

TRAFFIC IMPACT STUDY FOR

SOMERSET AT SARDIS CREEK RESIDENTIAL DEVELOPMENT

DATE:

March 12, 2024

LOCATION:

Hall County, Georgia

PREPARED FOR:

One Alliance Center

PREPARED BY:

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Executive Summary

A new residential development is proposed for construction along Antioch Campground Road in Hall County, Georgia. The proposed development will consist of 115 senior adult (55+) homes and will utilize one (1) full-access driveway and one (1) right-in/right out driveway along Antioch Campground Road. The development has a projected build out date of 2026.

When complete, the development is expected to generate a total of 668 new daily trips, 43 trips during the AM peak hour (14 entering and 29 exiting), and 49 during the PM peak hour (30 entering and 19 exiting).

Traffic operations at the intersection of Antioch Campground Road and Sardis Road are satisfactory in Existing conditions. Traffic volumes are expected to worsen slightly in the No-Build scenario due to the anticipated background growth in the study area, but the intersection will still continue to operate adequately.

The addition of project traffic is expected to increase the delay at the intersection slightly, however it is not expected to operate below a Level of Service (LOS) C. The proposed driveways are also expected to operate at a satisfactory LOS and have little impact on traffic operations along Antioch Campground Road.

Turn lanes are not warranted at either driveway due to the low traffic volume along Antioch Campground Road. Both driveways also meet Hall County's sight distance requirements.

Based on the analysis prepared for the proposed development, improvements at the existing study intersection are not required to mitigate the impact of the proposed development.

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A. Introduction

A new residential development is proposed for construction along Antioch Campground Road in Hall County, Georgia. The proposed development will consist of 115 senior adult (55+) homes. The development will utilize one (1) full-access driveway and one (1) right-in/right out driveway along Antioch Campground Road.

The traffic analyses in this report assume a single phase of construction. The purpose of this report is to identify the traffic expected to be generated by new vehicular trips when the development is complete. This study includes analysis of 2023 Existing and 2026 Future conditions, including No-Build and Build scenarios, at the following intersections:

1. Antioch Campground Road at Sardis Road
2. Antioch Campground Road at Site Driveway 1
3. Antioch Campground Road at Site Driveway 2

The report summarizes the analysis of existing, background and projected traffic at the study locations, analysis of traffic impacts including delays and Levels of Service (LOS), and conclusions and recommendations from the analysis.

Figure 1 depicts the study area (vicinity map) in Hall County, Georgia. The study intersections listed above are depicted in Figure 2. A copy of the development concept plan is included in Appendix A.

Figure 1: Vicinity Map

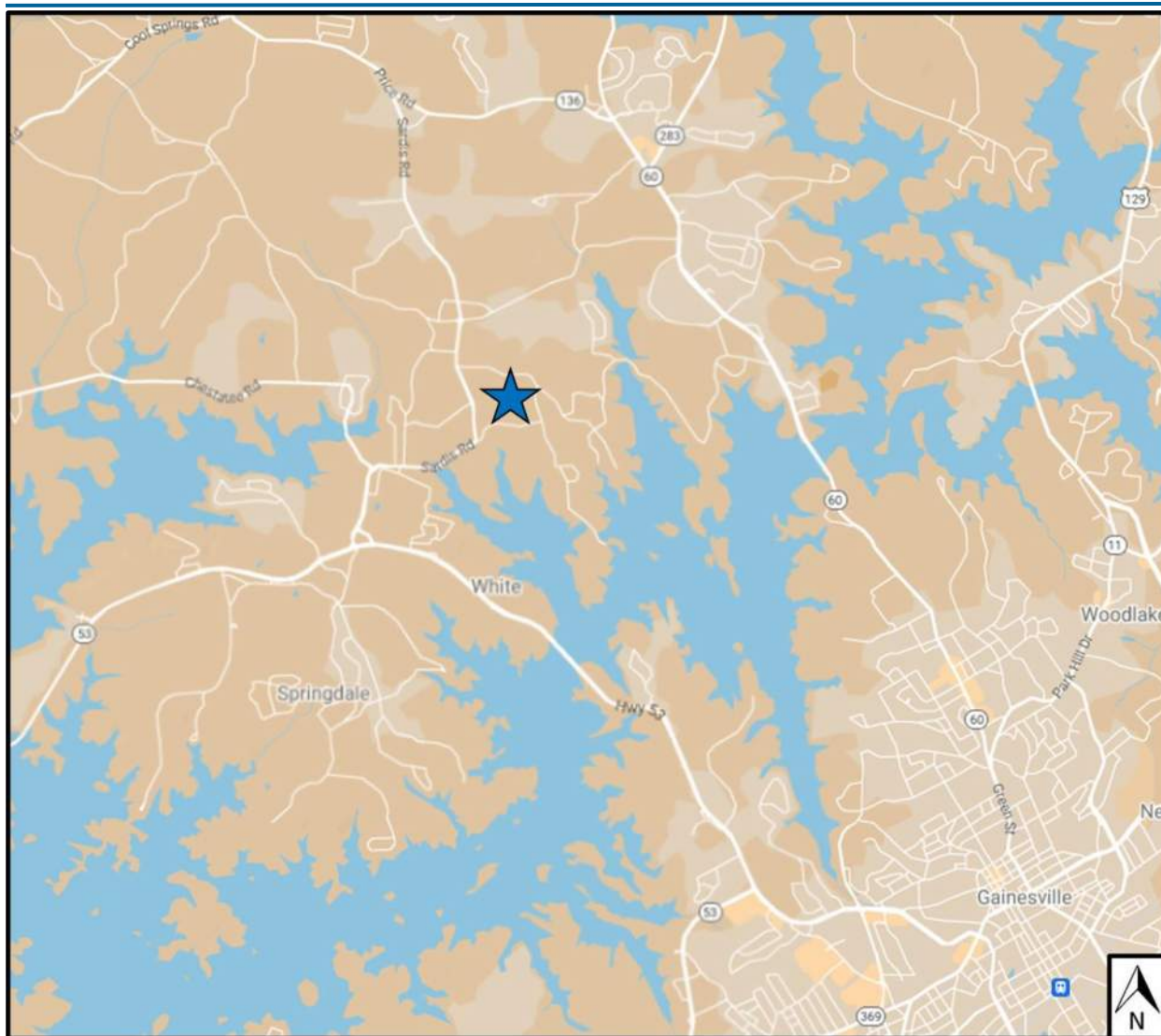
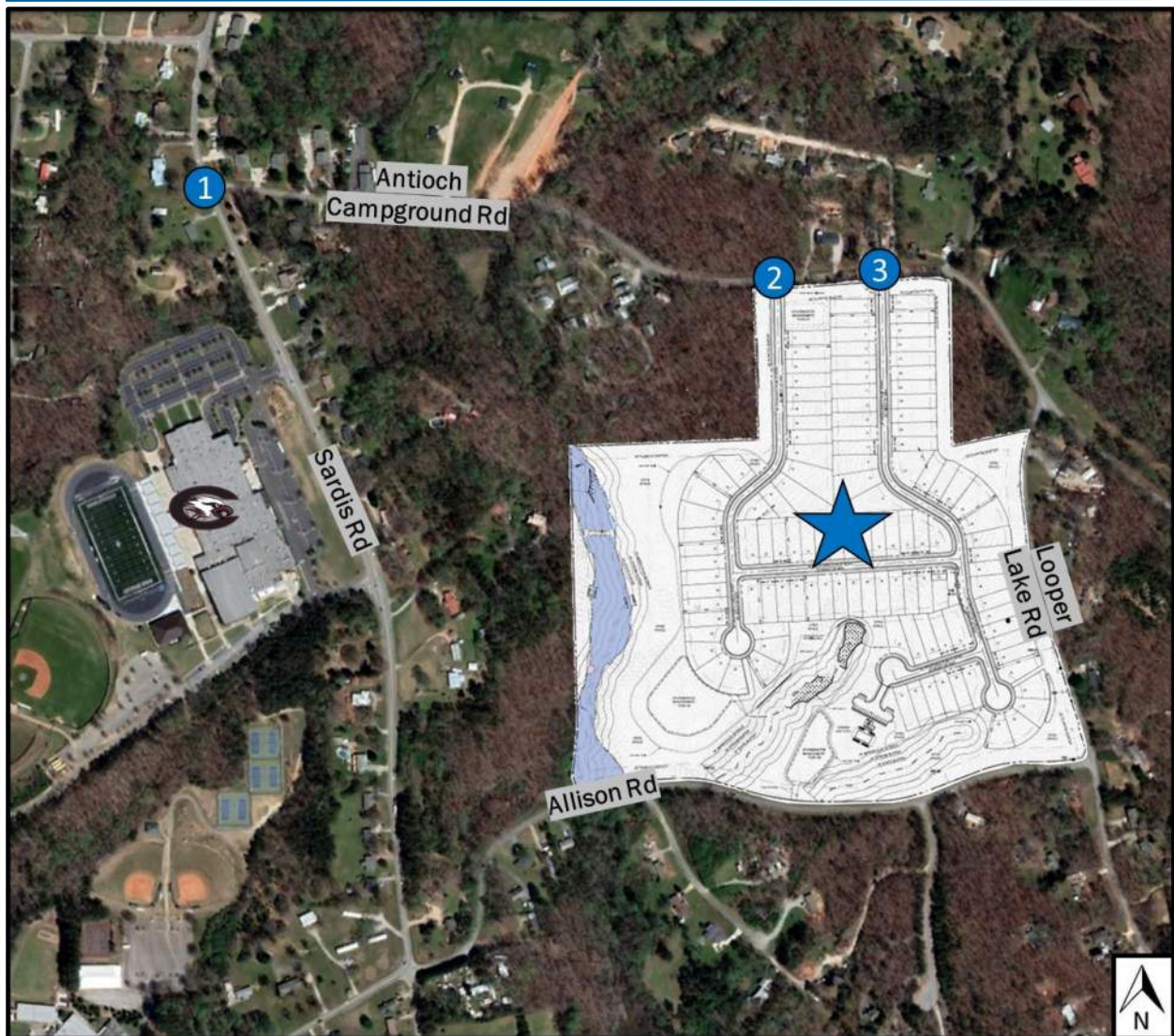


Figure 2: Site Location Aerial



1. Antioch Campground Road at Sardis Road
2. Antioch Campground Road at Site Driveway 1
3. Antioch Campground Road at Site Driveway 2

B. Existing Conditions

B.1. Transportation Facilities

Sardis Road is a two-lane undivided roadway with a north/south orientation that runs south towards SR 53/Dawsonville Highway and north towards SR 136/Price Road. Sardis Road has a posted speed limit of 35 miles per hour (MPH) near the project site. A school zone lowers the speed limit to 30 MPH approximately 230 feet south of its intersection with Antioch Campground Road. The school zone extends approximately 1,700 feet south. Land uses along Sardis Road in the study area are primarily residential, recreational, and institutional in the area.

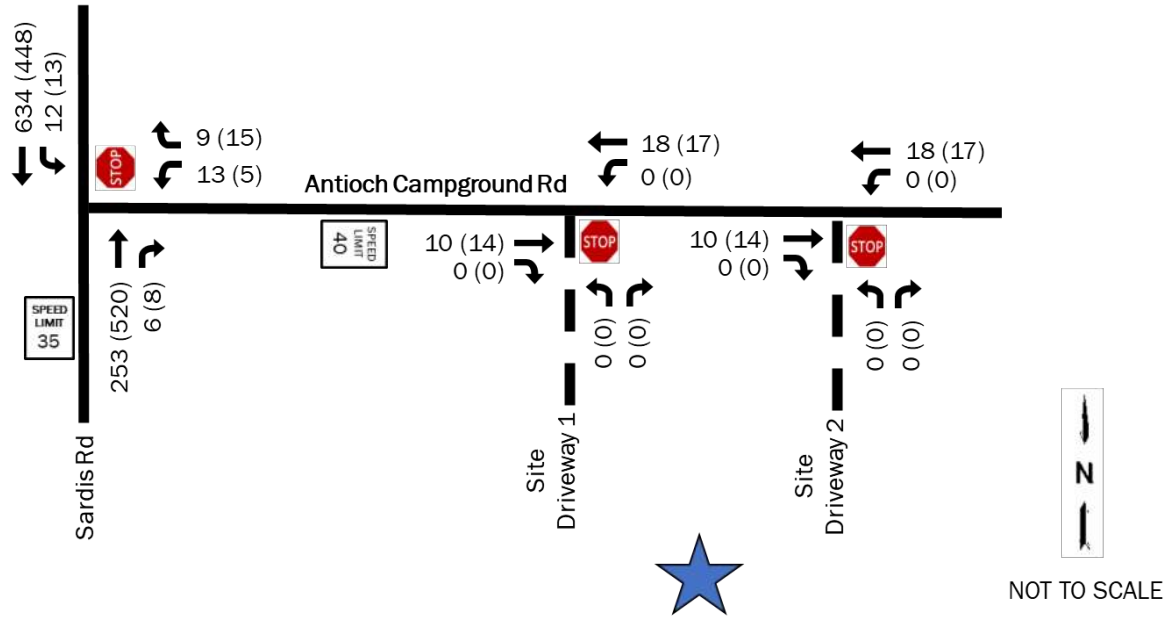
Antioch Campground Road is a two-lane undivided roadway that runs east from its intersections with Sardis Road approximately two miles east before its termination. Antioch Campground Road has no posted speed limit, but the Hall County Municipal Code states that the road is zoned for 40 miles per hour between Sardis Road and East Lake Drive. Land uses along its length are primarily residential and recreational.

