 1 3 0 4 17.39	- - 0 0.00	0 0 0 0	10 6 5 2	0 0 0 0	9 3 4 1 17 100.00	- - 0 0.00	- - 0 0.00	0 0 0 0	3 4 1	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	0 2 0 2 2 4 80.00	0.00	1 0 0 0 1 20.00 0.25	0 0.00 0.00	0 0 0 0	1 2 0 2	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0	0	10 5 2 2 2 19 82.61	0 1 3 0 4 17.39	0 0.00 0.00	0 0 0 0	10 6 5 2	0 0 0 0	9 3 4 1 17 100.00	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0	3 4 1	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	0 2 0 2 2 4 80.00	0.00	1 0 0 0 1 20.00 0.25	- 0 0.00 0.00	0 0 0 0	1 2 0 2	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0	0	10 5 2 2 2 19 82.61	0 1 3 0 4 17.39 0.33	- 0 0.00 0.00	0 0 0 0	10 6 5 2	0 0 0 0	9 3 4 1 17 100.00	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0	3 4 1	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach %	0 2 0 2 0 2 4 80.00 0.50	0.00	1 0 0 1 20.00 0.25	0 0.00 0.00	0 0 0 0 0 0 0 0.00	1 2 0 2 5 -	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	10 5 2 2 2 19 82.61 0.48	0 1 3 0 4 17.39 0.33	0 0.00 0.00	0 0 0 0 0	10 6 5 2 23 -	0 0 0 0 0 0	9 3 4 1 17 100.00 0.47	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0 0	3 4 1 17 - 0.47	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Combination Trucks (8-13)	0 2 0 2 2 4 80.00 0.50 Left	0.00	1 0 0 0 1 20.00 0.25 North GA-211	- 0 0.00 0.00	0 0 0 0 0 0.00 0.00	1 2 0 2 5 - 0.63	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0 0	0	10 5 2 2 2 19 82.61 0.48	0 1 3 0 4 17.39 0.33	- 0 0.00 0.00	0 0 0 0 0 0.00 0.00	10 6 5 2 23 - 0.58	0 0 0 0 0 0 0.00 0.00	9 3 4 1 17 100.00 0.47	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0 0 0.00 0.00	3 4 1 17 - 0.47	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF combination Trucks (8-13)	0 2 0 2 0 2 4 80.00 0.50	0.00	1 0 0 0 1 20.00 0.25 North GA-211 Right 1.2	- 0 0.00 0.00	0 0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 - 0.63 App Total	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0 0 - 0.00	0	10 5 2 2 2 19 82.61 0.48	0 1 3 0 4 17.39 0.33	- 0 0.00 0.00	0 0 0 0 0 0.00 0.00 0.00	10 6 5 2 23 - 0.58	0 0 0 0 0 0 0.00 0.00	9 3 4 1 17 100.00 0.47 Thru 1.8	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0 0 0.00 0.00	3 4 1 17 - 0.47	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Combination Trucks (8-13)	0 2 0 2 0 2 4 80.00 0.50	0.00	1 0 0 0 1 20.00 0.25 North GA-211 Right 1.2	- 0 0.00 0.00	0 0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 - 0.63	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0 0 - 0.00	0	10 5 2 2 2 82.61 0.48 Thru 1.4 7	0 1 3 0 4 17.39 0.33 Eastl: GA Right 1.5	- 0 0.00 0.00	0 0 0 0 0 0.00 0.00 0.00	10 6 5 2 23 - 0.58 App Total 7	0 0 0 0 0 0 0.00 0.00 0.00	9 3 4 1 17 100.00 0.47	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0 0 0.00 0.00 0.00	3 4 1 17 - 0.47 App Total 1	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Combination Trucks (8-13)	0 2 2 0 2 2 4 80.00 0.50 Left 1.1 0 0 0	0.00	1 0 0 0 1 20.00 0.25 North GA-211 Right 1.2 0	- 0 0.00 0.00	0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 - 0.63 App Total 0	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0 0 - 0.00	0	10 5 2 2 19 82.61 0.48 Thru 1.4 7 5	0 1 3 0 4 17.39 0.33 Easth GA Right 1.5 0	- 0 0.00 0.00	0 0 0 0 0.00 0.00 0.00	10 6 5 2 23 - 0.58 App Total 7 6	0 0 0 0 0 0 0.00 0.00 0.00	9 3 4 1 17 100.00 0.47 Thru 1.8 1 2	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0 0 0.00 0.00	3 4 1 17 - 0.47 App Total 1 2	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Combination Trucks (8-13) Time 1700 - 1715 1715 - 1730 1730 - 1745	0 2 2 0 2 2 80.00 0.50 Left 1.1 0 0 0 0 0 0	0.00	1 0 0 0 1 20.00 0.25 North GA-211 Right 1.2 0	- 0 0.00 0.00	0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 5 0.63 App Total 0 0 0 0	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0 0 - 0.00	0	10 5 2 2 2 19 82.61 0.48 Thru 1.4 7 5	0 1 3 0 4 17.39 0.33 Eastl: GA Right 1.5 0	- 0 0.00 0.00	0 0 0 0 0.00 0.00 0.00	10 6 5 2 23 - 0.58 App Total 7 6 1	0 0 0 0 0 0 0.00 0.00 0.00	9 3 4 1 17 100.00 0.47 Thru 1.8 1 2	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0 0 0.00 0.00	3 4 1 17 - 0.47 App Total 1 2 5	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Combination Trucks (8-13)	0 2 2 0 2 2 4 80.00 0.50 Left 1.1 0 0 0	0.00	1 0 0 0 1 20.00 0.25 North GA-211 Right 1.2 0	- 0 0.00 0.00	0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 - 0.63 App Total 0	0 0.00	0.00	- - 0 0.00	- 0 0.00	- 0 0.00	0 0 0 0 0 - 0.00	0	10 5 2 2 19 82.61 0.48 Thru 1.4 7 5	0 1 3 0 4 17.39 0.33 Easth GA Right 1.5 0	- 0 0.00 0.00	0 0 0 0 0.00 0.00 0.00	10 6 5 2 23 - 0.58 App Total 7 6	0 0 0 0 0 0 0.00 0.00 0.00	9 3 4 1 17 100.00 0.47 Thru 1.8 1 2	- 0 0.00 0.00	0 0.00 0.00	0 0 0 0 0 0.00 0.00	3 4 1 17 - 0.47 App Total 1 2	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF combination Trucks (8-13) Time 1700 - 1715 1715 - 1730 1730 - 1745	0 2 2 0 0 2 4 80.00 0.50	- - -	1 0 0 1 20.00 0.25 North GA-211 Right 1.2 0 0	0 0.00 0.00 0.00 bound (South)	0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 - 0.63 App Total 0 0 0 0 0	- 0 0.00 0.00	- - - -	- - 0 0.00 0.00	- 0 0.00 0.00	- 0 0.00 0.00	0 0 0 0 0 - 0.00 App Total 0 0 0	- 0 0.00 0.00	10 5 2 2 2 19 82.61 0.48	0 1 3 0 4 17.39 0.33 Eastly GA Right 1.5 0	- 0 0.00 0.00 0.00	0 0 0 0 0.00 0.00 0.00	10 6 5 2 23 - 0.58 App Total 7 6 1 3	0 0 0 0 0 0.00 0.00 0.00	9 3 4 1 17 100.00 0.47 Thru 1.8 1 2 5 4	- - 0 0.00 0.00 West GA-21	- 0 0.00 0.00 0.00 bound 1 (East)	0 0 0 0 0.00 0.00 0.00	3 4 1 17 - 0.47 App Total 1 2 5 4	20 11 9 5 45 0.56 Int Total 8 8 6 7
1700 - 1715 1715 - 1730 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF combination Trucks (8-13) Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total	0 2 2 0 2 4 80.00 0.50 Left 1.1 0 0 0 0 0	- - - -	1 0 0 0 1 20.00 0.25 North GA-211 Right 1.2 0 0	0 0.00 0.00 0.00	0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 5 0.63 App Total 0 0 0 0	- 0 0.00 0.00	- - - - -	- - 0 0.00 0.00	- 0 0.00 0.00 - - - -	- 0 0.00 0.00 - - - -	0 0 0 0 0 - 0.00	- 0 0.00 0.00	10 5 2 2 19 82.61 0.48 Thru 1.4 7 5 1	0 1 3 0 4 17.39 0.33 Eastle GA Right 1.5 0 1	- - 0 0.00 0.00 0.00	0 0 0 0 0.00 0.00 0.00 0.00	10 6 5 2 23 - 0.58 App Total 7 6 1	0 0 0 0 0 0.00 0.00 0.00	9 3 4 1 17 100.00 0.47 Thru 1.8 1 2 5 4	- - 0 0.00 0.00 - - - - -	0 0.00 0.00 1 (East)	0 0 0 0 0 0.00 0.00 0.00	3 4 1 17 - 0.47 App Total 1 2 5	20 11 9 5 45 0.56
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF ombination Trucks (8-13) **Ime** 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800	0 2 2 0 2 4 80.00 0.50 0.50	- - - - 0 0.00	1 0 0 0 1 20.00 0.25 North GA-211 Right 1.2 0 0 0	0 0.00 0.00 0.00 bound (South)	0 0 0 0 0.00 0.00 0.00	1 2 0 2 5 - 0.63 App Total 0 0 0	- 0 0.00 0.00	- - - - - - 0 0.00	- - 0 0.00 0.00	- 0 0.00 0.00	- 0 0.00 0.00	0 0 0 0 0 - 0.00 App Total 0 0 0	- - - - - - - 0 0.00	10 5 2 2 2 19 82.61 0.48 Thru 1.4 7 5 1 2	0 1 3 0 4 17.39 0.33 Eastl: GA Right 1.5 0 1 0	- 0 0.00 0.00 0.00	0 0 0 0 0.00 0.00 0.00 0.00	10 6 5 2 23 - 0.58 App Total 7 6 1 3	0 0 0 0 0 0.00 0.00 0.00	9 3 4 1 17 100.00 0.47 Thru 1.8 1 2 5 4	- - 0 0.00 0.00 West GA-21	0 0.00 0.00 1 (East)	0 0 0 0 0 0.00 0.00	3 4 1 17 	20 11 9 5 45 0.56
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1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Combination Trucks (8-13) Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Total Total Approach % PHF Total Total Approach % PHF 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total	Left 1.1 0 0 0 0.00 0.00 0.00 0.00 0.00 0.0	- - - - - - - - - - - - - - - - - - -	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 0.00 0.00 0.00 0 0 0 0 0 0	1 2 0 0 2 5 - 0.63		0.00 0.00 	- - 0 0.00 0.00 0.00	- 0 0.00 0.00 - - - - - - - - - - - - -	- 0 0.00 0.00 0.00	App Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10 5 2 2 19 82.61 0.48 Thru 1.4 7 5 1 1 2 0.54 0.54	0 1 3 0 1 4 477.39 0.33 EastH 68A Right 1.5 0 1 1 0 1 1 EastH 6A Right 1.5 0 0 0 0 0	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0 0 0 0.00 0.00 0.00 0.00 0 0 0 0 0 0	10 6 5 2 23 - 0.58 App Total 7 6 1 3 - 0.61	0 0 0 0 0 0 0.00 0 0.00 0 0.00 0 0 0 0	9 3 4 1 1 17 100.00 0.47 1 18 1 1 2 2 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0.00 0.00 West GA-21 0 0 0.00 0.00 0 0.00 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	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	App Total 1 2 5 5 4 4	20 11 9 5
1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF Combination Trucks (8-13) Time 1700 - 1715 1715 - 1730 1730 - 1745 1745 - 1800 Total Approach % PHF	Left 1.1 0 0 0 0.00 0.00 0.00 0 0 0 0 0 0 0		1 0 0 0 0 0 0.25 North GA-2111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 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 2 0 0 2 5 0.63	- 0 0.00 0.00 - - - - - 0.00 0.00	- - - - - 0.00	- - 0 0.00 0.00 - - - - - - - - - - - - - - -	- 0 0.00 0.00 0.00	- 0 0.00 0.00 0.00	App Total 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 0 0.00 0.00 0.00	10 5 2 2 2 19 82.61 0.48 Thru 1.4 7 5 1 2 15 88.24 0.54 Thru 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 3 0 0 17.39 0.33 Festite 6A Right 1.5 0 1 1 2 2 11.76 GA GA Fight 1.75 GA GA GA GA GA GA GA GA GA GA GA GA GA	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 6 5 2 23 - 0.58 App Total 7 6 1 1 3 - 0.61	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 3 4 1 1 17 100.00 0.47	0 0.00 0.00 West GA-21	0 0.00 0.00 bound 1 (East) 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0 0 0 0.00 0.00 0.00 0.00 0 0 0 0 0 0	App Total 12 - 0.60 - 0 0 0 0	20 11 9 5 45 0.56 Int Total 8 8 6 7 0.91 Int Total 0 0 0

