













Route 301—Port Royal Arterial Management Study Caroline County, Virginia October 2019



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Chapter 1

Why Study Route 301 through Port Royal?

EXECUTIVE SUMMARY

The Virginia Department of Transportation conducted this Arterial Management Study on Route 301 through the Town of Port Royal to develop a set of transportation improvement alternatives in cooperation with a team of local stakeholders. Through this process, multiple options have been vetted and compared, which will empower the stakeholders to make informed choices regarding future transportation plans. This study is a supplement to the earlier Route 301/207 Arterial Preservation Plan Study (June 2018, VDOT and Michael Baker, Int'l.).

The study sought to understand existing conditions and identify transportation options that will balance statewide mobility and safety goals with the town's historic character and natural resources. The final study produced six options able to meet the purpose and needs identified by the study. These options include: Route 301/Route 17 Intersection Modification, Route 301/Route 17 Quadrant Roadway, Market Street Extension, Route 301 through Town Two-Way Left-Turn Lane, Route 301 through Town Full Raised Median, and Route 301 through Town One-way Pair "Couplet".

Caroline County or the George Washington Regional Commission may submit any one or set of these options for VDOT funding. VDOT's SMART SCALE funding program was identified as most appropriate for the options identified in this study. Other potential funding sources include revenue sharing, VDOT Transportation Alternatives funding, VDOT Highway Safety Improvement Program Funding, and Virginia Land Conservation Grants.

This report summarizes information about the existing conditions analysis, goals and objectives, option development process, and option comparison process from the study.





ROUTE 301 - PORT ROYAL ARTERIAL MANAGEMENT STUDY

Route 301 through the Town of Port Royal serves two distinct functions: as a main street for town residents and as a National Highway System route that facilitiates regional, state, and interstate travel.

QUESTIONS THIS CHAPTER ANSWERS >>>

- Why did VDOT conduct the Route 301 Port Royal Arterial Management Study?
- Where did the study occur?
- How can VDOT and the Town of Port Royal balance the different roles of Route 301 in the future?

The Virginia Department of Transportation (VDOT) used the public engagement process and analysis of present conditions and future plans to provide a series of feasible transportation options aligned with local and state goals for an approximately one-mile section of Route 301 as it runs through the Town of Port Royal. This study follows VDOT's Route 301/207 Arterial Preservation Study of the forty-two miles of Route 301/207 from I-95 in Caroline County to Governor Nice Bridge in King George County. The Route 301/207 study sought to ensure the safety and preserve the capacity of this critical link in the Commonwealth's arterial highway network. Population growth and other factors, such as the Nice Bridge widening and planned construction on I-95 near Fredericksburg, were considered during the Route 301/207 study, which showed that long-term traffic volumes are projected to double along Route 301.

In addition to the anticipated long-term changes to traffic patterns and volumes on Route 301/Route 17, the unique natural, historical, and environmental assets within the Town of Port Royal—along with the town's role in local commerce and services as the crossroads points east—presented the opportunity to consider possible changes to Route 301 in greater detail.

The Route 301 – Port Royal Study was designed to engage community members, land and business owners, service providers, and jurisdictional entities (Town of Port Royal, Caroline County, George Washington Regional Commission) to focus on this unique section of the corridor, where the median separating opposing traffic is reduced to a 4-foot striped divider. Additionally, Route 301 conveys pedestrians from its town streets on the east side to businesses lining both sides of the highway. The study examined how the current alignment of Route 301 through the town could better balance and improve local circulation and access needs with the road's through-traffic function, including the 12-16% of peak period freight/truck traffic and particularly high weekend/seasonal demand at the Route 17 intersection.





Route 301 through the Town of Port Royal

The study area includes Route 301 (A.P. Hill Boulevard/Main Street) from 0.8 miles south of Route 17 (Tidewater Trail) to the Rappahannock River Bridge and Route 17 from 0.25 miles west of Route 301 to 0.60 miles east of Route 301 (**Figure 1**). VDOT classifies Route 301 as a principal arterial, so goals for the corridor include preserving speed, volumes, and safety. Route 301 also falls within the National Highway System and serves as an alternate route to I-95 between Baltimore and Richmond. Long-term traffic volumes are projected to grow along Route 301 due to population growth and other factors, such as the Nice Bridge widening and construction on I-95 near Fredericksburg. Route 301 in Port Royal crosses Route 17, which is also a principal arterial and part of the National Highway System. Route 17 also serves as an alternate route to I-64 between Fredericksburg and Newport News.

KEY TERMS >>>

- ➤ Principal Arterial: In rural areas, these roads facilitate substantial statewide or interstate travel and provide a connected network without dead ends.
- ➤ National Highway System
 (NHS): This is the network of strategic highways within the United States that serves major airports, ports, rail or truck terminals, railway stations, pipeline terminals, or other strategic transport facilities.

While most of the Route 301 corridor fits neatly into VDOT's principal arterial functional classification category, Route 301 passing through the Town of Port Royal welcomes a closer look. Port Royal is an historic Virginia town, with its transportation assets dating back to Colonial times. Route 301, itself, once served as a road of commerce linking farm products to warehouses and the port on the Rappahannock River. Today, Route 301 is the area's main street, providing access to local businesses and regional destinations for residents of Port Royal and neighboring communities. Town goals for the corridor include fostering the main street character of Route 301, improving roadway crossing safety for motorists and pedestrians, and providing safe access to and from local streets.

The Study

Through the Route 301 – Port Royal Arterial Management Study, VDOT and an independent consultant (Study Team) engaged the Town of Port Royal, Caroline County, and other stakeholders to develop a strategy to guide the Commonwealth's transportation investment along the Route 301 Corridor through the town.

Study Objectives

- Evaluate existing corridor conditions
- Establish study goals and objectives to serve as a foundation for evaluation criteria
- Develop and assess transportation options for the study area
- Inform the Town of Port Royal, Caroline County, and George Washington Regional Planning Commission of policy decision-making processes with data





This report summarizes the study's existing conditions, goals and objectives, evaluation criteria, and identified transportation options. More detailed documentation can be found in Appendices 1 through 5.

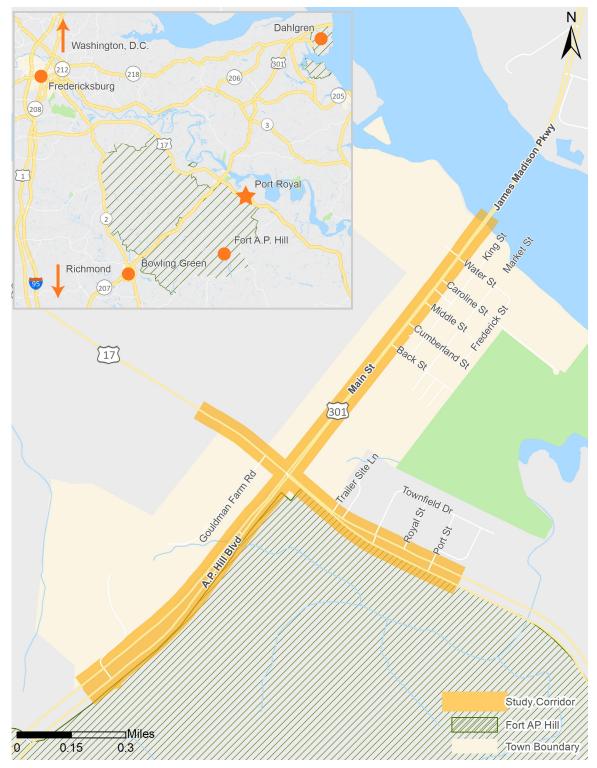
KEY TAKEAWAYS FROM THIS CHAPTER >>>

- Route 301 and Route 17 both serve key roles in the statewide transportation system as links in the National Highway System and principal arterial roadways offering relief to Interstates 95 and 64 respectively.
- As it runs through the Town of Port Royal, Route 301 serves a dual role as the town's main street, providing access to local businesses and regional destinations, especially for the residents of Port Royal and neighboring communities.
- This study seeks to identify a range of potential transportation options to balance the need for Route 301 to safely move regional traffic through Port Royal with local access and circulation needs within the Town of Port Royal.





Figure 1. Route 301 – Port Royal Arterial Management Project Area Map



Source: Kittelson and Associates, Inc., 2018





Chapter 2

What is Route 301 through Port Royal like today?

EXISTING CONDITIONS

The Study Team assessed land use context, transportation context, and public opinion to understand the diverse purposes that Route 301 serves as it runs through the Town of Port Royal.

QUESTIONS THIS CHAPTER ANSWERS >>>

- What existing land uses adjoin Route 301 through the Town of Port Royal today? What are Caroline County's and the Town's visions and plans for future land use changes along the study corridor?
- How does the transportation system perform today?
- What can safety and speed data tell us about how people experience the study corridor?
- Based on a public opinion survey, how does the study corridor serve the needs of local and regional users?

Situated along the Rappahannock River and Route 301, the rural Town of Port Royal is a unique, historically significant community. Some of the earliest inhabitants of the New World lived in this area, located in today's Caroline County and within the area organized through the George Washington Regional Commission. While Route 301 runs north-to-south through Virginia, carrying regional traffic between Southern Maryland and Richmond to and from I-95 and I-64 as well as Routes 1, 207, 2, 17, and 3. It also serves as the Town of Port Royal's main street. Regional congestion and incident-impacted traffic conflicts with comfort, convenience, and safety for local travel within the town for its 200 residents. The Study Team conducted an analysis of existing conditions to help inform and refine the study's goals and objectives. The existing conditions analysis detailed in the following section includes an overview of land use context, transportation context, and public feedback.

Land Use Context: Economic, Environmental, and Historic Resources

The Town of Port Royal is primarily residential, except for mixed residential and commercial land uses along Route 301. The Town recently annexed many of the commercial lands along Route 301 to extend services in support of commercial activity and to provide space for growth. The annexation also provides the Town with additional revenue from the commercial use and businesses operating along Route 301. Outside of the existing street grid in the town, most land uses are heavy forest and agriculture,



Town of Port Royal Residences
Source: Kittelson & Associates, Inc., 2019





with a large area directly to the east in protected easement. This effectively limits the growth area directly adjacent to existing residential areas and confines it to the area between Back Street and Route 17. Caroline County's current plans call for Port Royal's growth to occur to the west of Route 301 between the Rappahannock River and across Route 17 to Fort A.P. Hill (Figure 2). A new Planned Development zoning category was introduced in the 2004 plan as an alternative to low to medium density. It replaces the seven units per acre density to a flexible density, which allows for traditional neighborhood design (TND) and more sustainable footprint clusters with a requirement for 50% of developable land as open space. At the time of this study, the Town was updating its Comprehensive Plan, potentially integrating findings and proposals of this study as guidance for both public and private investment.

Port Royal's history and urban form are a major source of pride for the town and are considered assets to Virginia's broader preservation community. The town is included in the Rappahannock Indigenous Cultural Landscape project and was used as a port for tobacco crops in the early colonial era. One of the first-known





The Water Trail (top) and historic remains Dorothy Roy's Tobacco Warehouse (bottom) exemplify the Town's many natural and historic resources.

Source: Kittelson & Associates, Inc., 2019

American businesswomen, Dorothy Roy, held a franchise to operate a tobacco warehouse in the Town of Port Royal, and multiple properties have been listed on the National Register of Historic Places since 1970. Used as a blueprint by the designers of the Restoration of Williamsburg in the 1930s, the Town is working to preserve its remaining historic buildings, many of which date back to its significant colonial and Civil War periods.

The Town also sees economic development and growth potential related to its unique character and location along the Rappahannock River. Several planned developments have been completed or are underway. The property on the northeast corner of Route 301/Route 17—and another at Main Street and Back Street—have seen activity related to commercial development. Residential growth is also planned, with a townhouse development partially completed at Back Street and Market Street as well as a recent land sale west of Route 301. Each new development presents an opportunity to advance the Town's economic and preservation goals, bringing about new investment and revitalization.





Collaboration during this study has laid the groundwork for each partner to include transportation elements within its plans and guiding documents.

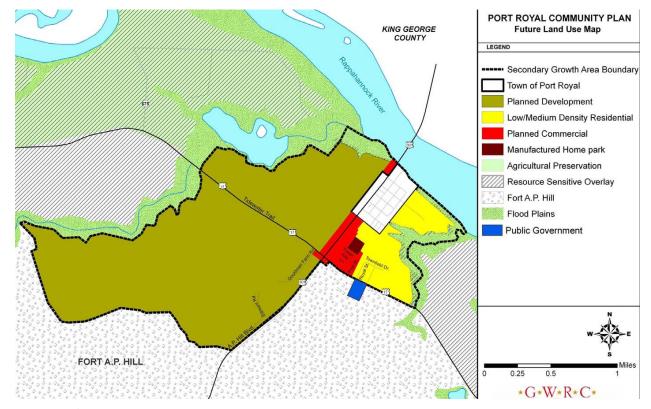


Figure 2. Port Royal Community Plan (2004)¹

Source: Caroline County, 2004

Transportation Context: Mobility/Access

Route 301 acts as the spine of Port Royal for approximately 1.7 miles, as most vehicles travel north or south through the town using this principal arterial. The town's grid of local streets lies to the east of Route 301. King Street, Market Street, and Frederick Street sit parallel to Route 301. Besides many driveways directly on Route 301, the arterial intersects with five east-west local streets (from south to north): Back Street, Cumberland Street, Middle Street, Caroline Street, and Water Street. All of these intersections with Route 301 are minor stop controlled. A bridge over the Rappahannock River



¹ The Town of Port Royal's boundaries have expanded since this 2004 plan was adopted. Refer to Figure 1 for the current Town Boundary.

is directly north of the town. South of the village area of Port Royal, Route 17 and Route 301 intersect at the only traffic signal. **Table 1** displays the major transportation facilities for this study.

Further beyond the immediate Port Royal area, I-95 and I-64 are within proximity, along with the Governor Harry W. Nice Memorial/Senator Thomas "Mac" Middleton Memorial Bridge (hereinafter referred to as the Nice Bridge) on Route 301, connecting Virginia commuters and travelers to the Washington,

KEY TERMS >>>

 Operations Analysis: An evaluation of how a roadway or set of roadways function under existing and/or anticipated traffic and geometric conditions.

DC and Baltimore, Maryland regions. Widening and improvement projects that will double the number of lanes on the Nice Bridge are underway and projected to be open to traffic in 2023. Further information about the influence of the planned Nice Bridge widening on future traffic projections are considered in the transportation options for this study.

Table 1 Major Roadway Facilities

| Roadway | Classification ¹ | Number of Lanes | Speed Limit (mph) | Median | Sidewalks | Bicycle Lanes | On-Street Parking |
|-----------|-----------------------------|-----------------------|----------------------|------------------|-----------|------------------|----------------------|
| Route 301 | Other Principal Arterial | 4 | 35 ³ | Yes ⁴ | No | No | No |
| Route 17 | Other Principal Arterial | 4 ² | 35 ³ | Yes ⁴ | No | No | No |

¹ Classifications based on VDOT's 2014 Functional Classification Map.

Pedestrian and Bicycle Access

Due to commercial services and amenities on the west side of Route 301, residents in the Town of Port Royal walk along and across Route 301. The Post Office, located on the opposite side of Route 301 at Back Street, is a daily destination for many residents. Since the town does not have access to a US Postal Service mail truck for deliveries, residents on the east side cross Route 301 to send and retrieve mail, despite the lack of sidewalks and a crosswalk. The traffic signal at Route 301/17 does not include a pedestrian phase or marked crosswalks for walking or bicycling to local businesses.

Transportation Context: Existing Operations

Traffic counts were collected in November 2018. The weekday count represents the normal traffic that travels along the corridor. The weekend count was taken the Sunday after the Thanksgiving holiday and mimics the volumes of summer beach traffic that travels through Port Royal. During public outreach for the project, stakeholders and members of the public referenced summer beach





² Route 17 is a two-lane roadway west of the Route 301/Route 17 intersection.