B.2. Traffic Counts

Weekday AM and PM peak period turning movement counts were collected at the existing study intersection on Tuesday, August 8, 2023. Average daily traffic counts were also taken on Antioch Campground Road near the proposed site driveway. The average daily weekday traffic along Sardis Road is approximately 360 vehicles per day. Counts were collected while schools were in session and are included in Appendix B.

Figure 3: 2023 Existing Traffic Volumes

##(##) → AM (PM) Peak Hour Traffic Volume
 - - - Proposed Driveway



NOT TO SCALE

C. Future Conditions

C.1. Background Growth

The project is expected to be built-out in 2026. An analysis of historical traffic counts collected by the Georgia Department of Transportation (GDOT) within the study area suggests a growth rate of 0.3% while US census data suggests a growth rate of 1.3%. To account for possible future development in the area, a growth rate of 2% was applied to the traffic counts over three years to establish the future (No-Build) volumes. The expected No-Build volumes are depicted in Figure 4. The growth rate development worksheet is included in Appendix B.

C.2. Project Trip Generation

Table 1 summarizes the project trip generation calculated using the Institute of Transportation Engineers' (ITE) Trip Generation Manual, 11th Edition, 2021. The new development consists of 115 Senior Adult (55+) homes.

Table 1: Trip Generation

LAND USE	PERIOD	TOTAL	IN	OUT
Senior Adult Housing – Single Family, LUC 251 (115 Dwelling Units)	Daily	668	334	334
	AM Peak Hour	43	14	29
	PM Peak Hour	49	30	19

The development will generate a total of 43 trips (14 entering and 29 exiting) during the AM peak hour, and a total of 49 trips (30 entering and 19 exiting) during the PM peak hour.

C.3. Trip Distribution and Assignment

The assignment and directional distribution of new project trips was based on the existing traffic patterns observed in the overall study area. It is expected that approximately 40% of the expected site traffic will travel to/from the north along Sardis Road, approximately 40% will travel to/from the south along Sardis Road, and the remaining 20% will travel to/from the east along Antioch Campground Road. The trip distribution is shown in Figure 5. The project trips generated from the development utilizing the trip distribution are depicted in Figure 6. The No-Build plus project trips (Build volumes) are depicted in Figure 7.

Figure 4: 2026 No-Build Traffic Volumes

##(##) → AM (PM) Peak Hour Traffic Volume
- - - Proposed Driveway

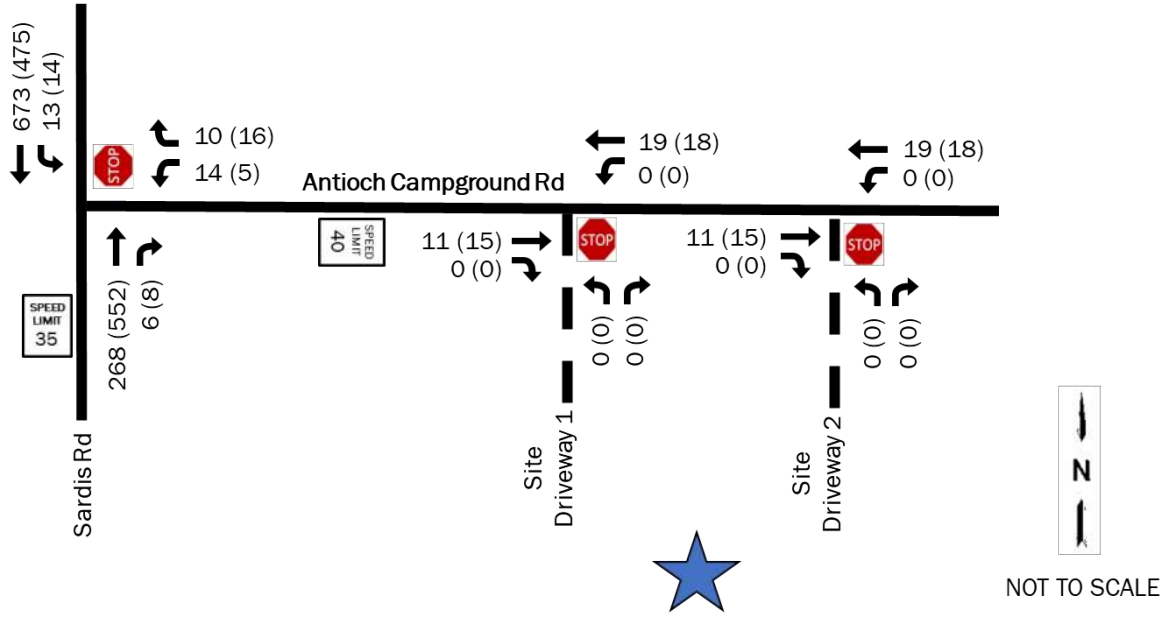


Figure 5: Project Trip Distribution

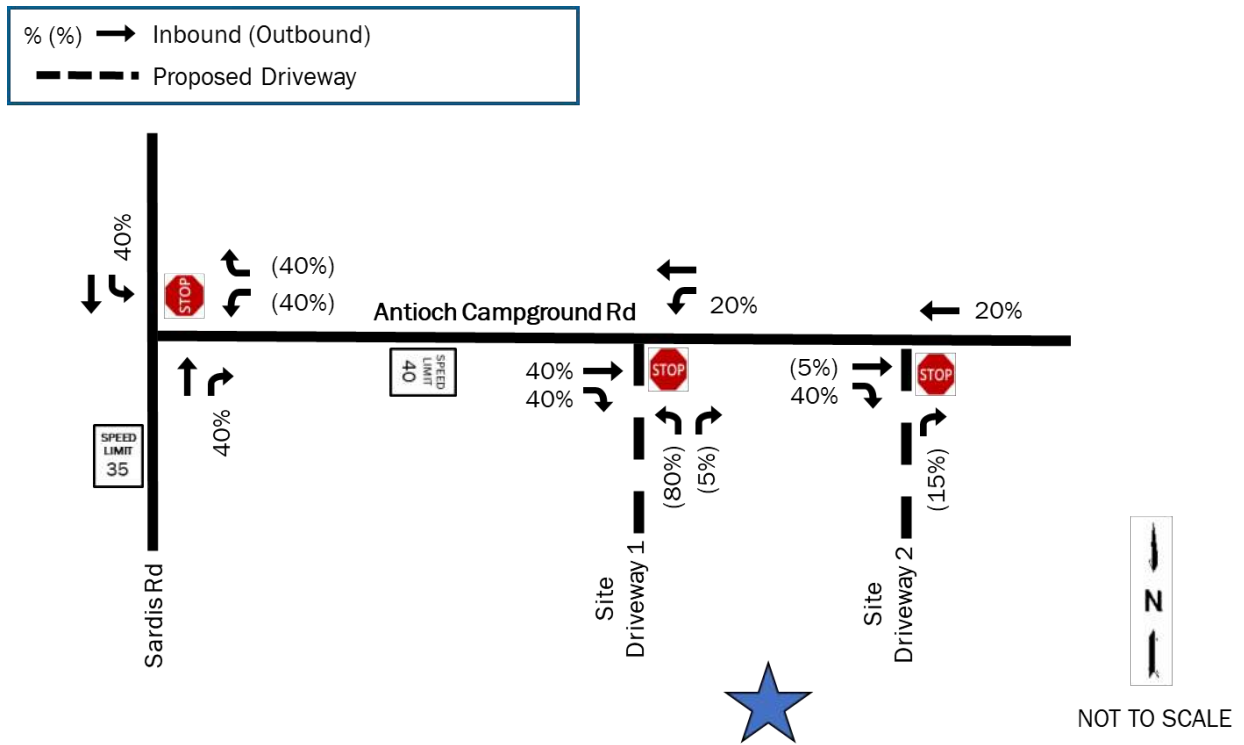


Figure 6: Project Development Trips

##(##) → AM (PM) Peak Hour Traffic Volume
 - - - Proposed Driveway

Trip Generation	Total	IN	OUT
AM Peak Hour	43	14	29
PM Peak Hour	49	30	19

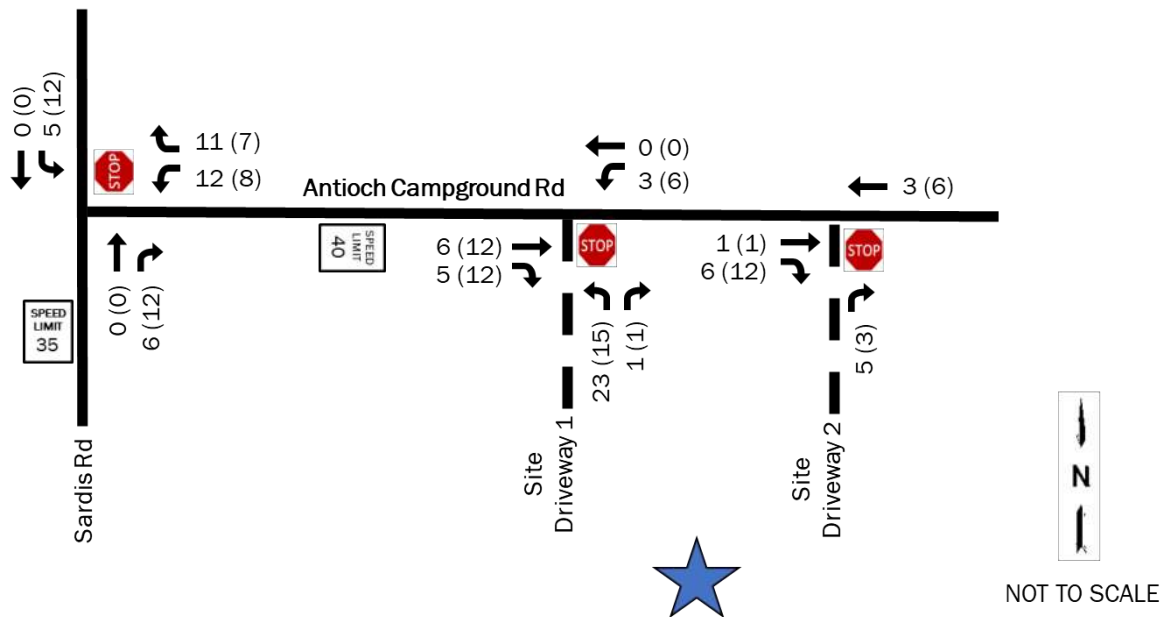
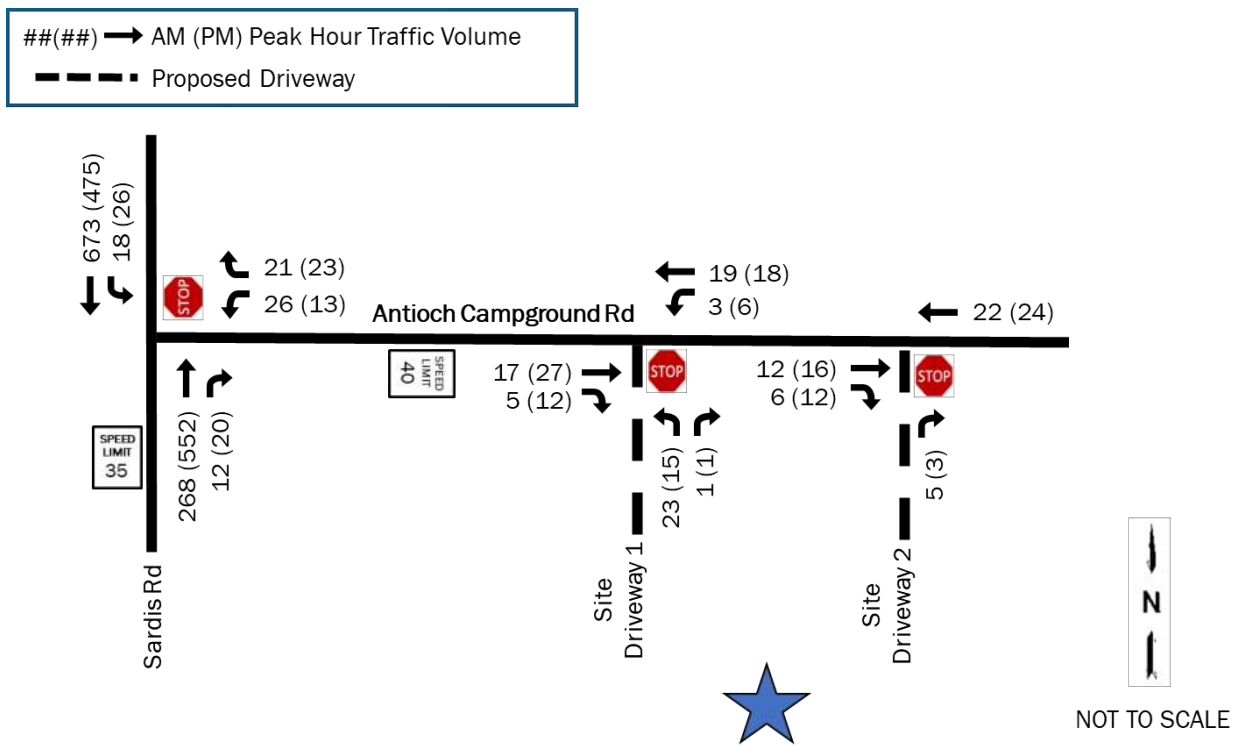


Figure 7: 2026 Build Traffic Volumes



D. Traffic Impact Analyses

The analysis in each of the scenarios for the study was performed using the traffic analysis software Synchro® 12. Average vehicular delays are calculated and reported as Levels of Service (LOS) as defined by the Highway Capacity Manual (HCM 7th Edition). HCM uses a grading system A through F, where A is the best (little to no delay), and F is the worst (very heavy delay). HCM Levels of Service (LOS) standards and Synchro® output reports are included in Appendix C.