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

Bi-Directional Class Count || NB EB 15min

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

Marr Traffic
DATA COLLECTION

Date Tuesday, January 30, 2024

Lat/Long 34.161821°, -83.835738°

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0000 - 2400 (Weekday 24h Session) (01-30-2024) NB EB 15min

Time	1	2	3	4	5	Northb 6	ound (Movem 7	ent 1.1) 8	9	10	11	12	13	15min Total	60min Total
0000 - 0015	0	3	3	0	0	0	0	0	0	0	0	0	0	6	TOTAL
0015 - 0030	0	4	3	0	0	0	0	0	0	0	0	0	0	7	
0030 - 0045	0	3	4	0	0	0	0	0	0	0	0	0	0	7	
0045 - 0100	0	3	1	0	0	0	0	0	0	0	0	0	0	4	24
0100 - 0115	0	4	0	0	0	0	0	0	0	0	0	0	0	4	
0115 - 0130	0	3	2	0	0	0	0	0	0	0	0	0	0	5	
0130 - 0145	0	3	0	0	0	0	0	0	1	0	0	0	0	4	
0145 - 0200	0	1	1	0	0	0	0	0	0	0	0	0	0	2	15
0200 - 0215 0215 - 0230	0	2	0	0	0	0	0	0	0	0	0	0	0	2 7	
0230 - 0245	0	3	0	1	3	0	0	0	0	0	0	0	0	7	
0245 - 0300	0	3	2	0	0	0	0	1	1	0	0	0	0	7	23
0300 - 0315	0	3	1	0	1	0	0	0	0	0	0	0	0	5	
0315 - 0330	0	2	0	0	1	0	0	0	0	0	0	0	0	3	
0330 - 0345	0	3	2	0	0	0	0	0	0	0	0	0	0	5	
0345 - 0400	0	4	2	0	0	0	0	0	0	0	0	0	0	6	19
0400 - 0415	0	3	3	0	0	0	0	0	0	0	0	0	0	6	
0415 - 0430	0	7	5	0	0	0	0	0	0	0	0	0	0	12	
0430 - 0445	0	7	10	0	0	0	0	0	0	0	0	0	0	17	
0445 - 0500 0500 - 0515	0	8	4	0	3	0	0	0	1	0	0	0	0	16	51
0500 - 0515	0	9	4 6	1	2	0	0	0	2	0	0	0	0	18 17	
0530 - 0545	0	21	14	0	0	0	0	0	1	0	0	0	0	36	
0545 - 0600	0	18	11	0	0	0	0	0	0	0	0	0	0	29	100
0600 - 0615	0	45	11	0	0	0	0	0	0	0	0	0	0	56	
0615 - 0630	0	60	14	0	4	0	0	0	0	0	0	0	0	78	
0630 - 0645	0	70	17	0	3	1	0	0	0	0	0	0	0	91	
0645 - 0700	0	80	19	0	2	0	0	0	0	0	0	0	0	101	326
0700 - 0715	0	88	20	0	1	0	0	0	0	0	0	0	0	109	
0715 - 0730	0	113	26	0	0	0	0	0	0	0	0	0	0	139	
0730 - 0745	0	112	34	0	1	0	0	0	1	0	0	0	0	148	
0745 - 0800	0	86	26	1	2	0	0	1	1	0	0	0	0	117	513
0800 - 0815	0	63	36	0	0	1	0	0	0	0	0	0	0	100	
0815 - 0830 0830 - 0845	0	68 81	16 34	0	0	0	0	0	0 2	0	0	0	0	84 117	
0830 - 0845 0845 - 0900	0	81 74	34 25	0	0	0	0	0	3	0	0	0	0	117	403
0900 - 0915	0	78	22	0	2	2	0	0	1	0	0	0	0	102	403
0915 - 0930	0	68	29	0	2	1	0	0	0	0	0	0	0	100	
0930 - 0945	0	67	18	0	3	0	0	0	1	0	0	0	0	89	
0945 - 1000	0	50	27	0	5	1	0	0	1	0	0	0	0	84	378
1000 - 1015	0	55	20	0	3	2	0	1	3	0	0	0	0	84	
1015 - 1030	0	69	20	0	5	4	0	1	0	0	0	0	0	99	
1030 - 1045	0	63	22	0	3	1	0	1	0	0	0	0	0	90	
1045 - 1100	0	66	23	0	4	0	0	0	0	0	0	0	0	93	366
1100 - 1115	0	53	18	0	4	0	0	0	1	0	0	0	0	76	
1115 - 1130	0	55	19	0	4	0	0	0	3	0	0	0	0	81	
1130 - 1145	0	68	23	0	3	0	0	0	0	0	0	0	0	94	245
1145 - 1200 1200 - 1215	0	46 61	16 29	0	2	0 2	0	0	0	0	0	0	0	64 98	315
1215 - 1230	0	64	29	0	3	0	0	2	1	0	0	0	0	91	
1230 - 1245	0	69	18	0	3	2	0	0	3	0	0	0	0	95	
1245 - 1300	0	40	19	0	0	2	0	0	2	0	0	0	0	63	347
1300 - 1315	0	58	21	0	5	2	0	0	0	0	0	0	0	86	
1315 - 1330	0	59	18	1	1	2	0	0	1	0	0	0	0	82	
1330 - 1345	0	74	10	0	1	0	0	0	0	0	0	0	0	85	
1345 - 1400	0	60	25	0	1	1	0	2	4	0	0	0	0	93	346
1400 - 1415	0	67	21	0	0	0	0	0	1	1	0	0	0	90	
1415 - 1430	0	65	18	1	4	0	0	1	1	0	0	0	0	90	
1430 - 1445	0	57	34	4	0	0	0	1	0	0	0	0	0	96	25-
1445 - 1500	0	74	26	0	1	0	0	0	1	0	0	0	0	102	378
1500 - 1515 1515 - 1530	0	82 95	15 17	1	3 1	1 3	0	0	1 0	1 0	0	0	0	104 116	
1515 - 1530 1530 - 1545	0	95 86	18	0	1	2	0	1	1	0	0	0	0	109	
1545 - 1600	0	93	32	0	4	2	0	2	0	0	0	0	0	133	462
1600 - 1615	0	85	29	2	2	1	0	0	1	0	0	0	0	120	
1615 - 1630	1	92	25	1	2	0	0	0	1	0	0	0	0	122	
1630 - 1645	0	80	31	0	0	1	0	0	0	0	0	0	0	112	
1645 - 1700	0	94	28	0	2	0	0	0	0	0	0	0	0	124	478
1700 - 1715	1	124	19	0	1	0	0	0	0	0	0	0	0	145	
1715 - 1730	0	147	32	0	2	0	0	0	0	0	0	0	0	181	
1730 - 1745	1	107	29	0	0	0	0	0	0	0	0	0	0	137	E00
1745 - 1800 1800 - 1815	0	108 85	16 21	0	2	0	0	0	0	0	0	0	0	127 108	590
1800 - 1815	0	88	22	0	0	1	0	0	1	0	0	0	0	112	
1830 - 1845	0	87	12	0	1	0	0	0	0	0	0	0	0	100	
1845 - 1900	0	63	16	0	0	0	0	0	0	0	0	0	0	79	399
1900 - 1915	0	58	11	0	1	0	0	0	0	0	0	0	0	70	
1915 - 1930	0	67	17	0	2	0	0	1	0	0	0	0	0	87	
1930 - 1945	0	49	13	0	2	0	0	0	0	0	0	0	0	64	
1945 - 2000	0	36	8	0	1	0	0	0	0	0	0	0	0	45	266
2000 - 2015	0	27	10	0	0	0	0	0	0	0	0	0	0	37	
2015 - 2030	0	31	9	0	0	0	0	0	0	0	0	0	0	40	
2030 - 2045	0	50	15	0	0	0	0	0	0	0	0	0	0	65	4
2045 - 2100 2100 - 2115	0	24 28	6	0	0	0	0	0	0	0	0	0	0	30 36	172
2100 - 2115 2115 - 2130	0	28 24	5	0	0	0	0	0	0	0	0	0	0	36 29	
2130 - 2145	0	16	3	0	0	0	0	0	1	0	0	0	0	29	
2145 - 2200	0	30	6	0	0	0	0	0	1	0	0	0	0	37	122
2200 - 2215	0	19	3	0	0	0	0	1	0	0	0	0	0	23	
2215 - 2230	0	18	2	0	1	0	0	0	0	0	0	0	0	21	
2230 - 2245	0	16	2	0	0	0	0	0	0	0	0	0	0	18	
2245 - 2300	0	11	2	0	0	0	0	0	0	0	0	0	0	13	75
2300 - 2315	0	12	1	0	0	0	0	0	0	0	0	0	0	13	
2315 - 2330	0	10	3	0	0	0	0	0	0	0	0	0	0	13	
2330 - 2345 2345 - 0000	0	7	2	0	0	0	0	0	0	0	0	0	0	9	
	0	7	1	0	0	0	0	0	0	0	0	0	0	8	43