³ Route 301/Route 17 are only 35 MPH in the Town of Port Royal.

⁴ Route 301 has a median except for the town of Port Royal (between Route 17 and the bridge). Within the Town, the width of double yellow lines are approximately four feet.

⁵ Route 17 does not have a median west of the Route 301/Route 17 intersection.

traffic as a contributing factor to congestion at the intersection of Route 301/Route 17. The Study Team was unable to collect traffic counts during the summer based on the study schedule, instead gathering traffic counts on the weekend following Thanksgiving as a substitute. The Study Team expected that more motorists would travel along Route 301 to regional destinations for the Thanksgiving holiday. As detailed in the following sections, the Study Team observed higher traffic volumes on Route 301/Route 17 during the Sunday data collection time period. Four intersections were counted along Route 301 and around Port Royal:

- Route 301/Route 17
- Route 301/Back Street
- Route 301/Caroline Street
- Route 301/Walsingham Road

Figure 3 shows the traffic count locations.

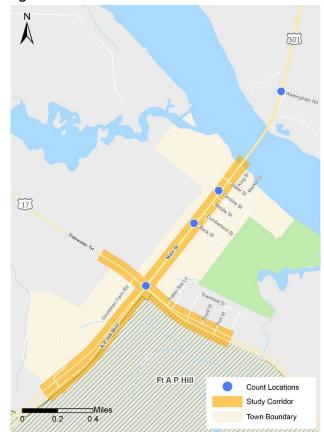
The system-wide AM and PM peak hours were found to occur between 6:30-7:30 AM and 4:15-5:15 PM, respectively. The Sunday worst-case peak hour occurred between 3:00-4:00 PM.

Traffic operations analyses were performed at study area intersections in accordance with the 2010 Highway Capacity Manual using Synchro 9, except for Route 301/Route 17, which was analyzed in accordance with the 2000 Highway Capacity Manual. Sim Traffic was also run for Route 301/Route 17 to simulate and report queuing. Table 2 summarizes the operational analysis for the study intersections under the weekday AM, PM, and Sunday worst-case peak hour existing traffic conditions. The traffic counts can be found in Appendix A. The full analysis can be found in Appendix B.

KEY TERMS >>>

Peak Hour: The time of day when demand for a transportation facility is highest and the ease with which vehicles can move through the transportation facility is most limited. Weekdays typically have two peak hours (AM and PM), while weekends have a single peak hour.

Figure 3. Traffic Count Locations







Most of the study intersections perform acceptably during each of the peak hours studied. Exceptions are described below:

- During the Sunday worst-case scenario, southbound vehicles turning left from Route 301 onto Route 17 exceed the length of the existing left-turn lane by around one vehicle.
- During the Sunday worst-case scenario, westbound vehicles waiting to turn left or right onto Route 301 from Back Street can wait as long as 97.4 seconds (over 1 minute) to turn onto Route 301. The number of vehicles waiting to turn onto Route 301 from Back street is very low.
- During the Sunday worst-case scenario, the westbound vehicles waiting to turn left or right onto Route 301 from Back Street can wait as long as 58.1 seconds (under 1 minute) to turn onto Route 301. The number of vehicles waiting to turn onto Route 301 from Caroline Street is very low.
- During the Sunday worst-case scenario, westbound vehicles waiting to turn left or right onto Route 301 from Walsingham Road may wait as long as 121.6 seconds (over 2 minutes) to turn onto Route 301. The number of vehicles waiting to turn onto Route 301 from Walsingham Road is very low.

KEY TERMS >>>

- ▶ **Delay**: The amount of time it takes vehicles to pass through an intersection (reported in seconds)
- ► Level of Service: A performance metric communicating quality of intersection service. LOS scores of A-D indicate acceptable quality (with A being the best), while LOS scores of E-F indicate poor quality.
- ➤ Volume to capacity (v/c) ratio: A ratio comparing the number of vehicles traveling through an intersection at a given point in time to the maximum capacity of the intersection. A v/c score of 1 or higher means that an intersection is at or above capacity. A v/c score below 1 means that an intersection is below capacity.
- ▶ 95th percentile queue length: The worstcase queue length (number of vehicles waiting in a lane) during a given time period. These queues only have a fivepercent probability of being exceeded.

Based on these findings, motorists traveling along or accessing Route 301 can do so at a reliable speed and without delay during most time periods, including the highest demand time periods on normal weekdays (i.e. AM and PM peak periods). On special event days, such as the Sunday after Thanksgiving or summer beach travel times, some motorists may experience less reliable travel times and increased delay on Route 301 through the Town of Port Royal. These include southbound motorists attempting to turn left onto Route 17 and proceed eastbound (towards Tappahannock) and motorists attempting to exit the Town of Port Royal from one of the five unsignalized intersections and from commercial access points located along Route 301 through town.





Table 2 Existing Conditions Operational Analysis

| Intersection | peak Hour | Delay (sec) | Level of Service | v/c | 95th Percentile Queues |
|-----------------------------|-----------|-------------|------------------|------|------------------------|
| Route 301 / Route 17 | AM peak | 24.4 | С | 0.44 | No concerns* |
| | PM peak | 25.2 | С | 0.53 | No concerns* |
| | Sunday | 42.6 | D | 0.84 | SBL exceeds storage* |
| Route 301 / Back Street | AM peak | 14.4 | В | 0.02 | No concerns |
| | PM peak | 13.5 | В | 0.01 | No concerns |
| | Sunday | 97.4 | F | 0.20 | No concerns |
| Route 301 / Caroline Street | AM peak | 0.0 | А | 0.00 | No concerns |
| | PM peak | 9.9 | А | 0.00 | No concerns |
| | Sunday | 58.1 | F | 0.03 | No concerns |
| Route 301 / Walsingham Road | AM peak | 10.1 | В | 0.00 | No concerns |
| | PM peak | 14.7 | В | 0.00 | No concerns |
| | Sunday | 121.6 | F | 0.12 | No concerns |

^{*95&}lt;sup>th</sup> percentile queues measured using SimTraffic 9

Transportation Context: Future Operations

In addition to considering existing traffic operations, the Study Team analyzed future traffic operations at the study area intersections. In coordination with VDOT, the Study Team identified a future design year and growth rates through which they could estimate and assess the influence of increased traffic volumes on the study intersections. The Study Team considered the following recent studies to develop the recommended design year and growth rate for the future operations analysis:

- US 301/Route 207 Arterial Preservation Plan (2018)
- Nice Bridge Improvement Project Study (2012)
- VDOT's 2017 AADT Data for Caroline County
- VDOT's 2045 AADT projections from the Statewide Planning System GIS dataset
- Weekday AM peak, PM peak, Friday afternoon, and Sunday afternoon traffic counts collected in Fall 2018 at the intersection of Route 301/Route 17

The future operations analysis assumed a design year of 2035, a compound growth rate of 1.3% on Route 301, and a compound growth rate of 1% on Route 17. The analysis also assumed that no

KEY TERMS >>>

- Design Year: Future year used to assess how existing traffic volumes will grow and influence a transportation network
- Growth Rate: Rate of growth applied to existing traffic counts to estimate how traffic volumes could increase in the future





changes would be made to the existing transportation network, providing an estimate of how the existing transportation network could operate in a "no build" scenario. **Appendix C** includes a full summary of the process to identify the future conditions design year and growth rate along with the results of the full future conditions analysis.

Traffic operations analyses were performed at study area intersections in accordance with the 2010 Highway Capacity Manual using Synchro 9, with the exception of Route 301/Route 17, which was analyzed in accordance with the 2000 Highway Capacity Manual. Sim Traffic was also run for Route 301/Route 17 to simulate and report queuing.

Table 3 summarizes the operational analysis for the study intersections under the weekday AM, PM, and Sunday worst-case peak hour future traffic conditions. The analysis was conducted assuming that no changes will be made to the current roadway network. The full analysis can be found in **Appendix C**.

Most of the intersections studied are forecast to perform acceptably during each of the peak hours studied with the few exceptions described below:

Route 301/Route 17

During the PM peak period, southbound vehicles turning left from Route 301 onto Route 17 are projected to exceed the length of the existing left-turn lane by around one vehicle.

During the Sunday worst-case scenario, southbound vehicles waiting to continue straight on Route 301 or turn right from Route 301 onto Route 17 are projected to wait in queues up to 3,000 feet long. These queues could extend along Route 301 into the historic portion of the Town of Port Royal, past the unsignalized intersection of Route 301/Cumberland Street. Due to these large queues, southbound vehicles waiting to turn left from Route 301 onto Route 17 are also projected to exceed the length of the existing left-turn lane. This lack of space for left turning vehicles causes vehicles traveling straight through the intersection to also experience delays, some exceeding four minutes (287.8 seconds). The intersection is also projected to operate over capacity (1.21 v/c ratio).

Route 301/Back Street

During the Sunday worst-case scenario, southbound vehicles waiting to continue straight on Route 301 are projected to wait in queues up to 1,300 feet long. These queues could extend farther north along Route 301 past the unsignalized intersection of Route 301/Caroline Street. The queues are likely exacerbated by projected delays and queueing at the signalized intersection of Route 301/Route 17. Due to large queues, westbound vehicles waiting to turn onto Route 301 from Back Street may not find a sufficient gap in traffic and could experience delays of over five minutes. The eastern leg of the intersection (Back Street) is also projected to operate over capacity (1.17 v/c ratio).





Route 301/Caroline Street

During the Sunday worst-case scenario, southbound vehicles waiting to continue straight on Route 301 are projected to wait in queues up to 800 feet long. These queues could extend farther north along Route 301 past Water Street to the Rappahannock River Bridge. The queues are likely exacerbated by projected delays and queueing at the signalized intersection of Route 301/Route 17. Due to large queues, westbound vehicles waiting to turn onto Route 301 from Caroline Street may experience delays of over five minutes.

Route 301/Walsingham Road

During the Sunday worst-case scenario, westbound vehicles waiting to turn from Walsingham Road onto Route 301 may experience delays of over five minutes.

Based on these findings, motorists traveling along or accessing Route 301 are projected to do so at a reliable speed and without delay during most time periods, including the highest demand time periods on normal weekdays (i.e. AM and PM peak Periods). On special event days, such as the Sunday after Thanksgiving or summer beach travel times, Route 301 through the Town of Port Royal is projected to experience long vehicle queues from Route 17 to the Rappahannock River Bridge. Without an alternative road to exit the Town of Port Royal's local roadway network, motorists attempting to exit the Town of Port Royal from one of the five unsignalized intersections or commercial access points located along Route 301 may experience delays of over five minutes.





Table 3 Year 2035 Future No Build Conditions Operational Analysis

| Intersection | peak Hour | Delay (sec) | Level of Service | v/c | 95th Percentile Queues |
|-----------------------------|-----------|-------------|------------------|------|---|
| Route 301 / Route 17 | AM peak | 28.8 | С | 0.55 | No concerns* |
| | PM peak | 32.4 | С | 0.68 | Southbound-left turn lane (SBL) exceeds storage* |
| | Sunday | 157.8 | F | 1.21 | SBL exceeds storage* Southbound through lane (SBT) and shared southbound through- right lane (SBTR) queues are projected to back up past Cumberland Street (~3,000 ft)* |
| Route 301 / Back Street | AM peak | 21.7 | С | 0.03 | No concerns* |
| | PM peak | 20.7 | С | 0.01 | No concerns* |
| | Sunday | **982.3 | F | 1.17 | SBLT and SBT queues are projected to back up past Caroline Street* |
| Route 301 / Caroline Street | AM peak | 0.0 | А | 0.00 | No concerns* |
| | PM peak | 11 | В | 0.00 | No concerns* |
| | Sunday | **361.8 | F | 0.18 | SBLT and SBT queues are projected to back up past Water Street* |
| Route 301 / Walsingham Road | AM peak | 11.3 | В | 0.00 | No concerns* |
| | PM peak | 24.8 | С | 0.02 | No concerns* |
| | Sunday | **1217.7 | F | 0.85 | No concerns* |

^{*95&}lt;sup>th</sup> percentile queues measured using SimTraffic 9

Transportation Context: Safety

The Study Team obtained and analyzed the most recent five years of complete crash data available for the Port Royal study area from VDOT's database. The crash data used were from January 1, 2013 to December 31, 2017; there were 56 reported crashes during this period.

Appendix D includes a full summary of the safety analysis along with the crash data used in the analysis.





^{**} Delay exceeds 300s

Crash Trends

More than half (77%) of the crashes recorded resulted in property damage only, as shown in **Table 4**. No crashes resulted in a fatality, and only one (2%) crash resulted in a severe injury. Fewer fatal crashes (0%) and injury crashes (13%) occurred along the study corridor than statewide for roadways with the same functional classification as Route 301/Route 17 (Rural Other Principal Arterial–1% fatal crashes and 34% injury crashes).

Rear-end (29%), angle (29%), and fixed object—off road (16%) crashes represent the three largest proportions of crash types (**Figure 4**). Rear-end crashes accounted for 46% of all injury crashes on the corridor (**Figure 5**).

None of the study intersections were included in VDOT's 2013-2017 Top 100 Potential for Safety Improvement (PSI) locations in the Fredericksburg District. Potential for Safety Improvement is a performance measure used by VDOT to prioritize statewide candidate intersections and roadway segments for safety funding. A high PSI score indicates that there are excess crashes compared to what is predicted under given similar conditions.

Table 4 Crash Severity, January 2013-January 2018

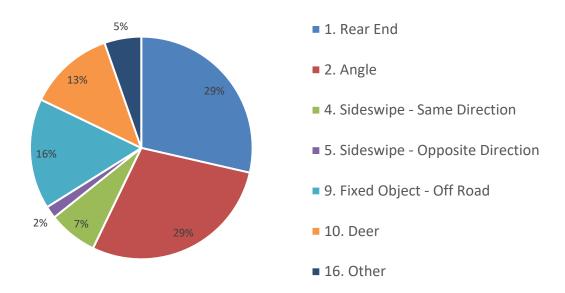
| Crash Severity | Crash Count |
|----------------------------|-------------|
| Fatal | 0 (0%) |
| Injury (Severe) | 1 (2%) |
| Injury (Visible) | 12 (21%) |
| Property Damage Only (PDO) | 43 (77%) |
| Total Crashes | 56 (100%) |

Source: Virginia Department of Transportation, Kittelson and Associates, Inc., 2018.



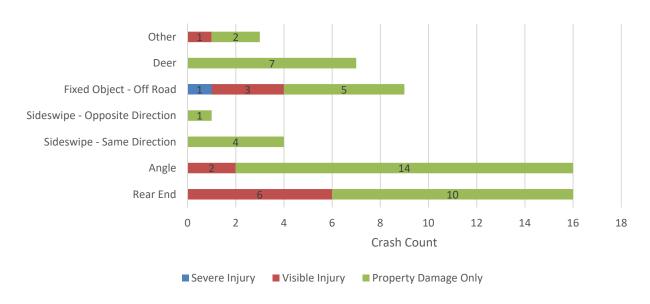


Figure 4 Vehicle Crash Types, January 2013-January 2018



^{*&}quot;Other" includes crash types that were categorized as "Other" or "Not Stated" in the data. Source: Virginia Department of Transportation, Kittelson and Associates, Inc., 2018.

Figure 5 Reported Crashes by Crash Type and Severity, January 2013 - January 2018



Source: Virginia Department of Transportation, Kittelson and Associates, Inc., 2018.

Crash Mapping

The Study Team mapped the crash types that represent the largest proportions or crash types on the study corridor: rear-end crashes and angle crashes. **Figure 6** illustrates rear-end crash locations, and **Figure 7** illustrates angle crash locations on the corridor.