D.1. 2023 Existing Conditions Analysis

The results of the 2023 Existing conditions capacity analysis are shown in Table 2 and include analysis of the traffic volumes presented in Figure 3.

Table 2: 2023 Existing Conditions Capacity Analysis

ID	Intersection	Control	Movement	AM		PM	
				LOS	Delay	LOS	Delay
1	Antioch Campground Rd & Sardis Rd	Stop-Control	WB	C	15.9	B	14.2
			SBL	A	7.8	A	8.6

As shown in Table 2, the intersection of Antioch Campground Road and Sardis Road operates with acceptable LOS during the AM and PM peak hours.

D.2. 2026 No-Build Conditions Capacity Analysis

The results of the 2026 No-Build conditions capacity analysis are shown in Table 3 for the operation of the intersection of Antioch Campground Road and Sardis Road with the traffic volumes presented in Figure 4.

Table 3: 2026 No-Build Capacity Analysis

ID	Intersection	Control	Movement	AM		PM	
				LOS	Delay	LOS	Delay
1	Antioch Campground Rd & Sardis Rd	Stop-Control	WB	C	16.8	B	14.8
			SBL	A	7.9	A	8.7

As shown in Table 3, traffic operations at the intersection of Antioch Campground Road and Sardis Road are expected to experience a nominal increase in delay due to the applied growth rate. The delays at the intersection are expected to increase slightly, but the overall LOS remain consistent with the Existing conditions and will continue to operate acceptably.

D.3. 2026 Build Conditions Capacity Analysis

The results of the 2026 Build conditions intersection capacity analysis are shown in Table 4 for No-Build plus project volumes as presented in Figure 7.

Table 4: 2026 Build Capacity Analysis

ID	Intersection	Control	Movement	AM		PM	
				LOS	Delay	LOS	Delay
1	Antioch Campground Rd & Sardis Rd	Stop-Control	WB	C	17.8	C	17.1
			SBL	A	7.9	A	8.8
2	Antioch Campground Rd & Site Driveway 1	Stop-Control	NB	A	8.8	A	8.9
			WBL	A	7.3	A	7.3
3	Antioch Campground Rd & Site Driveway 2	Stop-Control	NB	A	8.4	A	8.4

As shown in Table 4, the addition of project traffic to the intersection of Antioch Campground Road and Sardis Road is expected to have a minimal impact on the operation of the study intersection. The intersection of Sardis Road at Antioch Campground Road is expected to experience a slight increase in delays due to the added trips; however, the overall LOS remain satisfactory. The addition of two (2) driveways on Antioch Campground Road does not impact the functionality of traffic operations along Antioch Campground Road.

E. Driveway Evaluations

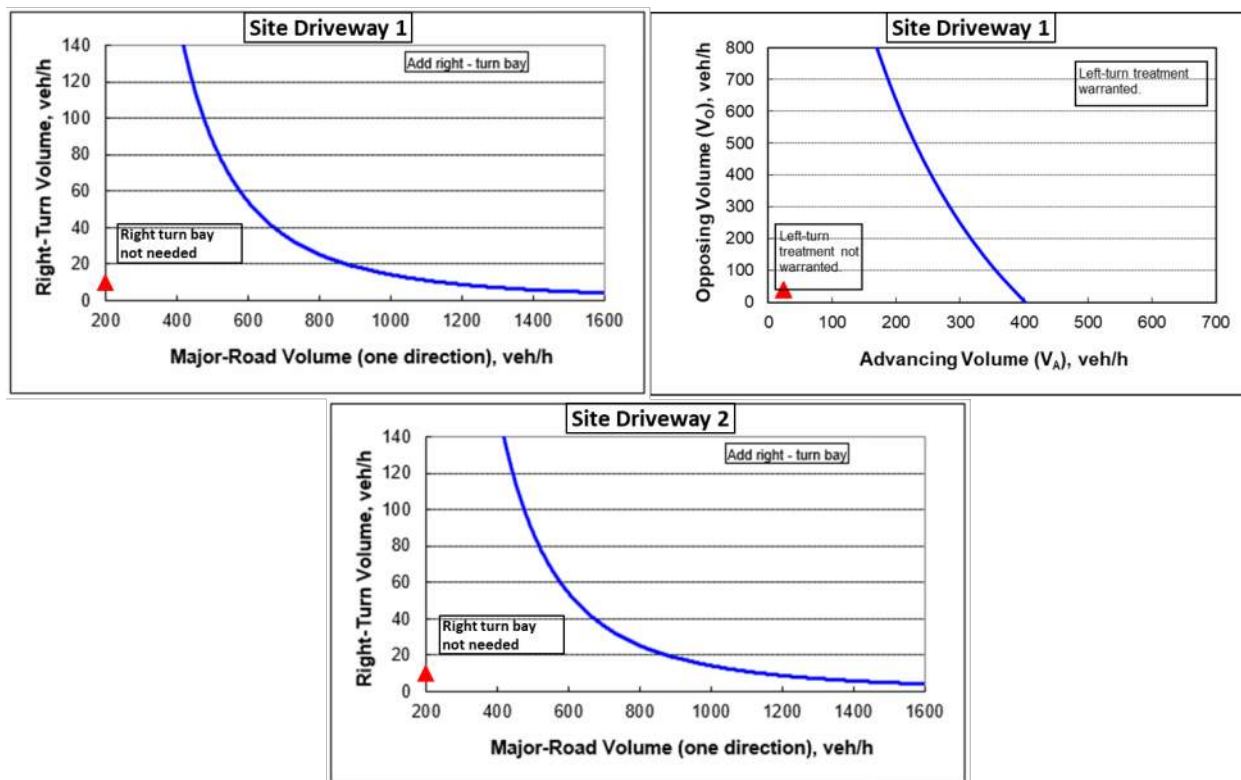
E.1. NCHRP Turn Lane Evaluations

The need for turn lanes was evaluated at the proposed site driveways along Antioch Campground Road using NCHRP Report 457. Figure 2-6 in the report shows that for a 40 MPH roadway, the road would need to exceed 400 vehicles per hour in one direction before a right-turn lane would be warranted. At most, Antioch Campground Road is expected to have 39 hourly trips in one direction. Right-Turn lanes are not warranted at either driveway.

For the full-access driveway, the NCHRP report Figure 2-5 shows that a left-turn lane is warranted if left-turns exceed 40% of the advancing traffic and there is more than 200 advancing vehicles while having several hundred opposing vehicles. While it is expected that 25% of the westbound traffic in the PM peak period is expected to turn left, there are only 24 expected westbound vehicles and 39 expected opposing vehicles at most, far short of what warrants a left-turn lane.

The tables for each driveway turn-lane evaluation are shown in figure 8 and are also included in Appendix D.

Figure 8: NCHRP Turn Lane Evaluations



E.2. Sight Distance Evaluation

According to the Hall County Residential Driveway Requirements, a minimum intersection sight distance is required for a passenger car entering the intersection from a site driveway. Based on the designated speed limit of 40 MPH for Antioch Campground Road, an intersection sight distance of 441 feet is required for the site driveway at Antioch Campground Road. A breakdown of the sight distance at the two driveways is shown in Table 5 below using measurements provided by the site plan.

Table 5: Sight Distance

ID	Intersection	Direction	Distance Required	Distance Measured	Sight Distance Met?
2	Antioch Campground Rd & Site Driveway 1	Looking Left	441	475	YES
		Looking Right		500	YES
3	Antioch Campground Rd & Site Driveway 2	Looking Left		784	YES
		Looking Right		N/A	N/A

As shown in Table 5, both driveways meet Hall County's sight distance requirement for vehicles making turns out of the driveways. Sight distance looking right at site driveway 2 was not evaluated since the driveway is proposed to be a right-in/right-out driveway.

F. Conclusions

A new residential development is proposed for construction along Antioch Campground Road in Hall County, Georgia. The proposed development will consist of 115 senior adult (55+) homes and will utilize one (1) full-access driveway and one (1) right-in/right out driveway along Antioch Campground Road. The development has a projected build out date of 2026.

When complete, the development is expected to generate a total of 668 new daily trips, 43 trips during the AM peak hour (14 entering and 29 exiting), and 49 during the PM peak hour (30 entering and 19 exiting).

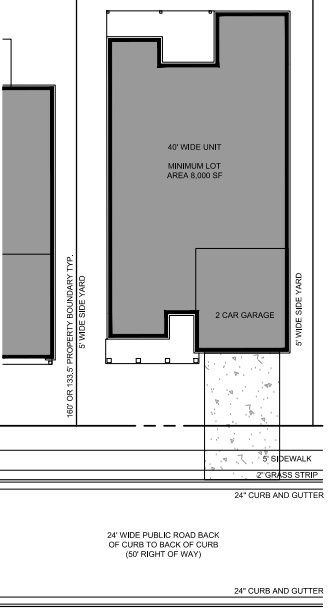
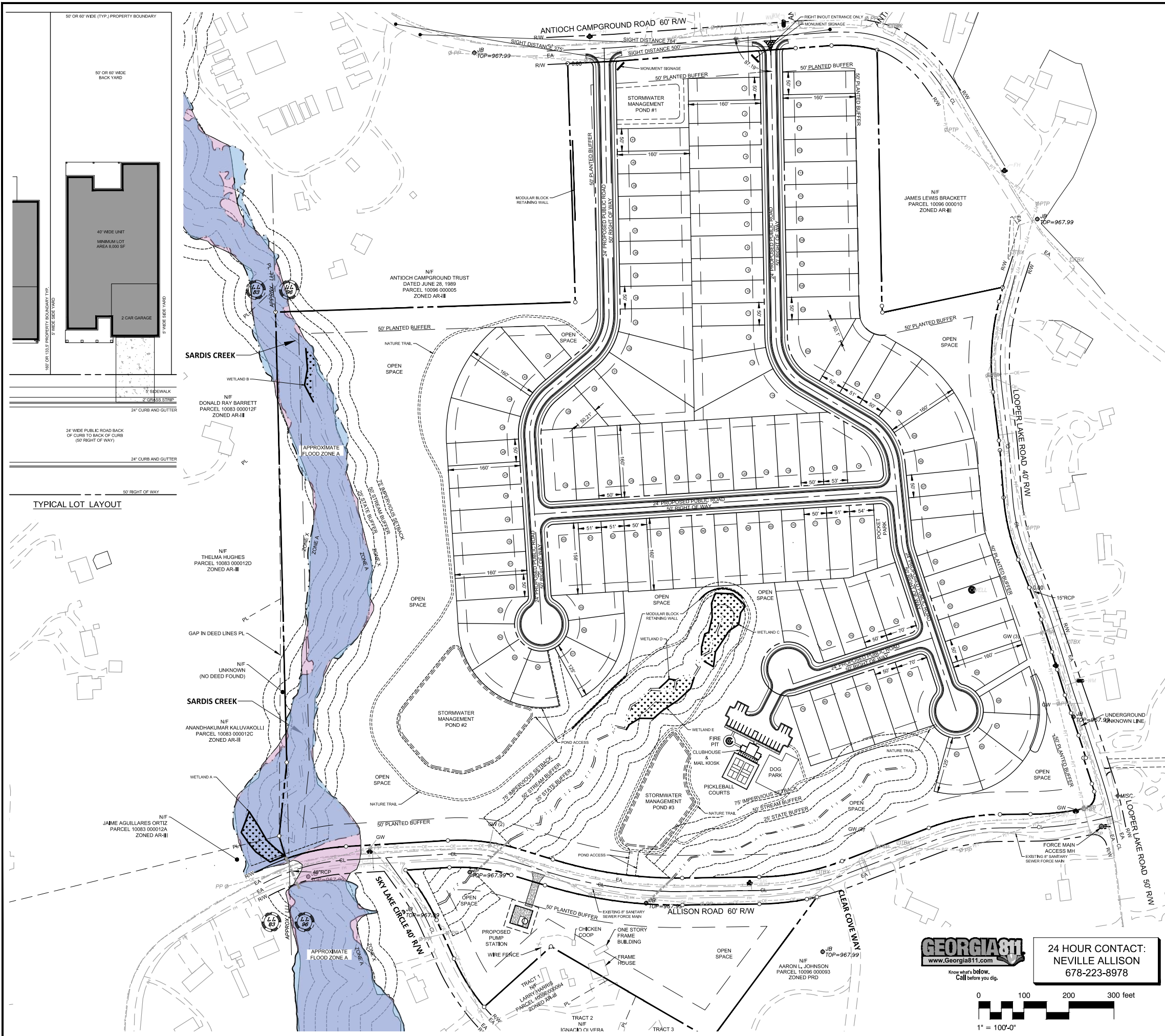
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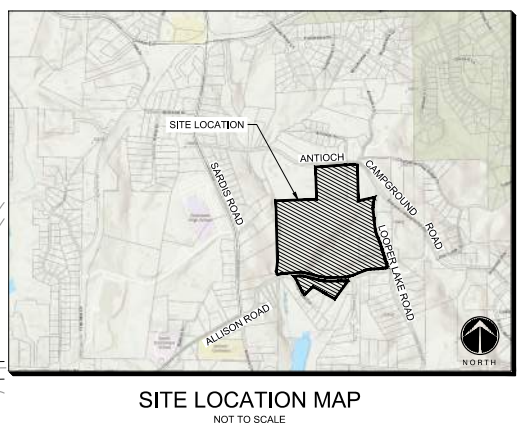
Turn lanes are not warranted at either driveway due to the low traffic volume along Antioch Campground Road. Both driveways also meet Hall County's sight distance requirements.

Based on the analysis prepared for the proposed development, improvements at the existing study intersection are not required to mitigate the impact of the proposed development.

