# SIGNAL WARRANT STUDY 

State Road 551 at Azalea Cove Circle
Section 75200
M.P. 5.731

Orange County
Prepared for:

## FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 5 TRAFFIC OPERATIONS

719 South Woodland Boulevard, MS 3-562
DeLand, Florida 32720


Continuing Service Contract for Traffic Operations Financial Project Identification Number: 237974-1-32-15

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Study: 2

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## EXECUTIVE SUMMARY

A Traffic Signal Warrant Study was conducted for the intersection of State Road (S.R.) 551 at Azalea Cove Circle located in Orlando (Orange County), Florida to determine if a traffic signal should be installed. Based on the data collected, signal warrant analysis, field observations and engineering judgment, a traffic signal is not recommended at the intersection of the S.R. 551 and Azalea Cove Circle. It is recommended that the Islamic Society of Central Florida consider refreshing the arrow pavement markings and straightening the stop sign on the westbound approach.

## INTRODUCTION

Traffic Engineering Data Solutions, Inc. (TEDS) was retained on behalf of the Florida Department of Transportation (FDOT) to conduct a Traffic Signal Warrant Study at the intersection of S.R. 551 at Azalea Cove Circle. The study intersection is located in Orlando (Orange County), Florida as shown below in Figure 1.
The study was initiated after a citizen expressed concern that a bi-directional median opening would not appropriately serve the intersection. The analysis methods used in completing this study are consistent with the Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD), FDOT Manual on Uniform Traffic Studies (MUTS), FDOT Traffic Engineering Manual (TEM), and engineering judgment. This report documents existing conditions, vehicle / pedestrian / bicycle counts, crash analysis, qualitative assessment, signal warrant analysis, and recommendations.

Figure 1
General Location Map
S.R. 551 at Azalea Cove Circle


## EXISTING CONDITIONS

S.R. 551 (North Goldenrod Road) is a north-south arterial that extends approximately 9 miles north from S.R. 15 (Hoffner Avenue), through the study intersection, to Aloma Avenue. At the study intersection, S.R. 551 is an undivided five-lane arterial (curb and gutter) with two (2) northbound lanes, two (2) southbound lanes, one (1) continuous center two-way left-turn lane, and sidewalks on both sides of the roadway. West of the study intersection, Azalea Cove Circle is an undivided two-lane local road (curb and gutter) and serves the Azalea Cove residential community. East of the study intersection is the entrance/exit driveway to the Islamic Society of Central Florida Mosque and school. A location aerial is shown below in Figure 2.

Figure 2
General Location Aerial S.R. 551 at Azalea Cove Circle


Source: Google Earth
Table 1 on the following page summarizes the existing conditions for the study location. An existing condition diagram (Figure 3) and photographs of the study location are included within this study. A straight line diagram is also included in the Appendix.

Table 1
Existing Conditions
S.R. 551 at Azalea Cove Circle

| Feature | Description |
| :---: | :---: |
| Main Street | - S.R. 551 (North Goldenrod Road) |
| Side Street | - Azalea Cove Circle |
| Area Location | - Orlando (Orange County), Florida |
| Adjacent Land Uses | - Northwest: Azalea Cove Residential Community <br> - Northeast: Islamic Society of Central Florida <br> - Southwest: Azalea Cove Residential Community <br> - Southeast: Islamic Society of Central Florida |
| Traffic Control | - Two-way STOP-sign controlled with S.R. 551 having the right-of-way |
| Adjacent Signalized Intersections | - South: Valencia College Lane -0.30 miles <br> - North: S.R. 50 (Colonial Drive) -0.70 miles <br> - West: None <br> - East: None |
| S.R. 551 | - Cross Section: Five (5) lane undivided arterial with curb and gutter <br> - Posted Speed Limit: 45 mph <br> - AADT: 36,000 vehicles per day (year 2017) <br> - Northbound Approach Lanes: Two (2) through lanes and one (1) center two-way left-turn lane <br> - Southbound Approach Lanes: Two (2) through lanes and one (1) center two-way left-turn lane <br> - Pedestrian Crossings: None <br> - Alignment: Tangent <br> - Sidewalks: Along both sides of the roadway <br> - Utilities: Along the east side of the roadway <br> - Street Lighting: Luminaires along both sides of the roadway |
| Azalea Cove Circle | - Cross Section: Two-lane undivided local road <br> - Posted Speed Limit: 25 mph <br> - AADT: N/A <br> - Eastbound Approach Lanes: One (1) shared left-turn/through lane and one (1) right-turn lane <br> - Pedestrian Crossings: North-to-south marked pedestrian crossing <br> - Sidewalks: Sidewalks along both sides of the roadway <br> - Utilities: None <br> - Street Lighting: One (1) residential luminaire on the north side of the roadway |
| Islamic Society of Central Florida Driveway | - Cross Section: Two-lane undivided driveway <br> - Posted Speed Limit: N/A <br> - AADT: N/A <br> - Westbound Approach Lanes: One (1) left-turn lane and two (2) rightturn lanes <br> - Pedestrian Crossings: North-to-south unmarked pedestrian crossing <br> - Sidewalks: None <br> - Utilities: None <br> - Street Lighting: Along both sides of the driveway |



## Northbound Approach Photographs

S.R. 551 at Azalea Cove Circle


Looking North Towards Intersection


Looking South Away From Intersection

## Southbound Approach Photographs

S.R. 551 at Azalea Cove Circle


Looking South Towards Intersection


Looking North Away From Intersection

## Eastbound Approach Photographs

S.R. 551 at Azalea Cove Circle


Looking East Towards Intersection


Looking West Away From Intersection

## Westbound Approach Photographs

S.R. 551 at Azalea Cove Circle


Looking West Towards Intersection


Looking East Away From Intersection

## Traffic Volumes

Twenty-four hour approach counts were conducted at the study intersection on all four (4) approaches. According to these counts, the intersection had a daily traffic volume of 35,610 vehicles that entered the intersection consisting of 17,192 northbound vehicles; 16,953 southbound vehicles; 576 eastbound vehicles; and 889 westbound vehicles.

Based on a review of the twenty-four hour count data, eight (8) hours of manual turning movement counts were collected from 7:00 to 9:00 a.m. and 1:00 to 7:00 p.m. on a weekday.

- The intersection morning peak hour occurred from 7:45 to 8:45 a.m., while the afternoon peak hour occurred from 5:00 to 6:00 p.m. As summarized below in Figure 4, 2,719 and 2,717 vehicles were counted entering the intersection during the morning and afternoon peak hours, respectively, with the following characteristics:

Figure 4
Summary of Peak-Hour Turning Movements S.R. 551 at Azalea Cove Circle


6-7:45 a.m. to 8:45 a.m. Pk-Hr Volume
(12) - 5:00 p.m. to 6:00 p.m. Pk-Hr Volume

- 37 pedestrians and 23 bicyclists were observed traversing the intersection during the manually collected turning movement counts (see Figure 5). A Pedestrian Movement Summary and a Bicycle Movement Summary are provided in the Appendix.
- During the eight (8) hours of manually collected turning movement counts, heavy trucks, which include single unit trucks such as delivery trucks (Class 5 to 7) and tractor-trailer trucks (Class 8 to 15), accounted for approximately $1.7 \%$ of the traffic passing through the intersection.

Summaries of vehicle, pedestrian, and bicycle movements; approach count data; and manually collected turning movement count data are provided in the Appendix.

Figure 5
Summary of Eight-Hour Pedestrian/Bicycle Volumes
S.R. 551 at Azalea Cove Circle


## Collision Analysis

Crash data for the study intersection for a 12-month period (April 1, 2017 to March 31, 2018) was obtained from FDOT's CAR database and the University of Florida's Signal Four Analytics. Within this 12-month period there were three (3) crashes reported consisting of the following crash types:

- Two (2) angle; and
- One (1) pedestrian
- The crashes resulted in zero (0) fatalities, two (2) injuries, and \$29,000 in estimated property damage.
- All three (3) crashes occurred during the day.
- All three (3) of the crashes occurred under dry pavement conditions.
- Two (2) angle crashes occurred when westbound vehicles exiting the Islamic Society of Central Florida were struck by northbound vehicles on S.R. 551. Both crashes noted the westbound left-turning drivers failed to yield the right-of-way of the northbound through drivers. The crashes resulted in one (1) possible injury.
- One (1) pedestrian crash occurred when a northbound pedestrian on a skateboard crashed into an eastbound right-turning vehicle. The non-motorist suffered possible injuries.

Two (2) crashes would be considered correctable with the installation of a traffic signal or median modifications as proposed. Crash data was reviewed for the time period from January 1, 2015 through July 31, 2018 and one (1) angle crash occurred in 2015. No additional angle or left-turn crashes have been reported at this intersection during this time period.

Table 2
Summary of Collision Data

## S.R. 551 at Azalea Cove Circle



Source: Florida Department of Transportation CAR Database and University of Florida's Signal Four Analytics


## Intersection Delay

Intersection delay studies were performed for the westbound approach for the Islamic Society of Central Florida driveway. Procedures from the Manual on Uniform Traffic Studies (MUTS) were applied to determine the summarized results presented in Table 3.