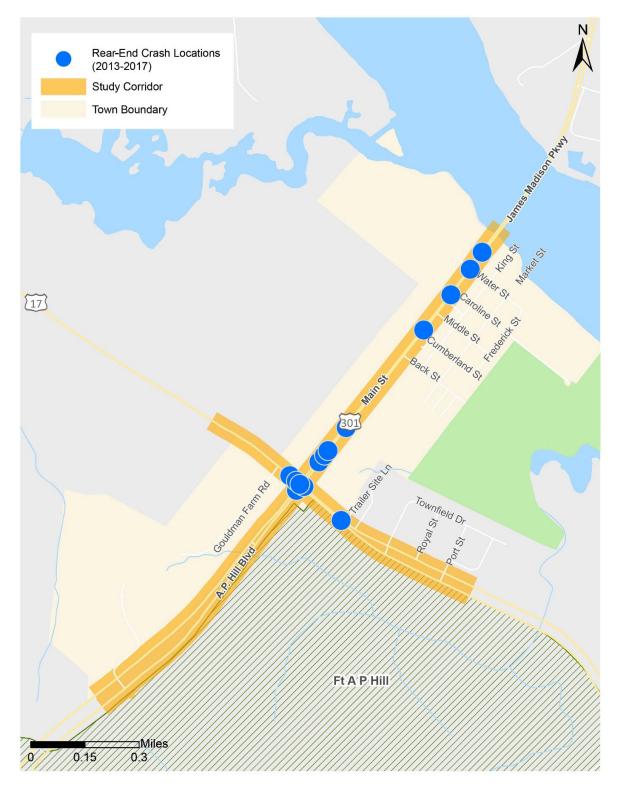


Clusters of rear-end crashes occur at the intersection of Route 301/Route 17, just north of the intersection of Route 301/Route 17, and at historic Town of Port Royal access points. (Route 301/Water Street, Route 301/Caroline Street, and Route 301/Cumberland Street). Clusters of angle crashes occur at the intersection of Route 301/Route 17, on Route 17 east of Route 301, on Route 301 north of Route 17, and at the intersection of Route 301/Water Street (just south of the Rappahannock River Bridge). These clusters of rear-end and angle crashes may be related to queues at the intersection of Route 301/Route 17 and/or to the speed differential between vehicles driving on Route 301 and vehicles turning onto and off of Route 301 to access local streets and businesses.





Figure 6 Rear-End Crashes, January 2013-January 2018

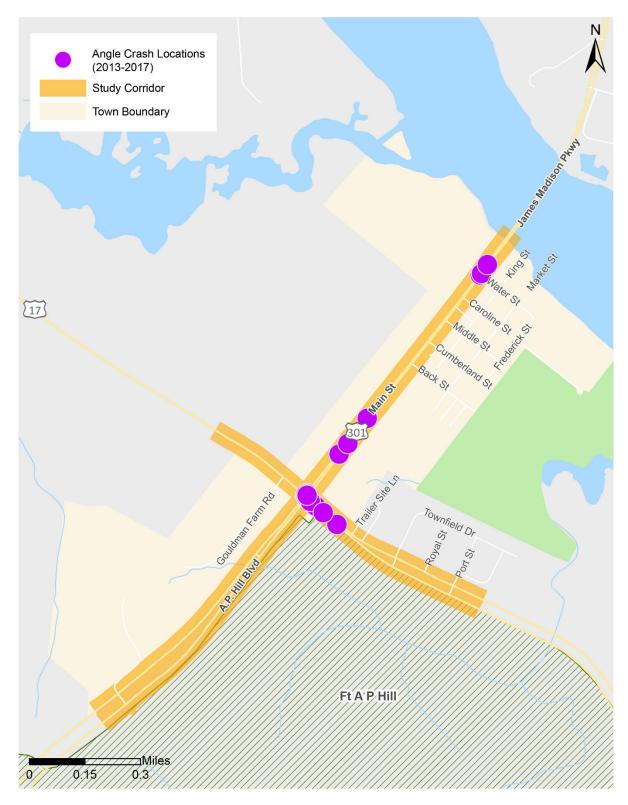


 $Source: Virginia\ Department\ of\ Transportation,\ Kittelson\ and\ Associates,\ Inc.,\ 2018.$





Figure 7 Angle Crashes, January 2013-January 2018



Source: Virginia Department of Transportation, Kittelson and Associates, Inc., 2018.





Transportation Context: Speed

VDOT conducted a 2015 speed study on a segment of Route 301 located 1,000 feet north of Route 17 and 1,320 feet south of Route 17. The results of the speed study are provided in **Table 5**. At the time the speed study was conducted, the posted speed in the speed study segment was 45 mph. The current posted speed through the Town of Port Royal is 35 mph. As shown in **Table 4**, the 85th percentile speed, median speed, mean speed, and pace speed all exceed the posted speed limit in the Town of Port Royal by 4 to 13 mph.

Since the 2015 speed study, VDOT has taken measures to increase motorist awareness of the reduced speed limit on Route 301 through the town of Port Royal. These measures include the addition of radar activated speed limit signs and optical speed bars (i.e. pavement markings) on Route 301 through the Town of Port Royal. These treatments were implemented in August 2018.



Radar-activated speed limit sign on Route 301 in the Town of Port Royal.

Source: Kittelson & Associates, Inc., 2019

Current speed data are needed to understand vehicle speeds through the Town of Port Royal under the current posted speed limit of 35 mph.

Table 5 VDOT Speed Study Results, April 2015

| Speed Data | Results (mph) |
|-----------------------|---------------|
| 85th Percentile Speed | 47.4 |
| Median Speed | 42 |
| Mean Speed | 42.4 |
| Pace Speed | 39-48 |

 $Source: Virginia\ Department\ of\ Transportation,\ Kittelson\ and\ Associates,\ Inc.,\ 2018.$

Appendix E includes a full summary of the 2015 speed data analysis.

Community Context: Existing Conditions Public Outreach

The Study Team conducted an online public opinion survey about the study corridor in December 2018. The survey was made publicly available through VDOT social media accounts and was provided to participants in a Town of Port Royal listening session. 180 people responded to the survey. The





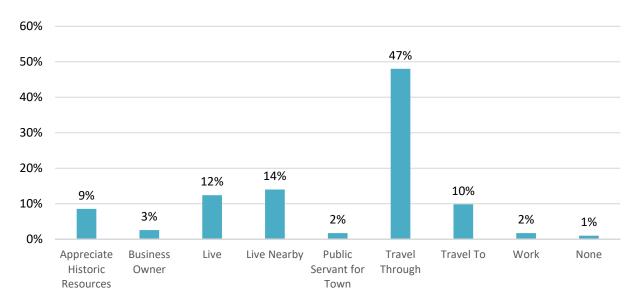
public opinion data allowed the Study Team to understand how survey participants feel about safety, access, and mobility on the Port Royal study corridor.

Appendix F includes a full summary of the December 2018 community outreach analysis.

Survey Findings

Nearly half (47%) of all survey participants self-reported that their primary relationship with Port Royal is that of a through traveler, while less than half (26%) of survey participants reported that they live in or near Port Royal (**Figure 8**).

Figure 8 Relationship to Port Royal, December 2018



Source: Kittelson and Associates, Inc., 2019.

Of the options provided related to transportation concerns through Port Royal, high vehicle speeds (24%), congestion/traffic (14%), and safe turning on or off of Route 301 (13%) ranked highest (**Figure 9**).





24% 25% 20% 14% 14% 13% 15% 10% 8% 10% 7% 4% 3% 5% 3% Access to Ausinesses, Post... 0%

Figure 9 Biggest Transportation Concern about Route 301, December 2018

Source: Kittelson and Associates, Inc., 2019.

The highest percentage of responses to the survey question about desired improvements to Route 301 through the Town of Port Royal were non-respondents (26%). Speed limit enforcement (15%), treatments to allow safe turning onto and off of Route 301 (12%), and no recommended change (10%) represent the three largest proportions of desired improvements to Route 301 through the Town of Port Royal (**Figure 10**).

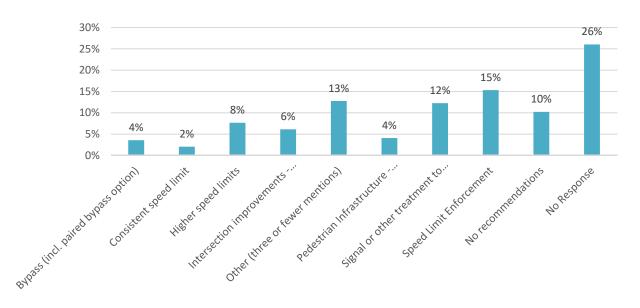


Figure 10 Desired Improvements to Route 301, December 2018

Source: Kittelson and Associates, Inc., 2019.





The highest percentage of responses to the survey question about the most valuable feature or features within the Town of Port Royal were non-respondents (37%). History (34%) and town atmosphere (14%) represent the two largest proportions of valued features within the Town of Port Royal (Figure 11).

45% 37% 40% 34% 35% 30% 25% 20% 14% 15% 10% 5% 5% 4% 5% 1% 0% History (Historic Nature, access Public resources Restaurants Small Town No Response buildings, etc.) to the River (Post office, (Horne's, Businesses Atmosphere library, fire Randolphs on (Antique shops,

the River)

bakery, etc.)

station, etc.)

Figure 11 Most valuable feature or features within the Town of Port Royal, December 2018

Source: Kittelson and Associates, Inc., 2019.





KEY TAKEAWAYS FROM THIS CHAPTER >>>

- The Town of Port Royal is an historic community with unique natural and cultural resources.
- Caroline County planning documents call for Port Royal's future growth to occur west of Route 301 between the Rappahannock River and across Route 17 to Fort A.P. Hill.
- An analysis of existing traffic operations at points along Route 301 show that Route 301 facilitates reliable travel through the town during most time periods.
- The existing traffic conditions analysis shows that travelers along Route 301 experience higher delays off-peak, during special event days (e.g. summer beach travel times). Delays are highest for southbound motorists turning left from Route 301 onto Route 17 and from local streets and businesses whose only access out is from Route 301 when queuing from the Route 17 blocks motorists attempting to turn left or right onto Route 301 from the Town of Port Royal.
- An analysis of future traffic operations at points along Route 301 is projected to facilitate reliable travel through the town during all but special event days (e.g. summer beach travel times, holiday weekends).
- The future traffic conditions analysis shows that during special event days (e.g. summer beach travel times), long queues and delays will influence travel for southbound motorists and motorists attempting to turn left or right onto Route 301 from the Town of Port Royal.
- 56 crashes occurred within the study area over the past five years, and over half of all crashes (77%) were property damage only crashes. The most common crash types that occurred within the study area were angle and rear-end crashes, which are likely related to vehicles turning onto and off of Route 301/Route 17 from lower speed roadways and commercial driveways. There were no fatal crashes.
- In 2018, VDOT lowered the speed limit on Route 301 through the Town of Port Royal from 45 mph to 35 mph and implemented radar-activated speed limit signs and optical speed bars to improve compliance with new posted speeds.
- Public interest in this study includes Town of Port Royal residents, Caroline County residents who live nearby, and motorists who regularly travel through Port Royal along Route 301.





Chapter 3

Study Goals, Objectives, and Evaluation Criteria

CORRIDOR IMPROVEMENT GOALS, OBJECTIVES, AND EVALUATION CRITERIA

The existing conditions analysis and perspectives shared through the online survey and the December 2018 community meeting helped the Study Team identify issues along with a series of goals and objectives to address those issues.

QUESTIONS THIS CHAPTER ANSWERS >>>

- What goals and objectives emerged to meet the purpose and needs identified through the existing conditions analysis and preliminary round of public outreach?
- What evaluation criteria were established to evaluate and compare concepts developed through the study to meet goals and objectives.
- How do VDOT project evaluation criteria align with the study goals and objectives?

The Study Team identified issues associated with Route 301 through the Town of Port Royal through the existing conditions analysis and survey/community meeting participant perspectives. The following subsections summarize, at a high level, needs identified along the Route 301 Corridor that future investment in the corridor should address.

Purpose:

Route 301 is for most of its 42 miles a four-lane divided highway with long stretches of uncontrolled intersections. Its character changes substantially through the Town of Port Royal, where its four-lane cross-section is undivided, with businesses on shallow parcels whose driveways front directly onto Route 301. Route 301 provides the only point of access from the historic portion of town's perpendicular streets, all of which are stop controlled. Route 301 has no pedestrian or bicycle accommodation through the Town of Port Royal. Route 301's intersection with Route 17 is also critical to broader regional connectivity. Any improvements to the transportation system in general, and Route 301 in particular, must balance both the regional and local roles of the road and address the needs and deficiencies described in greater detail below.

Need: Mobility and Access

Congestion on the Route 301 corridor is focused around the intersection of Route 301/Route 17 during special event days (e.g. summer beach travel times, holiday weekends). In addition to conditions at Route 301/Route 17, motorists experience delay when attempting to turn onto or off Route 301 from the unsignalized intersections located along Route 301 through town. The lack of sidewalk or other curbside accommodation limits non-motorized users (i.e. bicyclists and pedestrians) travel along the Route 301 corridor.





Need: Safety

High speeds along the Route 301 corridor influence the perceived safety of motorists turning into and out of businesses on the Route 301 corridor through town. The difference in speeds between vehicles traveling on Route 301 and vehicles turning onto or off Route 301 from local streets or access driveways in the Town of Port Royal may contribute to the rear-end and angle crash clusters observed along the corridor. The lack of marked crossings at the Route 301/17 intersection and along Route 301 through town does not provide safe accommodation for pedestrians and other non-motorized traffic. Residents living in the historic portion of the Town of Port Royal reported living on one side of the highway and traveling to destinations on the other side on a daily basis.

Need: Community, Historic, and Natural Resources

Survey participants highlighted the importance of preserving and enhancing the Town of Port Royal's historic, community, and natural resources. Due to the few local options, residents within town and in neighboring communities expressed concern about losing area businesses and the Port Royal Post Office. Business owners on the Route 301 and Route 17 corridor expressed concerns about maintaining access to their properties.

Need: Economic Development

Community members, leaders, and stakeholders expressed a strong interest in advancing a cost-effective project that is likely to be funded and built using VDOT SMART SCALE funding.

The needs identified through the existing conditions analysis informed the project goals and objectives described in the following section.

Goals and Objectives

The Study Team used the issues identified

through the existing conditions analysis and public outreach efforts as the foundation for the goals and objectives for the Port Royal Arterial Management Study:

- Goal 1: Enhance mobility for existing users and attract a wider range of potential users
- Goal 2: Promote safe travel options for all corridor users
- Goal 3: Invest in changes that build on existing community, historic, and natural resources

KEY TERMS >>>

- ▶ SMART SCALE: VDOT uses SMART SCALE to pick the right transportation projects for funding and ensuring the best use of limited tax dollars. Projects are selected for state funding based on an objective, outcome-based process.
- ► Goal: A desired result or outcome that an organization envisions, plans, and commits to achieve.
- ▶ **Objective:** A step an organization can take to achieve a goal. Effective objectives are specific, achievable, and measurable.





• Goal 4: Invest in multimodal improvements with a high return on investment

Goal 1: Enhance mobility for existing users and attract a wider range of potential users

This goal was selected based on an investigation of the town's existing and future transportation context. Motor vehicle mobility is projected to decline in a future no-build condition, particularly at the signalized intersection of Route 301/Route 17. Under current conditions, the motorized vehicle is the only transportation mode fully accommodated along Route 301 and Route 17, and through the Town of Port Royal. Route 301 is difficult to cross for all modes of travel, effectively dividing the Town of Port Royal into two halves.

In addition to the transportation context, community feedback included concerns about traffic backing up at Route 17/ Route 301 during summer beach travel days and being able to travel reliably and without delay along Route 301 to local and regional destinations.

Goal 1 Connections to SMART SCALE Scoring Criteria

While Goal 1 is aligned with the study area's unique characteristics, it also connects to VDOT SMART SCALE scoring criteria.