**APPENDIX A:
DEVELOPMENT
CONCEPT PLAN**



SITE DATA:	
SITE AREA	59,003 ACRES
ZONING	AR-III
EXISTING ZONING	PRD (PLANNED RESIDENTIAL DEVELOPMENT) SENIOR ORIENTED RESIDENTIAL USE
PROPOSED ZONING	PRD
ZONING JURISDICTION	HALL COUNTY
USE	
50' WIDE LOTS - 38' WIDE FRONT-LOADED SINGLE-FAMILY	115 UNITS
SINGLE-FAMILY GARAGE DOORS (FLUSH WITH FRONT FACADE)	16 FEET WIDE OR 42% WIDTH OF UNIT
MAXIMUM HEIGHT	35 FEET
NUMBER OF STORIES	TWO-STORY
MINIMUM UNIT SIZE	2,100 SF
MAXIMUM DENSITY	2.00 UNITS
PROPOSED DENSITY	1.95 UNITS PER ACRE
DIMENSIONAL STANDARDS SINGLE-FAMILY	
MINIMUM LOT AREA	8,000 SF
MINIMUM LOT WIDTH	50 FEET
MINIMUM FRONT YARD SETBACK	25 FEET
MINIMUM SIDE YARD SETBACK	5 FEET
MINIMUM REAR YARD SETBACK	20 FEET
DIMENSIONAL STANDARDS (TOWNHOMES)	
MINIMUM PUBLIC ROAD FRONTAGE	75 FEET
MINIMUM OPEN SPACE	30% OR 17,701 ACRES
PROPOSED OPEN SPACE	47.8% OR 28,193 ACRES
BUFFER	50 FOOT PLANTED BUFFER ALONG PERIMETER



PROPERTY OWNERS:

PARCEL ID: 10096 000006 - CAROLE FREEMAN
 PARCEL ID: 10096 000004 - WESLEY MARTIN
 PARCEL ID: 10096 000059 - LAMAR COLLINS
 PARCEL ID: 10096 000061 - LAMAR COLLINS
 PARCEL ID: 10096 000062 - LAMAR COLLINS

- GENERAL NOTES:**
- STREAMS AND WETLANDS ARE LOCATED ON THE SITE
 - FLOODPLAIN IS LOCATED ON THE SITE
 - NO POWER TRANSMISSION OR GAS PIPELINE EASEMENTS ARE LOCATED ON THE SITE
 - NO CEMETERIES ARE LOCATED ON THE SITE
 - SIZE AND LOCATION OF PROPOSED STRUCTURES AS INDICATED ON THE SITE PLAN
 - SPEED LIMIT ON ANTIPOCH CAMPGROUND ROAD IS 35 MPH.
 - SPEED LIMIT ON LOOP LAKE ROAD IS 35 MPH.
 - SPEED LIMIT ON ALLISON ROAD IS 35 MPH
 - WATER UTILITY PROVIDER IS CITY OF GAINESVILLE.
 - SANITARY SEWER PROVIDER IS CITY OF GAINESVILLE. DEVELOPMENT TO BE SERVED BY GRAVITY SEWER. A PROPOSED PUMP STATION IS REQUIRED.
 - THIS CONCEPT PLAN UTILIZES GIS DATA FOR FLOOD HAZARD AREA, TOPOGRAPHY, SANITARY SEWER FORCE MAIN AND UNDERGROUND WATER MAIN.
 - EXISTING TREE CANOPY COVERS THE SITE.
 - THE HOA(S) WILL MAINTAIN AND MANAGE ALL OF THE COMMON AREAS OF THE DEVELOPMENT, INCLUDING FINANCIAL MANAGEMENT AND ENFORCEMENT OF COMMUNITY STANDARDS. ANY MODIFICATIONS OR NEW CONSTRUCTION WITHIN THE COMMUNITY MUST BE APPROVED BY AN ARCHITECTURAL REVIEW BOARD. THE BOARD WILL BE ESTABLISHED AND OPERATED BY THE DEVELOPER UNTIL SUCH TIME AS THE POWERS ARE TRANSFERRED TO THE HOA(S). PUBLIC STREETS WILL BE TURNED OVER TO THE COUNTY WHEREAS THE ALLEYS WILL BE PRIVATE AND WILL BE MAINTAINED BY THE HOA(S).
 - EXISTING STRUCTURES ON THE SITE ARE TO BE REMOVED.

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NEVILLE ALLISON
678-223-8978

Scale: 1" = 100'-0"
 0 100 200 300 feet

ENGINEER

THE REVIVE LAND GROUP
 Part of Peachtree Group

SOURCE: ENTITLE. REVIVE.

ONE ALLIANCE CENTER
 3500 LENOX ROAD
 SUITE 625
 ATLANTA, GEORGIA 30326
 O: (678) 223-8978
 WWW.THEREVIVELANDGROUP.COM

PROJECT

SOMERSET AT SARDIS CREEK

A MASTER PLANNED SENIOR ORIENTED RESIDENTIAL DEVELOPMENT

3212 & 3302 ANTIPOCH CAMPGROUND ROAD
 GAINESVILLE, GA 30506

HALL COUNTY
 GEORGIA

LAND LOT: 83 & 96
 DISTRICT: 10TH

CLIENT

THE REVIVE LAND GROUP
 Part of Peachtree Group

SOURCE: ENTITLE. REVIVE.

ONE ALLIANCE CENTER
 3500 LENOX ROAD
 SUITE 625
 ATLANTA, GEORGIA 30326
 O: (678) 223-8978
 THEREVIVELANDGROUP.COM

REVISION	DATE

PROJECT NUMBER: 23023

SEAL IS ONLY VALID IF COUNTER SIGNED AND DATED WITH AN ORIGINAL SIGNATURE

DISTRICT: 10TH

DATE: FEBRUARY 29, 2024

TITLE: CONCEPTUAL SITE PLAN

SHEET: Z-01

**APPENDIX B:
TRAFFIC COUNTS
& GROWTH RATE
DEVELOPMENT WORKSHEET**



[Click here for Map](#)

Peak Hour Turning Movement Count

Hall County, GA



www.marrtraffic.com

Tuesday, August 8, 2023	
Period	0700 - 0900
Peak Hour	0715 - 0815

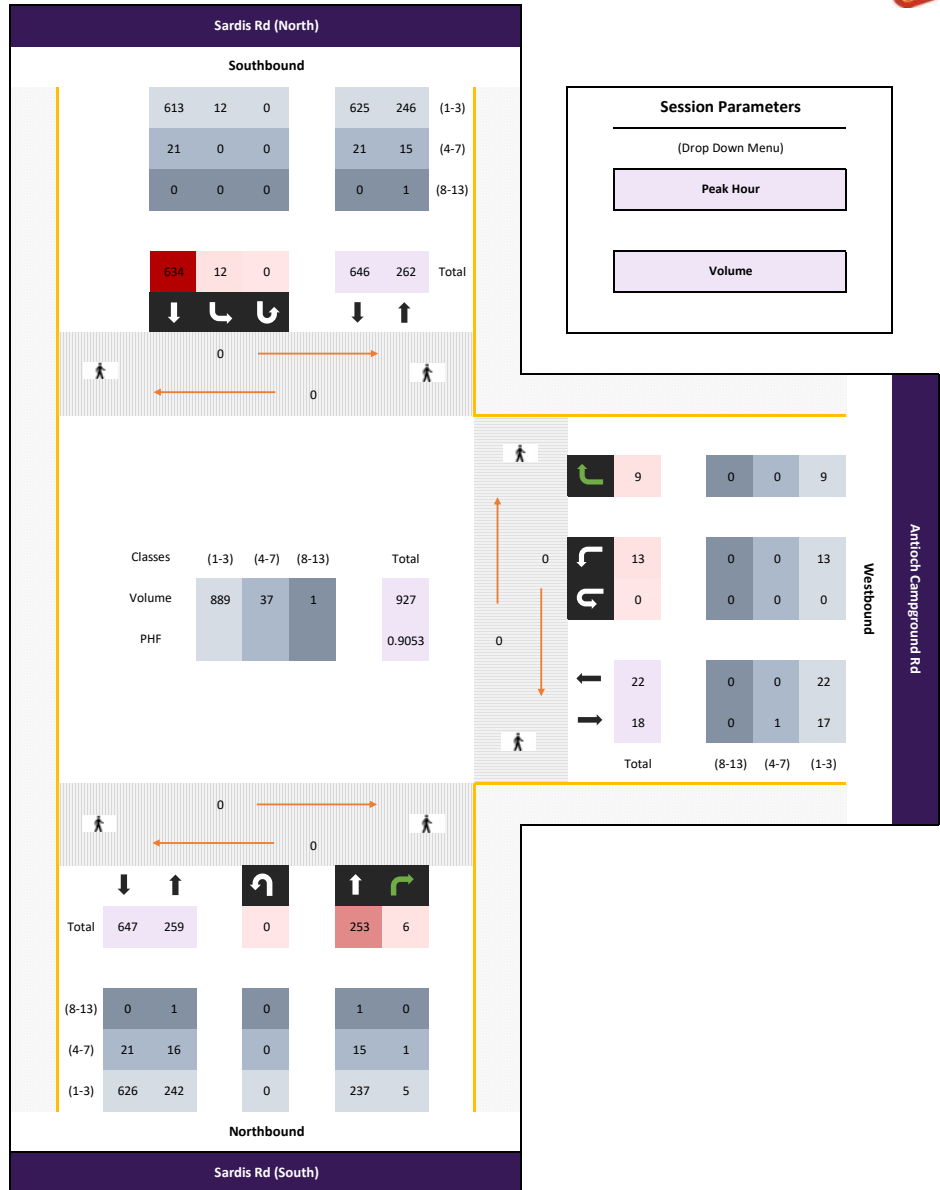
* the Peak Hour Diagram does not include Bikes

Session Parameters

(Drop Down Menu)

Peak Hour

Volume





[Click here for Map](#)

Peak Hour Turning Movement Count

Hall County, GA



www.marrtraffic.com

Tuesday, August 8, 2023	
Period	1600 - 1800
Peak Hour	1700 - 1800

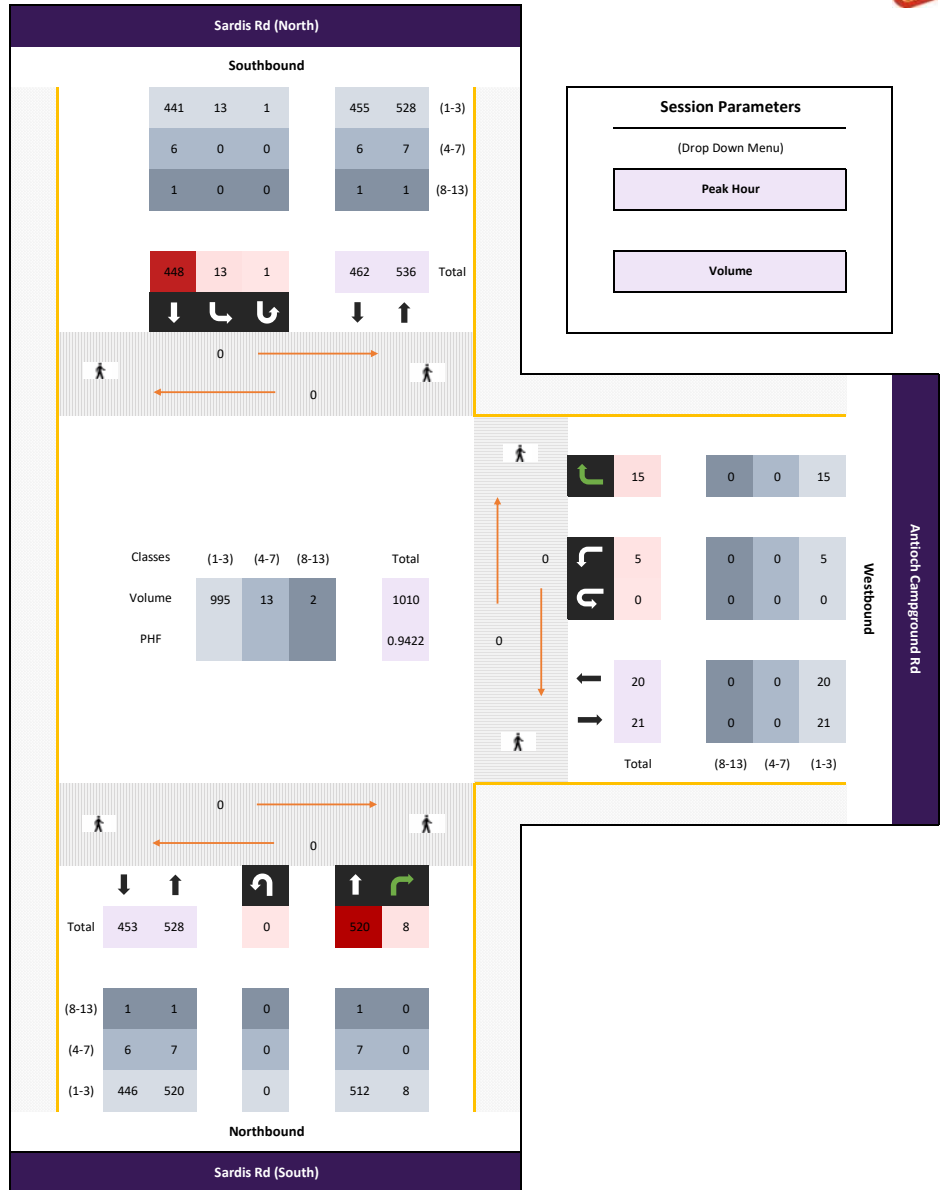
* the Peak Hour Diagram does not include Bikes

Session Parameters

(Drop Down Menu)