Session Total	4	4611	1365	14	113	35		17	50	2		0	0	6211
Session Average	0.04	48.03	14.22	0.15	1.18	0.36	0.00	0.18	0.52	0.02	0.00	0.00	0.00	64.70
Session Percentage	0.06	74.24	21.98	0.23	1.82	0.56	0.00	0.27	0.81	0.03	0.00	0.00	0.00	,
														-
AM Peak Hour	-	0700 - 0800	0715 - 0815	0500 - 0600	0930 - 1030	0945 - 1045	-	0945 - 1045	0815 - 0915	-	-	-	-	0700 - 0800
AM Peak Volume	0	399	122	1	16	8	0	3	6	0	0	0	0	513
Noon Peak Hour	-	1445 - 1545	1400 - 1500	1415 - 1515	1015 - 1115	1230 - 1330	-	1345 - 1445	1200 - 1300	1315 - 1415	-	-	-	1445 - 1545
Noon Peak Volume	0	337	99	6	16	8	0	4	10	1	0	0	0	431
PM Peak Hour	1700 - 1800	1700 - 1800	1545 - 1645	1530 - 1630	1500 - 1600	1500 - 1600	-	1500 - 1600	1530 - 1630	1500 - 1600	-	-	-	1700 - 1800
PM Peak Volume	3	486	117	3	9	8	0	3	3	1	0	0	0	590

Bi-Directional Class Count || SB WB 15min

Marr Traffic
DATA COLLECTION

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

Date Tuesday, January 30, 2024 Lat/Long 34.161821°, -83.835738°

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0000 - 2400 (Weekday 24h Session) (01-30-2024)

	SB WB 15min	1	Session) (01-												
						Carrette								1Fi-	COmin
Time	1	2	3	4	5	6	ound (Movem	ent 1.2) 8	9	10	11	12	13	15min Total	60min Total
0000 - 0015	0	6	1	0	0	0	0	0	0	0	0	0	0	7	
0015 - 0030	0	5	2	0	0	0	0	0	0	0	0	0	0	7	
0030 - 0045	0	3 2	2	0	0	0	0	0	0	0	0	0	0	5	22
0045 - 0100 0100 - 0115	0	3	3	0	0	0	0	0	0	0	0	0	0	3 6	22
0115 - 0130	0	5	1	0	0	0	0	0	0	0	0	0	0	6	
0130 - 0145	0	4	2	0	0	0	0	0	0	0	0	0	0	6	
0145 - 0200	0	4	1	0	0	0	0	0	0	0	0	0	0	5	23
0200 - 0215	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
0215 - 0230	0	5	0	0	0	0	0	0	1	0	0	0	0	6	
0230 - 0245	0	3	0	0	1	0	0	0	0	0	0	0	0	4	
0245 - 0300 0300 - 0315	0	7	0	0	0	0	0	0	0	0	0	0	0	9	20
0315 - 0330	0	4	1	0	0	0	0	0	0	0	0	0	0	5	
0330 - 0345	0	3	0	0	0	0	0	0	0	0	0	0	0	3	
0345 - 0400	0	5	1	0	0	0	0	0	0	0	0	0	0	6	17
0400 - 0415	0	2	0	1	0	0	0	0	0	0	0	0	0	3	
0415 - 0430	0	6	2	0	1	0	0	0	0	0	0	0	0	9	
0430 - 0445	0	10	2	0	0	0	0	0	1	0	0	0	0	13	
0445 - 0500 0500 - 0515	0	14 12	4	0	0	0	0	0	0	0	0	0	0	19 20	44
0515 - 0530	0	26	8	0	0	0	0	0	1	0	0	0	0	35	
0530 - 0545	0	31	11	0	0	0	0	0	0	0	0	0	0	42	
0545 - 0600	0	37	12	0	0	0	0	0	1	0	0	0	0	50	147
0600 - 0615	0	60	16	0	1	0	0	0	0	0	0	0	0	77	
0615 - 0630	0	80	18	0	1	0	0	0	0	0	0	0	0	99	
0630 - 0645	0	60	14	0	3	0	0	0	0	0	0	0	0	77	27.
0645 - 0700	0	55 72	12	0	2 6	0	0	0	0	0	0	0	0	69 97	322
0700 - 0715 0715 - 0730	0	72 68	18 23	0	6 4	0	0	0	1 1	0	0	0	0	97 96	
0715 - 0730	0	117	18	0	0	0	0	0	0	0	0	0	0	135	
0745 - 0800	0	144	29	4	1	0	0	0	3	0	0	0	0	181	509
0800 - 0815	0	100	30	1	1	2	0	0	2	0	0	0	0	136	
0815 - 0830	0	91	22	0	2	2	0	0	0	0	0	0	0	117	
0830 - 0845	0	67	24	0	5	0	0	0	0	0	0	0	0	96	
0845 - 0900	0	84	18	0	1	0	0	0	2	0	0	0	0	105	454
0900 - 0915 0915 - 0930	0	61	25	0	3	0	0	0	1	0	0	0	0	90 71	
0915 - 0930	0	50 66	14 17	0	4 2	2	0	0	1 0	0	0	0	0	86	
0945 - 1000	0	60	23	0	3	2	0	0	0	0	0	0	0	88	335
1000 - 1015	0	58	19	0	4	0	0	0	0	0	0	0	0	81	333
1015 - 1030	0	47	25	0	1	1	0	0	0	0	0	0	0	74	
1030 - 1045	0	51	16	0	2	0	0	0	1	0	0	0	0	70	
1045 - 1100	0	53	11	0	1	0	0	0	1	0	0	0	0	66	291
1100 - 1115	0	72	11	0	6	0	0	0	0	0	0	0	0	89	
1115 - 1130	0	60	10	0	5	2	0	1	1	0	0	0	0	79	
1130 - 1145 1145 - 1200	0	52 49	17 20	0	3 5	1	0	0	0	0	0	0	0	73 74	315
1200 - 1215	0	47	28	0	2	0	0	1	0	0	0	0	0	78	313
1215 - 1230	0	40	24	0	1	1	0	0	1	0	0	0	0	67	
1230 - 1245	0	73	22	0	2	1	0	0	0	0	0	0	0	98	
1245 - 1300	0	69	17	0	3	3	0	0	0	0	0	0	0	92	335
1300 - 1315	0	57	22	1	2	0	0	0	1	0	0	0	0	83	
1315 - 1330	0	54	17	2	3	1	0	0	2	0	0	0	0	79	
1330 - 1345 1345 - 1400	0	62	19	0	0 2	0	0	0	2	0	0	0	0	83	323
1400 - 1415	0	55 63	20 14	0	3	0	0	0	2	0	0	0	0	78 83	323
1415 - 1430	1	71	21	1	1	0	0	1	1	0	0	0	0	97	
1430 - 1445	0	74	14	2	3	0	0	0	4	0	0	0	0	97	
1445 - 1500	0	84	23	1	2	1	0	0	0	0	0	0	0	111	388
1500 - 1515	0	92	31	2	2	1	0	0	1	0	0	0	0	129	
1515 - 1530	0	99	30	0	2	1	0	0	1	0	0	0	0	133	
1530 - 1545 1545 - 1600	1	94	24 16	0 2	0	0	0	0	0	0	0	0	0	119	499
1545 - 1600 1600 - 1615	0	99 70	16 25	1	0	0	0	0	1	0	0	0	0	118 97	433
1615 - 1630	0	89	20	0	0	1	0	0	0	0	0	0	0	110	
1630 - 1645	0	79	22	0	2	0	0	0	1	0	0	0	0	104	
1645 - 1700	0	104	19	0	0	0	0	0	0	1	0	0	0	124	435
1700 - 1715	0	63	19	0	0	0	0	0	0	0	0	0	0	82	
1715 - 1730	0	84	28	0	0	1	0	1	0	0	0	0	0	114	
1730 - 1745 1745 - 1800	0	83 84	25 28	0	3 0	0	0	0	0	0	0	0	0	111 113	420
1745 - 1800 1800 - 1815	0	69	28	0	0	0	0	1	1	0	0	0	0	99	420
1815 - 1830	0	81	21	0	2	0	0	0	1	0	0	0	0	105	
1830 - 1845	0	72	10	0	1	0	0	0	0	0	0	0	0	83	
1845 - 1900	0	52	13	0	0	0	0	0	0	0	0	0	0	65	352
1900 - 1915	0	49	10	0	1	0	0	0	0	0	0	0	0	60	
1915 - 1930	0	65	12	0	0	0	0	0	1	0	0	0	0	78	
1930 - 1945	0	51	9	0	0	0	0	0	0	0	0	0	0	60	25-
1945 - 2000 2000 - 2015	0	49	9	0	0	0	0	1	0	0	0	0	0	59 72	257
2015 - 2030	0	49	7	1	0	0	0	0	0	0	0	0	0	57	
2030 - 2045	0	49	9	0	0	0	0	0	0	0	0	0	0	53	
2045 - 2100	0	43	8	0	0	0	0	1	0	0	0	0	0	52	234
2100 - 2115	0	38	9	0	0	0	0	0	0	0	0	0	0	47	
2115 - 2130	0	32	6	0	0	0	0	0	0	0	0	0	0	38	
2130 - 2145	0	36	6	0	0	0	0	0	0	0	0	0	0	42	
2145 - 2200 2200 - 2215	0	19	4	0	0	0	0	0	0	0	0	0	0	23	150
2200 - 2215 2215 - 2230	0	12 11	2 2	0	0	0	0	0	0	0	0	0	0	14 14	
2215 - 2230	0	9	1	0	1	0	0	0	0	0	0	0	0	14	
2245 - 2300	0	16	3	0	0	0	0	0	0	0	0	0	0	19	58
2300 - 2315	0	10	2	0	0	0	0	0	0	0	0	0	0	12	-
2315 - 2330	0	7	2	0	0	0	0	0	0	0	0	0	0	9	
2330 - 2345	0	6	2	0	0	0	0	0	0	0	0	0	0	8	
2345 - 0000	0	5	2	0	0	0	0	0	0	0	0	0	0	7	36
Section Total				10											