- Congestion Mitigation
 - Increase Person Throughput
 - o Reduce Delay
- Accessibility
 - Increase Access to Multimodal Travel Choices
- Economic Development
 - Tons of Freight Goods Impacted
 - Improve Travel Time Reliability
- Environment
 - Potentially improve Air Quality





Goal 1 Objectives

The following objectives were established to meet Goal 1: Enhance mobility for existing users and attract a wider range of potential users:

- Reduce southbound left-turn backup at Route 301/Route 17 intersection
- Improve pedestrian curbside accommodation
- Reduce out of direction travel (driving and walking)

The study objectives directly relate to the evaluation criteria used during the transportation option development process. Since this study is the first step in the project development process, the Study Team used broad evaluation criteria to score identified transportation options at a high level. **Table 6** outlines the evaluation criteria for Goal 1.

KEY TERMS >>>

► Reduces out of direction travel: If an option "reduces out of direction travel," it adds a link (road or sidewalk) to the transportation network that allows motorists or pedestrians to get to their destination more efficiently.

Table 6 Goal 1 Evaluation Criteria

| Objective | Worse or ineffective | Moderate or little change | Better |
|--|---|---|--|
| Reduce southbound left- turn backup at Route 301/Route 17 intersection | Does not change southbound left-turn backup | Reduces southbound left-turn backup during most time periods | Reduces southbound left-turn backup during all time periods |
| Improve pedestrian curbside accommodation | Does not add pedestrian curbside accommodation | Adds pedestrian curbside accommodation on one side of Route 301 in project vicinity | Adds pedestrian curbside accommodation on both sides of Route 301 |
| Reduce out of direction travel for residents (driving and walking) | Does not change existing travel patterns or increases out of direction travel | Decreases out of direction travel for one of two modes | Decreases out of direction travel for two of two modes |

Goal 2: Promote safe travel options for all corridor users

This goal was selected based on an investigation of the town's existing transportation context. Safety data highlights rear-end and angle crashes as the most common crash type on Route 301 through the town of Port Royal. Speed data from 2015 showed motorists traveling at higher 85th percentile speeds than the current 35 mph speed limit. Rear-end and angle crashes can be related to differences in speed when vehicles on higher order, higher speed streets (e.g. principal arterials, Route 301) interact with vehicles turning into or out from driveways and lower order, lower speed streets (e.g. local roads, Back Street, Caroline Street, Water Street).





In addition to the transportation context, community feedback included concerns about safely turning onto and off of Route 301 from the Town of Port Royal; safely accessing destinations across Route 301, such as the Post Office; and high motorist speeds on Route 301 through town.

Goal 2 Connections to SMART SCALE Scoring Criteria

While Goal 2 is aligned with the study area's unique characteristics, it also connects to VDOT SMART SCALE scoring criteria.

- Safety
 - Reduce Injury Crashes
 - o Reduce Injury Crash Rate
- Accessibility
 - Increase Access to Multimodal Travel Choices
- Environment
 - Potentially improve Air Quality

Goal 2 Objectives

The following objectives have been established to meet Goal 2: Promote safe travel options for all corridor users:

- Improve safety for business egress, left turns on to Route 301
- Improve safety for business ingress from unprotected lefts
- Improve pedestrian/bicycle crossing safety
- Improve driver compliance with posted speeds between the Rappahannock River Bridge and Route 17

The study objectives directly relate to the evaluation criteria used during the transportation option development process. Since this study is the first step in the project development process, the Study Team used broad evaluation criteria to score identified transportation options at a high level. **Table** 7 outlines the evaluation criteria for Goal 2.





Table 7 Goal 2 Evaluation Criteria

| Objective | Worse or ineffective | Moderate or little change | Better |
|---|--|---|--|
| Improve safety for business egress, left turns (finding a safe gap) | Business egress left from businesses continues to require crossing traffic from both directions | Provides designated waiting places for business egress allowing two stage crossing | Provides designated and protected waiting places for business egress to enter traffic stream |
| Improve safety for business ingress from unprotected lefts | Left turning vehicles continue to use thru lanes to access businesses | Provides for right turns for most or all business ingress | Provides right turns and designated/protected waiting places for business ingress |
| Improve pedestrian/bicycle crossing safety | Does not provide designated safe pedestrian and bicycle crossing options | Adds designated bicycle and pedestrian crossing locations without sidewalk infrastructure | Adds designated bicycle and pedestrian crossing locations with sidewalk infrastructure |
| Improve driver compliance with posted speeds between the Rappahannock River Bridge and Route 17 | Does not influence driver compliance with posted speeds | Modifies the roadway character to influence driver compliance | Significantly modifies the roadway character to influence driver compliance |

Goal 3: Invest in changes that build on existing community, historic, and natural resources

This goal was selected based on an investigation of the town's land use context. The study area includes many unique community, historic, and natural resources. Community feedback included strong consensus on the historic and natural value of Port Royal and the surrounding environment. Local business owners expressed a strong desire to maintain access to existing businesses. Community members also expressed a desire for any changes to support the viability of Route 301 businesses and improve the function of drainage along Route 301 through town.

Goal 3 Connections to SMART SCALE Scoring Criteria

While Goal 3 is aligned with the study area's unique characteristics, it also connects to VDOT SMART SCALE scoring criteria.

- Economic Development
 - Increase Square Feet of Commercial/Industrial Uses
- Environment
 - o Potential to Improve Air Quality
 - Reduce Potential to negatively impact Natural and Cultural Acreage





Goal 3 Objectives

The following objectives have been developed to address specific elements of Goal 3: Promote safe travel options for all corridor users:

- Enhance community character/maintain character defining features of the Natural Register Historic District (NRHD)
- Maintain access to local businesses
- Improve roadside drainage
- Enhance streetscapes (e.g. trees, landscaping)
- Private Property/Fiscal Value Benefit

The study objectives directly relate to the evaluation criteria used during the transportation option development process. Since this study is the first step in the project development process, the Study Team used broad evaluation criteria to score identified transportation options at a high level. **Table 8** outlines the evaluation criteria for Goal 3.

KEY TERMS >>>

Community Vision: Refers to community goals for the Town of Port Royal as defined in existing planning documents (e.g. Port Royal Community Plan). Community vision is one of the elements that the study team considered when evaluating transportation options based on the first objective for Goal 3: Enhance community character/maintain character defining features of the Natural Register Historic District (NRHD).





Table 8 Goal 3 Evaluation Criteria

| Objective | Worse or ineffective | Moderate or little change | Better | |
|--|--|---|---|--|
| Enhance community character/maintain character defining features of the Natural Register Historic District | Inconsistent with or alters existing community character, NRHD character defining features and community vision | Does not change existing community character/does not contribute to or detract from community vision or alter defining features of NRHD | Enhances existing community character, increases opportunities for preservation of NRHD character-defining features and advances community vision | |
| Maintain access to local businesses | Reduces access to local businesses | Maintains or modest changes to local business access | Increases safe access to local businesses | |
| Improve roadside drainage | Reduces drainage function | No change to drainage | Improves drainage in project area | |
| Streetscape Enhancement (Trees, Landscaping) | Negatively impacts existing streetscape | Minor or no change to streetscape | Adds landscaping and streetscape amenities | |
| Private Property/Fiscal Value Benefit | Reduces property access to highway | No or modest change to property access to highway | Increases property access to highway | |

Goal 4: Invest in multimodal improvements with a high return on investment

This goal was included to highlight cost-effective transportation options that are more likely to be funded through VDOT's SMART SCALE program. Project funding is competitive and based on a high benefit to cost ratio. Transportation options in Goal 4 are defined as "multimodal improvements," since the study goals could be met with options that affect a mix of transportation modes (e.g. motor vehicles, pedestrians).

Goal 4 Connections to SMART SCALE Scoring Criteria

While Goal 4 does not directly connect to VDOT SMART SCALE scoring criteria, it relates to VDOT's method for ranking SMART SCALE projects. The SMART SCALE scoring criteria are used to help calculate a benefit score for transportation options. This benefit score is compared to the project cost to produce a benefit-cost ratio. Projects are ranked based on this ratio to identify transportation options that will ensure the best use of taxpayer dollars.





Goal 4 Objectives

The following objectives have been developed to address specific elements of Goal 4: Invest in multimodal improvements with a high return on investment:

- Implementation duration
- Project cost
- Private property impacts

The study objectives directly relate to the evaluation criteria used during the transportation option development process. Since this study is the first step in the project development process, the Study Team used broad evaluation criteria to score identified transportation options at a high level. **Table 9** outlines the evaluation criteria for Goal 4.

Table 9 Goal 4 Evaluation Criteria

| Objective | Worse or ineffective | Moderate or little change | Better |
|--------------------------|--------------------------------------|---|---------------------------------------|
| Implementation Duration | Long Project Duration (7 + Years) | Moderate Project Duration (4-7 Years) | Short Project Duration (0-4 Years) |
| Project Cost | High Project Cost ^{1, 2} | Moderate Project Cost ^{1, 2} | Low Project Cost ^{1, 2} |
| Private Property Impacts | High Property Impacts ³ | Moderate Property Impacts ³ | Few Property Impacts ³ |

¹For intersection projects: High (> \$5M), Moderate (\$2M - \$5M), Low (\$0M - \$2M)

KEY TAKEAWAYS FROM THIS CHAPTER >>>

- The study team built on an existing conditions analysis and community outreach effort to identify key issues associated with Route 301 through the Town of Port Royal.
- Issues identified by the study team were used to develop four goals related to mobility and access; safety, community, historic, and natural resources; and economic development.
- Objectives and evaluation criteria related to each goal may be used to evaluate and rank the transportation options developed through this study.





²For roadway segment projects: High (> \$40M), Moderate (\$10M - \$40M), Low (\$0M - \$10M)

³For intersection and roadway segment projects: High (> 50,000 square feet), Moderate (10,000 – 50,000 square feet), Low (0 – 10,000 square feet)

Chapter 4

Transportation Options for Route 301 through Port Royal

TRANSPORTATION OPTIONS FOR ROUTE 301 THROUGH PORT ROYAL

With the study goals and objectives in mind, the Study Team developed several transportation options for Route 301 through the Town of Port Royal.

QUESTIONS THIS CHAPTER ANSWERS >>>

- What transportation options were developed through the Route 301 Port Royal Arterial Management Study that are feasible and potential candidates for further development?
- How does each transportation option meet the goals and objectives of the study?
- How did community members from the Town of Port Royal respond to each transportation option?
- How could each transportation option score in the SMART SCALE funding process?

The Study Team identified and assessed six project options that, individually and grouped together, address study area needs and goals. They are organized according to the two specific areas of need. The first set of options focuses on the intersection of Route 301/Route 17, an important intersection along Route 301 for traffic movement to and from Virginia's Tidewater areas as an alternative to I-64. The second set of options focuses on Route 301's half-mile section through the Town of Port Royal's historic street network and concentration of strip commercial businesses (restaurants, antique dealers, automotive services) and civic buildings (Museum, Fire House, Town Hall/Library, US Post Office). The options for each area of need include:

Intersection of Route 301/Route 17

- Intersection Modification
- Quadrant Roadway
- Market Street Extension

Route 301 through Town

- Two-Way Left-Turn Lane
- Full Raised Median
- One-way Pair "Couplet"

After developing each project option, the Study Team developed cost estimates and assessed their performance based on the study goals, objectives, and SMART SCALE criteria. The Study Team also collected community feedback on each option during public meetings that occurred in June 2019.

Appendix G includes the cost estimates for each option. **Appendix H** includes the traffic operational analysis for each option. **Appendix I** includes detailed community feedback from the June 2019 public meetings. **Appendix J** includes SMART SCALE summary sheets for each option.





Intersection of Route 301/Route 17

The following transportation options focus on the intersection of Route 301/Route 17:

- Intersection Modification
- Quadrant Roadway
- Market Street Extension

Intersection Modification

This option addresses concerns about future delays and queueing at the intersection of Route 301/Route 17 by optimizing the signal, adding an additional southbound left-turn lane on Route 301, providing a dedicated westbound left-turn lane on Route 17, and adding pedestrian accommodations (e.g. crosswalks and ADA-accessible curb ramps) at all four corners of the intersection. **Figure 12** shows a conceptual plan-view of the Intersection Modification option.

The following sections explain how this option relates to each of the study goals, objectives, and evaluation criteria.

Mobility

Future year traffic operations analyses were performed at the study area intersections to understand how the Intersection Modification option could influence the first mobility objective: reduce southbound left-turn back-up at the intersection of Route 301/Route 17. **Table 10** summarizes the operational analysis for the study intersections under the weekday AM, PM, and Sunday worst-case peak hour future traffic conditions. The full analysis can be found in **Appendix H**.

The intersection of Route 301/Route 17 is projected to perform acceptably during each of the peak hours studied. The Intersection Modification is projected to reduce the southbound left-turn backup during all time periods studied and to reduce southbound through and southbound through-right queues well before the nearest unsignalized intersection in the Town of Port Royal (Route 301/Back Street).

Table 10 Intersection Modification Future Year Operational Analysis

| Intersection | Peak Hour | Delay (sec) | Level of Service | v/c | 95th Percentile Queues |
|--------------------|-----------|-------------|------------------|------|------------------------|
| Route 301/Route 17 | AM peak | 23.4 | С | 0.49 | No concerns* |
| | PM peak | 23.6 | С | 0.57 | No concerns* |
| | Sunday | 48.8 | D | 0.96 | No concerns* |

^{*95&}lt;sup>th</sup> percentile queues measured using SimTraffic 9





The Intersection Modification project adds pedestrian curbside accommodation in a limited section of the study area (i.e., the intersection of Route 301/Route 17). By doing so, it decreases out of direction travel for one of two modes (i.e. pedestrians).

Safety

Since the Intersection Modification project focuses on a discrete part of the full study corridor, it is not projected to have a substantial effect on the following safety objectives:

- Improve safety for business egress, left turns (access management)
- Improve safety for business ingress from unprotected lefts
- Improve Route 301 pedestrian/bicycle crossing safety
- Improve driver compliance with posted speeds between the Rappahannock River Bridge and Route 17

Community/Historic/Natural/Civic/Economic Resources

The Intersection Modification will not change the Town of Port Royal's existing community character, contribute to or detract from the community vision, or alter defining features of the National Register Historic District. It will maintain access to local businesses, will not change the existing drainage function, will result in minor changes to existing streetscape, and will not change property access to adjoining highways (i.e. Route 301/Route 17).

Cost Effectiveness

The Intersection Modification option is estimated to be of short duration (0 to 4 years for preliminary engineering, right-of-way and utility relocation, and construction). It is estimated to have a moderate cost (\$3M to \$4M) and moderate right-of-way impacts (19,000 square feet). Estimated costs are reported in 2019 dollars and do not account for future inflation.

Community Feedback

During a June 2019 public meeting, citizens of the Town of Port Royal were provided with a chance to rank each transportation option based on whether they "like," "dislike," or have "no preference" about the transportation option. Eleven meeting participants liked the option, three meeting participants disliked the option, and one meeting participant had no preference about the option. Based on this community feedback, the Intersection Modification option received net positive feedback. **Appendix I** includes detailed community feedback from the June 2019 public meetings.





Figure 12 Intersection Modification – Conceptual Plan-View







JUNE 2019 PUBLIC MEETING FEEDBACK >>>

Participants liked the intersection modification because:

- "Supports businesses: restaurant, antique stores, and museum traffic heading north and south"
- "Least disturbance, probably least expensive"
- "Anytime you improve an existing intersection traffic flows better and safer. This plan would cost less, it is safer and is best possible solution"

Potential SMART SCALE Application

The Study Team developed SMART SCALE summary sheets for each transportation option to estimate how each transportation option could score under the current VDOT SMART SCALE criteria and benefit-cost ratio ranking process. The Intersection Modification option is predicted to achieve a high benefit-cost ratio based on the study criteria outlined in the preceding sections and the SMART SCALE summary sheet found in **Appendix J.**





Quadrant Roadway

This option addresses concerns about future delays and queueing at the intersection of Route 301/Route 17 by building a new connector "Quadrant Roadway" in the northeast corner of the Route 301/Route 17 intersection. The Quadrant Roadway would be designed to serve northbound and southbound left turns. This project diverts heavy southbound left-turn volumes prior to Route 301/Route 17, reduces the number of signal phases and cycle length at Route 301/Route 17, and provides two new coordinated signals at the secondary connections. It also adds pedestrian accommodations. **Figure 13** shows a conceptual plan-view of the Quadrant Roadway option.