Peak Hour

Volume



Classified Turn Movement Count || All vehicles



Hall County, GA

Site 1
Sardis Rd (South)
Sardis Rd (North)

Date
Tuesday, August 8, 2023

Weather
Mostly Cloudy
77°F

Antioch Campground Rd

Lat/Long
34.351469°, -83.893407°

0700 - 0900 (Weekday 2h Session) (08-08-2023)

All vehicles

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru	Right	U-Turn	App	Left	Thru	U-Turn	App
0700 - 0715	40	0	0	40	0	118	0	118
0715 - 0730	48	2	0	50	4	142	0	146
0730 - 0745	71	0	0	71	1	146	0	147
0745 - 0800	57	1	0	58	3	192	0	195
Hourly Total	216	3	0	219	8	598	0	606
0800 - 0815	77	3	0	80	4	154	0	158
0815 - 0830	77	0	0	77	0	85	0	85
0830 - 0845	56	2	0	58	1	61	0	62
0845 - 0900	56	0	0	56	1	66	0	67
Hourly Total	266	5	0	271	6	366	0	372
Grand Total	482	8	0	490	14	964	0	978
Approach %	98.37	1.63	0.00	-	1.43	98.57	0.00	-
Intersection %	32.09	0.53	0.00	32.62	0.93	64.18	0.00	65.11
Heavy Vehicle %	6	13	-	6	0	3	-	3
PHF	0.82	0.50	0.00	0.81	0.75	0.83	0.00	0.83

Westbound				
Antioch Campground Rd				
Left	Right	U-Turn	App	Int
1.7	1.8	1.9	Total	Total
1	1	0	2	160
3	3	0	6	202
3	3	0	6	224
2	1	0	3	256
9	8	0	17	842
5	2	0	7	245
0	2	0	2	164
1	3	0	4	124
2	2	0	4	127
8	9	0	17	660
17	17	0	34	1502
50.00	50.00	0.00	-	
1.13	1.13	0.00	2.26	
6	6	-	6	4
0.65	0.75	0.00	0.79	0.91

1600 - 1800 (Weekday 2h Session) (08-08-2023)

All vehicles

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru	Right	U-Turn	App	Left	Thru	U-Turn	App
1600 - 1615	121	3	0	124	4	93	0	97
1615 - 1630	112	2	0	114	2	84	0	86
1630 - 1645	131	1	0	132	3	86	0	89
1645 - 1700	129	1	0	130	3	82	0	85
Hourly Total	493	7	0	500	12	345	0	357
1700 - 1715	128	0	0	128	4	104	0	108
1715 - 1730	151	6	0	157	1	102	1	104
1730 - 1745	113	0	0	113	1	126	0	127
1745 - 1800	128	2	0	130	7	116	0	123
Hourly Total	520	8	0	528	13	448	1	462
Grand Total	1013	15	0	1028	25	793	1	819
Approach %	98.54	1.46	0.00	-	3.05	96.83	0.12	-
Intersection %	53.71	0.80	0.00	54.51	1.33	42.05	0.05	43.43
Heavy Vehicle %	2	7	-	2	0	2	0	2
PHF	0.86	0.33	0.00	0.84	0.46	0.89	0.25	0.91

Westbound				
Antioch Campground Rd				
Left	Right	U-Turn	App	Int
1.7	1.8	1.9	Total	Total
0	3	0	3	224
1	4	0	5	205
1	5	0	6	227
1	4	0	5	220
3	16	0	19	876
1	3	0	4	240
1	6	0	7	268
2	1	0	3	243
1	5	0	6	259
5	15	0	20	1010
8	31	0	39	1886
20.51	79.49	0.00	-	
0.42	1.64	0.00	2.07	
0	0	-	0	2
0.63	0.63	0.00	0.71	0.94

Classified Turn Movement Count || Passenger Vehicles (1-3)



Hall County, GA

Site 1
Sardis Rd (South)
Sardis Rd (North)

Date
Tuesday, August 8, 2023

Weather
Mostly Cloudy
77°F

Antioch Campground Rd

Lat/Long
34.351469°, -83.893407°

0700 - 0900 (Weekday 2h Session) (08-08-2023)

Passenger Vehicles (1-3)

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru	Right	U-Turn	App	Left	Thru	U-Turn	App
0700 - 0715	38	0	0	38	0	116	0	116
0715 - 0730	44	1	0	45	4	138	0	142
0730 - 0745	69	0	0	69	1	144	0	145
0745 - 0800	52	1	0	53	3	184	0	187
Hourly Total	203	2	0	205	8	582	0	590
0800 - 0815	72	3	0	75	4	147	0	151
0815 - 0830	75	0	0	75	0	83	0	83
0830 - 0845	53	2	0	55	1	59	0	60
0845 - 0900	50	0	0	50	1	60	0	61
Hourly Total	250	5	0	255	6	349	0	355
Grand Total	453	7	0	460	14	931	0	945
Approach %	98.48	1.52	0.00	-	1.48	98.52	0.00	-
Intersection %	31.52	0.49	0.00	32.01	0.97	64.79	0.00	65.76

Westbound				
Antioch Campground Rd				
Left	Right	U-Turn	App	Int
1.7	1.8	1.9	Total	Total
1	1	0	2	156
3	3	0	6	193
3	3	0	6	220
2	1	0	3	243
9	8	0	17	812
5	2	0	7	233
0	2	0	2	160
1	2	0	3	118
1	2	0	3	114
7	8	0	15	625
16	16	0	32	1437
50.00	50.00	0.00	-	
1.11	1.11	0.00	2.23	

1600 - 1800 (Weekday 2h Session) (08-08-2023)

Passenger Vehicles (1-3)

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru	Right	U-Turn	App	Left	Thru	U-Turn	App
1600 - 1615	111	2	0	113	4	92	0	96
1615 - 1630	109	2	0	111	2	83	0	85
1630 - 1645	128	1	0	129	3	83	0	86
1645 - 1700	129	1	0	130	3	79	0	82
Hourly Total	477	6	0	483	12	337	0	349
1700 - 1715	124	0	0	124	4	101	0	105
1715 - 1730	151	6	0	157	1	100	1	102
1730 - 1745	109	0	0	109	1	126	0	127
1745 - 1800	128	2	0	130	7	114	0	121
Hourly Total	512	8	0	520	13	441	1	455
Grand Total	989	14	0	1003	25	778	1	804
Approach %	98.60	1.40	0.00	-	3.11	96.77	0.12	-
Intersection %	53.58	0.76	0.00	54.33	1.35	42.15	0.05	43.55

Westbound				
Antioch Campground Rd				
Left	Right	U-Turn	App	Int
1.7	1.8	1.9	Total	Total
0	3	0	3	212
1	4	0	5	201
1	5	0	6	221
1	4	0	5	217
3	16	0	19	851
1	3	0	4	233
1	6	0	7	266
2	1	0	3	239
1	5	0	6	257
5	15	0	20	995
8	31	0	39	1846
20.51	79.49	0.00	-	
0.43	1.68	0.00	2.11	

Classified Turn Movement Count || Single Unit Trucks (4-7)



Hall County, GA

Site 1
Sardis Rd (South)
Sardis Rd (North)

Date
Tuesday, August 8, 2023

Weather
Mostly Cloudy
77°F

Antioch Campground Rd

Lat/Long
34.351469°, -83.893407°

0700 - 0900 (Weekday 2h Session) (08-08-2023)

Single Unit Trucks (4-7)

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
0700 - 0715	2	0	0	2	0	1	0	1
0715 - 0730	4	1	0	5	0	4	0	4
0730 - 0745	2	0	0	2	0	2	0	2
0745 - 0800	4	0	0	4	0	8	0	8
Hourly Total	12	1	0	13	0	15	0	15
0800 - 0815	5	0	0	5	0	7	0	7
0815 - 0830	2	0	0	2	0	2	0	2
0830 - 0845	3	0	0	3	0	2	0	2
0845 - 0900	6	0	0	6	0	5	0	5
Hourly Total	16	0	0	16	0	16	0	16
Grand Total	28	1	0	29	0	31	0	31
Approach %	96.55	3.45	0.00	-	0.00	100.00	0.00	-
Intersection %	45.16	1.61	0.00	46.77	0.00	50.00	0.00	50.00

TIME	Westbound				
	Antioch Campground Rd				
	Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
0700 - 0715	0	0	0	0	3
0715 - 0730	0	0	0	0	9
0730 - 0745	0	0	0	0	4
0745 - 0800	0	0	0	0	12
Hourly Total	0	0	0	0	28
0800 - 0815	0	0	0	0	12
0815 - 0830	0	0	0	0	4
0830 - 0845	0	1	0	1	6
0845 - 0900	1	0	0	1	12
Hourly Total	1	1	0	2	34
Grand Total	1	1	0	2	62
Approach %	50.00	50.00	0.00	-	-
Intersection %	1.61	1.61	0.00	3.23	-

1600 - 1800 (Weekday 2h Session) (08-08-2023)

Single Unit Trucks (4-7)

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
1600 - 1615	10	1	0	11	0	1	0	1
1615 - 1630	3	0	0	3	0	0	0	0
1630 - 1645	3	0	0	3	0	3	0	3
1645 - 1700	0	0	0	0	0	3	0	3
Hourly Total	16	1	0	17	0	7	0	7
1700 - 1715	4	0	0	4	0	2	0	2
1715 - 1730	0	0	0	0	0	2	0	2
1730 - 1745	3	0	0	3	0	0	0	0
1745 - 1800	0	0	0	0	0	2	0	2
Hourly Total	7	0	0	7	0	6	0	6
Grand Total	23	1	0	24	0	13	0	13
Approach %	95.83	4.17	0.00	-	0.00	100.00	0.00	-
Intersection %	62.16	2.70	0.00	64.86	0.00	35.14	0.00	35.14

TIME	Westbound				
	Antioch Campground Rd				
	Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
1600 - 1615	0	0	0	0	12
1615 - 1630	0	0	0	0	3
1630 - 1645	0	0	0	0	6
1645 - 1700	0	0	0	0	3
Hourly Total	0	0	0	0	24
1700 - 1715	0	0	0	0	6
1715 - 1730	0	0	0	0	2
1730 - 1745	0	0	0	0	3
1745 - 1800	0	0	0	0	2
Hourly Total	0	0	0	0	13
Grand Total	0	0	0	0	37
Approach %	0.00	0.00	0.00	-	-
Intersection %	0.00	0.00	0.00	0.00	-

Classified Turn Movement Count || Combination Trucks (8-13)



Hall County, GA

Site 1
Sardis Rd (South)
Sardis Rd (North)

Date
Tuesday, August 8, 2023

Weather
Mostly Cloudy
77°F

Antioch Campground Rd

Lat/Long
34.351469°, -83.893407°

0700 - 0900 (Weekday 2h Session) (08-08-2023)

Combination Trucks (8-13)

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
0700 - 0715	0	0	0	0	0	1	0	1
0715 - 0730	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0
0745 - 0800	1	0	0	1	0	0	0	0
Hourly Total	1	0	0	1	0	1	0	1
0800 - 0815	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	1	0	1
Hourly Total	0	0	0	0	0	1	0	1
Grand Total	1	0	0	1	0	2	0	2
Approach %	100.00	0.00	0.00	-	0.00	100.00	0.00	-
Intersection %	33.33	0.00	0.00	33.33	0.00	66.67	0.00	66.67

Westbound				
Antioch Campground Rd				
Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
0	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	1
0	0	0	0	3
0.00	0.00	0.00	-	
0.00	0.00	0.00	0.00	

1600 - 1800 (Weekday 2h Session) (08-08-2023)

Combination Trucks (8-13)

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
1600 - 1615	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	1	0	1
1630 - 1645	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	1	0	1
1700 - 1715	0	0	0	0	0	1	0	1
1715 - 1730	0	0	0	0	0	0	0	0
1730 - 1745	1	0	0	1	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0
Hourly Total	1	0	0	1	0	1	0	1
Grand Total	1	0	0	1	0	2	0	2
Approach %	100.00	0.00	0.00	-	0.00	100.00	0.00	-
Intersection %	33.33	0.00	0.00	33.33	0.00	66.67	0.00	66.67

Westbound				
Antioch Campground Rd				
Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	1
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	0	0	2
0	0	0	0	3
0.00	0.00	0.00	-	
0.00	0.00	0.00	0.00	

Classified Turn Movement Count || Bikes



Hall County, GA

Site 1
 Sardis Rd (South)
 Sardis Rd (North)
 Antioch Campground Rd

Date
 Tuesday, August 8, 2023
Lat/Long
 34.351469°, -83.893407°

Weather
 Mostly Cloudy
 77°F

0700 - 0900 (Weekday 2h Session) (08-08-2023)

Bikes

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
0700 - 0715	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0
0800 - 0815	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	-	0.00	0.00	0.00	-
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TIME	Westbound				
	Antioch Campground Rd				
	Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
0700 - 0715	0	0	0	0	0
0715 - 0730	0	0	0	0	0
0730 - 0745	0	0	0	0	0
0745 - 0800	0	0	0	0	0
Hourly Total	0	0	0	0	0
0800 - 0815	0	0	0	0	0
0815 - 0830	0	0	0	0	0
0830 - 0845	0	0	0	0	0
0845 - 0900	0	0	0	0	0
Hourly Total	0	0	0	0	0
Grand Total	0	0	0	0	0
Approach %	0.00	0.00	0.00	-	0.00
Intersection %	0.00	0.00	0.00	0.00	0.00

1600 - 1800 (Weekday 2h Session) (08-08-2023)