Session Total	2	4546	1232	19	108	25		9	44	1		0	0	5986
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

Hall County, GA



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

Date Tuesday, January 30, 2024

Lat/Long 34.161821°, -83.835738°

Click here for Detailed Weather

0000 - 2400 (Weekday 24h Session) (01-30-2024) Bi-Directional 15min

						n:	Disastianal 15	:-						15 min	COmin
Time	1	2	3	4	5	6	Directional 15	min 8	9	10	11	12	13	15min Total	60min Total
0000 - 0015	0	9	4	0	0	0	0	0	0	0	0	0	0	13	
0015 - 0030	0	9	5	0	0	0	0	0	0	0	0	0	0	14	1
0030 - 0045	0	6	6	0	0	0	0	0	0	0	0	0	0	12	1
0045 - 0100	0	5	2	0	0	0	0	0	0	0	0	0	0	7	46
0100 - 0115	0	7	3	0	0	0	0	0	0	0	0	0	0	10	1
0115 - 0130 0130 - 0145	0	8 7	3 2	0	0	0	0	0	0	0	0	0	0	11 10	1
0130 - 0145	0	5	2	0	0	0	0	0	0	0	0	0	0	7	38
0200 - 0215	0	2	0	0	0	0	0	0	1	0	0	0	0	3	50
0215 - 0230	0	9	3	0	0	0	0	0	1	0	0	0	0	13	1
0230 - 0245	0	6	0	1	4	0	0	0	0	0	0	0	0	11	1
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	Ì
0315 - 0330	0	6	1	0	1	0	0	0	0	0	0	0	0	8	Ì
0330 - 0345 0345 - 0400	0	6 9	2 3	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	30
0415 - 0430	0	13	7	0	1	0	0	0	0	0	0	0	0	21	1
0430 - 0445	0	17	12	0	0	0	0	0	1	0	0	0	0	30	1
0445 - 0500	0	22	8	0	3	0	0	1	1	0	0	0	0	35	95
0500 - 0515	0	21	10	1	3	0	0	0	3	0	0	0	0	38	Ì
0515 - 0530	0	34	14	0	1	0	0	0	3	0	0	0	0	52	Ì
0530 - 0545	0	52	25	0	0	0	0	0	1	0	0	0	0	78	
0545 - 0600 0600 - 0615	0	55 105	23 27	0	0	0	0	0	0	0	0	0	0	79 133	247
0615 - 0630	0	140	32	0	5	0	0	0	0	0	0	0	0	177	l
0630 - 0645	0	130	31	0	6	1	0	0	0	0	0	0	0	168	ĺ
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	0	229	52	0	1	0	0	0	1	0	0	0	0	283	
0745 - 0800	0	230	55	5	3	0	0	1	4	0	0	0	0	298	1022
0800 - 0815	0	163 159	66 38	0	1 2	3 2	0	0	2	0	0	0	0	236 201	
0815 - 0830 0830 - 0845	0	159	38 58	0	5	0	0	0	0 2	0	0	0	0	201	l
0845 - 0900	0	158	43	0	1	0	0	0	5	0	0	0	0	207	857
0900 - 0915	0	139	47	0	5	2	0	0	2	0	0	0	0	195	
0915 - 0930	0	118	43	0	6	3	0	0	1	0	0	0	0	171	
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	0	113	39	0	7	2	0	1	3	0	0	0	0	165	1
1015 - 1030 1030 - 1045	0	116 114	45 38	0	6 5	5 1	0	1 1	0	0	0	0	0	173 160	1
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	037
1115 - 1130	0	115	29	0	9	2	0	1	4	0	0	0	0	160	1
1130 - 1145	0	120	40	0	6	1	0	0	0	0	0	0	0	167	1
1145 - 1200	0	95	36	0	7	0	0	0	0	0	0	0	0	138	630
1200 - 1215	0	108	57	0	3	2	0	2	4	0	0	0	0	176	
1215 - 1230	0	104	45	0	4	1	0	2	2	0	0	0	0	158	1
1230 - 1245	0	142	40	0	5	3	0	0	3	0	0	0	0	193	l
1245 - 1300	0	109 115	36	0	3 7	5	0	0	2	0	0	0	0	155 169	682
1300 - 1315 1315 - 1330	0	113	43 35	3	4	3	0	0	1 3	0	0	0	0	161	1
1330 - 1345	0	136	29	0	1	0	0	0	2	0	0	0	0	168	1
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	1	136	39	2	5	0	0	2	2	0	0	0	0	187	1
1430 - 1445	0	131	48	6	3	0	0	1	4	0	0	0	0	193	ĺ
1445 - 1500	0	158	49	1	3	1	0	0	1	0	0	0	0	213	766
1500 - 1515 1515 - 1530	0	174 194	46 47	3	5	2	0	0	2	1 0	0	0	0	233 249	
1515 - 1530 1530 - 1545	1	194 180	47	0	3 1	2	0	1	1	0	0	0	0	249 228	
1545 - 1600	0	192	48	2	4	2	0	2	1	0	0	0	0	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	l
1630 - 1645	0	159	53	0	2	1	0	0	1	0	0	0	0	216	l
1645 - 1700	0	198	47	0	2	0	0	0	0	1	0	0	0	248	913
1700 - 1715	1	187	38	0	1	0	0	0	0	0	0	0	0	227	
1715 - 1730 1730 - 1745	0	231 190	60 54	0	2	0	0	0	0	0	0	0	0	295 248	
1730 - 1745 1745 - 1800	1	190 192	54 44	0	2	0	0	0	1	0	0	0	0	248 240	1010
1800 - 1815	0	154	49	1	1	0	0	1	1	0	0	0	0	207	1010
1815 - 1830	0	169	43	0	2	1	0	0	2	0	0	0	0	217	l
1830 - 1845	0	159	22	0	2	0	0	0	0	0	0	0	0	183	l
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	0	132	29	0	2	0	0	1	1	0	0	0	0	165	
1930 - 1945 1945 - 2000	0	100 85	22 17	0	2	0	0	0	0	0	0	0	0	124 104	523
1945 - 2000 2000 - 2015	0	85 82	25	0	1	0	0	1	0	0	0	0	0	104	523
2015 - 2030	0	80	16	1	0	0	0	0	0	0	0	0	0	97	l
2030 - 2045	0	94	24	0	0	0	0	0	0	0	0	0	0	118	l
2045 - 2100	0	67	14	0	0	0	0	1	0	0	0	0	0	82	406
2100 - 2115	0	66	17	0	0	0	0	0	0	0	0	0	0	83	
2115 - 2130	0	56	11	0	0	0	0	0	0	0	0	0	0	67	
2130 - 2145 2145 - 2200	0	52 49	9 10	0	0	0	0	0	1	0	0	0	0	62 60	272
2200 - 2215	0	49 31	5	0	0	0	0	1	0	0	0	0	0	37	212
2215 - 2230	0	29	4	0	1	0	0	0	1	0	0	0	0	35	l
2230 - 2245	0	25	3	0	1	0	0	0	0	0	0	0	0	29	l
2245 - 2300	0	27	5	0	0	0	0	0	0	0	0	0	0	32	133
2300 - 2315	0	22	3	0	0	0	0	0	0	0	0	0	0	25	
2315 - 2330	0	17	5	0	0	0	0	0	0	0	0	0	0	22	
2330 - 2345	0	13	4 3	0	0	0	0	0	0	0	0	0	0	17	20
2345 - 0000	0	12	3	0	0	0	0	0	0	0	0	0	0	15	79
Session Total	6	9157	2597	33	221	60	0	26	94	3	0	0	0	12197	l
Session Average										0.03			0.00		l .