The following sections explain how this option relates to each of the study goals, objectives, and evaluation criteria.

Mobility

The southbound left-turning movement on Route 301 was analyzed with two 250-foot turn lanes to accommodate summer seasonal traffic. The connector roadway was analyzed as a three-lane road with two inner loop (clockwise) lanes and one outer loop (counter-clockwise) lane. Three different alternatives were analyzed: (1) diverting only southbound lefts from Route 301, (2) diverting southbound and northbound lefts from Route 301, and (3) diverting all lefts at the intersection onto the Quadrant Roadway. Operational results determined the second alternative to be the most effective. A plan view showing how vehicles would navigate the second alternative is provided in **Figure 14**.

The Quadrant Roadway was analyzed in accordance to the VDOT *Traffic Operations and Safety Analysis Manual*, and traffic operations were performed in Synchro 10 using the *2000 Highway Capacity Manual*. To appropriately compare the network effects, the total delay for the diverted left movements were calculated by summing the delay through each intersection plus the extra distance travel time, seen in **Figure 14**. **Table 11** provides a summary of the analysis, and the full analysis can be found in **Appendix H**.





Table 11 Route 301/Route 17 Quadrant Roadway Operations Analysis – Northbound (NB)/Southbound (SB) Diverted Lefts

| Intersection | Peak Hour | Delay (sec) | Level of Service | v/c | 95th Percentile Queues |
|----------------------------|-----------|----------------|------------------|------|------------------------|
| Route 301/Route 17 | AM peak | 20.8 | С | 0.29 | No concerns |
| | PM peak | 21.2 | С | 0.44 | No concerns |
| | Sunday | 21.6 | С | 0.71 | No concerns |
| Route 301/Quadrant Roadway | AM peak | 5.7 | А | 0.22 | No concerns |
| | PM peak | 3.8 | А | 0.32 | No concerns |
| | Sunday | 18.8 | В | 0.76 | No concerns |
| Route 17/Quadrant Roadway | AM peak | 10.0 | А | 0.14 | No concerns |
| | PM peak | 19.9 | В | 0.20 | No concerns |
| | Sunday | 10.3 | В | 0.36 | No concerns |

^{*95&}lt;sup>th</sup> percentile queues analyzed using SimTraffic 10

As seen in **Table 11**, the delay and level of service (LOS) for the quadrant road remains nearly the same for all peak hours. As seen in **Table 12** the signalized intersection delay and LOS degrade compared to the quadrant road during the Sunday peak hour but remain the same during the AM and PM peak hours. For the Quadrant Roadway, the queues at all approaches and at all intersections are serviced in one cycle and do not exceed the provided storage lengths.

As seen in **Table 12**, the quadrant road uses two additional intersections (seen in in **Figure 14**) to consistently balance the delay at all approaches for all three analyzed peak hours, despite the traffic volume differences.

Table 12 Route 301/Route 17 Quadrant Roadway Operations Analysis – Northbound (NB)/Southbound (SB) Diverted Lefts

| | AM Peal | k Hour | PM Pe | PM Peak Hour | | ak Hour | |
|----------------|------------------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------|--|
| Movement | Intersection Modification | Quadrant Roadway | Intersection Modification | Quadrant Roadway | Intersection Modification | Quadrant Roadway | |
| NB Delay (sec) | 26.2 | 6.8 | 25.2 | 7.8 | 61.2 | 10.8 | |
| SB Delay (sec) | 19.5 | 15.1 | 20.8 | 20.7 | 36.1 | 25.5 | |
| EB Delay (sec) | 21.0 | 42.8 | 26.6 | 43.2 | 54.7 | 46.0 | |
| WB Delay (sec) | 28.8 | 30.2 | 31.4 | 30.2 | 45.7 | 31.6 | |





As seen in **Table 12**, the delay for all approaches remains nearly the same for all peak hours when the intersection is a quadrant road, while the approach delay can vary depending on the peak hour when the intersection is a signalized intersection.

Note that the northbound left movement for the quadrant road takes approximately 120 seconds (including delay at four intersections plus travel time on three segments) for all analyzed time periods, while the traffic signal causes the same movement to experience approximately 100 seconds during the morning and evening peak hours and 75 seconds during the Sunday peak hour. The southbound left movement for the quadrant road takes approximately 70 seconds (including delay at two intersections plus travel time on one segment) for all analyzed periods, while the traffic signal causes the same movement to experience approximately 90 seconds of delay during the Sunday peak hour, 50 seconds during the PM peak hour, and 35 seconds during the AM peak hour. The consistent travel time shows that the Quadrant Roadway balances the delay for all movements while minimizing the overall corridor delay.

The quadrant is projected to reduce the southbound left-turn backup during all time periods studied and to reduce southbound through and southbound through-right queues well before the nearest unsignalized intersection in the Town of Port Royal (Route 301/Back Street). The Quadrant Roadway adds pedestrian curbside accommodation in a limited section of the study area (i.e., the intersection of Route 301/Route 17). By doing so, it decreases out of direction travel for one of two modes (i.e., pedestrians).

Safety

Since the Quadrant Roadway project focuses on a discrete part of the full study corridor, it is not projected to have a substantial effect on the following safety objectives:

- Improve safety for business egress, left turns (access management)
- Improve safety for business ingress from unprotected lefts
- Improve Route 301 pedestrian/bicycle crossing safety
- Improve driver compliance with posted speeds between the Rappahannock River Bridge and Route 17

Community/Historic/Natural/Civic/Economic Resources

The Quadrant Roadway will not change the Town of Port Royal's existing community character, contribute to or detract from the community vision, or alter defining features of the National Register Historic District. It will maintain access to local businesses, will not change the existing drainage function, will result in minor changes to existing streetscape, and will increase property access to adjoining highways (i.e. Route 301/Route 17).





Cost Effectiveness

The Quadrant Roadway option is estimated to be of moderate duration (4 to 7 years for preliminary engineering, right-of-way and utility relocation, and construction). It is estimated to have a high cost (\$6M to \$9M) and moderate right-of-way impacts (43,000 square feet). Estimated costs are reported in 2019 dollars and do not account for future inflation.

Community Feedback

During a June 2019 public meeting, citizens of the Town of Port Royal were provided with a chance to rank each transportation option based on whether they "like," "dislike," or have "no preference" about the transportation option. One meeting participant liked the option, ten meeting participants disliked the option, and four meeting participants had no preference about the option. Based on this community feedback, the Quadrant Roadway option received net negative feedback. **Appendix I** includes detailed community feedback from the June 2019 public meetings.

JUNE 2019 PUBLIC MEETING FEEDBACK >>>

Participants disliked the quadrant roadway because:

- "Confusing to drivers"
- "This plan slows traffic and stops traffic with two additional traffic lights. It just does not work and is unsafe because of backups on Route 301. Costs more than improvement at existing intersection plan"
- "Against new "cut through" taking private property"

Potential SMART SCALE Application

The Study Team developed SMART SCALE summary sheets for each transportation option to estimate how each transportation option could score under the current VDOT SMART SCALE criteria and benefit-cost ratio ranking process. The Quadrant Roadway option is predicted to achieve a moderate benefit-cost ratio based on the study criteria outlined in the preceding sections and the SMART SCALE summary sheet found in **Appendix J.**





Figure 13 Quadrant Roadway - Conceptual Plan-View

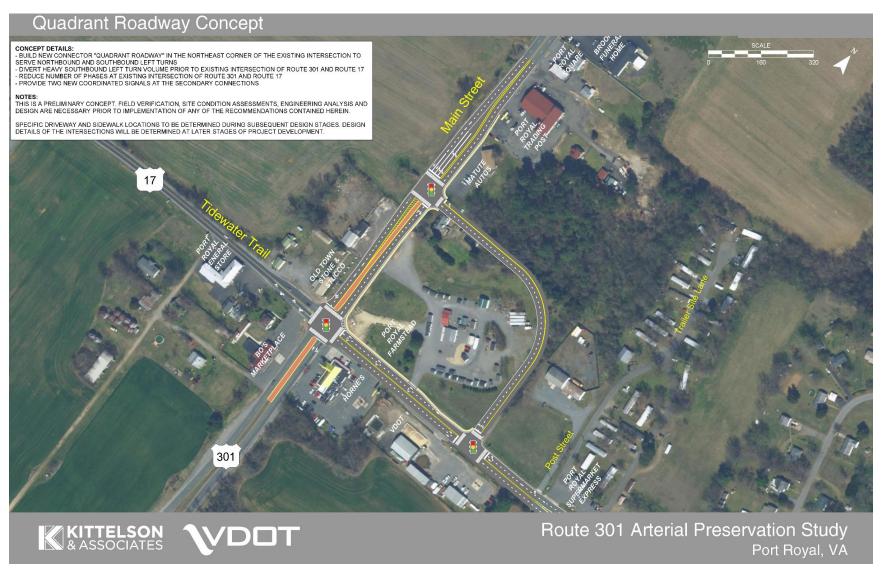
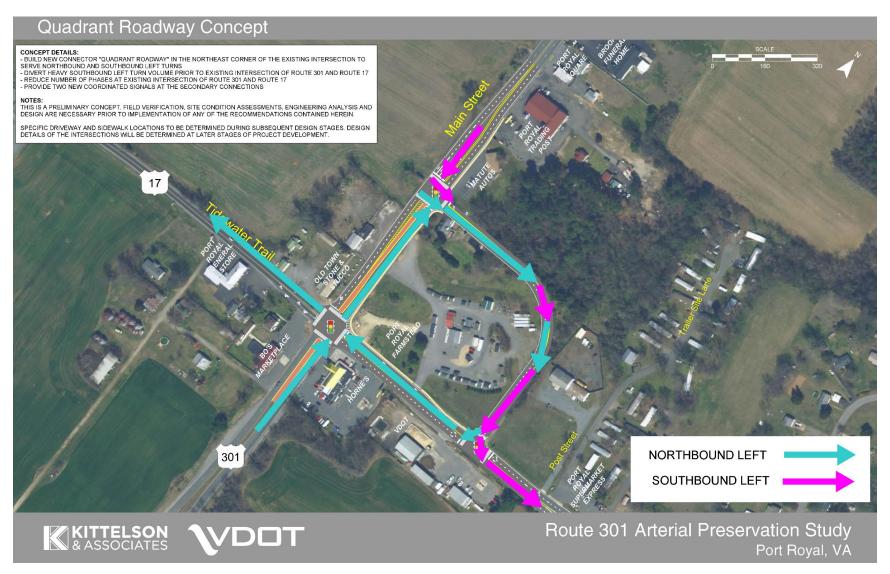






Figure 14 Navigating the Quadrant Roadway – Conceptual Plan-View







Market Street Extension

This option would extend Market Street south to Route 17, providing increased connectivity to the Town of Port Royal. **Figure 15** shows a conceptual plan-view of the Market Street Extension option connecting directly to Route 17. This option may also be combined with the Quadrant Roadway option, as shown in **Figure 16**.

The following sections explain how this option relates to each of the study goals, objectives, and evaluation criteria.

Mobility

The Market Street Extension will provide southbound motorists from the Town of Port Royal with an alternate means of accessing Route 17 and Route 301. Instead of waiting to turn on Route 301 from the Town of Port Royal, local travelers can use Market Street to turn onto Route 17 and travel to points south, east, and west. Diverting this local traffic would reduce southbound queuing at the intersection of Route 301/Route 17 during most time periods. Queues at the unsignalized intersections on Route 301 through the Town of Port Royal would also be reduced. The combined Market Street and Quadrant Roadway option would reduce southbound queueing at the intersection of Route 301/Route 17 during all time periods.

The Market Street Extension does not add pedestrian curbside accommodation. By creating a new link to Route 17, the Market Street Extension decreases out of direction travel for one of two modes (i.e., motorists).

The combined Market Street and Quadrant Roadway option adds pedestrian curbside accommodation in a limited section of the study area (i.e., the intersection of Route 301/17). Combined with the new Market Street link to Route 17, it decreases out of direction travel for two of two modes (i.e., pedestrians and motorists).

Safety

Since the Market Street Extension project does not include changes to Route 301, it is not projected to have a substantial effect on the following safety objectives:

- Improve safety for business ingress from unprotected lefts
- Improve Route 301 pedestrian/bicycle crossing safety
- Improve driver compliance with posted speeds between the Rappahannock River Bridge and Route 17

The Market Street Extension would allow residents the option of turning right onto Route 17 rather than left onto Route 301. This alternative would provide a safety benefit for business egress because





it provides motorists with an alternative to turning left onto Route 301 and crossing traffic from both directions at once.

Community/Historic/Natural/Civic/Economic Resources

The Market Street Extension will enhance the Town of Port Royal's existing community character, advance the community vision, and increase opportunities to preserve the National Register Historic District. It will increase safe access to local businesses, will not change the existing drainage function, will result in minor changes to existing streetscape, and will increase property access to adjoining highways (i.e. Route 301/Route 17).

Cost Effectiveness

The Market Street Extension is estimated to be of moderate duration (4 to 7 years for preliminary engineering, right-of-way and utility relocation, and construction). It is estimated to have a high cost (\$5M to \$7M) and high right-of-way impacts (87,000 square feet). Estimated costs are reported in 2019 dollars and do not account for future inflation.

Community Feedback

During a June 2019 public meeting, citizens of the Town of Port Royal were provided with a chance to rank each transportation option based on whether they "like," "dislike," or have "no preference" about the transportation option. Two meeting participants liked the option, eleven meeting participants disliked the option, and two meeting participants had no preference about the option. Based on this community feedback, the Market Street Extension option received net negative feedback. **Appendix I** includes detailed community feedback from the June 2019 public meetings.

JUNE 2019 PUBLIC MEETING FEEDBACK >>>

Participants disliked the Market Street Extension because:

- "Leave historic town as is"
- "Does not solve anything"
- "Do not want Market Street extended due to cut through/increased traffic in residential area"





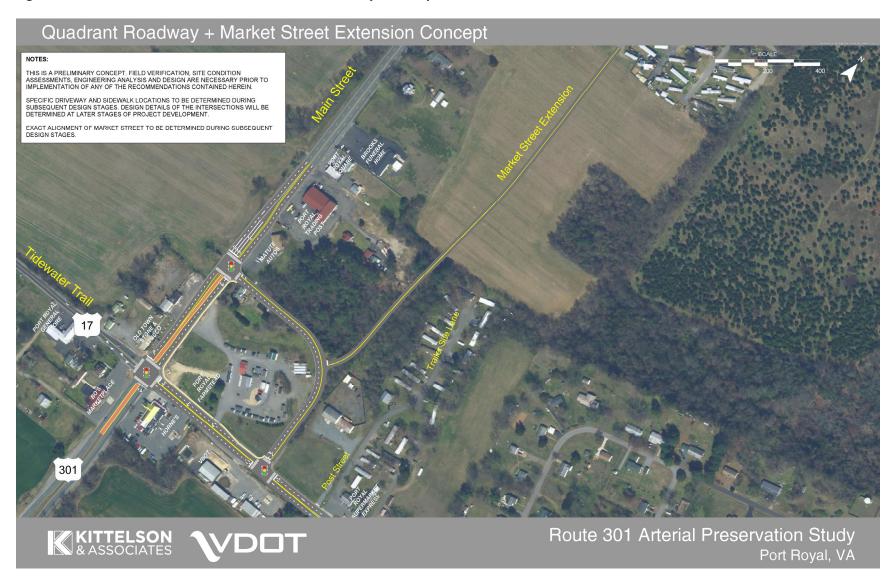
Figure 15 Market Street Extension – Conceptual Plan-View







Figure 16 Market Street Extension with Quadrant Roadway – Conceptual Plan-View







Potential SMART SCALE Application

The Study Team developed SMART SCALE summary sheets for each transportation option to estimate how each transportation option could score under the current VDOT SMART SCALE criteria and benefit-cost ratio ranking process. The Market Street Extension option is predicted to achieve a moderate benefit-cost ratio based on the study criteria outlined in the preceding sections and the SMART SCALE summary sheet found in **Appendix J.**

Intersection of Route 301/Route 17 Summary

The Study Team created an options comparison table to summarize how each transportation option for the intersection of Route 301/Route 17 aligns with the study goals, objectives, and evaluation criteria. **Table 13** shows the summary table. A simple three-point scale is used to allow for a high-level comparison of the different options. Options that make the evaluation criteria better are green, options that make moderate or minor changes to the evaluation criteria are yellow, and options that make the evaluation criteria worse or ineffective are orange.