Table 3
Summary of Delay Studies
S.R. 551 at Azalea Cove Circle

| Movement | Time | Maximum <br> Queue <br> (Veh) | Average <br> Delay per <br> Vehicle <br> (Sec) | Volume <br> (Veh/Hr) | Total <br> Delay <br> (Veh-Sec) | Total <br> Delay <br> (Veh-Hr) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $8: 00-9: 00 \mathrm{AM}$ | 4 | 44.0 | 63 | 2,769 | 0.78 |
|  | $3: 00-4: 00 \mathrm{PM}$ | 6 | 47.4 | 58 | 2,749 | 0.82 |
|  | $5: 00-6: 00 \mathrm{PM}$ | 5 | 52.1 | 29 | 1,512 | 0.45 |

Generally, an average delay in excess of 60 seconds is considered excessive at an unsignalized intersection and what could typically be expected if the intersection were signalized. As shown in Table 3, the average delay for the westbound approach ranged from 44.0 seconds per vehicle to 52.1 seconds per vehicle. The maximum delay that was recorded for the westbound approach was 178 seconds. A total of 49 westbound approach vehicles experienced delay in excess of 60 seconds.

## QUALITATIVE ASSESSMENT

The intersection of S.R. 551 and Azalea Cove Circle was observed during the peak hours by a registered Professional Engineer to assess existing operating conditions and to determine if installing a traffic signal would be potentially beneficial. The following conditions were observed:

## Operations:

Observations: The following observations were made with respect to the operations of the study intersection:
General observations:

- S.R. 551 serves as a north/south arterial roadway while Azalea Cove Circle serves a residential neighborhood to the west and the driveway serves the Islamic Society of Central Florida Mosque and school (including Horizons Child Care and Leader's Preparatory School) to the east.
- S.R. 551 provides access to commercial businesses and local streets north and south of the study intersection.
- The nearest signalized intersections are located at Valencia College Lane (0.30 miles south) and S.R. 50 ( 0.70 miles north).
- Overall, sight distance is adequate for all motorists traveling in all directions. No issues were observed due to sight distance at the intersection.
- Northbound and southbound traffic on S.R. 551 traveled in well-defined platoons, with frequent concurrent gaps due to the adjacent signal spacing. Traffic queues from S.R. 50 were observed extended to just north of the study intersection, however did not block the intersections.
- SCHOOL ENTRANCE signs are mounted north and south of the study intersection.
- The northbound and southbound left-turning movements are low, averaging 11 and 26 vehicles per hour (vph) over the eight (8) hour count period for the northbound and southbound left-turns, respectively. A peak of over 40 southbound left-turns occurred during the school morning arrival (7:45 to 8:15 a.m.) and afternoon dismissal (3:00 to $3: 15$ p.m.) periods. A maximum queue of six (6) vehicles was observed during the morning arrival period and two (2) vehicles during the afternoon dismissal period. No conflicts were noted with the northbound and southbound leftturn movements.
- Westbound left-turn movements were typically completed in one movement while using the center two-way left-turn lane to accelerate and enter the southbound traffic stream. No issues or conflicts were noted with this merging action, however some drivers appeared to make their turn within small gaps in approaching northbound traffic. No evasive maneuvers were observed with this.
- The westbound left and right-turning movements were nearly similar, averaging 26 vph during the 8 -hour count period. A peak of 61 westbound left-turns and 64 rightturns occurred during the school morning arrival (7:45 to 8:15 a.m.) and another peak of 57 westbound left-turns and 51 right-turns occurred during the afternoon dismissal (3:00 to $3: 15$ p.m.) period. The maximum observed queues for the westbound left-turn was six (6) vehicles in the morning peak and 11 vehicles during the afternoon peak. The maximum observed queues for the westbound right-turn
lanes was four (4) vehicles during the morning peak and two (2) vehicles during the afternoon peak. Westbound queues dissipated quickly, within 15 minutes.
- There are two westbound right-turn lanes provided at the driveway. Most drivers were observed using the outside right-turn lane during the morning peak period and were equally distributed into both right-turn lanes during the afternoon peak period. No issues were observed with the dual right-turn lanes.
- Eastbound volumes were low, averaging 13 vph and 14 vph during the 8 -hour count period for the left and right-turn movements, respectively. Delay was observed to be minimal. A maximum queue of two (2) vehicles was observed for the eastbound leftturn movement during both morning and afternoon peak periods.
- Eastbound right-turns were completed without conflict. There were two instances of an eastbound right-turning driver completing their turn, immediately making a U-turn at the driveway located approximately 200 feet south of the intersection and finally turning right (northbound) into the Islamic Society's driveway. This action was completed in lieu of an eastbound through movement at the study intersection. No conflicts were noted.
- Similar to the westbound left-turn movement, eastbound left-turn movements were completed in one movement, using the center two-way left-turn lane to accelerate and enter the northbound traffic stream. There were two instances observed during the morning peak hour where the eastbound left-turning driver did not wait for the southbound left-turning queues to clear and travelled northbound in the southbound travel lanes to access the center two-way left-turn lane. No conflicts were observed due to the lack of southbound approaching traffic at the time.
- While left-turn delays were occasionally observed to be in excess of 60 seconds, the majority of these delays occurred during short periods of the morning and afternoon peak hours (8:00 to 8:15 a.m. and 3:00 to 3:30 p.m.) and were attributed to the school arrival and dismissal periods.
- An elementary school bus stop is located on the northwest corner of the intersection. Approximately 10 kids and parents were observed on the corner waiting for the bus arrival at 8:05 a.m. No conflicts were observed with the bus stop location. Eastbound and westbound left-turning traffic experienced longer delays as the bus left the stop due to longer queues that had developed along S.R. 551. These queues dissipated quickly and drivers were able to find adequate gaps to complete their movements.
- Traffic was observed to generally travel at the $45-\mathrm{mph}$ posted speed limit along S.R. 551.
- Observed pedestrian and bicycle activity was consistent with the 8 -hour turning movement counts.


## Safety:

The following observations were made with respect to the safety of the study intersection:

- No signs of skid marks, broken glass, plastic, or other indication of a crash were observed at the intersection.


## Maintenance:

During the field reviews the condition of the study intersection's asphalt, striping, and signing were observed to be in good condition with the exception of the westbound approach. The stop sign is crooked and the arrow pavement markings are worn on the westbound approach. This driveway is private property and the Islamic Society of Central Florida should consider refreshing the arrow pavement markings and straightening the stop sign.

It should be noted there is a future roadway project (FPID 437634-1) for S.R. 551, from S.R. 408 to S.R. 50. This project will consist of milling and resurfacing, widening for bike lanes, construct a raised median, traffic signal upgrades, drainage improvements, lighting and landscaping. The current design plans include a two-way directional median opening being provided at the study intersection. This improvement can be expected to reduce the conflicts between eastbound/westbound left-turning traffic and northbound/southbound approaching vehicles. According to CFLRoads.com, the project is currently under design and scheduled for construction letting in April 2021.

## SIGNAL WARRANT ANALYSIS

The traffic volumes, geometric conditions, and crash data at the intersection were analyzed, summarized, and then compared with the warrants for the installation of a traffic signal contained within the Manual on Uniform Traffic Control Devices (MUTCD 2009) and Manual on Uniform Traffic Studies (MUTS).
Upon conducting the Signal Warrant Analysis, the northbound and southbound approaches on S.R. 551 were used as the major street, and the westbound approach for the Islamic Society of Central Florida driveway was used as the minor street. For the purposes of the warrant analysis, the major street was treated as a two-lane approach. Because separate westbound right-turn lanes are provided and motorists experience relatively minimal delay at the intersection, the eastbound right-turn volumes were not included in the warrant analysis. Therefore, the minor street was treated as a one-lane approach. Finally, based on the critical speed of 45 mph on S.R. 551, the $70 \%$ volume criteria were applied to the analysis.
When considering crash history for the signal warrant analysis, during the 12-month period from April 1, 2017 to March 31, 2018 there were two (2) crashes susceptible to correction by the installation of a traffic signal. Table 4 summarizes the results of the warrant analysis. The signal warrant analysis worksheets for the study intersection are also provided on the following pages.

Table 4 Signal Warrant Analysis Summary S.R. 551 at Azalea Cove Circle

| Warrant |  | Applicable | Satisfied | Comments |
| :---: | :---: | :---: | :---: | :---: |
| 1A | Minimum Vehicular Volume | Yes | No | This warrant is not met as the volumes did not meet the threshold for any of the eight (8) hours |
| 1B | Interruption of Continuous Traffic | No | N/A | This warrant is not applicable as the minor street does not experience excessive delay. |
| 2 | Four Hour Vehicular Volume | Yes | No | The traffic volumes did not meet the requirements of this warrant (must be met for any four (4) hours of an average day). |
| 3A | Peak Hour Delay | No | N/A | This warrant is not applicable. |
| 3B | Peak Hour Volume | No | N/A | This warrant is not applicable. |
| 4 | Pedestrian Volume | Yes | No | The pedestrian volumes do not satisfy this warrant. |
| 5 | School Crossing | Yes | No | This warrant was not met as the volume of students attempting to cross S.R. 551 does not meet the threshold. (Two students crossed, warrant requires 20.) |
| 6 | Coordinated Signal System | No | N/A | This warrant is not applicable as this intersection is not considered to be part of a coordinated network. |
| 7 | Crash Experience | Yes | No | Two (2) crashes occurred within a 12-month period that were potentially correctable by a traffic signal, which is below the threshold of five (5) potentially correctable crashes in a 12month period. |
| 8 | Roadway Network | No | N/A | This warrant is not applicable as this intersection is not considered to be part of a coordinated network. |
| 9 | Railroad Crossing | No | N/A | This warrant is not applicable as there is no railroad crossing near the study intersection. |

Based on the signal warrant analysis, no warrants are currently met for consideration of the installation of a traffic signal at the intersection of S.R. 551 at Azalea Cove Circle.