Bikes

TIME	Northbound				Southbound			
	Sardis Rd (South)				Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
1600 - 1615	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0
1700 - 1715	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	-	0.00	0.00	0.00	-
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TIME	Westbound				
	Antioch Campground Rd				
	Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
1600 - 1615	0	0	0	0	0
1615 - 1630	0	0	0	0	0
1630 - 1645	0	0	0	0	0
1645 - 1700	0	0	0	0	0
Hourly Total	0	0	0	0	0
1700 - 1715	0	0	0	0	0
1715 - 1730	0	0	0	0	0
1730 - 1745	0	0	0	0	0
1745 - 1800	0	0	0	0	0
Hourly Total	0	0	0	0	0
Grand Total	0	0	0	0	0
Approach %	0.00	0.00	0.00	-	0.00
Intersection %	0.00	0.00	0.00	0.00	0.00

Classified Turn Movement Count || All Trucks (4-13)



Hall County, GA

Site 1
Sardis Rd (South)
Sardis Rd (North)

Date
Tuesday, August 8, 2023

Weather
Mostly Cloudy
77°F

Antioch Campground Rd

Lat/Long
34.351469°, -83.893407°

0700 - 0900 (Weekday 2h Session) (08-08-2023)

All Trucks (4-13)

TIME	Northbound Sardis Rd (South)				Southbound Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
	0700 - 0715	2	0	0	2	0	2	0
0715 - 0730	4	1	0	5	0	4	0	4
0730 - 0745	2	0	0	2	0	2	0	2
0745 - 0800	5	0	0	5	0	8	0	8
Hourly Total	13	1	0	14	0	16	0	16
0800 - 0815	5	0	0	5	0	7	0	7
0815 - 0830	2	0	0	2	0	2	0	2
0830 - 0845	3	0	0	3	0	2	0	2
0845 - 0900	6	0	0	6	0	6	0	6
Hourly Total	16	0	0	16	0	17	0	17
Grand Total	29	1	0	30	0	33	0	33
Approach %	96.67	3.33	0.00	-	0.00	100.00	0.00	-
Intersection %	44.62	1.54	0.00	46.15	0.00	50.77	0.00	50.77

Westbound Antioch Campground Rd				
Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
0	0	0	0	4
0	0	0	0	9
0	0	0	0	4
0	0	0	0	13
0	0	0	0	30
0	0	0	0	12
0	0	0	0	4
0	1	0	1	6
1	0	0	1	13
1	1	0	2	35
1	1	0	2	65
50.00	50.00	0.00	-	
1.54	1.54	0.00	3.08	

1600 - 1800 (Weekday 2h Session) (08-08-2023)

All Trucks (4-13)

TIME	Northbound Sardis Rd (South)				Southbound Sardis Rd (North)			
	Thru 1.1	Right 1.2	U-Turn 1.3	App Total	Left 1.4	Thru 1.5	U-Turn 1.6	App Total
	1600 - 1615	10	1	0	11	0	1	0
1615 - 1630	3	0	0	3	0	1	0	1
1630 - 1645	3	0	0	3	0	3	0	3
1645 - 1700	0	0	0	0	0	3	0	3
Hourly Total	16	1	0	17	0	8	0	8
1700 - 1715	4	0	0	4	0	3	0	3
1715 - 1730	0	0	0	0	0	2	0	2
1730 - 1745	4	0	0	4	0	0	0	0
1745 - 1800	0	0	0	0	0	2	0	2
Hourly Total	8	0	0	8	0	7	0	7
Grand Total	24	1	0	25	0	15	0	15
Approach %	96.00	4.00	0.00	-	0.00	100.00	0.00	-
Intersection %	60.00	2.50	0.00	62.50	0.00	37.50	0.00	37.50

Westbound Antioch Campground Rd				
Left 1.7	Right 1.8	U-Turn 1.9	App Total	Int Total
0	0	0	0	12
0	0	0	0	4
0	0	0	0	6
0	0	0	0	3
0	0	0	0	25
0	0	0	0	7
0	0	0	0	2
0	0	0	0	4
0	0	0	0	2
0	0	0	0	15
0	0	0	0	40
0.00	0.00	0.00	-	
0.00	0.00	0.00	0.00	

Crosswalk Counts || Bikes

Hall County, GA

Site 1

Sardis Rd (South)
Sardis Rd (North)

Antioch Campground Rd

Date

Tuesday, August 8, 2023

Lat/Long

34.351469°, -83.893407°

Weather

Mostly Cloudy
77°F

0700 - 0900 (Weekday 2h Session) (08-08-2023)

Bikes

TIME	Northbound		App Total	Southbound		App Total
	EB 1a	WB 1b		EB 1c	WB 1d	
0700 - 0715	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0
0800 - 0815	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0
Approach %	0.00	0.00	-	0.00	0.00	-
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00

TIME	Westbound		App Total	Int Total
	NB 1g	SB 1h		
0700 - 0715	0	0	0	0
0715 - 0730	0	0	0	0
0730 - 0745	0	0	0	0
0745 - 0800	0	0	0	0
Hourly Total	0	0	0	0
0800 - 0815	0	0	0	0
0815 - 0830	0	0	0	0
0830 - 0845	0	0	0	0
0845 - 0900	0	0	0	0
Hourly Total	0	0	0	0
Grand Total	0	0	0	0
Approach %	0.00	0.00	-	-
Intersection %	0.00	0.00	0.00	-

1600 - 1800 (Weekday 2h Session) (08-08-2023)

Bikes

TIME	Northbound		App Total	Southbound		App Total
	EB 1a	WB 1b		EB 1c	WB 1d	
1600 - 1615	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0
1700 - 1715	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0
Approach %	0.00	0.00	-	0.00	0.00	-
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00

TIME	Westbound		App Total	Int Total
	NB 1g	SB 1h		
1600 - 1615	0	0	0	0
1615 - 1630	0	0	0	0
1630 - 1645	0	0	0	0
1645 - 1700	0	0	0	0
Hourly Total	0	0	0	0
1700 - 1715	0	0	0	0
1715 - 1730	0	0	0	0
1730 - 1745	0	0	0	0
1745 - 1800	0	0	0	0
Hourly Total	0	0	0	0
Grand Total	0	0	0	0
Approach %	0.00	0.00	-	-
Intersection %	0.00	0.00	0.00	-

Crosswalk Counts || Motorized Vehicles



Hall County, GA

Site 1
 Sardis Rd (South)
 Sardis Rd (North)

Date
 Tuesday, August 8, 2023

Weather
 Mostly Cloudy
 77°F

Antioch Campground Rd

Lat/Long
 34.351469°, -83.893407°

0700 - 0900 (Weekday 2h Session) (08-08-2023)

Motorized Vehicles

TIME	Northbound			Southbound			App Total
	Sardis Rd (South)		Sardis Rd (North)				
	EB 1a	WB 1b	App Total	EB 1c	WB 1d		
0700 - 0715	0	0	0	0	0	0	
0715 - 0730	0	0	0	0	0	0	
0730 - 0745	0	0	0	0	0	0	
0745 - 0800	0	0	0	0	0	0	
Hourly Total	0	0	0	0	0	0	
0800 - 0815	0	0	0	0	0	0	
0815 - 0830	0	0	0	0	0	0	
0830 - 0845	0	0	0	0	0	0	
0845 - 0900	0	0	0	0	0	0	
Hourly Total	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	
Approach %	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	

TIME	Westbound		App Total	Int Total
	Antioch Campground Rd			
	NB 1g	SB 1h		
0700 - 0715	0	0	0	0
0715 - 0730	0	0	0	0
0730 - 0745	0	0	0	0
0745 - 0800	0	0	0	0
Hourly Total	0	0	0	0
0800 - 0815	0	0	0	0
0815 - 0830	0	0	0	0
0830 - 0845	0	0	0	0
0845 - 0900	0	0	0	0
Hourly Total	0	0	0	0
Grand Total	0	0	0	0
Approach %	0.00	0.00	-	-
Intersection %	0.00	0.00	0.00	0.00

1600 - 1800 (Weekday 2h Session) (08-08-2023)

Motorized Vehicles

TIME	Northbound			Southbound			App Total
	Sardis Rd (South)		Sardis Rd (North)				
	EB 1a	WB 1b	App Total	EB 1c	WB 1d		
1600 - 1615	0	0	0	0	0	0	
1615 - 1630	0	0	0	0	0	0	
1630 - 1645	0	0	0	0	0	0	
1645 - 1700	0	0	0	0	0	0	
Hourly Total	0	0	0	0	0	0	
1700 - 1715	0	0	0	0	0	0	
1715 - 1730	0	0	0	0	0	0	
1730 - 1745	0	0	0	0	0	0	
1745 - 1800	0	0	0	0	0	0	
Hourly Total	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	
Approach %	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	

TIME	Westbound		App Total	Int Total
	Antioch Campground Rd			
	NB 1g	SB 1h		
1600 - 1615	0	0	0	0
1615 - 1630	0	0	0	0
1630 - 1645	0	0	0	0
1645 - 1700	0	0	0	0
Hourly Total	0	0	0	0
1700 - 1715	0	0	0	0
1715 - 1730	0	0	0	0
1730 - 1745	0	0	0	0
1745 - 1800	0	0	0	0
Hourly Total	0	0	0	0
Grand Total	0	0	0	0
Approach %	0.00	0.00	-	-
Intersection %	0.00	0.00	0.00	0.00

Bi-Directional Class Count || Volume Summary 15min



Hall County, GA

Site 1
Antioch Campground Rd,
east of Sardis Rd

Date
Tuesday, August 8, 2023

Weather
Mostly Cloudy
77°F

Lat/Long
34.350509°, -83.887030°

0000 - 2400 (Weekday 24h Session) (08-08-2023)

Volume Summary 15min

TIME	Volume Summary 15min		15min Total	60min Total
	EB	WB		
0000 - 0015	0	0	0	
0015 - 0030	1	0	1	
0030 - 0045	0	0	0	
0045 - 0100	0	0	0	1
0100 - 0115	0	0	0	
0115 - 0130	0	0	0	
0130 - 0145	0	0	0	
0145 - 0200	0	0	0	0
0200 - 0215	0	0	0	
0215 - 0230	0	0	0	
0230 - 0245	0	0	0	
0245 - 0300	0	0	0	0
0300 - 0315	0	0	0	
0315 - 0330	0	0	0	
0330 - 0345	0	1	1	
0345 - 0400	0	1	1	2
0400 - 0415	0	0	0	
0415 - 0430	0	0	0	
0430 - 0445	0	2	2	
0445 - 0500	0	0	0	2
0500 - 0515	0	0	0	
0515 - 0530	0	1	1	
0530 - 0545	0	0	0	
0545 - 0600	1	1	2	3
0600 - 0615	1	4	5	
0615 - 0630	1	1	2	
0630 - 0645	0	1	1	
0645 - 0700	1	3	4	12
0700 - 0715	0	1	1	
0715 - 0730	3	4	7	
0730 - 0745	1	6	7	
0745 - 0800	2	2	4	19
0800 - 0815	4	6	10	
0815 - 0830	2	2	4	
0830 - 0845	2	2	4	
0845 - 0900	1	3	4	22
0900 - 0915	2	1	3	
0915 - 0930	4	3	7	
0930 - 0945	1	2	3	
0945 - 1000	2	3	5	18
1000 - 1015	3	3	6	
1015 - 1030	3	1	4	
1030 - 1045	2	1	3	
1045 - 1100	5	0	5	18
1100 - 1115	0	3	3	
1115 - 1130	1	3	4	
1130 - 1145	4	0	4	
1145 - 1200	3	2	5	16

Time	Volume Summary 15min		15min Total	60min Total
	EB	WB		
1200 - 1215	8	1	9	
1215 - 1230	2	1	3	
1230 - 1245	4	5	9	
1245 - 1300	9	5	14	35
1300 - 1315	2	4	6	
1315 - 1330	1	4	5	
1330 - 1345	2	2	4	
1345 - 1400	4	0	4	19
1400 - 1415	1	1	2	
1415 - 1430	2	4	6	
1430 - 1445	2	2	4	
1445 - 1500	9	2	11	23
1500 - 1515	3	4	7	
1515 - 1530	2	5	7	
1530 - 1545	2	1	3	
1545 - 1600	9	6	15	32
1600 - 1615	5	3	8	
1615 - 1630	2	4	6	
1630 - 1645	3	5	8	
1645 - 1700	4	6	10	32
1700 - 1715	3	2	5	
1715 - 1730	4	5	9	
1730 - 1745	2	4	6	
1745 - 1800	5	6	11	31
1800 - 1815	5	3	8	
1815 - 1830	6	3	9	
1830 - 1845	7	1	8	
1845 - 1900	1	2	3	28
1900 - 1915	1	2	3	
1915 - 1930	2	0	2	
1930 - 1945	3	0	3	
1945 - 2000	3	5	8	16
2000 - 2015	2	3	5	
2015 - 2030	2	1	3	
2030 - 2045	1	1	2	
2045 - 2100	1	0	1	11
2100 - 2115	2	1	3	
2115 - 2130	4	3	7	
2130 - 2145	0	2	2	
2145 - 2200	0	0	0	12
2200 - 2215	2	1	3	
2215 - 2230	0	1	1	
2230 - 2245	1	0	1	
2245 - 2300	1	0	1	6
2300 - 2315	1	1	2	
2315 - 2330	0	1	1	
2330 - 2345	2	0	2	
2345 - 0000	1	0	1	6

Session Total	188	176	364
Session Average	1.96	1.83	3.79
Session Percentage	51.65	48.35	

Bi-Directional Class Count || Volume Summary 60min



Hall County, GA

Site 1
Antioch Campground Rd,
east of Sardis Rd

Date
Tuesday, August 8, 2023

Weather
Mostly Cloudy
77°F

Lat/Long
34.350509°, -83.887030°

0000 - 2400 (Weekday 24h Session) (08-08-2023)