Route 301 – Port Royal Arterial Management Study

Table 13 Intersection of Route 301/Route 17 Options Comparison

| | | | Route | 301/Route 17 Intersec | tion | Combination | | |
|--|---|---|---|-----------------------|------------------------------|--------------------------|----------------------------|---|
| | | | | Existing | Short-Term | | Mid-Term | |
| Rating Criteria | | | | No Build | Intersection Modification | Quadrant Intersection | Market Street Extension | Quadrant Intersection w/ Market Street Extension |
| | | | Length (miles) | - | - | - | 0.40 | - |
| Performance | Worse or ineffective | Moderate or little change | Better | | | | | |
| Mobility | | | | | | | | |
| Reduce southbound left-turn backup at Route 301/Route 17 intersection | Does not change southbound left- turn backup | Reduces southbound left-turn backup during most time periods | Reduces southbound left-turn backup during all time periods | | | | | |
| Improve pedestrian curbside accommodation along Route 301 | Does not add pedestrian curbside accommodation | Adds pedestrian curbside accommodation on one side of Route 301 in project vicinity | Adds pedestrian curbside accommodation on both sides of Route 301 | | | | | |
| Reduce out of direction travel (driving and walking) | Does not change existing travel patterns or increases out of direction travel | Decreases out of direction travel for one of two modes | Decreases out of direction travel for two of two modes | | | | | |
| Safety | an ection travel | | | | | | | |
| Improve safety for business egress, left turns (access management) | Business egress left from businesses continues to require crossing traffic from both directions | Provides designated waiting places for business egress allowing two stage crossing | Provides designated and protected waiting places for business egress to enter traffic stream | | | | | |
| Improve safety for business ingress from unprotected lefts | Left turning vehicles continue to use thru lanes to access businesses | Provides for right turns for most or all business ingress | Provides right turns and designated/protected waiting places for business ingress | | | | | |
| Improve Route 301 pedestrian/bicycle crossing safety | Does not provide designated safe pedestrian and bicycle crossing options | Adds designated bicycle and pedestrian crossing locations without sidewalk infrastructure | Adds designated bicycle and pedestrian crossing locations with sidewalk infrastructure | | | | | |
| Improve driver compliance with posted speeds between the Rappahannock River Bridge and Route 17 | Does not influence driver compliance with posted speeds | Modifies the roadway character to influence driver compliance | Significantly modifies the roadway character to influence driver compliance | | | | | |
| Community/Historic/Natural/Civic/Econ | omic Resources | | | | | | | |
| Enhance community character/Maintain Character Defining Features of the National Register Historic District | Inconsistent with or alters existing community character, NRHD character defining features and community vision | Does not change existing community character/does not contribute to or detract from community vision or alter defining features of NRHD | Enhances existing community character, increases opportunities for preservation of NRHD character-defining features and advances community vision | | | | | |
| Maintain access to local businesses | Reduces access to local businesses | Maintains or modest changes to local business access | Increases safe access to local businesses | | | | | |
| Improve roadside drainage | Reduces drainage function | No change to drainage | Improves drainage in project area | | | | | |
| Streetscape Enhancement (Trees, Landscaping) | Negatively impacts existing streetscape | Minor or no change to streetscape | Adds landscaping and streetscape amenities | | | | | |
| Private Property/Fiscal Value Benefit | Reduces property access to highway | No or modest change to property access to highway | Increases property access to highway | | | | | |
| Cost Effectiveness | | | | | | | | |
| Implementation Duration | Long Project Duration (7+ years) | Moderate Project Duration (4-7 years) | Short Project Duration (0 -4 years) | | | | | |
| | High Project Cost | Moderate Cost | Low Cost | | | | | |
| Project Cost | (\$5M+) | (\$2M-\$5M) | (\$0-\$2M) | | | | | |
| Private Property Impacts | High Property Impacts (50,000+ Square Feet) | Moderate Property Impacts (10,000 – 50,000 Square Feet) | Few Property Impacts (0 – 10,000 Square Feet) | | | | | |
| | | , | | | | | | |





Route 301 through Town

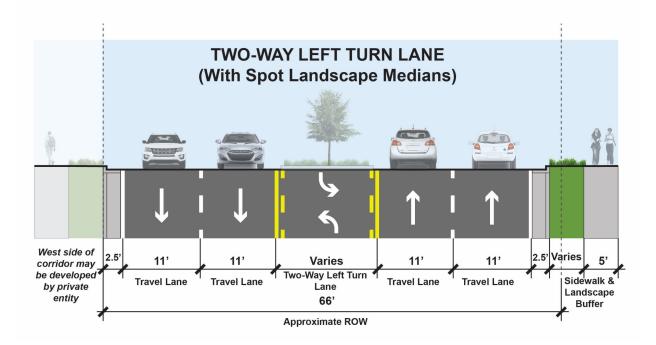
The following transportation options focus on the intersection of Route 301/Route 17:

- Two-Way Left-Turn Lane
- Full Raised Median
- One-way Pair "Couplet"

Two-Way Left-Turn Lane

This option provides a center turning lane for northbound and southbound left-turning movements on Route 301. It adds pedestrian accommodations with "spot-median" locations for crossing Route 301 and landscaping as a visual cue for motorists passing through town. Pedestrian accommodations include a sidewalk on the east side of Route 301 and two pedestrian crossings at Back Street and Caroline Street to facilitate pedestrian travel across Route 301. Pedestrian facilities on the west side of Route 301 may be developed by a private entity. **Figure 17** shows a sample cross-section, and **Figure 18** shows a conceptual plan-view of the Two-Way Left-Turn Lane option.

Figure 17 Two-Way Left-Turn Lane Sample Cross-Section



The following sections explain how this option relates to each of the study goals, objectives, and evaluation criteria.





Mobility

The Two-Way Left-Turn Lane option is not expected to influence southbound left-turn queues at the intersection of Route 301/Route 17. It will add pedestrian curbside accommodation on one side of Route 301. By providing a dedicated Two-Way Left-Turn Lane and adding pedestrian curbside accommodations, this option will decrease out of direction travel for two of two modes (i.e. pedestrians and motorists).

Safety

The Two-Way Left-Turn Lane option will provide designated waiting places (i.e., Two-Way Left-Turn Lane) for business egress, allowing motorists to make a two-stage crossing of Route 301. This will improve safety for business egress (i.e., left-turns out to Route 301), because motorists turning left onto Route 301 will not need to cross traffic from both directions at once. This option will also allow right turns for most or all business ingress points along Route 301 between Back Street and the Rappahannock River Bridge.

The pedestrian accommodations included in this option will contribute designated bicycle and pedestrian crossing locations with sidewalk infrastructure. Traffic calming features (i.e., "spot-median" treatments) will substantially modify the roadway character to influence driver compliance with posted speeds.

Community/Historic/Natural/Civic/Economic Resources

The Two-Way Left-Turn Lane will enhance existing community character, increase opportunities for preservation of National Register Historic District features, and advance the community vision. It will increase safe access to local businesses by enabling motorists to make a two-stage maneuver onto and off of Route 301. The addition of curb and gutter will improve drainage along Route 301, and the "spot-median" treatments and sidewalk will add landscaping and streetscape amenities.

This option will not change property access to Route 301.

Cost Effectiveness

The Two-Way Left-Turn Lane option is estimated to be of moderate duration (4 to 7 years for preliminary engineering, right-of-way and utility relocation, and construction). It is estimated to have a high cost (\$9M to \$12M) and moderate right-of-way impacts (25,000 square feet). Estimated costs are reported in 2019 dollars and do not account for future inflation.





Figure 18 Two-Way Left-Turn Lane - Conceptual Plan-View







Community Feedback

During a June 2019 public meeting, citizens of the Town of Port Royal were provided with a chance to rank each transportation option based on whether they "like," "dislike," or have "no preference" about the transportation option. Five meeting participants liked the option, four meeting participants disliked the option, and six meeting participant had no preference about the option. Based on this community feedback, the Two-Way Left-Turn Lane option received net positive feedback. **Appendix** I includes detailed community feedback from the June 2019 public meetings.

JUNE 2019 PUBLIC MEETING FEEDBACK >>>

Participants liked the Two-Way Left-Turn Lane because:

- "The double left turn lane is the most needed. This would solve a problem area the quickest. Also, this is the low cost solution. This would qualify for VDOT SMART SCALE funding..."
- "Helps local business"
- "First choice. Least invasive; however impact to historic resources (NRHD-listed) needs to be minimized."

Potential SMART SCALE Application

The Study Team developed SMART SCALE summary sheets for each transportation option to estimate how each transportation option could score under the current VDOT SMART SCALE criteria and benefit-cost ratio ranking process. The Two-Way Left-Turn Lane option is predicted to achieve a moderate benefit-cost ratio based on the study criteria outlined in the preceding sections and the SMART SCALE summary sheet found in **Appendix J.**





Full Raised Median

This option provides a full raised median along Route 301 to reduce the number of turning conflict points and to provide protected left turns on Route 301. It provides an acceleration lane on Route 301 southbound from Caroline Street and adds pedestrian accommodation with crosswalk locations, including median refuge areas. Median landscaping may be added as a visual cue through town. Pedestrian accommodations include a sidewalk on the east side of Route 301 and two pedestrian crossings at Back Street and Caroline Street to facilitate pedestrian travel across Route 301. The Full Raised Median will be depressed at Cumberland Street to provide emergency vehicle access. Pedestrian facilities on the west side of Route 301 may be developed by a private entity.

Figure 19 shows a sample cross-section, **Figure 20** shows a conceptual rendering at Back Street, and **Figure 21** shows a conceptual plan-view of the Full Raised Median option.

Figure 19 Raised Median Sample Cross-Section

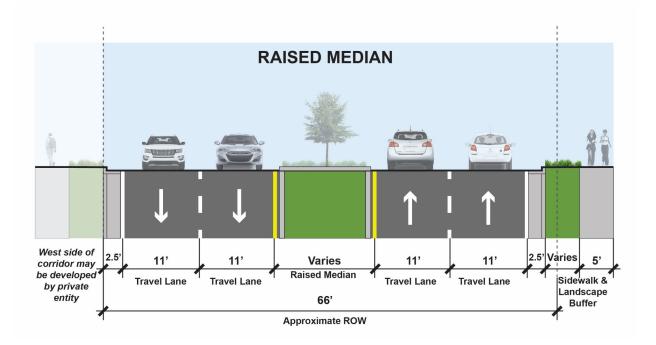






Figure 20 Raised Median at Back Street Rendering²



The following sections explain how this option relates to each of the study goals, objectives, and evaluation criteria.

Mobility

The Full Raised Median option is not expected to influence southbound left-turn queues at the intersection of Route 301/Route 17. It will add pedestrian curbside accommodation on one side of Route 301. By limiting the number of access points to Port Royal (i.e., Back Street, Caroline Street, Water Street) and adding pedestrian curbside accommodations, this option will decrease out of direction travel for just one of two modes (i.e. pedestrians).

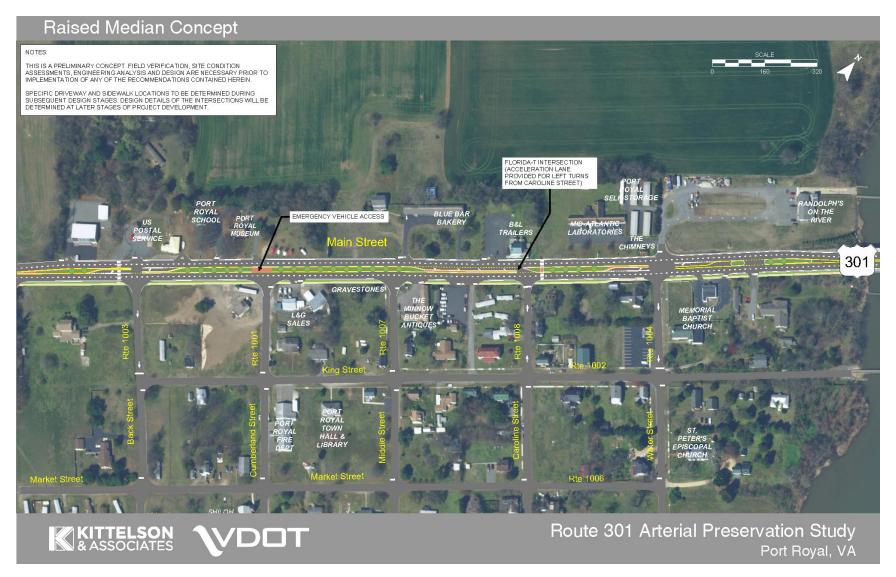
Safety

The Full Raised Median option will provide designated and protected waiting places (i.e. protected left-turn lanes) for business egress, allowing motorists to wait before entering the main flow of traffic. This will improve safety for business egress (i.e., left turns out to Route 301), because motorists turning left onto Route 301 will not need to cross traffic from both directions at once. This option will also allow right turns and designated/protected waiting places for business ingress along Route 301 between Back Street and the Rappahannock River Bridge. The pedestrian accommodations included in this option will contribute designated bicycle and pedestrian crossing locations with sidewalk infrastructure. Traffic calming features (e.g. raised medians with landscaping treatments) will substantially modify the roadway character to influence driver compliance with posted speeds.



² Pedestrian facilities and landscaping (trees) shown on the west side of Route 301 may be developed and maintained by a private entity. Landscaping (Trees) shown on the east side of Route 301 may be developed and maintained by a private entity.

Figure 21 Raised Median - Conceptual Plan-View







Community/Historic/Natural/Civic/Economic Resources

The Full Raised Median option will enhance existing community character, increase opportunities for preservation of National Register Historic District features, and advance the community vision. It will make modest changes to local business access by providing limited, protected waiting spaces for motorists to turn onto and off of Route 301. The addition of curb and gutter will improve drainage along Route 301, and the Full Raised Median treatments and sidewalk will add landscaping and streetscape amenities. This option will make modest changes to property access to Route 301.

Cost Effectiveness

The Full Raised Median option is estimated to be of moderate duration (4 to 7 years for preliminary engineering, right-of-way and utility relocation, and construction). It is estimated to have a high cost (\$11M to \$16M) and moderate right-of-way impacts (25,000 square feet). Estimated costs are reported in 2019 dollars and do not account for future inflation.

Community Feedback

During a June 2019 public meeting, citizens of the Town of Port Royal were provided with a chance to rank each transportation option based on whether they "like," "dislike," or have "no preference" about the transportation option. Four meeting participants liked the option, seven meeting participants disliked the option, and four meeting participants had no preference about the option.

Based on this community feedback, the Full Raised Median option received net negative feedback. **Appendix I** includes detailed community feedback from the June 2019 public meetings.