 Session Average
 0.06
 95.39
 27.05
 0.34
 2.30
 0.63
 0.00
 0.27
 0.98
 0.03
 0.00

 Session Percentage
 0.05
 75.08
 21.29
 0.27
 1.81
 0.49
 0.00
 0.21
 0.77
 0.02
 0.00

- 1345 - 1445 | 1345 - 1445 | 1315 - 1415 | 0 | 5 | 14 | 1

0715 - 0815 | 0715 - 0815 | 0715 - 0815 | 0915 - 1015 | 0930 - 1030 |

AM Peak Volume 0 803 222 6 26 11 0
 Noon Peak Hour
 1330 - 1430
 1445 - 1545
 1430 - 1530
 1415 - 1515
 1100 - 1200
 1230 - 1330

 Noon Peak Volume
 1
 706
 190
 12
 32
 13

 PM Peak Hour
 1700 - 1800
 1645 - 1745
 1715 - 1815
 1530 - 1630
 1500 - 1600
 1500 - 1600

 PM Peak Volume
 3
 806
 207
 6
 13
 10

Bi-Directional Class Count || Volume Summary 15min

Hall County, GA



www.marrtraffic.com

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

Date

Tuesday, January 30, 2024

Lat/Long 34.161821°, -83.835738°

Weather Fair

60min

47°F

15min

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	- 55
0215 - 0230	7	6	13	
0230 - 0245	7	4	11	
0245 - 0300	7	9	16	43
0300 - 0315	5	3	8	43
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	17	13	30	0.5
0445 - 0500	16	19	35	95
0500 - 0515	18	20	38	
0515 - 0530	17	35	52	
0530 - 0545	36	42	78	
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

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	700
1515 - 1530	116	133	249	
			249	
1530 - 1545	109	119	_	061
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	109	
2015 - 2030	40	57	97	
2030 - 2045	65	53	118	
2045 - 2100	30	52	82	406
2100 - 2115	36	47	83	
2115 - 2130	29	38	67	
2130 - 2145	20	42	62	
2145 - 2200	37	23	60	272
2200 - 2215	23	14	37	
2215 - 2230	21	14	35	
2230 - 2245	18	11	29	
2245 - 2300	13	19	32	133
2300 - 2315	13	12	25	
2315 - 2330	13	9	22	
2330 - 2345	9	8	17	
2345 - 0000	8	7	15	79
2343 - 0000	U	,	13	,,

Volume Summary 15min

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

Appendix C Growth Rate Summary

	2010-2020	Population % Change	.23%
	ш	Popula Cha	1.2
s Bureau	2020	Census	203,136
on U.S Censu	2010	Census	179,684
Growth Rate Based on U.S Census Bureau		Geographic Area	Hall County

		5.3	1.1	4	6.3	3.2	4.0	4.6%
	5 year	3.4%	2.3%	9.7%	8.3%	2.6%	5.2%	Ц
	2009		5861					
	2010	12434			5122			
	2011				5382	8450		
	2012			3390				
	2013		5822					
owth Kate	2014	16450						
GDOT Historical Growth Rate	2015				0959	10100	erage	age
GDOT	2016			3402			5 & 10 - Year Average	Weighted Average
	2017		2989				2 5	
	2018	18816			8327			
	2019			4488		11200		
	Station ID	139-0441	135-0476	139-8206	139-7382	139-0437		
	Location	Spout Springs Rd n/o Iris Dr	Thompson Mill Rd w/o Puckett Rd	Union Circle e/o Spout Springs	Ridge Rd s/o SR 347	Spout Springs Rd n/o SR 347		

Growth Rate Based on Georgia Governor's Office of Planning and Budget Annual Population Projections	yia Governor's (Office of Plann	ing and Budge	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%	
, dans 0 11011						
nall county		Average	10-Year Growt	Average 10-Year Growth Rate From 2020-2050	020-2050	
	2020	2020-2030	2030	2030-2040	2040	2040-2050
	5.	1.3%	5.1	1.3%	1.1	1.1%
		Average			1.2%	

Appendix D Synchro Reports

Synchro Reports
Existing Year (2024)

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

	₾	→	*	1	←	1	1		
Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations		414	7	Ä	^	ሻሻ	7		
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		
		1692	1560	564	1735	1728	1585		
Grp Sat Flow(s),veh/h/ln		4.2	8.6	8.5	7.3	6.5	1.0		
Q Serve(g_s), s		4.2	8.6		7.3	6.5			
Cycle Q Clear(g_c), s		4.2		12.8	1.3		1.0		
Prop In Lane		1751	1.00	1.00	1700	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/ln		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		A	A	В	A	В	В		
Approach Vol, veh/h		981			1003	576			
Approach Delay, s/veh		7.1			7.7	17.4			
Approach LOS		Α			Α	В			
Timer - Assigned Phs		2				6		8	
Phs Duration (G+Y+Rc), s		29.8				29.8		16.1	
Change Period (Y+Rc), s		6.0				6.0		6.0	
Max Green Setting (Gmax), s		69.0				69.0		19.0	
Max Q Clear Time (g_c+l1), s		10.6				14.8		8.5	
Green Ext Time (p_c), s		5.6				9.0		1.6	
		5.0				3.0		1.0	
Intersection Summary			0.7						
HCM 6th Ctrl Delay			9.7						
HCM 6th LOS			Α						
Notes									

User approved ignoring U-Turning movement.

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

		-	*	F	1	•	1	-	
Movement	EBU	EBT	EBR	WBU	WBL	WBT	NBL	NBR	
Lane Configurations		414	7		Ä	^	ሻሻ	7	
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	1.00		1.00	No	No	1.00	
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	
		1749	1585		400	1735	1728	1585	
Grp Sat Flow(s),veh/h/ln Q Serve(g_s), s		8.2	7.7		7.8	5.4	4.9	6.5	
		8.2	7.7		16.1	5.4		6.5	
Cycle Q Clear(g_c), s		0.2	1.00			5.4	4.9		
Prop In Lane		1052	840		1.00	1838	1.00 742	1.00 340	
Lane Grp Cap(c), veh/h		1853			295	0.37			
V/C Ratio(X)		0.51	0.49		0.28		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	
Uniform Delay (d), s/veh		7.1	7.0		12.3	6.5	16.4	17.0	
Incr 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	
Unsig. Movement Delay, s/veh		7.0	7.5		40.0	0.0	47.0	40.0	
LnGrp Delay(d),s/veh		7.3	7.5		12.8	6.6	17.0	19.6	
LnGrp LOS		Α	Α		В	A	В	В	
Approach Vol, veh/h		1361				764	645		
Approach Delay, s/veh		7.4				7.3	18.0		
Approach LOS		Α				Α	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+l1), 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						
•			A						
HCM 6th LOS									

User approved ignoring U-Turning movement.

Synchro Reports No-Build Year (2027)

		-	*	1	-	1	-	
Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations		414	7	Ä	^	77	7	
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	1.00	1.00	No	No	1.00	
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		4.0	1.00	1.00	0.4	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		0.5	0.6	0.7	0.2	1.4	0.2	
Initial Q Delay(d3),s/veh		0.0	0.0	0.0	0.2	0.0	0.2	
%ile BackOfQ(50%),veh/ln		1.0	2.1	0.0	1.9	2.7	0.0	
Unsig. Movement Delay, s/ver	,	1.0	۷.۱	0.9	1.9	2.1	0.4	
LnGrp Delay(d),s/veh	I	6.6	8.2	11.4	7.5	19.8	16.0	
LnGrp LOS				11. 4 B			10.0 B	
-		A 1046	A	D	A 1067	B 640	D	
Approach Vol, veh/h		1046			1067	612		
Approach LOS		7.3			8.0	19.6		
Approach LOS		Α			Α	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+l1), s		11.9				17.6		9
Green Ext Time (p_c), s		6.1				10.0		1.
Intersection Summary								
HCM 6th Ctrl Delay			10.3					
HCM 6th LOS			В					
Notes								

User approved ignoring U-Turning movement.