Source: Revised from NCHRP Report 457


Source: Revised from NCHRP Report 457


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Source: Revised from NCHRP Report 457


[^1]

## RECOMMENDATIONS

Based on the data collected, signal warrant analysis, field observations and engineering judgment, it is not recommended that a traffic signal be installed at the intersection of S.R. 551 and Azalea Cove Circle. The following improvements, as shown in Figure 7, are recommended for the S.R. 551 at Azalea Cove Circle intersection located in Orlando (Orange County), Florida:

- It is recommended the Islamic Society of Central Florida consider refreshing the arrow pavement markings and straightening the stop sign on the westbound approach.



## APPENDIX




State Road 551 at Azalea Cove Circle
24 Hour Approach Counts (Hourly)

| TIME | North | South | N/S <br> TOTAL | East | West | E/W <br> TOTAL | GRAND <br> TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{2 4 - 1}$ | 142 | 132 | $\mathbf{2 7 4}$ | 4 | 0 | $\mathbf{4}$ | $\mathbf{2 7 8}$ |
| $\mathbf{1 - 2}$ | 95 | 92 | $\mathbf{1 8 7}$ | 1 | 0 | $\mathbf{1}$ | $\mathbf{1 8 8}$ |
| $\mathbf{2 - 3}$ | 59 | 89 | $\mathbf{1 4 8}$ | 1 | 0 | $\mathbf{1}$ | $\mathbf{1 4 9}$ |
| $\mathbf{3 - 4}$ | 94 | 98 | $\mathbf{1 9 2}$ | 1 | 0 | $\mathbf{1}$ | $\mathbf{1 9 3}$ |
| $\mathbf{4 - 5}$ | 145 | 151 | $\mathbf{2 9 6}$ | 2 | 0 | $\mathbf{2}$ | $\mathbf{2 9 8}$ |
| $\mathbf{5 - 6}$ | 452 | 416 | $\mathbf{8 6 8}$ | 10 | 8 | $\mathbf{1 8}$ | $\mathbf{8 8 6}$ |
| $\mathbf{6 - 7}$ | 830 | 798 | $\mathbf{1 6 2 8}$ | 20 | 32 | $\mathbf{5 2}$ | $\mathbf{1 6 8 0}$ |
| $\mathbf{7 - 8}$ | 1210 | 1027 | $\mathbf{2 2 3 7}$ | 50 | 39 | $\mathbf{8 9}$ | $\mathbf{2 3 2 6}$ |
| $\mathbf{8 - 9}$ | 1297 | 954 | $\mathbf{2 2 5 1}$ | 43 | 156 | $\mathbf{1 9 9}$ | $\mathbf{2 4 5 0}$ |
| $\mathbf{9 - 1 0}$ | 1019 | 795 | $\mathbf{1 8 1 4}$ | 26 | 20 | $\mathbf{4 6}$ | $\mathbf{1 8 6 0}$ |
| $\mathbf{1 0 - 1 1}$ | 904 | 784 | $\mathbf{1 6 8 8}$ | 38 | 13 | $\mathbf{5 1}$ | $\mathbf{1 7 3 9}$ |
| $\mathbf{1 1 - 1 2}$ | 924 | 918 | $\mathbf{1 8 4 2}$ | 27 | 17 | $\mathbf{4 4}$ | $\mathbf{1 8 8 6}$ |
| $\mathbf{1 2 - 1 3}$ | 991 | 1002 | $\mathbf{1 9 9 3}$ | 26 | 15 | $\mathbf{4 1}$ | $\mathbf{2 0 3 4}$ |
| $\mathbf{1 3 - 1 4}$ | 1030 | 1002 | $\mathbf{2 0 3 2}$ | 33 | 35 | $\mathbf{6 8}$ | $\mathbf{2 1 0 0}$ |
| $\mathbf{1 4 - 1 5}$ | 1040 | 1131 | $\mathbf{2 1 7 1}$ | 43 | 30 | $\mathbf{7 3}$ | $\mathbf{2 2 4 4}$ |
| $\mathbf{1 5 - 1 6}$ | 1057 | 1145 | $\mathbf{2 2 0 2}$ | 49 | 154 | $\mathbf{2 0 3}$ | $\mathbf{2 4 0 5}$ |
| $\mathbf{1 6 - 1 7}$ | 1133 | 1238 | $\mathbf{2 3 7 1}$ | 28 | 42 | $\mathbf{7 0}$ | $\mathbf{2 4 4 1}$ |
| $\mathbf{1 7 - 1 8}$ | 1264 | 1247 | $\mathbf{2 5 1 1}$ | 35 | 86 | $\mathbf{1 2 1}$ | $\mathbf{2 6 3 2}$ |
| $\mathbf{1 8 - 1 9}$ | 1070 | 1123 | $\mathbf{2 1 9 3}$ | 23 | 69 | $\mathbf{9 2}$ | $\mathbf{2 2 8 5}$ |
| $\mathbf{1 9 - 2 0}$ | $\mathbf{7 8 9}$ | 807 | $\mathbf{1 5 9 6}$ | 27 | 65 | $\mathbf{9 2}$ | $\mathbf{1 6 8 8}$ |
| $\mathbf{2 0 - 2 1}$ | 594 | 749 | $\mathbf{1 3 4 3}$ | 21 | 64 | $\mathbf{8 5}$ | $\mathbf{1 4 2 8}$ |
| $\mathbf{2 1 - \mathbf { 2 2 }}$ | 494 | 609 | $\mathbf{1 1 0 3}$ | 19 | 44 | $\mathbf{6 3}$ | $\mathbf{1 1 6 6}$ |
| $\mathbf{2 2 - \mathbf { 2 3 }}$ | 349 | 418 | $\mathbf{7 6 7}$ | 47 | 0 | $\mathbf{4 7}$ | $\mathbf{8 1 4}$ |
| $\mathbf{2 3 - 2 4}$ | 210 | 228 | $\mathbf{4 3 8}$ | 2 | 0 | $\mathbf{2}$ | $\mathbf{4 4 0}$ |
|  | $\mathbf{1 7 , 1 9 2}$ | $\mathbf{1 6 , 9 5 3}$ | $\mathbf{3 4 , 1 4 5}$ | $\mathbf{5 7 6}$ | $\mathbf{8 8 9}$ | $\mathbf{1 , 4 6 5}$ | $\mathbf{3 5 , 6 1 0}$ |

FLORIDA DEPARTMENT OF TRANSPORTATION

## SUMMARY OF VEHICLE MOVEMENTS



## PEDESTRIAN MOVEMENT SUMMARY

| SECTION | 75200 | CITY Orlando |
| :--- | :--- | :---: | :---: |
| STATE ROUTE | State Road 551 | COUNTY Orange |
| OBSERVER | TEDS | INTERSECTING ROUTE Azalea Cove Circle |
|  | DATE $8 / 28 / 2018$ |  |

REMARKS $\qquad$
FORM COMPLETED BY TSH
DATE 09/05/18

|  | West side of |  |  | East side of |  |  | North side of |  |  | South side of |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U | State Road 551 |  |  | State Road 551 |  |  | Azalea Cove Circle |  |  | Azalea Cove Circle |  |  |
| S | NB | SB | TOTAL | NB | SB | TOTAL | EB | WB | TOTAL | EB | WB | TOTAL |
| 7:00-8:00 | 2 | 3 | 5 | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 0 | 0 |
| 8:00-9:00 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00-2:00 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00-3:00 | 3 | 1 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00-4:00 | 2 | 2 | 4 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00-5:00 | 2 | 0 | 2 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00-6:00 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00-7:00 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 11 | 10 | 21 | 9 | 5 | 14 | 0 | 2 | 2 | 0 | 0 | 0 |

$\frac{\text { GRAND }}{\text { TOTAL }}$

| SECTION | 75200 | CITY Orlando |
| :--- | :--- | :---: | :---: |
| STATE ROUTE | State Road 551 | COUNTY Orange |
| OBSERVER | TEDS | INTERSECTING ROUTE Azalea Cove Circle |
| DATE $8 / 28 / 2018$ |  |  |

REMARKS $\qquad$
FORM COMPLETED BY TSH
DATE 09/05/18

| $\begin{aligned} & \mathrm{H} \\ & \mathrm{O} \\ & \mathrm{U} \\ & \mathrm{R} \\ & \mathrm{~S} \end{aligned}$ | West side of |  |  | East side of |  |  | North side of |  |  | South side of |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | State Road 551 |  |  | State Road 551 |  |  | Azalea Cove Circle |  |  | Azalea Cove Circle |  |  |
|  | NB | SB | TOTAL | NB | SB | TOTAL | EB | WB | TOTAL | EB | WB | TOTAL |
| 7:00-8:00 | 1 | 2 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00-9:00 | 0 | 1 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1:00-2:00 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2:00-3:00 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:00-4:00 | 1 | 1 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:00-5:00 | 1 | 1 | 2 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00-6:00 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6:00-7:00 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 5 | 8 | 13 | 7 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |

## GRAND

TOTAL
5
4
4
1
$\underline{2}$
4
4
1
2
$\underline{23}$

File Name : Not Named 1
Site Code : 00000000
Start Date : 8/28/2018
Page No : 1
Groups Printed- All Vehicles

| Groups Printed- All Vehicles |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | STATE ROAD 551 Northbound |  |  |  |  | STATE ROAD 551 <br> Southbound |  |  |  |  | AZALEA COVE CIRCLE Eastbound |  |  |  |  | LEADERS PREPARATORY SCHOOL <br> Westbound |  |  |  |  |  |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App.Total | Int. Total |
| 07:00 AM | 0 | 250 | 4 | 0 | 254 | 1 | 261 | 0 | 0 | 262 | 5 | 0 | 6 | 0 | 11 | 1 | 0 | 1 | 0 | 2 | 529 |
| 07:15 AM | 0 | 284 | 0 | 2 | 286 | 2 | 264 | 0 | 2 | 268 | 4 | 0 | 7 | 0 | 11 | 1 | 0 | 5 | 0 | 6 | 571 |
| 07:30 AM | 0 | 340 | 3 | 0 | 343 | 7 | 254 | 1 | 1 | 263 | 10 | 1 | 7 | 0 | 18 | 0 | 1 | 1 | 0 | 2 | 626 |
| 07:45 AM | 2 | 357 | 16 | 0 | 375 | 15 | 270 | 3 | 2 | 290 | 4 | 0 | 4 | 0 | 8 | 6 | 0 | 1 | 2 | 9 | 682 |
| Total | 2 | 1231 | 23 | 2 | 1258 | 25 | 1049 | 4 | 5 | 1083 | 23 | 1 | 24 | 0 | 48 | 8 | 1 | 8 | 2 | 19 | 2408 |
| 08:00 AM | 1 | 342 | 33 | 1 | 377 | 11 | 257 | 4 | 0 | 272 | 1 | 0 | 4 | 0 | 5 | 11 | 0 | 7 | 0 | 18 | 672 |
| 08:15 AM | 1 | 324 | 46 | 0 | 371 | 25 | 267 | 1 | 0 | 293 | 2 | 0 | 3 | 0 | 5 | 17 | 1 | 19 | 0 | 37 | 706 |
| 08:30 AM | 2 | 334 | 17 | 0 | 353 | 4 | 242 | 3 | 0 | 249 | 3 | 0 | 7 | 0 | 10 | 23 | 0 | 29 | 0 | 52 | 664 |
| 08:45 AM | 3 | 277 | 1 | 0 | 281 | 4 | 227 | 4 | 1 | 236 | 9 | 0 | 5 | 0 | 14 | 10 | 0 | 9 | 0 | 19 | 550 |
| Total | 7 | 1277 | 97 | 1 | 1382 | 44 | 993 | 12 | 1 | 1050 | 15 | 0 | 19 | 0 | 34 | 61 | 1 | 64 | 0 | 126 | 2592 |

*** BREAK ***

| 01:00 PM | 5 | 267 | 1 | 0 | 273 | 2 | 279 | 5 | 0 | 286 | 3 | 0 | 4 | 0 | 7 | 2 | 0 | 3 | 0 | 5 | 571 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01:15 PM | 1 | 260 | 4 | 1 | 266 | 3 | 254 | 5 | 0 | 262 | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 2 | 533 |
| 01:30 PM | 3 | 266 | 6 | 0 | 275 | 9 | 254 | 1 | 0 | 264 | 0 | 1 | 4 | 0 | 5 | 2 | 0 | 1 | 0 | 3 | 547 |
| 01:45 PM | 4 | 241 | 3 | 0 | 248 | 0 | 267 | 6 | 1 | 274 | 5 | 0 | 1 | 0 | 6 | 4 | 1 | 7 | 0 | 12 | 540 |
| Total | 13 | 1034 | 14 | 1 | 1062 | 14 | 1054 | 17 | 1 | 1086 | 11 | 1 | 9 | 0 | 21 | 9 | 1 | 12 | 0 | 22 | 2191 |
| 02:00 PM | 1 | 232 | 1 | 0 | 234 | 2 | 255 | 1 | 1 | 259 | 3 | 0 | 5 | 0 | 8 | 3 | 0 | 7 | 0 | 10 | 511 |
| 02:15 PM | 1 | 280 | 2 | 2 | 285 | 2 | 289 | 1 | 0 | 292 | 4 | 0 | 6 | 0 | 10 | 1 | 0 | 2 | 0 | 3 | 590 |
| 02:30 PM | 1 | 269 | 3 | 2 | 275 | 2 | 276 | 3 | 3 | 284 | 2 | 0 | 4 | 0 | 6 | 2 | 0 | 5 | 0 | 7 | 572 |
| 02:45 PM | 1 | 291 | 7 | 0 | 299 | 7 | 285 | 2 | 0 | 294 | 6 | 0 | 4 | 0 | 10 | 3 | 0 | 3 | 0 | 6 | 609 |
| Total | 4 | 1072 | 13 | 4 | 1093 | 13 | 1105 | 7 | 4 | 1129 | 15 | 0 | 19 | 0 | 34 | 9 | 0 | 17 | 0 | 26 | 2282 |
| 03:00 PM | 3 | 244 | 18 | 1 | 266 | 19 | 339 | 5 | 1 | 364 | 3 | 0 | 4 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 638 |
| 03:15 PM | 1 | 272 | 16 | 0 | 289 | 15 | 323 | 1 | 2 | 341 | 0 | 0 | 1 | 0 | 1 | 28 | 0 | 37 | 0 | 65 | 696 |
| 03:30 PM | 3 | 256 | 8 | 0 | 267 | 3 | 296 | 8 | 1 | 308 | 3 | 1 | 4 | 0 | 8 | 21 | 0 | 9 | 0 | 30 | 613 |
| 03:45 PM | 3 | 277 | 5 | 0 | 285 | 3 | 240 | 0 | 0 | 243 | 6 | 0 | 1 | 0 | 7 | 7 | 0 | 5 | 0 | 12 | 547 |
| Total | 10 | 1049 | 47 | 1 | 1107 | 40 | 1198 | 14 | 4 | 1256 | 12 | 1 | 10 | 0 | 23 | 57 | 0 | 51 | 0 | 108 | 2494 |
| 04:00 PM | 6 | 274 | 4 | 0 | 284 | 1 | 292 | 4 | 1 | 298 | 2 | 0 | 4 | 0 | 6 | 5 | 0 | 9 | 0 | 14 | 602 |
| 04:15 PM | 3 | 279 | 4 | 0 | 286 | 5 | 335 | 3 | 0 | 343 | 0 | 0 | 4 | 0 | 4 | 3 | 0 | 2 | 0 | 5 | 638 |
| 04:30 PM | 7 | 310 | 1 | 3 | 321 | 4 | 275 | 3 | 0 | 282 | 5 | 0 | 3 | 0 | 8 | 3 | 0 | 5 | 0 | 8 | 619 |
| 04:45 PM | 2 | 305 | 7 | 0 | 314 | 5 | 313 | 2 | 1 | 321 | 0 | 0 | 2 | 0 | 2 | 5 | 0 | 5 | 0 | 10 | 647 |
| Total | 18 | 1168 | 16 | 3 | 1205 | 15 | 1215 | 12 | 2 | 1244 | 7 | 0 | 13 | 0 | 20 | 16 | 0 | 21 | 0 | 37 | 2506 |
| 05:00 PM | 5 | 300 | 15 | 0 | 320 | 8 | 377 | 5 | 0 | 390 | 4 | 1 | 4 | 0 | 9 | 2 | 0 | 2 | 0 | 4 | 723 |
| 05:15 PM | 4 | 278 | 20 | 0 | 302 | 12 | 280 | 6 | 0 | 298 | 5 | 2 | 2 | 0 | 9 | 6 | 0 | 5 | 0 | 11 | 620 |
| 05:30 PM | 1 | 341 | 13 | 0 | 355 | 8 | 309 | 4 | 0 | 321 | 3 | 0 | 1 | 0 | 4 | 3 | 0 | 3 | 0 | 6 | 686 |
| 05:45 PM | 2 | 330 | 5 | 2 | 339 | 5 | 314 | 5 | 0 | 324 | 3 | 0 | 2 | 0 | 5 | 18 | 0 | 4 | 0 | 22 | 690 |
| Total | 12 | 1249 | 53 | 2 | 1316 | 33 | 1280 | 20 | 0 | 1333 | 15 | 3 | 9 | 0 | 27 | 29 | 0 | 14 | 0 | 43 | 2719 |
| 06:00 PM | 2 | 281 | 9 | 0 | 292 | 12 | 330 | 8 | 0 | 350 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 8 | 0 | 10 | 653 |
| 06:15 PM | 7 | 268 | 8 | 0 | 283 | 5 | 322 | 10 | 1 | 338 | 1 | 0 | 2 | 0 | 3 | 5 | 0 | 2 | 0 | 7 | 631 |
| 06:30 PM | 5 | 278 | 4 | 0 | 287 | 1 | 260 | 5 | 1 | 267 | 1 | 0 | 4 | 0 | 5 | 4 | 0 | 2 | 0 | 6 | 565 |
| 06:45 PM | 8 | 258 | 6 | 0 | 272 | 2 | 271 | 4 | 2 | 279 | 4 | 0 | 0 | 0 | 4 | 5 | 0 | 6 | 0 | 11 | 566 |
| Total | 22 | 1085 | 27 | 0 | 1134 | 20 | 1183 | 27 | 4 | 1234 | 6 | 0 | 7 | 0 | 13 | 16 | 0 | 18 | 0 | 34 | 2415 |
| Grand Total | 88 | 9165 | 290 | 14 | 9557 | 204 | 9077 | 113 | 21 | 9415 | 104 | 6 | 110 | 0 | 220 | 205 | 3 | 205 | 2 | 415 | 19607 |
| Apprch \% | 0.9 | 95.9 | 3 | 0.1 |  | 2.2 | 96.4 | 1.2 | 0.2 |  | 47.3 | 2.7 | 50 | 0 |  | 49.4 | 0.7 | 49.4 | 0.5 |  |  |
| Total \% | 0.4 | 46.7 | 1.5 | 0.1 | 48.7 | 1 | 46.3 | 0.6 | 0.1 | 48 | 0.5 | 0 | 0.6 | 0 | 1.1 | 1 | 0 | 1 | 0 | 2.1 |  |