JUNE 2019 PUBLIC MEETING FEEDBACK >>>

Participants disliked the Full Raised Median because:

- "...limits where turns are permitted"
- "Does little to address volumes"
- "Need lights to cross to get to post office"

Potential SMART SCALE Application

The Study Team developed SMART SCALE summary sheets for each transportation option to estimate how each transportation option could score under the current VDOT SMART SCALE criteria and benefit-cost ratio ranking process. The Full Raised Median option is predicted to achieve a moderate benefit-cost ratio based on the study criteria outlined in the preceding sections and the SMART SCALE summary sheet found in **Appendix J.**





One-Way Pair "Couplet"

This option constructs a new two-lane roadway, paralleling Route 301 to the west, for southbound traffic. It converts existing Route 301 to a two-lane roadway for northbound traffic. The One-Way Pair "Couplet" provides a future opportunity to expand the Town of Port Royal street grid pattern to the west side of Route 301. The current cost estimate and concept does not provide pedestrian accommodation, which may be developed by a private entity.

Figure 22 shows a conceptual plan-view of the One-Way Pair "Couplet" option.

The following sections explain how this option relates to each of the study goals, objectives, and evaluation criteria.

Mobility

The One-Way Pair "Couplet" option is not expected to influence southbound left-turn queues at the intersection of Route 301/Route 17, because it will relocate southbound traffic west of town. It will not add pedestrian curbside accommodation to Route 301. By diverting southbound traffic west of town, the One-Way Pair "Couplet" requires southbound vehicles to navigate two signalized intersections (Couplet/Route 17 and Route 301/Route 17). This increases out of direction travel.

Table 14 summarizes the operational analysis for the study intersections under the weekday AM, PM, and Sunday worst-case peak hour future traffic conditions. The full analysis can be found in **Appendix H**.

The intersection of Route 301/Route 17 is projected to perform acceptably during each of the peak hours studied with the following exceptions:

- During the Sunday worst-case scenario, vehicles waiting to turn right from Route 17 onto Route 301 are projected to wait in queues over 1,000 feet long. These vehicles are southbound vehicles that have been diverted from Route 301 to the couplet west of town and are attempting to continue south on Route 301.
- Vehicles traveling northbound on Route 301 are also projected to wait in queues over 1,000 feet long.
- Due to these large queues, vehicles waiting to turn right from Route 17 onto Route 301 may experience delays of over three minutes (192.1 seconds). Vehicles waiting to continue north on Route 301 may experience delays of up to three minutes (179.9 seconds).
- The intersection is projected to operate well over capacity (1.30 v/c ratio).

The intersection of Route 17 and the new One-Way Pair "Couplet" alignment is projected to perform acceptably during each of the peak hours studied with the following exceptions:





• During the Sunday worst-case scenario, vehicles waiting to turn left from the couplet onto Route 17 are projected to wait in queues over 500 feet long (over twenty vehicles). These vehicles are southbound vehicles that have been diverted from Route 301 to the couplet west of town and are attempting to continue south on Route 301.

Table 14 One-Way Pair "Couplet" Future Year Operational Analysis

| Intersection | Peak Hour | Delay (sec) | Level of Service | v/c | 95th Percentile Queues |
|----------------------|-----------|-------------|------------------|------|--|
| Route 301 / Route 17 | AM peak | 32.5 | С | 0.44 | No concerns |
| | PM peak | 29.8 | С | 0.56 | No concerns |
| | Sunday | 164.4 | F | 0.96 | 95 th percentile queues for EBT, WBT, and NBT movements may exceed intersection capacity |
| Route 17/Couplet | AM peak | 19.3 | В | 0.33 | No concerns |
| | PM peak | 19.7 | В | 0.50 | No concerns |
| | Sunday | 19.8 | В | 0.73 | 95 th percentile queues for SBL movement may exceed twenty vehicles |

Safety

The One-Way Pair "Couplet" will improve safety for business egress and ingress by removing the opposing lane of traffic from both legs of the couplet. This option does not provide pedestrian accommodations or designated safe pedestrian crossing options. It will not modify the roadway character to influence driver compliance with posted speeds.

Community/Historic/Natural/Civic/Economic Resources

The One-Way Pair "Couplet" will not change the Town of Port Royal's existing community character, contribute to or detract from the community vision, or alter defining features of the National Register Historic District. By converting Route 301 to a one-way northbound roadway, the One-Way Pair "Couplet" option reduces access to and visibility of local businesses. It makes no change to drainage function, adds no landscaping or streetscaping amenities, and reduces property access to Route 301.

Cost Effectiveness

The One-Way Pair "Couplet" option is estimated to be of long duration (7+ years for preliminary engineering, right-of-way and utility relocation, and construction). It is estimated to have a very high





cost (\$19M to \$27M) and high right-of-way impacts (300,000 square feet). Estimated costs are reported in 2019 dollars and do not account for future inflation.

Community Feedback

During a June 2019 public meeting, citizens of the Town of Port Royal were provided with a chance to rank each transportation option based on whether they "like," "dislike," or have "no preference" about the transportation option. Three meeting participants liked the option, 11 meeting participants disliked the option, and one meeting participant had no preference about the option. Based on this community feedback, the One-Way Pair "Couplet" option received net negative feedback. **Appendix** I includes detailed community feedback from the June 2019 public meetings.

JUNE 2019 PUBLIC MEETING FEEDBACK >>>

Participants disliked the One-Way Pair "Couplet" because:

- "This is the most costly and it takes in the most private land. This plan should not be part of VDOT study...this plan would hurt the most people and separate crop and farmland. County and Town would have to apply for funding with high cost"
- "It will directly affect my home and my property and my life"
- "Land acquisition will get stuck in litigation; very invasive; negative impact to existing businesses; negative impact to waterfront homes, businesses, and historic resources (identified and unidentified archaeology)"

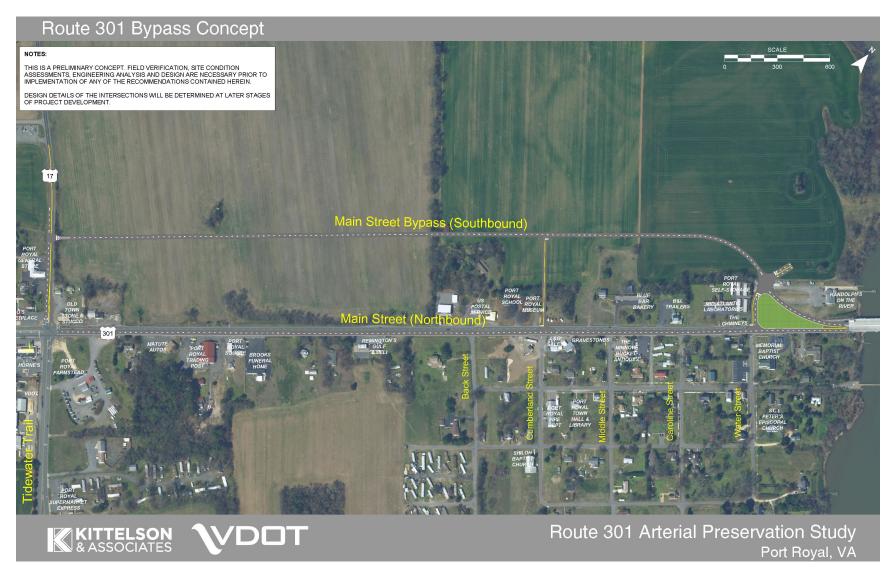
Potential SMART SCALE Application

The Study Team developed SMART SCALE summary sheets for each transportation option to estimate how each transportation option could score under the current VDOT SMART SCALE criteria and benefit-cost ratio ranking process. The One-Way Pair "Couplet" option is predicted to achieve a low benefit-cost ratio based on the study criteria outlined in the preceding sections and the SMART SCALE summary sheet found in **Appendix J.**





Figure 22 One-Way Pair "Couplet" - Conceptual Plan-View







Route 301 through Town Summary

The Study Team created an options comparison table to summarize how each transportation option for Route 301 through town aligns with the study goals, objectives, and evaluation criteria. **Table 15** shows the summary table. A simple three-point scale is used to allow for a high-level comparison of the different options. Options that make the evaluation criteria better are green, options that make moderate or minor changes to the evaluation criteria are yellow, and options that make the evaluation criteria worse or ineffective are orange.





Route 301 – Port Royal Arterial Management Study

Table 15 Route 301 Through Town Options Comparison

| | | | | | Opt | ions | |
|---|---|---|---|----------|----------------------------|---------------|-----------|
| Rating Criteria | | | | | Route 301 tl | | |
| | | | | Existing | Mid-T | erm | Long-Term |
| | | | | No Build | Two-Way Left- Turn Lane | Raised Median | Couplet |
| | | | Length (miles) | 0.47 | 0.47 | 0.47 | 0.76 |
| Performance | Worse or ineffective | Moderate or little change | Better | | | | |
| Mobility | | | | | | | |
| Reduce southbound left-turn backup at Route 301/Route 17 intersection | Does not change southbound left-turn backup | Reduces southbound left-turn backup during most time periods | Reduces southbound left-turn backup during all time periods | | | | |
| Improve pedestrian curbside accommodation | Does not add pedestrian curbside accommodation | Adds pedestrian curbside accommodation on one side of Route 301 | Adds pedestrian curbside accommodation on both sides of Route 301 | | | | |
| Reduce out of direction travel (driving and walking) | Does not change existing travel patterns or increases out of direction travel | Decreases out of direction travel for one of two modes | Decreases out of direction travel for two of two modes | | | | |
| Safety | | | | | | | |
| Improve safety for business egress, left turns out to Route 301 (access management) | Business egress left from businesses continues to require crossing traffic from both directions | Provides designated waiting places for business egress allowing two stage crossing | Provides designated and protected waiting places for business egress to enter traffic stream | | | | |
| Improve safety for business ingress from unprotected lefts from Route 301 | Left turning vehicles continue to use thru lanes to access businesses | Provides for right turns for most or all business ingress | Provides right turns and designated/protected waiting places for business ingress | | | | |
| Improve Route 301 pedestrian/bicycle crossing safety | Does not provide designated safe pedestrian and bicycle crossing options | Adds designated bicycle and pedestrian crossing locations without sidewalk infrastructure | Adds designated bicycle and pedestrian crossing locations with sidewalk infrastructure | | | | |
| Improve driver compliance with posted speeds between the Rappahannock River Bridge and Route 17 (Traffic calming potential) | Does not influence driver compliance with posted speeds | Modifies the roadway character to influence driver compliance | Significantly modifies the roadway character to influence driver compliance | | | | |
| Community/Historic/Natural/Civic/Economic Re | esources | | | | | | |
| Enhance community character/Maintain Character Defining Features of the National Register Historic District | Inconsistent with or alters existing community character, NRHD character defining features and community vision | Does not change existing community character/does not contribute to or detract from community vision or alter defining features of NRHD | Enhances existing community character, increases opportunities for preservation of NRHD character-defining features and advances community vision | | | | |
| Maintain access to local businesses | Reduces access/visibility to local businesses | Maintains or modest changes to local business access/visibility | Increases [safe] access to local businesses | | | | |
| Improve roadside drainage | Reduces drainage function | No change to drainage | Improves drainage along Route 301 | | | | |
| Streetscape Enhancement (Trees, Landscaping) along Route 301 | No landscaping or streetscape amenity | Modest scale landscaping and streetscape amenities | Adds median trees, landscaping and streetscape amenities | | | | |
| Private Property/Fiscal Value Benefit | Reduces property access to highway | No or modest change to property access to highway | Increases property access to highway | | | | |
| Cost Effectiveness | | | | | | | |
| Implementation Duration | Long Project Duration (7+ years) | Moderate Project Duration (4-7 years) | Short Project Duration (0-4 years) | | | | |
| | Very High Cost | High Cost | No, Low or Moderate Cost | | | | |
| Project Cost | (\$20M+) | (\$10M-\$20M) | (\$0-\$10M) | | | | |
| | High or Very High Property Impacts | Moderate Property Impacts | Few Property Impacts | | | | |
| Private Property Impacts | (50,000+ Square Feet) | (10,000 – 50,000 Square Feet) | (0 – 10,000 Square Feet) | | | | |





CONCLUSION

The Study Team, in partnership with VDOT, George Washington Regional Commission, Caroline County, the Town of Port Royal, and the public identified a range of transportation options to treat existing and future transportation challenges facing the Town of Port Royal. Any one or set of these options may be submitted as a SMART SCALE application for VDOT funding. Other potential funding sources include revenue sharing, VDOT Transportation Alternatives funding, VDOT Highway Safety Improvement Program Funding, and Virginia Land Conservation Grants.

- An existing and future conditions assessment shows that the Town of Port Royal may face transportation challenges related to:
 - Mobility
 - The intersection of Route 301/Route 17 is a bottleneck on the otherwise freeflowing Route 301 on special event days (i.e. Sunday beach traffic)
 - Route 301 lacks safe, comfortable facilities for non-motorized users
 - Safety
 - Crashes along Route 301/Route 17 are primarily angle and rear-end crashes, likely related to the difference in speeds between vehicles traveling on Route 301 and vehicles turning onto and off of Route 301 from local streets or access driveways.
 - Community members have reported concerns about being able to safely turn onto and off of Route 301 due to high vehicle speeds on Route 301.
- To address these challenges, the Town of Port Royal should reach consensus on a transportation option that:
 - Preserves and enhances the town's community, historic, natural, civic, and economic resources
 - Is cost effective, so that:
 - Applications for VDOT SMART SCALE funding are competitive with other projects put forward by the Fredericksburg District and by applicants Statewide;
 - Applications for other funding sources (e.g., VDOT Transportation Alternatives, VDOT Highway Safety Improvement Program, Virginia Land Conservation Grants) are competitive;
 - And, if necessary, the project could be funded through a mix of sources, including revenue sharing by the Town of Port Royal.
- VDOT identified and vetted six transportation options to address the Town of Port Royal's transportation challenges:





- Intersection of Route 301/Route 17 Options: Intersection Modification, Quadrant Roadway, Market Street Extension
- Route 301 through Town Options: Two-way Left-Turn Lane, Raised Median, One-way
 Pair "Couplet
- Table 16 presents a high-level summary of public input gathered on the transportation options in June 2019 and an estimate of how each transportation option could score under the current VDOT SMART SCALE criteria and benefit-cost ratio ranking process.

Table 16 Route 301 Options Public Input and Benefit-Cost Ratio Comparison

| Option | Public Feedback Gathered June 2019 | Likely Benefit-Cost Ratio |
|---------------------------|---------------------------------------|---------------------------|
| Intersection Modification | Like | High |
| Quadrant Roadway | Dislike | Moderate |
| Market Street Extension | Dislike | Moderate |
| Two-Way Left-Turn Lane | Like | Moderate |
| Full Raised Median | Dislike | Moderate |
| One-Way Pair "Couplet" | Dislike | Low |

- After reviewing the findings provided herein, VDOT recommends that the Town of Port Royal identify any one or set of these options that they would prefer to advance. Next steps include:
 - Incorporating preferred recommendations into Town of Port Royal Comprehensive Plan and Caroline County Comprehensive Plan;
 - Working with Caroline County and/or George Washington Regional Commission to develop and submit a SMART SCALE application for VDOT funding;
 - Applications due for next SMART SCALE funding cycle in 2020
 - And investigating and applying for other funding sources as needed.