		-	*	F	1	-	1	1	
Movement	EBU	EBT	EBR	WBU	WBL	WBT	NBL	NBR	
Lane Configurations		414	7		Ä	^	ሻሻ	7	
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			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		Α	Α		В	Α	В	С	
Approach Vol, veh/h		1449				815	686		
Approach Delay, s/veh		7.5				7.5	20.5		
Approach LOS		Α				А	С		
Timer - Assigned Phs		2				6		8	
Phs Duration (G+Y+Rc), s		35.5				35.5		17.4	
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+l1), s		11.5				21.9		9.9	
Green Ext Time (p_c), s		11.0				7.6		1.5	
Intersection Summary									
HCM 6th Ctrl Delay			10.5						
HCM 6th LOS			В						
Notes									

User approved ignoring U-Turning movement.

Synchro Reports Build Year (2027)

Southeastern Engineering INC. 09/09/2024

		→	7	1	←	1	-			
Movement	EBU	EBT	EBR	WBL	WBT	NBL	NBR			
Lane Configurations		414	7	Ä	^	777	7			
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 Zone	<u> </u>									
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		0.04	0.04	0.04	0.04	0.20	0.20			
Ln Grp Delay, s/veh		6.7	8.4	11.8	7.6	20.3	16.3			
Ln Grp LOS		Α	Α	В	Α.	20.5 C	В			
Approach Vol, veh/h		1051	Λ	D	1069	639	D			
Approach Delay, s/veh		7.5			8.2	19.9				
Approach LOS		7.5 A			Α	19.9 B				
• •										
Timer:		1	2	3	4	5	6	7	8	
Assigned Phs			2	8			6			
Case No			7.0	9.0			6.0			
Phs Duration (G+Y+Rc), s			34.4	17.9			34.4			
Change Period (Y+Rc), s			6.0	6.0			6.0			
Max Green (Gmax), s			69.0	19.0			69.0			
Max Allow Headway (MAH), s			4.5	3.7			5.3			
Max Q Clear (g_c+l1), s			12.3	10.3			18.3			
Green Ext Time (g_e), s			6.1	1.6			10.1			
Prob of Phs Call (p_c)			1.00	1.00			1.00			
Prob of Max Out (p_x)			0.00	0.13			0.01			
Left-Turn Movement Data										
Assigned Mvmt			5	3			1			
Mvmt Sat Flow, veh/h			0	3456			528			
TI IM IDI										
Through Movement Data										
			2	8			6			
Assigned Mvmt Mvmt Sat Flow, veh/h			2 3474	8			6 3561			
Assigned Mvmt Mvmt Sat Flow, veh/h										
Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data			3474	0						
Assigned Mvmt Mvmt Sat Flow, veh/h							3561			
Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h			3474 12	18			3561 16			
Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h Left Lane Group Data		0	12 1560	18 1585	0	0	3561 16 0	0	0	
Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h		0	3474 12	18	0	0	3561 16	0	0	

AM Build									09/09/2024
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	0.0	1728	0.0	0.0	528	0.0	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		28.4	0.0	0.0	
	0.0	0.0		0.0	0.0	23.4	0.0	0.0	
Perm LT Serve Time (g_u), s	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	
Lane Grp Cap (c), veh/h	0	0	788	0	0	374	0	0	
V/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	0	1255	0	0	784	0	0	
Upstream Filter (I)	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	0.0	18.8	0.0	0.0	11.1	0.0	0.0	
Incr Delay (d2), s/veh	0.0	0.0	1.5	0.0	0.0	0.7	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	0.0	20.3	0.0	0.0	11.8	0.0	0.0	
1st-Term Q (Q1), veh/ln	0.0	0.0	2.7	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	0.1	0.0	0.0	
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	0.0	2.9	0.0	0.0	1.0	0.0	0.0	
%ile Storage Ratio (RQ%)	0.00	0.00	0.29	0.00	0.00	0.10	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	
Middle Lane Group Data									
Assigned Mvmt	0	2	8	0	0	6	0	0	
Lane Assignment		Т				Т			
Lanes 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	
Lane Grp Cap (c), veh/h	0	1837	0	0	0	1882	0	0	
V/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	
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	6.6	0.0	0.0	0.0	7.4	0.0	0.0	
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.0	0.2	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	6.7	0.0	0.0	0.0	7.6	0.0	0.0	
1st-Term Q (Q1), veh/ln	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	
				2.0	2.0	7	3.0	3.0	

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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		R	R						
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	
Cycle Q Clear Time (g_c), s	0.0	10.3	1.3	0.0	0.0	0.0	0.0	0.0	
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/ln	0.0	2.1	0.4	0.0	0.0	0.0	0.0	0.0	
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
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	0.4	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		В							

Notes

User approved ignoring U-Turning movement.

Intersection						
Intersection Int Delay, s/veh	0.9					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	14		^	7	7	^
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
N. A	14:			_		
	Minor1		Major1		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	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 1 Maneuver		-	_	_	-	_
Stage 1	541					
Stage 2	528	_	_		_	
Olaye Z	520		-			
Approach	WB		NB		SB	
HCM Control Delay, s	21.1		0		0.1	
HCM LOS	С					
Minor Long (Maior M	-4	NDT	MDDV	VDI 4	CDI	CDT
Minor Lane/Major Mvn	IIL	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-	-	276	960	-
				(1 100	0.007	-
HCM Lane V/C Ratio		-		0.189		
HCM Lane V/C Ratio HCM Control Delay (s)	-	-	21.1	8.8	-
HCM Lane V/C Ratio		- - -				-

		-	*	F	1	←	1	1	
Movement	EBU	EBT	EBR	WBU	WBL	WBT	NBL	NBR	
Lane Configurations		414	7		Ä	^	ሻሻ	7	
Traffic Volume (veh/h)	2	910	410	1	82	654	398	232	
Future Volume (veh/h)	2	910	410	1	82	654	398	232	
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 Zone	Э								
Adj Sat Flow, veh/h/ln		1841	1870		1870	1826	1870	1870	
Adj Flow Rate, veh/h		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	_	
Cap, veh/h		1971	893		271	1955	748	343	
HCM Platoon Ratio		1.00	1.00		1.00	1.00	1.00	1.00	
Prop Arrive On Green		0.56	0.56		0.56	0.56	0.22	0.22	
Unsig. Movement Delay		0.00	0.00		0.00	0.00	0.22	0.22	
Ln Grp Delay, s/veh		7.5	7.7		14.5	6.7	19.9	23.8	
Ln Grp LOS		A	A		В	A	В	C	
Approach Vol, veh/h		1467	, ,			818	700		
Approach Delay, s/veh		7.6				7.6	21.4		
Approach LOS		Α				A	C		
• •		,,						_	
Timer:		1	2	3	4	5	6	7	8
		-							
Assigned Phs			2	8			6		
Assigned Phs Case No			2 7.0	8 9.0			6.0		
Assigned Phs Case No Phs Duration (G+Y+Rc), s			7.0 36.7	8 9.0 17.8			6.0 36.7		
Assigned Phs Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s			2 7.0 36.7 6.0	8 9.0 17.8 6.0			6.0 36.7 6.0		
Assigned Phs Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s			2 7.0 36.7 6.0 71.0	8 9.0 17.8 6.0 17.0			6.0 36.7 6.0 71.0		
Assigned Phs Case No Phs Duration (G+Y+Rc), s Change Period (Y+Rc), s Max Green (Gmax), s Max Allow Headway (MAH), s			2 7.0 36.7 6.0 71.0 4.6	8 9.0 17.8 6.0 17.0 3.8			6.0 36.7 6.0 71.0 5.6		
Assigned Phs 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			2 7.0 36.7 6.0 71.0 4.6 11.7	8 9.0 17.8 6.0 17.0 3.8 10.3			6.0 36.7 6.0 71.0 5.6 23.0		
Assigned Phs 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 Green Ext Time (g_e), s			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5			6.0 36.7 6.0 71.0 5.6 23.0 7.8		
Assigned Phs 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 Green Ext Time (g_e), s Prob of Phs Call (p_c)			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00		
Assigned Phs 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 Green Ext Time (g_e), s			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5			6.0 36.7 6.0 71.0 5.6 23.0 7.8		
Assigned Phs 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 Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Max Out (p_x)			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00		
Assigned Phs 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 Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Max Out (p_x) Left-Turn Movement Data			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00		
Assigned Phs 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 Green Ext Time (g_e), s Prob of Phs Call (p_c) Prob of Max Out (p_x)			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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 Assigned Mvmt			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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 Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01 5 0	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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 Assigned Mvmt Mvmt Sat Flow, veh/h			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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 Assigned Mvmt Mvmt Sat Flow, veh/h Right-Turn Movement Data Assigned Mvmt Mvmt Sat Flow, veh/h			2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01 5 0	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35			6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00		
Assigned Phs 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 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 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		0	2 7.0 36.7 6.0 71.0 4.6 11.7 11.2 1.00 0.01 5 0	8 9.0 17.8 6.0 17.0 3.8 10.3 1.5 1.00 0.35	0	0	6.0 36.7 6.0 71.0 5.6 23.0 7.8 1.00 0.00	0	0