Volume Summary 60min

Volume Summary 60min			
TIME	EB	WB	Total
0000 - 0100	1	0	1
0100 - 0200	0	0	0
0200 - 0300	0	0	0
0300 - 0400	0	2	2
0400 - 0500	0	2	2
0500 - 0600	1	2	3
0600 - 0700	3	9	12
0700 - 0800	6	13	19
0800 - 0900	9	13	22
0900 - 1000	9	9	18
1000 - 1100	13	5	18
1100 - 1200	8	8	16

Volume Summary 60min			
Time	EB	WB	Total
1200 - 1300	23	12	35
1300 - 1400	9	10	19
1400 - 1500	14	9	23
1500 - 1600	16	16	32
1600 - 1700	14	18	32
1700 - 1800	14	17	31
1800 - 1900	19	9	28
1900 - 2000	9	7	16
2000 - 2100	6	5	11
2100 - 2200	6	6	12
2200 - 2300	4	2	6
2300 - 2400	4	2	6

Session Total	188	176	364
Session Average	7.83	7.33	15.17
Session Percentage	51.65	48.35	

Bi-Directional Class Count || Graphical Analysis NB EB

Hall County, GA

Site 1

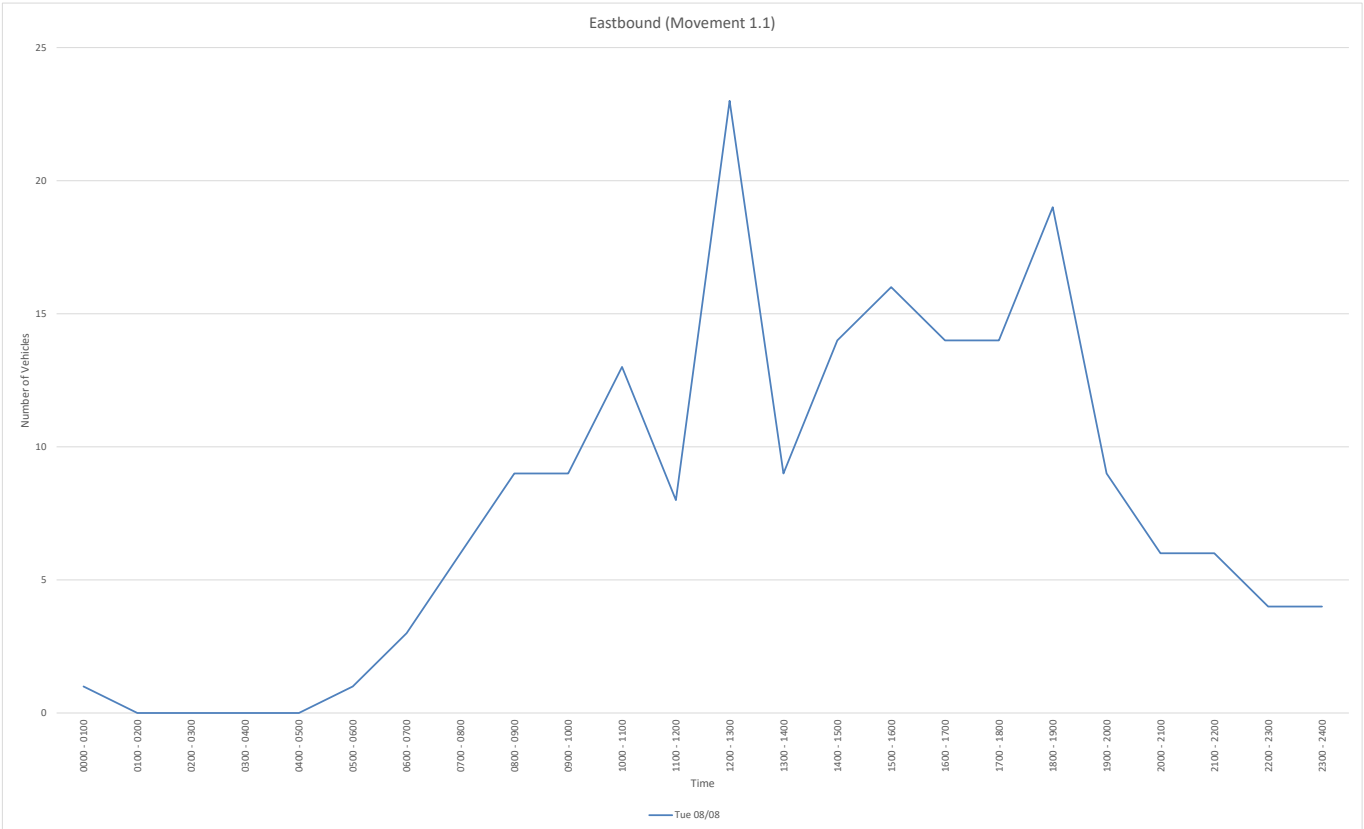
Antioch Campground Rd,
east of Sardis Rd

Lat/Long

34.350509°, -83.887030°

0000 - 2400 (Weekday 24h Session)

Graphical Analysis NB EB



Bi-Directional Class Count || Graphical Analysis SB WB

Hall County, GA

Site 1

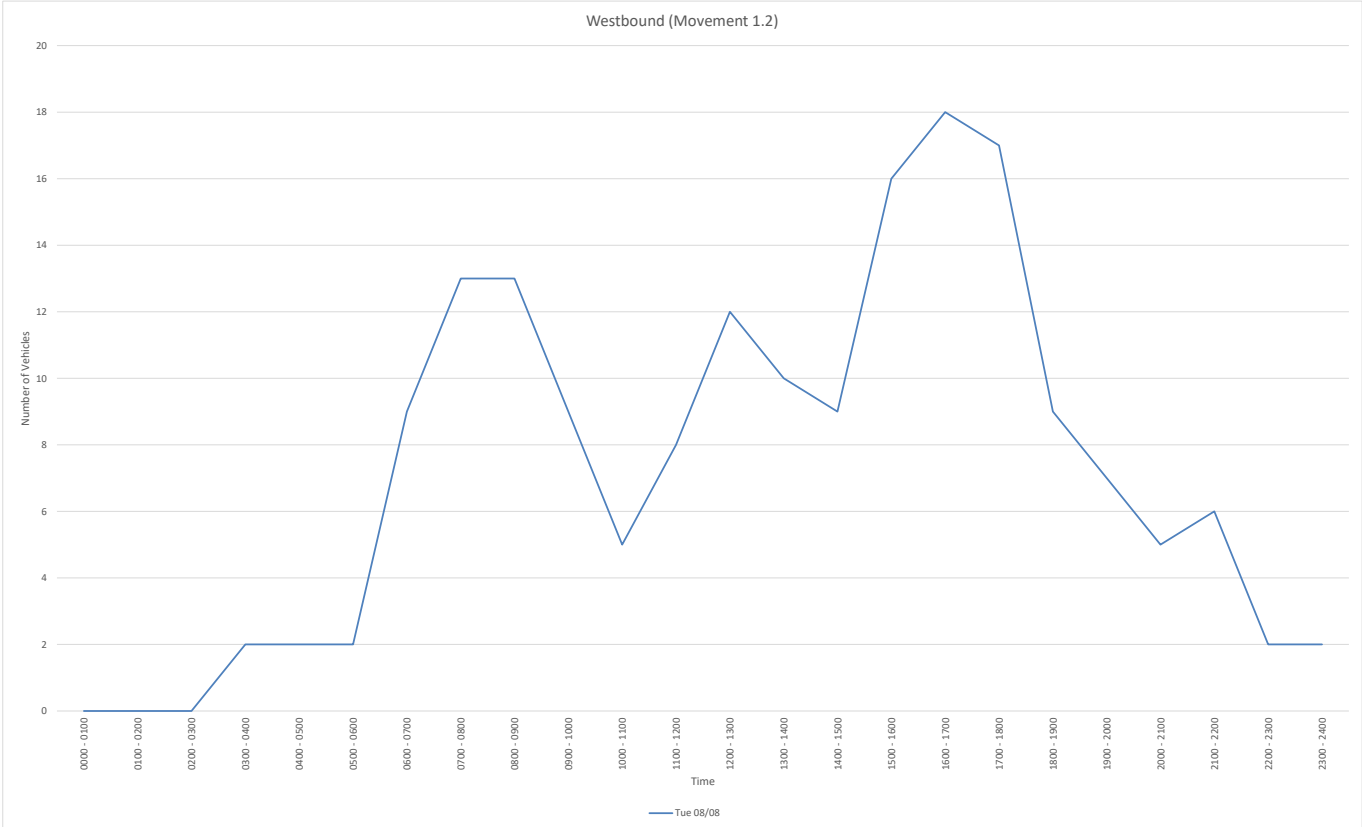
Antioch Campground Rd,
east of Sardis Rd

Lat/Long

34.350509°, -83.887030°

0000 - 2400 (Weekday 24h Session)

Graphical Analysis SB WB



Bi-Directional Class Count || Graphical Analysis BiDir

Hall County, GA

Site 1

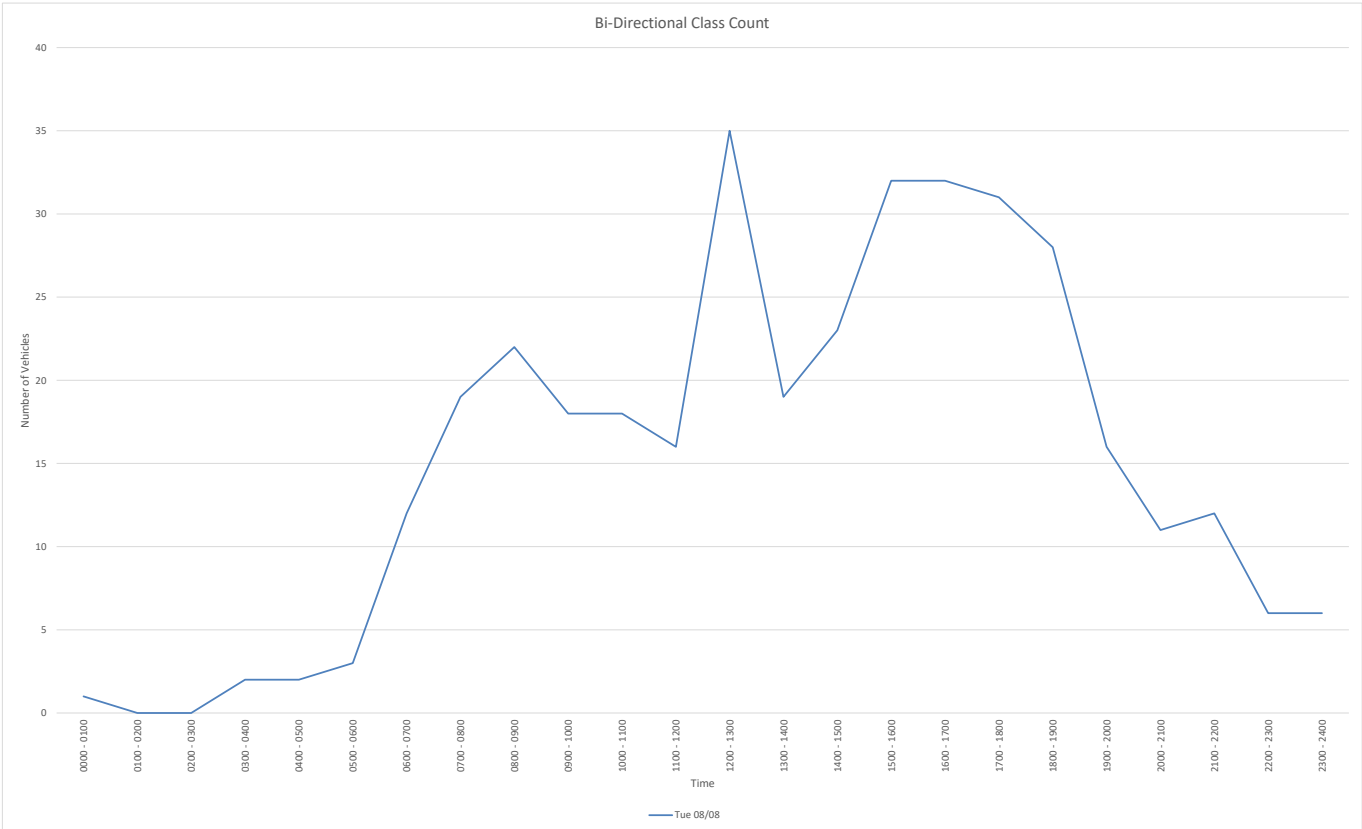
Antioch Campground Rd,
east of Sardis Rd

Lat/Long

34.350509°, -83.887030°

0000 - 2400 (Weekday 24h Session)

Graphical Analysis BiDir



Somerset at Sardis Creek Residential - Growth Rate Calculation Worksheet

Percentage Growth - Traffic Data										
Roadway	County	Traffic Count Station	2018 Traffic Volumes	2019 Traffic Volumes	2020 Traffic Volumes	2021 Traffic Volumes	2022 Traffic Volumes	2023 Traffic Volumes by Linear Regress.	2027 Traffic Volumes by Linear Regress.	Annual Growth 2023 to 2025
Sardis Road	Hall	139-0509	8,350	8,140	7,350	8,010	8,190	7,873	7,693	-0.6%
Ledan Road	Hall	139-0113	5,840	5,840	5,800	6,100	6,170	6,226	6,594	1.5%
Weighted Average			14,190	13,980	13,150	14,110	14,360	14,099	14,287	0.3%