|  | STATE ROAD 551 Northbound |  |  |  |  | STATE ROAD 551 <br> Southbound |  |  |  |  | AZALEA COVE CIRCLEEastbound |  |  |  |  | LEADERS PREPARATORY SCHOOL Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App.Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:45 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:45 AM | 2 | 357 | 16 | 0 | 375 | 15 | 270 | 3 | 2 | 290 | 4 | 0 | 4 | 0 | 8 | 6 | 0 | 1 | 2 | 9 | 682 |
| 08:00 AM | 1 | 342 | 33 | 1 | 377 | 11 | 257 | 4 | 0 | 272 | 1 | 0 | 4 | 0 | 5 | 11 | 0 | 7 | 0 | 18 | 672 |
| 08:15 AM | 1 | 324 | 46 | 0 | 371 | 25 | 267 | 1 | 0 | 293 | 2 | 0 | 3 | 0 | 5 | 17 | 1 | 19 | 0 | 37 | 706 |
| 08:30 AM | 2 | 334 | 17 | 0 | 353 | 4 | 242 | 3 | 0 | 249 | 3 | 0 | 7 | 0 | 10 | 23 | 0 | 29 | 0 | 52 | 664 |
| Total Volume | 6 | 1357 | 112 | 1 | 1476 | 55 | 1036 | 11 | 2 | 1104 | 10 | 0 | 18 | 0 | 28 | 57 | 1 | 56 | 2 | 116 | 2724 |
| \% App.Total | 0.4 | 91.9 | 7.6 | 0.1 |  | 5 | 93.8 | 1 | 0.2 |  | 35.7 | 0 | 64.3 | 0 |  | 49.1 | 0.9 | 48.3 | 1.7 |  |  |
| PHF | . 750 | . 950 | . 609 | . 250 | . 979 | . 550 | . 959 | . 688 | . 250 | . 942 | . 625 | . 000 | . 643 | . 000 | . 700 | . 620 | . 250 | . 483 | . 250 | . 558 | . 965 |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:45 AM |  |  |  |  | 07:30 AM |  |  |  |  | 07:00 AM |  |  |  |  | 08:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 2 | 357 | 16 | 0 | 375 | 7 | 254 | 1 | 1 | 263 | 5 | 0 | 6 | 0 | 11 | 11 | 0 | 7 | 0 | 18 |
| +15 mins. | 1 | 342 | 33 | 1 | 377 | 15 | 270 | 3 | 2 | 290 | 4 | 0 | 7 | 0 | 11 | 17 | 1 | 19 | 0 | 37 |
| +30 mins. | 1 | 324 | 46 | 0 | 371 | 11 | 257 | 4 | 0 | 272 | 10 | 1 | 7 | 0 | 18 | 23 | 0 | 29 | 0 | 52 |
| +45 mins. | 2 | 334 | 17 | 0 | 353 | 25 | 267 | 1 | 0 | 293 | 4 | 0 | 4 | 0 | 8 | 10 | 0 | 9 | 0 | 19 |
| Total Volume | 6 | 1357 | 112 | 1 | 1476 | 58 | 1048 | 9 | 3 | 1118 | 23 | 1 | 24 | 0 | 48 | 61 | 1 | 64 | 0 | 126 |
| \% App. Total | 0.4 | 91.9 | 7.6 | 0.1 |  | 5.2 | 93.7 | 0.8 | 0.3 |  | 47.9 | 2.1 | 50 | 0 |  | 48.4 | 0.8 | 50.8 | 0 |  |
| PHF | 750 | . 950 | . 609 | . 250 | . 979 | 580 | . 970 | . 563 | 375 | . 954 | . 575 | 250 | 857 | 00 | . 667 | . 663 | 250 | . 552 | 000 | 606 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 01:00 PM

| $01: 00 ~ P M ~$ | $\mathbf{5}$ | $\mathbf{2 6 7}$ | 1 | 0 | 273 | 2 | $\mathbf{2 7 9}$ | 5 | 0 | $\mathbf{2 8 6}$ | 3 | 0 | $\mathbf{4}$ | 0 | $\mathbf{7}$ | 2 | 0 | 3 | 0 | 5 | $\mathbf{5 7 1}$ |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $01: 15 \mathrm{PM}$ | 1 | 260 | 4 | $\mathbf{1}$ | 266 | 3 | 254 | 5 | 0 | 262 | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 2 | 533 |
| $01: 30 \mathrm{PM}$ | 3 | 266 | $\mathbf{6}$ | 0 | $\mathbf{2 7 5}$ | $\mathbf{9}$ | 254 | 1 | 0 | 264 | 0 | $\mathbf{1}$ | 4 | 0 | 5 | 2 | 0 | 1 | 0 | 3 | 547 |
| $01: 45 \mathrm{PM}$ | 4 | 241 | 3 | 0 | 248 | 0 | 267 | $\mathbf{6}$ | $\mathbf{1}$ | 274 | $\mathbf{5}$ | 0 | 1 | 0 | 6 | $\mathbf{4}$ | $\mathbf{1}$ | $\mathbf{7}$ | 0 | $\mathbf{1 2}$ | 540 |
| Total Volume | 13 | 1034 | 14 | 1 | 1062 | 14 | 1054 | 17 | 1 | 1086 | 11 | 1 | 9 | 0 | 21 | 9 | 1 | 12 | 0 | 22 | 2191 |
| $\%$ App.Total | 1.2 | 97.4 | 1.3 | 0.1 |  | 1.3 | 97.1 | 1.6 | 0.1 |  | 52.4 | 4.8 | 42.9 | 0 |  | 40.9 | 4.5 | 54.5 | 0 |  |  |
| PHF | .650 | .968 | .583 | .250 | .965 | .389 | .944 | .708 | .250 | .949 | .550 | .250 | .563 | .000 | .750 | .563 | .250 | .429 | .000 | .458 | .959 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 01:00 PM |  |  |  |  | 01:00 PM |  |  |  |  | 01:00 PM |  |  |  |  | 01:00 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 5 | 267 | 1 | 0 | 273 | 2 | 279 | 5 | 0 | 286 | 3 | 0 | 4 | 0 | 7 | 2 | 0 | 3 | 0 | 5 |
| +15 mins. | 1 | 260 | 4 | 1 | 266 | 3 | 254 | 5 | 0 | 262 | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 2 |
| +30 mins. | 3 | 266 | 6 | 0 | 275 | 9 | 254 | 1 | 0 | 264 | 0 | 1 | 4 | 0 | 5 | 2 | 0 | 1 | 0 | 3 |
| +45 mins. | 4 | 241 | 3 | 0 | 248 | 0 | 267 | 6 | 1 | 274 | 5 | 0 | 1 | 0 | 6 | 4 | 1 | 7 | 0 | 12 |
| Total Volume | 13 | 1034 | 14 | 1 | 1062 | 14 | 1054 | 17 | 1 | 1086 | 11 | 1 | 9 | 0 | 21 | 9 | 1 | 12 | 0 | 22 |
| \% App. Total | 1.2 | 97.4 | 1.3 | 0.1 |  | 1.3 | 97.1 | 1.6 | 0.1 |  | 52.4 | 4.8 | 42.9 | 0 |  | 40.9 | 4.5 | 54.5 | 0 |  |
| PHF | . 650 | . 968 | . 583 | . 250 | . 965 | . 389 | . 944 | . 708 | . 250 | . 949 | . 550 | . 250 | . 563 | . 000 | . 750 | . 563 | . 250 | . 429 | . 000 | . 458 |

Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 05:00 PM

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $05: 00 ~ P M ~$ | $\mathbf{5}$ | 300 | 15 | 0 | 320 | 8 | $\mathbf{3 7 7}$ | 5 | 0 | $\mathbf{3 9 0}$ | 4 | 1 | $\mathbf{4}$ | 0 | $\mathbf{9}$ | 2 | 0 | 2 | 0 | 4 | $\mathbf{7 2 3}$ |
| $05: 15 \mathrm{PM}$ | 4 | 278 | $\mathbf{2 0}$ | 0 | 302 | $\mathbf{1 2}$ | 280 | $\mathbf{6}$ | 0 | 298 | $\mathbf{5}$ | $\mathbf{2}$ | 2 | 0 | 9 | 6 | 0 | $\mathbf{5}$ | 0 | 11 | 620 |
| $05: 30 \mathrm{PM}$ | 1 | $\mathbf{3 4 1}$ | 13 | 0 | $\mathbf{3 5 5}$ | 8 | 309 | 4 | 0 | 321 | 3 | 0 | 1 | 0 | 4 | 3 | 0 | 3 | 0 | 6 | 686 |
| $05: 45 \mathrm{PM}$ | 2 | 330 | 5 | $\mathbf{2}$ | 339 | 5 | 314 | 5 | 0 | 324 | 3 | 0 | 2 | 0 | 5 | $\mathbf{1 8}$ | 0 | 4 | 0 | $\mathbf{2 2}$ | 690 |
| Total Volume | 12 | 1249 | 53 | 2 | 1316 | 33 | 1280 | 20 | 0 | 1333 | 15 | 3 | 9 | 0 | 27 | 29 | 0 | 14 | 0 | 43 | 2719 |
| \% App. Total | 0.9 | 94.9 | 4 | 0.2 |  | 2.5 | 96 | 1.5 | 0 |  | 55.6 | 11.1 | 33.3 | 0 |  | 67.4 | 0 | 32.6 | 0 |  |  |
| PHF | .600 | .916 | .663 | .250 | .927 | .688 | .849 | .833 | .000 | .854 | .750 | .375 | .563 | .000 | .750 | .403 | .000 | .700 | .000 | .489 | .940 |

Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 05:00 PM |  |  |  |  | 04:15 PM |  |  |  |  | 02:00 PM |  |  |  |  | 03:15 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 5 | 300 | 15 | 0 | 320 | 5 | 335 | 3 | 0 | 343 | 3 | 0 | 5 | 0 | 8 | 28 | 0 | 37 | 0 | 65 |
| +15 mins. | 4 | 278 | 20 | 0 | 302 | 4 | 275 | 3 | 0 | 282 | 4 | 0 | 6 | 0 | 10 | 21 | 0 | 9 | 0 | 30 |
| +30 mins. | 1 | 341 | 13 | 0 | 355 | 5 | 313 | 2 | 1 | 321 | 2 | 0 | 4 | 0 | 6 | 7 | 0 | 5 | 0 | 12 |
| +45 mins. | 2 | 330 | 5 | 2 | 339 | 8 | 377 | 5 | 0 | 390 | 6 | 0 | 4 | 0 | 10 | 5 | 0 | 9 | 0 | 14 |
| Total Volume | 12 | 1249 | 53 | 2 | 1316 | 22 | 1300 | 13 | 1 | 1336 | 15 | 0 | 19 | 0 | 34 | 61 | 0 | 60 | 0 | 121 |
| \% App. Total | 0.9 | 94.9 | 4 | 0.2 |  | 1.6 | 97.3 | 1 | 0.1 |  | 44.1 | 0 | 55.9 | 0 |  | 50.4 | 0 | 49.6 | 0 |  |
| PHF | 600 | . 916 | . 663 | . 250 | . 927 | . 688 | . 862 | 650 | . 250 | . 856 | . 625 | 000 | . 792 | . 000 | 850 | . 545 | 000 | . 405 |  | 65 |

File Name : SR 551 at Azalea Cove Circle
Site Code : 00000000
Start Date : 8/28/2018
Page No : 1
Groups Printed- Heavy Trucks

| Groups Printed- Heavy Trucks |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | STATE ROAD 551 <br> Northbound |  |  |  |  | STATE ROAD 551 <br> Southbound |  |  |  |  | AZALEA COVE CIRCLE Eastbound |  |  |  |  | LEADERS PREPARATORY SCHOOL <br> Westbound |  |  |  |  |  |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App.Total | Left | Thru | Right | Peds | App. Total | Int.Total |
| 07:00 AM | 0 | 6 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:15 AM | 0 | 2 | 0 | 0 | 2 | 0 | 5 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 07:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 07:45 AM | 0 | 2 | 0 | 0 | 2 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 0 | 13 | 0 | 0 | 13 | 0 | 32 | 0 | 2 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| 08:00 AM | 0 | 4 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 08:15 AM | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 08:30 AM | 0 | 4 | 0 | 0 | 4 | 0 | 7 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 08:45 AM | 0 | 4 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Total | 0 | 16 | 0 | 0 | 16 | 0 | 21 | 1 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |

*** BREAK ${ }^{* * *}$

| 01:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 01:15 PM | 0 | 8 | 0 | 1 | 9 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 01:30 PM | 0 | 2 | 0 | 0 | 2 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 01:45 PM | 0 | 9 | 0 | 0 | 9 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 0 | 19 | 0 | 1 | 20 | 0 | 27 | 0 | 1 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| 02:00 PM | 0 | 7 | 0 | 0 | 7 | 0 | 5 | 1 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
| 02:15 PM | 0 | 7 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 02:30 PM | 0 | 3 | 0 | 0 | 3 | 0 | 17 | 0 | 3 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 02:45 PM | 0 | 4 | 0 | 0 | 4 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| Total | 0 | 21 | 0 | 0 | 21 | 0 | 42 | 1 | 3 | 46 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 68 |
| 03:00 PM | 0 | 8 | 0 | 1 | 9 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 03:15 PM | 0 | 4 | 0 | 0 | 4 | 0 | 5 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| 03:30 PM | 0 | 3 | 0 | 0 | 3 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 03:45 PM | 0 | 6 | 0 | 0 | 6 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 0 | 21 | 0 | 1 | 22 | 0 | 31 | 0 | 2 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |


| $04: 00 ~ P M ~$ | 0 | 5 | 0 | 0 | 5 | 0 | 6 | 0 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $04: 15 \mathrm{PM}$ | 0 | 1 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| $04: 30 \mathrm{PM}$ | 0 | 8 | 0 | 3 | 11 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| $04: 45 \mathrm{PM}$ | 0 | 5 | 0 | 0 | 5 | 0 | 7 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 0 | 19 | 0 | 3 | 22 | 0 | 21 | 0 | 2 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |


| $05: 00 \mathrm{PM}$ | 0 | 5 | 0 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $05: 15 \mathrm{PM}$ | 0 | 3 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| $05: 30 \mathrm{PM}$ | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| $05: 45 \mathrm{PM}$ | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 0 | 18 | 0 | 0 | 18 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |


| 06:00 PM | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06:15 PM | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 06:30 PM | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 06:45 PM | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 0 | 12 | 0 | 0 | 12 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Grand Total | 0 | 139 | 0 | 5 | 144 | 0 | 190 | 2 | 11 | 203 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 348 |
| Apprch \% | 0 | 96.5 | 0 | 3.5 |  | 0 | 93.6 | 1 | 5.4 |  | 0 | 0 | 100 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 0 | 39.9 | 0 | 1.4 | 41.4 | 0 | 54.6 | 0.6 | 3.2 | 58.3 | 0 | 0 | 0.3 | 0 | 0.3 | 0 | 0 | 0 | 0 | 0 |  |


|  | STATE ROAD 551 <br> Northbound |  |  |  |  | STATE ROAD 551 <br> Southbound |  |  |  |  | AZALEA COVE CIRCLE <br> Eastbound |  |  |  |  | LEADERS PREPARATORY SCHOOL <br> Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 07:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07:00 AM | 0 | 6 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 07:15 AM | 0 | 2 | 0 | 0 | 2 | 0 | 5 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 07:30 AM | 0 | 3 | 0 | 0 | 3 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| 07:45 AM | 0 | 2 | 0 | 0 | 2 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total Volume | 0 | 13 | 0 | 0 | 13 | 0 | 32 | 0 | 2 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 94.1 | 0 | 5.9 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 542 | . 000 | . 000 | . 542 | . 000 | . 727 | . 000 | . 250 | . 773 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 904 |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1

|  | 08:00 AM |  |  |  |  | 07:00 AM |  |  |  |  | 07:00 AM |  |  |  |  | 07:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 5 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 4 | 0 | 0 | 4 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 16 | 0 | 0 | 16 | 0 | 32 | 0 | 2 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 100 | 0 | 0 |  | 0 | 94.1 | 0 | 5.9 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | 1.000 | . 000 | . 000 | 1.000 | . 000 | . 727 | . 000 | . 250 | . 773 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |


| Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Peak Hour for Entire Intersection Begins at 01:00 PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 01:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 01:15 PM | 0 | 8 | 0 | 1 | 9 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 01:30 PM | 0 | 2 | 0 | 0 | 2 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 01:45 PM | 0 | 9 | 0 | 0 | 9 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total Volume | 0 | 19 | 0 | 1 | 20 | 0 | 27 | 0 | 1 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| \% App. Total | 0 | 95 | 0 | 5 |  | 0 | 96.4 | 0 | 3.6 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 528 | . 000 | . 250 | . 556 | . 000 | . 750 | . 000 | . 250 | . 778 | . 000 | 000 | 000 | . 000 | . 000 | . 000 | . 000 | . 000 | 000 | . 000 | . 800 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 01:00 PM |  |  |  |  | 01:00 PM |  |  |  |  | 10:00 AM |  |  |  |  | 10:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 8 | 0 | 1 | 9 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 2 | 0 | 0 | 2 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 9 | 0 | 0 | 9 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 19 | 0 | 1 | 20 | 0 | 27 | 0 | 1 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 95 | 0 | 5 |  | 0 | 96.4 | 0 | 3.6 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 528 | . 000 | . 250 | . 556 | . 000 | . 750 | . 000 | . 250 | . 778 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |

Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 02:15 PM

| 02:15 PM | 0 | 7 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 02:30 PM | 0 | 3 | 0 | 0 | 3 | 0 | 17 | 0 | 3 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 02:45 PM | 0 | 4 | 0 | 0 | 4 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 03:00 PM | 0 | 8 | 0 | 1 | 9 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total Volume | 0 | 22 | 0 | 1 | 23 | 0 | 44 | 0 | 3 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| \% App. Total | 0 | 95.7 | 0 | 4.3 |  | 0 | 93.6 | 0 | 6.4 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 688 | . 000 | . 250 | . 639 | . 000 | . 647 | . 000 | . 250 | . 588 | . 000 | 000 | . 000 | . 000 | . 000 | . 000 | 000 |  |  | . 000 | . 761 |

Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 04:30 PM |  |  |  |  | 02:15 PM |  |  |  |  | 02:00 PM |  |  |  |  | 02:00 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 8 | 0 | 3 | 11 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 5 | 0 | 0 | 5 | 0 | 17 | 0 | 3 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 5 | 0 | 0 | 5 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 3 | 0 | 0 | 3 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 21 | 0 | 3 | 24 | 0 | 44 | 0 | 3 | 47 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 87.5 | 0 | 12.5 |  | 0 | 93.6 | 0 | 6.4 |  | 0 | 0 | 100 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 656 | 000 | . 250 | . 545 | . 000 | . 647 | . 000 | 250 | . 588 | . 000 | 0 | . 250 | 00 | . 250 | . 000 | 0 | 00 | 0 |  |

File Name: SR 551 at Azalea Cove Circle
Site Code : 00000000
Start Date : 8/28/2018
Page No : 1
Groups Printed- UTurns

|  |  |  |  |  |  |  |  |  | Grou | Print | UT | urns |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | STATE ROAD 551 Northbound |  |  |  |  | STATE ROAD 551 Southbound |  |  |  |  | AZALEA COVE CIRCLE Eastbound |  |  |  |  | LEADERS PREPARATORY SCHOOL Westbound |  |  |  |  |  |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App.Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int.Total |
| *** BREAK ${ }^{* * *}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| *** BREAK ${ }^{* * *}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \text { 01:00 PM } \\ \text { *** BREAK } \end{gathered}$ | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

*** BREAK ***

| $\begin{array}{r} \text { 04:30 PM } \\ \text { *** BREAK *** } \\ \hline \end{array}$ | 1 | 0 | 0 | 0 | $1 \mid$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 01 | 0 | 0 | 0 | 0 | 0 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

*** BREAK ${ }^{* * *}$

| Grand Total | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Apprch \% | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| Total \% | 66.7 | 0 | 0 | 0 | 66.7 | 0 | 0 | 0 | 0 | 0 | 33.3 | 0 | 0 | 0 | 33.3 | 0 | 0 | 0 | 0 | 0 |  |


|  | STATE ROAD 551 Northbound |  |  |  |  | STATE ROAD 551 Southbound |  |  |  |  | AZALEA COVE CIRCLE Eastbound |  |  |  |  | LEADERS PREPARATORY SCHOOL Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peak Hour for Entire Intersection Begins at 08:00 AM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 08:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 |

Peak Hour Analysis From 07:00 AM to 09:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 07:00 AM |  |  |  |  | 07:00 AM |  |  |  |  | 08:00 AM |  |  |  |  | 07:00 AM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 000 | . 000 |

Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1
Peak Hour for Entire Intersection Begins at 12:15 PM

| Peak Hour for |  |  |  | Begin |  | PM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 01:00 PM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 250 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 |

File Name : SR 551 at Azalea Cove Circle Site Code : 00000000
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|  | STATE ROAD 551 Northbound |  |  |  |  | STATE ROAD 551 Southbound |  |  |  |  | AZALEA COVE CIRCLE Eastbound |  |  |  |  | LEADERS PREPARATORY SCHOOL <br> Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Left | Thru | Right | Peds | App. Total | Int.Total |
| Peak Hour Analysis From 10:00 AM to 01:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | hat. |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 12:15 PM |  |  |  |  | 10:00 AM |  |  |  |  | 10:00 AM |  |  |  |  | 10:00 AM |  |  |  |  |  |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| +45 mins. | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Total Volume | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| \% App. Total | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 250 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |  |

Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1

| Peak Hour for |  |  |  | egins | :4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 03:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:30 PM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total Volume | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |  |
| PHF | . 250 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 250 |

Peak Hour Analysis From 02:00 PM to 06:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

|  | 03:45 PM |  |  |  |  | 02:00 PM |  |  |  |  | 02:00 PM |  |  |  |  | 02:00 PM |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +0 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +15 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +30 mins. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| +45 mins. | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Volume | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \% App. Total | 100 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  |
| PHF | . 250 | . 000 | . 000 | . 000 | . 250 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 | . 000 |


| $\begin{aligned} & \mathrm{L} \\ & \mathrm{n} . \end{aligned}$ | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 1 | 8:00:01 AM | 8:00:31 AM | 30 |
| 2 | 2 | 8:01:15 AM | 8:02:03 AM | 48 |
| 2 | 3 | 8:02:31 AM | 8:02:57 AM | 26 |
| 2 | 4 | 8:02:34 AM | 8:03:17 AM | 43 |
| 2 | 5 | 8:03:12 AM | 8:03:23 AM | 11 |
| 2 | 6 | 8:04:50 AM | 8:05:13 AM | 23 |
| 2 | 7 | 8:07:35 AM | 8:07:49 AM | 14 |
| 2 | 8 | 8:09:47 AM | 8:11:00 AM | 73 |
| 2 | 9 | 8:10:55 AM | 8:11:16 AM | 21 |
| 2 | 10 | 8:13:21 AM | 8:13:27 AM | 6 |
| 2 | 11 | 8:13:46 AM | 8:14:26 AM | 40 |
| 2 | 12 | 8:13:58 AM | 8:14:49 AM | 51 |
| 2 | 13 | 8:14:14 AM | 8:14:51 AM | 37 |
| 2 | 14 | 8:14:27 AM | 8:16:21 AM | 114 |
| 2 | 15 | 8:16:14 AM | 8:16:33 AM | 19 |
| 2 | 16 | 8:16:19 AM | 8:16:36 AM | 17 |
| 2 | 17 | 8:16:31 AM | 8:16:46 AM | 15 |
| 2 | 18 | 8:17:03 AM | 8:17:24 AM | 21 |
| 2 | 19 | 8:18:02 AM | 8:18:22 AM | 20 |
| 2 | 20 | 8:21:57 AM | 8:22:51 AM | 54 |
| 2 | 21 | 8:22:11 AM | 8:23:00 AM | 49 |
| 2 | 22 | 8:23:34 AM | 8:24:56 AM | 82 |
| 2 | 23 | 8:24:07 AM | 8:25:16 AM | 69 |
| 2 | 24 | 8:24:52 AM | 8:25:31 AM | 39 |
| 2 | 25 | 8:26:07 AM | 8:26:23 AM | 16 |
| 2 | 26 | 8:26:18 AM | 8:27:48 AM | 90 |
| 2 | 27 | 8:26:24 AM | 8:28:53 AM | 149 |
| 2 | 28 | 8:27:25 AM | 8:29:00 AM | 95 |
| 2 | 29 | 8:27:43 AM | 8:29:05 AM | 82 |
| 2 | 30 | 8:28:50 AM | 8:29:09 AM | 19 |
| 2 | 31 | 8:29:02 AM | 8:30:36 AM | 94 |
| 2 | 32 | 8:29:13 AM | 8:30:43 AM | 90 |
| 2 | 33 | 8:30:00 AM | 8:30:50 AM | 50 |
| 2 | 34 | 8:30:52 AM | 8:31:10 AM | 18 |
| 2 | 35 | 8:31:12 AM | 8:31:23 AM | 11 |
| 2 | 36 | 8:31:56 AM | 8:33:13 AM | 77 |
| 2 | 37 | 8:32:47 AM | 8:33:17 AM | 30 |
| 2 | 38 | 8:33:52 AM | 8:34:46 AM | 54 |
| 2 | 39 | 8:34:34 AM | 8:35:25 AM | 51 |
| 2 | 40 | 8:35:06 AM | 8:36:10 AM | 64 |
| 2 | 41 | 8:35:18 AM | 8:36:16 AM | 58 |
| 2 | 42 | 8:35:26 AM | 8:36:32 AM | 66 |
| 2 | 43 | 8:35:37 AM | 8:37:03 AM | 86 |
| 2 | 44 | 8:36:54 AM | 8:37:09 AM | 15 |
| 2 | 45 | 8:37:27 AM | 8:38:33 AM | 66 |
| 2 | 46 | 8:37:41 AM | 8:38:57 AM | 76 |
| 2 | 47 | 8:38:09 AM | 8:39:03 AM | 54 |
| 2 | 48 | 8:39:22 AM | 8:40:12 AM | 50 |
| 2 | 49 | 8:40:06 AM | 8:40:20 AM | 14 |
| 2 | 50 | 8:40:36 AM | 8:41:06 AM | 30 |
| 2 | 51 | 8:41:08 AM | 8:41:16 AM | 8 |
| 2 | 52 | 8:41:11 AM | 8:41:43 AM | 32 |
| 2 | 53 | 8:41:37 AM | 8:41:48 AM | 11 |
| 2 | 54 | 8:44:35 AM | 8:45:30 AM | 55 |
| 2 | 55 | 8:44:53 AM | 8:45:36 AM | 43 |
| 2 | 56 | 8:46:05 AM | 8:47:24 AM | 79 |
| 2 | 57 | 8:47:47 AM | 8:48:02 AM | 15 |
| 2 | 58 | 8:51:18 AM | 8:51:29 AM | 11 |
| 2 | 59 | 8:53:06 AM | 8:53:18 AM | 12 |
| 2 | 60 | 8:53:38 AM | 8:53:44 AM | 6 |
| 2 | 61 | 8:54:36 AM | 8:55:33 AM | 57 |
| 2 | 62 | 8:56:10 AM | 8:56:18 AM | 8 |
| 2 | 63 | 8:59:13 AM | 8:59:18 AM | 5 |