PM Build									09/09/2024
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	0.0	1728	0.0	0.0	361	0.0	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_u), 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	
• • • • • • • • • • • • • • • • • • • •	0.00	0.00	748	0.00	0.00	271	0.00	0.00	
Lane Grp Cap (c), veh/h			0.59						
V/C Ratio (X)	0.00	0.00	1077	0.00	0.00	0.34	0.00	0.00	
Avail Cap (c_a), veh/h Upstream Filter (I)	0 00	0.00	1.00	0.00	0.00	538 1.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.00	0.00	19.2	0.00	0.00	13.7	0.0	0.00	
Incr Delay (d2), s/veh	0.0	0.0	0.7	0.0	0.0	0.7	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	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	
3rd-Term Q (Q2), 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	0.0	2.2	0.00	0.00	0.7	0.00	0.0	
%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	0.0	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	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	
. ,	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	
Lane Assignment	U	T	0	U	U	T	U	U	
Lanes 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	
Lane Grp Cap (c), veh/h	0.0	1971	0.0	0.0	0.0	1955	0.0	0.0	
V/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	0.00	4553	0.00	0.00	0.00	4516	0.00	0.00	
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	7.3	0.0	0.0	0.0	6.6	0.0	0.0	
Incr Delay (d2), s/veh	0.0	0.2	0.0	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	7.5	0.0	0.0	0.0	6.7	0.0	0.0	
1st-Term Q (Q1), veh/ln	0.0	2.2	0.0	0.0	0.0	1.4	0.0	0.0	
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
	0.0	J. 1	3.0	3.0	5.0	3.0	3.0	3.0	

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PIVI BUIIU									09/09/2024
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		R	R						
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	
Cycle Q Clear Time (g_c), s	0.0	9.6	8.3	0.0	0.0	0.0	0.0	0.0	
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/ln	0.0	1.9	2.6	0.0	0.0	0.0	0.0	0.0	
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	
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	2.1	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 Initial 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	
Intersection Summary									
HCM 6th Ctrl Delay		10.8							
HCM 6th LOS		В							
N1 /									

User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	0.7					
		WIDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	40	↑	7	- ነ	†
Traffic Vol, veh/h	15	12	618	26	19	473
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
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
N.A. '. /N.A.'	N. 4: 4				4 : 0	
	Minor1		//ajor1		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 1 Maneuver	184	-	_	_	-	_
Stage 1	499					
Stage 2	553	-			_	_
Staye Z	303	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	21.4		0		0.4	
HCM LOS	С					
		NET	NDDIA	(D) 4	001	007
Minor Lane/Major Mvn	nt	NBT	NBKV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-		885	-
HCM Lane V/C Ratio		-	-		0.024	-
HCM Control Delay (s))	-	-		9.2	-
HCM Lane LOS		-	-	С	Α	-
HCM 95th %tile Q(veh	1)	-	-	0.4	0.1	-

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

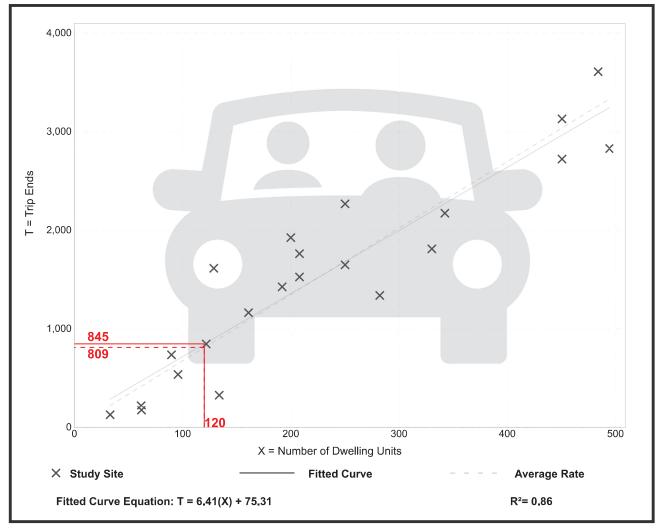
Number of Studies: 22 Avg. Num. of Dwelling Units: 229

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

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Multifamily Housing (Low-Rise)

Not Close to Rail Transit (220)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

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

Setting/Location: General Urban/Suburban

Number of Studies: 49

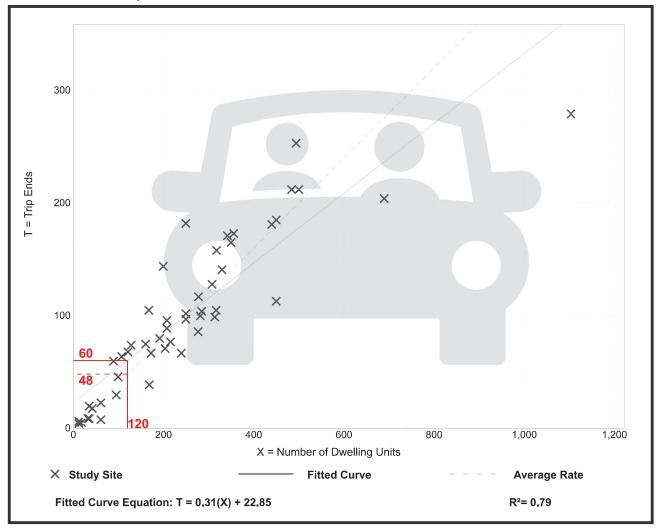
Avg. Num. of Dwelling Units: 249

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

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Multifamily Housing (Low-Rise)

Not Close to Rail Transit (220)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

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

Setting/Location: General Urban/Suburban

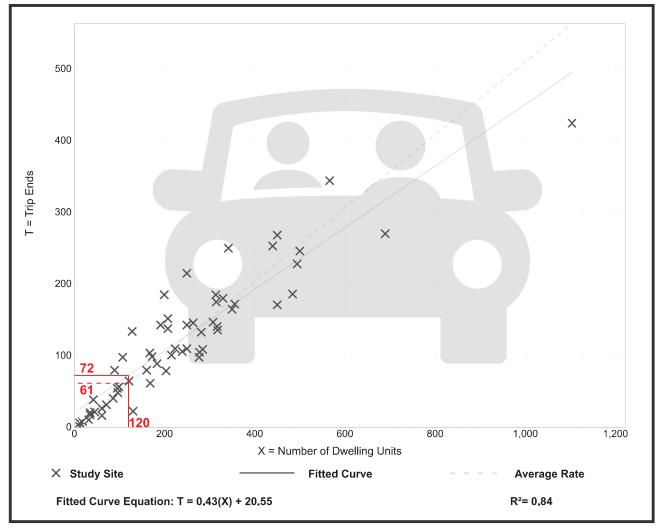
Number of Studies: 59 Avg. Num. of Dwelling Units: 241

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



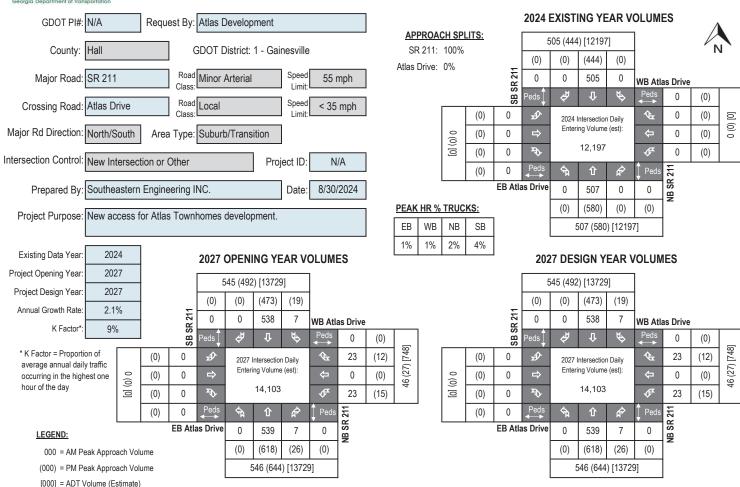
Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

Appendix F ICE Tool Report

GDOT INTERSECTION CONTROL EVALUATION (ICE) TOOL

ICE Version 2.3| Revised 11/13/2023



Introduction: In 2005, SAFETEA-LU established the Highway Safety Improvement Program (HSIP) and mandated that each state prepare a Strategic Highway Safety Plan (SHSP) to prioritize safety funding investments. Intersections quickly became a common component of most states' SHSP emphasis areas and HSIP project lists, including Georgia's SHSP. Intersection Control Evaluation (ICE) policies and procedures represent a traceable and transparent procedure to streamline the evaluation of intersection control alternatives, and further leverage safety advancements for intersection improvements beyond just the safety program. Approximately one-third of all traffic fatalities and roughly seventy five percent of all traffic crashes in Georgia occur at or adjacent to intersections. Accordingly, the Georgia SHSP includes an emphasis on enhancing intersection safety to advance the Toward Zero Deaths vision embraced by the Georgia Governor's Office of Highway Safety (GOHS). This ICE tool was developed to support the ICE policy, developed and adopted to help ensure that intersection investments across the entire Georgia highway system are selected, prioritized and implemented with defensible benefits for safety towards those ends.