Percentage Growth - US Census Data								
Census Area	2018 Population	2019 Population	2020 Population	2021 Population	2022 Population	2023 Population by Linear Regress.	2026 Population by Linear Regress.	Annual Growth 2023 to 2025
City of Gainesville	41,336	43,233	42,565	43,398	45,282	45,580	47,997	1.8%
Hall County	201,396	204,310	203,735	207,393	212,692	213,608	221,310	1.2%
Weighted Average	242,732	247,543	246,300	250,791	257,974	259,188	269,307	1.3%

APPENDIX C: SYNCHRO REPORTS

Intersection						
Int Delay, s/veh	0.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		B			A
Traffic Vol, veh/h	13	9	253	6	12	634
Future Vol, veh/h	13	9	253	6	12	634
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	6	6	6	13	0	3
Mvmt Flow	14	10	278	7	13	697

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	1004	281	0	0	285
Stage 1	281	-	-	-	-
Stage 2	723	-	-	-	-
Critical Hdwy	6.46	6.26	-	-	4.1
Critical Hdwy Stg 1	5.46	-	-	-	-
Critical Hdwy Stg 2	5.46	-	-	-	-
Follow-up Hdwy	3.554	3.354	-	-	2.2
Pot Cap-1 Maneuver	263	748	-	-	1289
Stage 1	757	-	-	-	-
Stage 2	473	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	259	748	-	-	1289
Mov Cap-2 Maneuver	259	-	-	-	-
Stage 1	757	-	-	-	-
Stage 2	465	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v15.93		0	0.15
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	353	33
HCM Lane V/C Ratio	-	-	0.068	0.01
HCM Control Delay (s/veh)	-	-	15.9	7.8
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	0.2	0

Intersection						
Int Delay, s/veh	0.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Vol, veh/h	5	15	520	8	13	448
Future Vol, veh/h	5	15	520	8	13	448
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	2	7	0	2
Mvmt Flow	5	16	553	9	14	477

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1062	557	0	0	562	0
Stage 1	557	-	-	-	-	-
Stage 2	504	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	250	533	-	-	1020	-
Stage 1	577	-	-	-	-	-
Stage 2	611	-	-	-	-	-
Platoon blocked, %			-	-	-	-
Mov Cap-1 Maneuver	245	533	-	-	1020	-
Mov Cap-2 Maneuver	245	-	-	-	-	-
Stage 1	577	-	-	-	-	-
Stage 2	599	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	14.21	0	0.24
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	412	51
HCM Lane V/C Ratio	-	-	0.052	0.014
HCM Control Delay (s/veh)	-	-	14.2	8.6
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	0.2	0

Intersection						
Int Delay, s/veh	0.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		T			T
Traffic Vol, veh/h	14	10	268	6	13	673
Future Vol, veh/h	14	10	268	6	13	673
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	6	6	6	13	0	3
Mvmt Flow	15	11	295	7	14	740

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1066	298	0	0	301	0
Stage 1	298	-	-	-	-	-
Stage 2	768	-	-	-	-	-
Critical Hdwy	6.46	6.26	-	-	4.1	-
Critical Hdwy Stg 1	5.46	-	-	-	-	-
Critical Hdwy Stg 2	5.46	-	-	-	-	-
Follow-up Hdwy	3.554	3.354	-	-	2.2	-
Pot Cap-1 Maneuver	242	732	-	-	1271	-
Stage 1	744	-	-	-	-	-
Stage 2	451	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	237	732	-	-	1271	-
Mov Cap-2 Maneuver	237	-	-	-	-	-
Stage 1	744	-	-	-	-	-
Stage 2	442	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v16.84		0	0.15
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	330	34
HCM Lane V/C Ratio	-	-	0.08	0.011
HCM Control Delay (s/veh)	-	-	16.8	7.9
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	0.3	0

Intersection						
Int Delay, s/veh	0.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		B			A
Traffic Vol, veh/h	5	16	552	8	14	475
Future Vol, veh/h	5	16	552	8	14	475
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	2	7	0	2
Mvmt Flow	5	17	587	9	15	505

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1127	591	0	0	596	0
Stage 1	591	-	-	-	-	-
Stage 2	535	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	228	510	-	-	991	-
Stage 1	557	-	-	-	-	-
Stage 2	591	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	224	510	-	-	991	-
Mov Cap-2 Maneuver	224	-	-	-	-	-
Stage 1	557	-	-	-	-	-
Stage 2	579	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	14.76	0	0.25
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	391	52
HCM Lane V/C Ratio	-	-	0.057	0.015
HCM Control Delay (s/veh)	-	-	14.8	8.7
HCM Lane LOS	-	-	B	A
HCM 95th %tile Q(veh)	-	-	0.2	0

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		B			A
Traffic Vol, veh/h	26	21	268	12	18	673
Future Vol, veh/h	26	21	268	12	18	673
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	6	6	6	13	0	3
Mvmt Flow	29	23	295	13	20	740

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	1080	301	0	0	308
Stage 1	301	-	-	-	-
Stage 2	779	-	-	-	-
Critical Hdwy	6.46	6.26	-	-	4.1
Critical Hdwy Stg 1	5.46	-	-	-	-
Critical Hdwy Stg 2	5.46	-	-	-	-
Follow-up Hdwy	3.554	3.354	-	-	2.2
Pot Cap-1 Maneuver	237	729	-	-	1264
Stage 1	742	-	-	-	-
Stage 2	445	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	231	729	-	-	1264
Mov Cap-2 Maneuver	231	-	-	-	-
Stage 1	742	-	-	-	-
Stage 2	434	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	17.82	0	0.21
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	332	47
HCM Lane V/C Ratio	-	-	0.155	0.016
HCM Control Delay (s/veh)	-	-	17.8	7.9
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	0.5	0

Intersection						
Int Delay, s/veh	3.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	17	5	3	19	23	1
Future Vol, veh/h	17	5	3	19	23	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	5	3	21	25	1

Major/Minor	Major1	Major2	Minor1		
Conflicting Flow All	0	0	24	0	48
Stage 1	-	-	-	-	21
Stage 2	-	-	-	-	27
Critical Hdwy	-	-	4.12	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.218	-	3.518
Pot Cap-1 Maneuver	-	-	1591	-	961
Stage 1	-	-	-	-	1001
Stage 2	-	-	-	-	995
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1591	-	959
Mov Cap-2 Maneuver	-	-	-	-	959
Stage 1	-	-	-	-	1001
Stage 2	-	-	-	-	993

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.99	8.84
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	963	-	-	245	-
HCM Lane V/C Ratio	0.027	-	-	0.002	-
HCM Control Delay (s/veh)	8.8	-	-	7.3	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Intersection						
Int Delay, s/veh	1.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	12	6	0	22	0	5
Future Vol, veh/h	12	6	0	22	0	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Free	-	None	-	Stop
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	13	7	0	24	0	5

Major/Minor	Major1	Major2	Minor1
Conflicting Flow All	0	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	-	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	-	-	-
Pot Cap-1 Maneuver	-	0	0
Stage 1	-	0	0
Stage 2	-	0	0
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	8.39
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	1067	-	-
HCM Lane V/C Ratio	0.005	-	-
HCM Control Delay (s/veh)	8.4	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0	-	-

Intersection						
Int Delay, s/veh	0.8					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	Y		B			A
Traffic Vol, veh/h	13	23	552	20	26	475
Future Vol, veh/h	13	23	552	20	26	475
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	2	7	0	2
Mvmt Flow	14	24	587	21	28	505

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1159	598	0	0	609	0
Stage 1	598	-	-	-	-	-
Stage 2	561	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	219	506	-	-	980	-
Stage 1	553	-	-	-	-	-
Stage 2	575	-	-	-	-	-
Platoon blocked, %			-	-	-	-
Mov Cap-1 Maneuver	210	506	-	-	980	-
Mov Cap-2 Maneuver	210	-	-	-	-	-
Stage 1	553	-	-	-	-	-
Stage 2	553	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	17.11	0	0.46
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT
Capacity (veh/h)	-	-	335	93
HCM Lane V/C Ratio	-	-	0.114	0.028
HCM Control Delay (s/veh)	-	-	17.1	8.8
HCM Lane LOS	-	-	C	A
HCM 95th %tile Q(veh)	-	-	0.4	0.1

Intersection						
Int Delay, s/veh	2.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	27	12	6	18	15	1
Future Vol, veh/h	27	12	6	18	15	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	13	7	20	16	1

Major/Minor	Major1	Major2	Minor1	Minor2	Minor3
Conflicting Flow All	0	0	42	0	68
Stage 1	-	-	-	-	36
Stage 2	-	-	-	-	33
Critical Hdwy	-	-	4.12	-	6.42
Critical Hdwy Stg 1	-	-	-	-	5.42
Critical Hdwy Stg 2	-	-	-	-	5.42
Follow-up Hdwy	-	-	2.218	-	3.518
Pot Cap-1 Maneuver	-	-	1567	-	936
Stage 1	-	-	-	-	987
Stage 2	-	-	-	-	990
Platoon blocked, %	-	-	-	-	-
Mov Cap-1 Maneuver	-	-	1567	-	932
Mov Cap-2 Maneuver	-	-	-	-	932
Stage 1	-	-	-	-	987
Stage 2	-	-	-	-	986

Approach	EB	WB	NB
HCM Control Delay, s/v	0	1.83	8.91
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	938	-	-	450	-
HCM Lane V/C Ratio	0.019	-	-	0.004	-
HCM Control Delay (s/veh)	8.9	-	-	7.3	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Intersection						
Int Delay, s/veh	0.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	16	12	0	24	0	3
Future Vol, veh/h	16	12	0	24	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Free	-	None	-	Stop
Storage Length	-	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	17	13	0	26	0	3

Major/Minor	Major1	Major2	Minor1
Conflicting Flow All	0	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	-	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	-	-	-
Pot Cap-1 Maneuver	-	0	0
Stage 1	-	0	0
Stage 2	-	0	0
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	-	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	8.4
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	WBT
Capacity (veh/h)	1061	-	-
HCM Lane V/C Ratio	0.003	-	-
HCM Control Delay (s/veh)	8.4	-	-
HCM Lane LOS	A	-	-
HCM 95th %tile Q(veh)	0	-	-

APPENDIX D: TURN LANE EVALUATIONS

Site Driveway 1

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

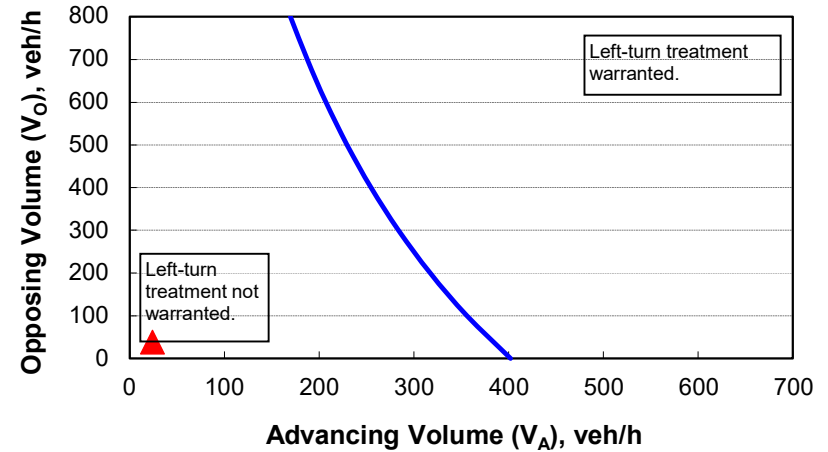
2-lane roadway (English)

INPUT

Variable	Value
85 th percentile speed, mph:	40
Percent of left-turns in advancing volume (V_A), %:	25%
Advancing volume (V_A), veh/h:	24
Opposing volume (V_O), veh/h:	39

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	383
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

Site Driveway 1

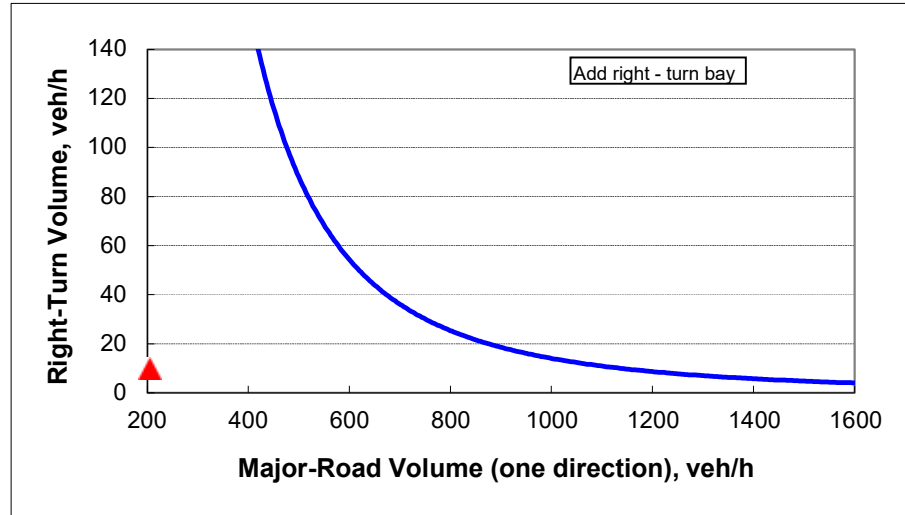
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	2-lane roadway	
Variable	Value	
Major-road speed, mph:	40	
Major-road volume (one direction), veh/h:	39	
Right-turn volume, veh/h:	12	

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	74086
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



Site Driveway 2

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

Roadway geometry:	2-lane roadway	
Variable	Value	
Major-road speed, mph:	40	
Major-road volume (one direction), veh/h:	38	
Right-turn volume, veh/h:	12	

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	79347
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	