| Summary Information: |
| :--- |
| 8:00:00 AM- 9:00:00 AM WB LEFT/ THRU <br> Total Vehicle Count: 63 <br> Delayed Vehicle Count: 63 <br> Through Vehicle Count: 0 <br> Average Stopped Time: 43.95 <br> Maximum Stopped Time: 149 <br> Min. Secs. for Delay: 0 <br> Average Queue: 0.78 <br> Queue Density: 1.60 <br> Maximum Queue: 4 <br> Delay in Vehicle Hour: 0.78 <br> Total Delay: 2769 |


| $\begin{aligned} & \mathrm{L} \\ & \mathrm{n} . \end{aligned}$ | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 1 | 3:00:00 PM | 3:00:05 PM | 5 |
| 2 | 2 | 3:10:45 PM | 3:10:52 PM | 7 |
| 2 | 3 | 3:19:05 PM | 3:19:40 PM | 35 |
| 2 | 4 | 3:20:33 PM | 3:20:44 PM | 11 |
| 2 | 5 | 3:20:37 PM | 3:21:47 PM | 70 |
| 2 | 6 | 3:20:42 PM | 3:21:53 PM | 71 |
| 2 | 7 | 3:21:26 PM | 3:22:00 PM | 34 |
| 2 | 8 | 3:21:44 PM | 3:22:02 PM | 18 |
| 2 | 9 | 3:21:51 PM | 3:22:09 PM | 18 |
| 2 | 10 | 3:21:57 PM | 3:22:13 PM | 16 |
| 2 | 11 | 3:22:01 PM | 3:22:28 PM | 27 |
| 2 | 12 | 3:22:33 PM | 3:22:41 PM | 8 |
| 2 | 13 | 3:22:48 PM | 3:22:56 PM | 8 |
| 2 | 14 | 3:23:09 PM | 3:23:23 PM | 14 |
| 2 | 15 | 3:23:11 PM | 3:24:46 PM | 95 |
| 2 | 16 | 3:23:40 PM | 3:24:52 PM | 72 |
| 2 | 17 | 3:23:47 PM | 3:25:47 PM | 120 |
| 2 | 18 | 3:23:59 PM | 3:25:50 PM | 111 |
| 2 | 19 | 3:24:07 PM | 3:26:02 PM | 115 |
| 2 | 20 | 3:24:48 PM | 3:27:46 PM | 178 |
| 2 | 21 | 3:24:54 PM | 3:27:50 PM | 176 |
| 2 | 22 | 3:25:19 PM | 3:27:53 PM | 154 |
| 2 | 23 | 3:26:23 PM | 3:27:59 PM | 96 |
| 2 | 24 | 3:26:27 PM | 3:28:11 PM | 104 |
| 2 | 25 | 3:27:01 PM | 3:28:21 PM | 80 |
| 2 | 26 | 3:28:31 PM | 3:28:40 PM | 9 |
| 2 | 27 | 3:28:36 PM | 3:29:54 PM | 78 |
| 2 | 28 | 3:28:47 PM | 3:29:59 PM | 72 |
| 2 | 29 | 3:28:52 PM | 3:30:02 PM | 70 |
| 2 | 30 | 3:29:14 PM | 3:30:05 PM | 51 |
| 2 | 31 | 3:30:21 PM | 3:30:36 PM | 15 |
| 2 | 32 | 3:30:24 PM | 3:30:44 PM | 20 |
| 2 | 33 | 3:30:27 PM | 3:30:50 PM | 23 |
| 2 | 34 | 3:30:34 PM | 3:30:56 PM | 22 |
| 2 | 35 | 3:31:42 PM | 3:32:13 PM | 31 |
| 2 | 36 | 3:32:07 PM | 3:33:44 PM | 97 |
| 2 | 37 | 3:33:21 PM | 3:33:52 PM | 31 |
| 2 | 38 | 3:33:42 PM | 3:33:57 PM | 15 |
| 2 | 39 | 3:33:56 PM | 3:34:07 PM | 11 |
| 2 | 40 | 3:33:59 PM | 3:34:10 PM | 11 |
| 2 | 41 | 3:34:17 PM | 3:34:35 PM | 18 |
| 2 | 42 | 3:34:23 PM | 3:34:41 PM | 18 |
| 2 | 43 | 3:34:50 PM | 3:34:58 PM | 8 |
| 2 | 44 | 3:34:56 PM | 3:36:27 PM | 91 |
| 2 | 45 | 3:35:29 PM | 3:36:36 PM | 67 |
| 2 | 46 | 3:35:35 PM | 3:36:44 PM | 69 |
| 2 | 47 | 3:36:37 PM | 3:36:48 PM | 11 |
| 2 | 48 | 3:39:20 PM | 3:39:36 PM | 16 |
| 2 | 49 | 3:39:32 PM | 3:39:41 PM | 9 |
| 2 | 50 | 3:39:42 PM | 3:39:51 PM | 9 |
| 2 | 51 | 3:42:07 PM | 3:42:33 PM | 26 |
| 2 | 52 | 3:50:11 PM | 3:50:31 PM | 20 |
| 2 | 53 | 3:51:33 PM | 3:51:48 PM | 15 |
| 2 | 54 | 3:52:28 PM | 3:52:40 PM | 12 |
| 2 | 55 | 3:53:36 PM | 3:54:15 PM | 39 |
| 2 | 56 | 3:53:47 PM | 3:55:22 PM | 95 |
| 2 | 57 | 3:55:06 PM | 3:55:25 PM | 19 |
| 2 | 58 | 3:55:27 PM | 3:55:35 PM | 8 |


| Summary Information: |
| :--- |
| 3:00:00 PM - 3:56:00 PM WB LEFT/ THRU <br> Total Vehicle Count: 58 <br> Delayed Vehicle Count: 58 <br> Through Vehicle Count: 0 <br> Average Stopped Time: 47.40 <br> Maximum Stopped Time: 178 <br> Min. Secs. for Delay: 0 <br> Average Queue: 0.82 <br> Queue Density: 2.44 <br> Maximum Queue: 6 <br> Delay in Vehicle Hour: 0.82 <br> Total Delay: 2749 |


| $\begin{array}{\|l} \hline \mathrm{L} \\ \mathrm{n} . \\ \hline \end{array}$ | No. | Joined Queue | Released From Queue | Delay |
| :---: | :---: | :---: | :---: | :---: |
| 2 | 1 | 5:02:00 PM | 5:03:20 PM | 80 |
| 2 | 2 | 5:06:48 PM | 5:07:06 PM | 18 |
| 2 | 3 | 5:13:45 PM | 5:15:17 PM | 92 |
| 2 | 4 | 5:20:11 PM | 5:21:20 PM | 69 |
| 2 | 5 | 5:20:39 PM | 5:21:24 PM | 45 |
| 2 | 6 | 5:23:04 PM | 5:23:39 PM | 35 |
| 2 | 7 | 5:25:32 PM | 5:27:47 PM | 135 |
| 2 | 8 | 5:26:13 PM | 5:27:51 PM | 98 |
| 2 | 9 | 5:37:50 PM | 5:39:26 PM | 96 |
| 2 | 10 | 5:39:58 PM | 5:40:20 PM | 22 |
| 2 | 11 | 5:40:50 PM | 5:41:36 PM | 46 |
| 2 | 12 | 5:43:57 PM | 5:46:05 PM | 128 |
| 2 | 13 | 5:44:29 PM | 5:46:07 PM | 98 |
| 2 | 14 | 5:45:13 PM | 5:46:09 PM | 56 |
| 2 | 15 | 5:45:23 PM | 5:46:25 PM | 62 |
| 2 | 16 | 5:45:46 PM | 5:46:28 PM | 42 |
| 2 | 17 | 5:46:23 PM | 5:46:37 PM | 14 |
| 2 | 18 | 5:46:32 PM | 5:46:42 PM | 10 |
| 2 | 19 | 5:47:19 PM | 5:47:29 PM | 10 |
| 2 | 20 | 5:49:02 PM | 5:49:17 PM | 15 |
| 2 | 21 | 5:49:18 PM | 5:49:30 PM | 12 |
| 2 | 22 | 5:49:41 PM | 5:50:16 PM | 35 |
| 2 | 23 | 5:50:26 PM | 5:51:45 PM | 79 |
| 2 | 24 | 5:52:51 PM | 5:54:12 PM | 81 |
| 2 | 25 | 5:54:07 PM | 5:54:26 PM | 19 |
| 2 | 26 | 5:55:19 PM | 5:55:32 PM | 13 |
| 2 | 27 | 5:55:44 PM | 5:56:32 PM | 48 |
| 2 | 28 | 5:57:23 PM | 5:57:41 PM | 18 |
| 2 | 29 | 5:57:49 PM | 5:58:25 PM | 36 |


| Summary Information: |
| :--- |
| 5:02:00 PM - 5:59:00 PM WB LEFT/ THRU <br> Total Vehicle Count: 29 <br> Delayed Vehicle Count: 29 <br> Through Vehicle Count: 0 <br> Average Stopped Time: 52.14 <br> Maximum Stopped Time: 135 <br> Min. Secs. for Delay: 0 <br> Average Queue: 0.45 <br> Queue Density: 1.34 <br> Maximum Queue: 5 <br> Delay in Vehicle Hour: 0.45 <br> Total Delay: 1512 |


[^0]:    Source: Revised from NCHRP Report 457

[^1]:    Source: Revised from NCHRP Report 457