Tool Goal: The goal of this ICE tool is to provide a simplified and consistent way of importing traffic, safety, cost, environmental impact and stakeholder posture data to assess and quantify intersection control improvement benefits. The tool supports the ICE policy and procedures to provide traceability, transparency, consistency and accountability when identifying and selecting an intersection control solution that both meets project purpose and reflects overall best value in terms of specific performance-based criteria.

Requirements: An ICE is required for any intersection improvement (e.g. new or modified intersection, widening/reconstruction or corridor project, or work accomplished through a driveway or encroachment permit that affects an intersection) where: 1) the intersection includes at least one roadway designated as a State Route (State Highway System) or as part of the National Highway System; or 2) the intersection will be designed or constructed using State or Federal funding. In certain circumstances where an ICE would otherwise be required, the requirement may be waived based on appropriate evidence presented with a written request. (See the "Waiver" tab to review criteria that may make a project waiver eligible and for instructions to submit a waiver request to the Department). An ICE is not required when the proposed work does not include any changes to the intersection design, involves only routine traffic signal timing and equipment maintenance, or for driveway permits where the driveway is not a new leg to an already existing intersection on either 1) a divided, multi-lane highway with a closed median and only right-in/right-out access or 2) an undivided roadway where the development is not required to construct left and/or right turn lanes (as per the Driveway Manual and District Traffic Engineer).

Two-Stage A complete ICE process consists of two (2) distinct stages, and it is expected that the respective level of effort for completing both stages of ICE will correspond to the Process: magnitude and complexity of the intersection. Prior to starting an ICE, the District Traffic Engineer and/or State Traffic Engineer should be consulted for advice on an appropriate level of effort. The Stage 1 and Stage 2 ICE forms are designed minimize required data inputs using drop-down menu choices and limiting text entry. All fields shaded grey include drop down menu choices and all fields shaded blue require data entry. All other cells in the worksheet are locked.

Stage 1: Stage 1 should be conducted early in the project development process and is intended to inform which alternatives are worthy of further evaluation in Stage 2. Stage 1 serves Screening as a screening effort meant to eliminate non-competitive options and identify which alternatives merit further considerations based on their practical feasibility. Users should Decision use good engineering judgement in responding to the seven policy questions by selecting "Yes" or "No" in the drop-down boxes. Alternatives should not be summarily Record eliminated without due consideration, and reasons for eliminating or advancing an alternative should be documented in the "Screening Decision Justification" column

Stage 2: Stage 2 involves a more detailed and familiar evaluation of the alternatives identified in Stage 1 in order to support the selection of a preferred alternative that may be advanced Alternative to detailed design. Stage 2 data entry may require the use of external analysis tools to determine costs, operations and/or safety data that, combined with environmental and Selection stakeholder posture data, form the basis of the ICE evaluation. A separate "CostEst" worksheet tab helps users develop pre-planning-level cost estimates for each Stage 2 Decision alternative evaluated, and a separate Users Guide has been prepared to give guidance on Stage 1 and Stage 2 data entry. Once all data is entered, each alternative is scored Record and ranked, with the results reported at the bottom of the Stage 2 worksheet to inform on the best of the intersection controls evaluated for project recommendation

Documentation: A complete ICE document consists of the combination of the outputs from either a completed and signed waiver form or both Stage 2 worksheets (along with supporting costing and/or environmental documentation), to be included in the approved project Concept Report (or equivalent) or as a stand-alone document.



GDOT ICE STAGE 1: SCREENING DECISION RECORD

ICE Version 2.3| Revised 11/13/2023

GDOT	PI#	N/A	Note: U	p to 5 alte	rnatives					
Projec	t Location:	SR 211 @ Atlas Drive		selected a	ind		/2	/c0	0 /	
Existir	ng Control:	New Intersection or Other	evaluate	ed; Use thi to screen	s ICE 5 or	Jug seg	S ance it	Jerilendie	ST ATTIC S	· Sign
<u> </u>	red by:	Southeastern Engineering INC.	fewer al	ternatives	to a	Tue do	idinia /	COUNTRY ST	No Hay Sto.	Not cuto, it. Statio
Date:		8/30/2024	evaluate	in Stage	2 prof	WILL TO SELL SE	S. Salet	Sugar Diese	aliadill' sible o	Store the man selection
cor	ntrol type to id valuated in the justificati	No" to each policy question for each lentify which alternatives should be e Stage 2 Decision Record; enter on in the rightmost column ernative (see "Intersections" tab for	, &	dending de	Sold Sold Sold Sold Sold Sold Sold Sold	LE HOLD CO.	Month of State of Sta	Yes	State of the state	A CHARLES OF THE CHAR
1		on of intersection/interchange type)	1,000	Star V. Joseph	12 3. O. M.	V DO	8 6 6 8	1840 O. O.	38 10	Screening Decision Justification:
	Conventiona	I (Minor Stop)	Yes	No	No	Yes	Yes	Yes	Yes	Feasible solution to evaluate.
	Conventiona	I (All-Way Stop)	No	Yes	Yes	No	No	No	No	Warrants not satisfied
	Mini Rounda	bout	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 Ro	undabout	No	Yes	No	Yes	Yes	No	No	SR 211 is a single-lane facility
ersec	RCUT (stop	control)	Yes	No	Yes	Yes	No	No	No	No feasible u-turn location
Unsignalized Intersections	RIRO w/dow	n stream U-Turn	Yes	No	Yes	Yes	No	No	No	No feasible u-turn location
naliz	High-T (unsi	gnalized)	Yes	No	Yes	No	No	No	No	Traffic pattern and turning volumes are not preferable
Unsig	Offset-T Inte	rsections	No	No	No	No	No	No	No	Not feasible to offset. Intersection configuration is 3-legged.
	Diamond Inte	erch (Stop Control)	No	No	No	No	No	No	No	Not an interchange, volumes do not warrant grade separation.
	Diamond Inte	erch (RAB Control)	No	No	No	No	No	No	No	Not an interchange, volumes do not warrant grade separation.
		ane on SR 211 ane on SR 211	Yes	No	No	Yes	Yes	Yes	No	Turn lanes included in Conventional (Minor Stop)
	Other unsign	nalized (provide description):	No	No	No	No	No	No	No	N/A
	Traffic Signa	I	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
	Median U-Τι	ırn (Indirect Left)	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
	RCUT (signa	alized)	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
S	Displaced Le	eft 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.
Signalized Intersections	Quadrant Ro	padway	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
ignal	Diamond Inte	erch (Signal Control)	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
",	Diverging Dia	amond	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
	Single Point	•	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
	No LT Lane Ir No RT Lane I	•	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
	Other Signal	ized (provide description):	No	No	No	No	No	No	No	Traffic signal warrants not satisfied.
		= Intersection type selected fo		م امانحه		in Ctorio	0.44	-4: 0-	1 4:	Danisian Barand



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 Intersection Control: New Intersection or Other

Traffic and Operations Data: 1,2

Intersection meets signal/AWS warrants?	No	ne
Traffic Analysis Type:	Intersecti	on Delay
Existing Major Street Avg Daily Traffic (ADT):	12,	197
Existing Minor Street Avg Daily Traffic (ADT):	()
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

	Cras	h Data	(Requir	ed):3			
	Crash Data: Enter most		Cra	ash Seve	rity		Years:
	recent 5 years of crash data	K*	A*	B*	C*	0	5
_	Angle	0	0	0	0	0	#DIV/0!
Crash Type	Head-On	0	0	0	0	0	#DIV/0!
sh 7	Rear End	0	0	0	0	0	#DIV/0!
Cra	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

Justification for Waiver (Required):	Only one feasible alternative was identified in Stage 1. The minor-s peak hours. Atlas Drive will be two lanes, one entry and one exit. The left-turn and right-turn auxiliary lane on SR 211, and they are included the control of the	ne intersection meets the thre	' '
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)		

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)

Intersection						
Intersection Int Delay, s/veh	0.9					
3 1						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	A.		^	7	7	^
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
N.A /N.A.	N. C			_		
	Minor1		Major1		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	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 1 Maneuver	192	-	_	_	-	_
Stage 1	541					
Stage 2	528	_	_		_	
Olaye Z	520		-			
Approach	WB		NB		SB	
HCM Control Delay, s	21.1		0		0.1	
HCM LOS	С					
Minor Long /Mais a M	-4	NDT	MDDV	VDI 4	CDI	CDT
Minor Lane/Major Mvn	nt	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-	-	276	960	-
				α	0.007	-
HCM Lane V/C Ratio		-		0.189		
HCM Lane V/C Ratio HCM Control Delay (s)	-	-	21.1	8.8	-
HCM Lane V/C Ratio		- - -				-

Intersection						
Int Delay, s/veh	0.7					
		WED	NDT	NDD	ODI	OPT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	¥	40	↑	7	\	†
Traffic Vol, veh/h	15	12	618	26	19	473
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
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
N.A. '. (N.A.	N. 4.					
	Minor1		//ajor1		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-1 Maneuver	184	-	_	_	-	_
Stage 1	499					
Stage 2	553	-	_		_	
Staye Z	JUJ	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	21.4		0		0.4	
HCM LOS	С					
		NET	NDDIA	VDI 4	001	007
Minor Lane/Major Mvr	nt	NBT	NBKV	VBLn1	SBL	SBT
Capacity (veh/h)		-	-	0	885	-
HCM Lane V/C Ratio		-	-		0.024	-
HCM Control Delay (s)	-	-		9.2	-
HCM Lane LOS		-	-	С	Α	-
HCM 95th %tile Q(veh)	-	-	0.4	0.1	-