APPENDIX ATraffic Counts

File Name: 1-US 301 & US 17 (Tidewater Trail) FRI

Site Code:

Start Date : 11/2/2018

Page No : 1
Groups Printed- Car

| | | | Rt 301 | | | | | US 17 | , | • | | | Rt 301 | | | | | US 17 | , | | |
|-------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|------------|
| | | So | uthbo | und | | | W | estbou | ınd | | | No | rthbou | und | | | Ea | stbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 29 | 133 | 66 | 0 | 228 | 28 | 19 | 4 | 0 | 51 | 7 | 95 | 1 | 0 | 103 | 2 | 44 | 15 | 0 | 61 | 443 |
| 03:15 PM | 49 | 113 | 58 | 0 | 220 | 44 | 26 | 2 | 0 | 72 | 8 | 92 | 6 | 0 | 106 | 0 | 41 | 20 | 0 | 61 | 459 |
| 03:30 PM | 39 | 117 | 65 | 0 | 221 | 30 | 18 | 6 | 0 | 54 | 3 | 111 | 5 | 0 | 119 | 1 | 33 | 12 | 0 | 46 | 440 |
| 03:45 PM | 33 | 96 | 78 | 0 | 207 | 22 | 17 | 5 | 0 | 44 | 2 | 88 | 7 | 0 | 97 | 3 | 34 | 20 | 0 | 57 | 405 |
| Total | 150 | 459 | 267 | 0 | 876 | 124 | 80 | 17 | 0 | 221 | 20 | 386 | 19 | 0 | 425 | 6 | 152 | 67 | 0 | 225 | 1747 |
| 04:00 PM | 37 | 143 | 66 | 0 | 246 | 29 | 26 | 4 | 0 | 59 | 9 | 104 | 2 | 0 | 115 | 0 | 37 | 20 | 0 | 57 | 477 |
| 04:15 PM | 39 | 98 | 73 | 0 | 210 | 28 | 17 | 4 | 0 | 49 | 1 | 105 | 3 | 0 | 109 | 0 | 34 | 25 | 0 | 59 | 427 |
| 04:30 PM | 55 | 126 | 75 | 0 | 256 | 25 | 24 | 2 | 0 | 51 | 6 | 82 | 0 | 0 | 88 | 1 | 39 | 27 | 0 | 67 | 462 |
| 04:45 PM | 41 | 124 | 67 | 0 | 232 | 39 | 22 | 5 | 0 | 66 | 5 | 96 | 3 | 0 | 104 | 2 | 42 | 27 | 0 | 71 | 473 |
| Total | 172 | 491 | 281 | 0 | 944 | 121 | 89 | 15 | 0 | 225 | 21 | 387 | 8 | 0 | 416 | 3 | 152 | 99 | 0 | 254 | 1839 |
| 05:00 PM | 38 | 131 | 72 | 0 | 241 | 32 | 23 | 1 | 0 | 56 | 7 | 69 | 1 | 0 | 77 | 5 | 36 | 27 | 0 | 68 | 442 |
| 05:15 PM | 42 | 126 | 65 | 0 | 233 | 29 | 27 | 6 | 0 | 62 | 7 | 87 | 4 | 0 | 98 | 1 | 26 | 23 | 0 | 50 | 443 |
| 05:30 PM | 33 | 129 | 50 | 0 | 212 | 40 | 25 | 6 | 0 | 71 | 7 | 79 | 3 | 0 | 89 | 2 | 49 | 18 | 0 | 69 | 441 |
| 05:45 PM | 26 | 116 | 59 | 0 | 201 | 24 | 24 | 6 | 0 | 54 | 7 | 64 | 8 | 0 | 79 | 0 | 30 | 19 | 0 | 49 | 383 |
| Total | 139 | 502 | 246 | 0 | 887 | 125 | 99 | 19 | 0 | 243 | 28 | 299 | 16 | 0 | 343 | 8 | 141 | 87 | 0 | 236 | 1709 |
| 06:00 PM | 17 | 91 | 57 | 0 | 165 | 31 | 29 | 7 | 0 | 67 | 3 | 73 | 2 | 0 | 78 | 1 | 38 | 14 | 0 | 53 | 363 |
| 06:15 PM | 17 | 74 | 42 | 0 | 133 | 21 | 16 | 4 | 0 | 41 | 3 | 58 | 2 | 0 | 63 | 0 | 38 | 15 | 0 | 53 | 290 |
| 06:30 PM | 20 | 74 | 50 | 0 | 144 | 30 | 18 | 3 | 0 | 51 | 5 | 57 | 2 | 0 | 64 | 1 | 30 | 13 | 0 | 44 | 303 |
| 06:45 PM | 13 | 76 | 33 | 0 | 122 | 21 | 21 | 5 | 0 | 47 | 1 | 69 | 2 | 0 | 72 | 0 | 36 | 9 | 0 | 45 | 286 |
| Total | 67 | 315 | 182 | 0 | 564 | 103 | 84 | 19 | 0 | 206 | 12 | 257 | 8 | 0 | 277 | 2 | 142 | 51 | 0 | 195 | 1242 |
| Grand Total | 528 | 1767 | 976 | 0 | 3271 | 473 | 352 | 70 | 0 | 895 | 81 | 1329 | 51 | 0 | 1461 | 19 | 587 | 304 | 0 | 910 | 6537 |
| Apprch % | 16.1 | 54 | 29.8 | 0 | | 52.8 | 39.3 | 7.8 | 0 | | 5.5 | 91 | 3.5 | 0 | | 2.1 | 64.5 | 33.4 | 0 | | |
| Total % | 8.1 | 27 | 14.9 | 0 | 50 | 7.2 | 5.4 | 1.1 | 0 | 13.7 | 1.2 | 20.3 | 0.8 | 0 | 22.3 | 0.3 | 9 | 4.7 | 0 | 13.9 | |

| | | Rt 3 | 301 | | | US | 17 | | | Rt 3 | 301 | | | US | 17 | | |
|------------------------|--------------|-------------|--------------|------------|-------|-------|------|------------|-------|-------|------|------------|-------|-------|------|------------|-----------|
| | | South | bound | | | Westb | ound | | | North | ound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Tota |
| eak Hour Analysis Fron | m 03:00 PM | to 06:45 PM | 1 - Peak 1 o | f 1 | • | • | • | • | | • | • | | • | • | • | | |
| Peak Hour for Entire | Intersection | Begins at | 04:00 PM | | | | | | | | | | | | | | |
| 04:00 PM | 37 | 143 | 66 | 246 | 29 | 26 | 4 | 59 | 9 | 104 | 2 | 115 | 0 | 37 | 20 | 57 | 477 |
| 04:15 PM | 39 | 98 | 73 | 210 | 28 | 17 | 4 | 49 | 1 | 105 | 3 | 109 | 0 | 34 | 25 | 59 | 427 |
| 04:30 PM | 55 | 126 | 75 | 256 | 25 | 24 | 2 | 51 | 6 | 82 | 0 | 88 | 1 | 39 | 27 | 67 | 462 |
| 04:45 PM | 41 | 124 | 67 | 232 | 39 | 22 | 5 | 66 | 5 | 96 | 3 | 104 | 2 | 42 | 27 | 71 | 473 |
| Total Volume | 172 | 491 | 281 | 944 | 121 | 89 | 15 | 225 | 21 | 387 | 8 | 416 | 3 | 152 | 99 | 254 | 1839 |
| % App. Total | 18.2 | 52 | 29.8 | | 53.8 | 39.6 | 6.7 | | 5 | 93 | 1.9 | | 1.2 | 59.8 | 39 | | |
| PHF | 782 | 858 | 937 | 922 | 776 | 856 | 750 | 852 | 583 | 921 | 667 | 904 | 375 | 905 | 917 | 894 | 964 |

File Name: 1-US 301 & US 17 (Tidewater Trail) FRI

Site Code:

Start Date : 11/2/2018

Page No : 1
Groups Printed- Truck

| | | | Rt 30 | 1 | | | | US 17 | 7 | | | | Rt 301 | 1 | | | | US 17 | 7 | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | und | | | No | rthbo | und | | | Ea | estbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 2 | 8 | 2 | 0 | 12 | 1 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 5 | 0 | 1 | 1 | 0 | 2 | 20 |
| 03:15 PM | 0 | 7 | 4 | 0 | 11 | 2 | 2 | 1 | 0 | 5 | 0 | 12 | 1 | 0 | 13 | 1 | 1 | 1 | 0 | 3 | 32 |
| 03:30 PM | 0 | 13 | 2 | 0 | 15 | 2 | 1 | 1 | 0 | 4 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 1 | 0 | 2 | 30 |
| 03:45 PM | 0 | 7 | 2 | 0 | 9 | 1 | 3 | 1 | 0 | 5 | 0 | 9 | 1 | 0 | 10 | 0 | 0 | 4 | 0 | 4 | 28 |
| Total | 2 | 35 | 10 | 0 | 47 | 6 | 6 | 3 | 0 | 15 | 1 | 34 | 2 | 0 | 37 | 1 | 3 | 7 | 0 | 11 | 110 |
| 04:00 PM | 0 | 13 | 1 | 0 | 14 | 3 | 1 | 0 | 0 | 4 | 1 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 23 |
| 04:00 I M | 4 | 8 | 0 | 0 | 12 | 1 | 1 | 1 | 0 | 3 | 1 | 10 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 27 |
| 04:30 PM | 1 | 8 | 1 | 0 | 10 | 3 | 2 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 22 |
| 04:45 PM | 2 | 12 | 1 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 25 |
| Total | 7 | 41 | 3 | 0 | 51 | 7 | - 5 | 1 | 0 | 13 | 1 | 28 | 0 | 0 | 29 | 0 | 1 | 3 | 0 | 4 | 97 |
| 101111 | , | | | Ü | 51 | • | | • | Ü | 15 | | 20 | Ü | Ü | -> | Ü | • | | Ü | • | |
| 05:00 PM | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 12 |
| 05:15 PM | 0 | 11 | 1 | 0 | 12 | 2 | 1 | 0 | 0 | 3 | 1 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 24 |
| 05:30 PM | 2 | 9 | 2 | 0 | 13 | 1 | 0 | 0 | 0 | 1 | 1 | 10 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 26 |
| 05:45 PM | 1 | 10 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 4 | 37 | 4 | 0 | 45 | 3 | 1 | 0 | 0 | 4 | 2 | 25 | 0 | 0 | 27 | 1 | 1 | 0 | 0 | 2 | 78 |
| 06:00 PM | 0 | 4 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | l 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 12 |
| 06:15 PM | 1 | 7 | 4 | 0 | 12 | 2 | 1 | 0 | 0 | 3 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 23 |
| 06:30 PM | 0 | 4 | 3 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 11 |
| 06:45 PM | 0 | 7 | 3 | 0 | 10 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 14 |
| Total | 1 | 22 | 13 | 0 | 36 | 4 | 2 | 0 | 0 | 6 | 2 | 13 | 0 | 0 | 15 | 0 | 3 | 0 | 0 | 3 | 60 |
| 1000 | 1 | | | Ü | 20 | • | - | , | Ü | 0 | _ | | 3 | 0 | .5 | 3 | 3 | 3 | 0 | 3 | |
| Grand Total | 14 | 135 | 30 | 0 | 179 | 20 | 14 | 4 | 0 | 38 | 6 | 100 | 2 | 0 | 108 | 2 | 8 | 10 | 0 | 20 | 345 |
| Apprch % | 7.8 | 75.4 | 16.8 | 0 | | 52.6 | 36.8 | 10.5 | 0 | | 5.6 | 92.6 | 1.9 | 0 | | 10 | 40 | 50 | 0 | | |
| Total % | 4.1 | 39.1 | 8.7 | 0 | 51.9 | 5.8 | 4.1 | 1.2 | 0 | 11 | 1.7 | 29 | 0.6 | 0 | 31.3 | 0.6 | 2.3 | 2.9 | 0 | 5.8 | |

| | | Rt 3 | 301 | | | US | 17 | | | Rt 3 | 301 | | | US | 17 | | |
|-------------------------|--------------|-------------|---------------|------------|-------|-------|------|------------|-------|-------|-------|------------|-------|-------|------|------------|-----------|
| | | South | bound | | | Westb | ound | | | North | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left / | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Tota |
| Peak Hour Analysis Fron | m 03:00 PM | to 06:45 PM | 1 - Peak 1 of | 1 | • | • | • | - | • | • | • | | | • | • | | |
| Peak Hour for Entire | Intersection | Begins at | 03:15 PM | | | | | | | | | | | | | | |
| 03:15 PM | 0 | 7 | 4 | 11 | 2 | 2 | 1 | 5 | 0 | 12 | 1 | 13 | 1 | 1 | 1 | 3 | 32 |
| 03:30 PM | 0 | 13 | 2 | 15 | 2 | 1 | 1 | 4 | 0 | 9 | 0 | 9 | 0 | 1 | 1 | 2 | 30 |
| 03:45 PM | 0 | 7 | 2 | 9 | 1 | 3 | 1 | 5 | 0 | 9 | 1 | 10 | 0 | 0 | 4 | 4 | 28 |
| 04:00 PM | 0 | 13 | 1 | 14 | 3 | 1 | 0 | 4 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 23 |
| Total Volume | 0 | 40 | 9 | 49 | 8 | 7 | 3 | 18 | 0 | 35 | 2 | 37 | 1 | 2 | 6 | 9 | 113 |
| % App. Total | 0 | 81.6 | 18.4 | | 44.4 | 38.9 | 16.7 | 1 | 0 | 94.6 | 5.4 | | 11.1 | 22.2 | 66.7 | | |
| PHE | 000 | 760 | 563 | 817 | 667 | 583 | 750 | 900 | 000 | 720 | 500 | 712 | 250 | 500 | 375 | 563 | 88 |

File Name: 1-US 301 & US 17 (Tidewater Trail) FRI

Site Code:

Start Date : 11/2/2018

: 1

Page No Groups Printed- Combined

| | | | Rt 301 | 1 | | | | US 17 | , | | | | Rt 30 | 1 | | | | US 17 | , | | |
|-------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | W | estbou | ınd | | | No | rthbo | und | | | Ea | astbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 31 | 141 | 68 | 0 | 240 | 29 | 19 | 4 | 0 | 52 | 8 | 99 | 1 | 0 | 108 | 2 | 45 | 16 | 0 | 63 | 463 |
| 03:15 PM | 49 | 120 | 62 | 0 | 231 | 46 | 28 | 3 | 0 | 77 | 8 | 104 | 7 | 0 | 119 | 1 | 42 | 21 | 0 | 64 | 491 |
| 03:30 PM | 39 | 130 | 67 | 0 | 236 | 32 | 19 | 7 | 0 | 58 | 3 | 120 | 5 | 0 | 128 | 1 | 34 | 13 | 0 | 48 | 470 |
| 03:45 PM | 33 | 103 | 80 | 0 | 216 | 23 | 20 | 6 | 0 | 49 | 2 | 97 | 8 | 0 | 107 | 3 | 34 | 24 | 0 | 61 | 433 |
| Total | 152 | 494 | 277 | 0 | 923 | 130 | 86 | 20 | 0 | 236 | 21 | 420 | 21 | 0 | 462 | 7 | 155 | 74 | 0 | 236 | 1857 |
| 04:00 PM | 37 | 156 | 67 | 0 | 260 | 32 | 27 | 4 | 0 | 63 | 9 | 109 | 2 | 0 | 120 | 0 | 37 | 20 | 0 | 57 | 500 |
| 04:15 PM | 43 | 106 | 73 | 0 | 222 | 29 | 18 | 5 | 0 | 52 | 2 | 115 | 3 | 0 | 120 | 0 | 35 | 25 | 0 | 60 | 454 |
| 04:30 PM | 56 | 134 | 76 | 0 | 266 | 28 | 26 | 2 | 0 | 56 | 6 | 87 | 0 | 0 | 93 | 1 | 39 | 29 | 0 | 69 | 484 |
| 04:45 PM | 43 | 136 | 68 | 0 | 247 | 39 | 23 | 5 | 0 | 67 | 5 | 104 | 3 | 0 | 112 | 2 | 42 | 28 | 0 | 72 | 498 |
| Total | 179 | 532 | 284 | 0 | 995 | 128 | 94 | 16 | 0 | 238 | 22 | 415 | 8 | 0 | 445 | 3 | 153 | 102 | 0 | 258 | 1936 |
| | | | | | | | | | | | | | | | | | | | | | , |
| 05:00 PM | 39 | 138 | 72 | 0 | 249 | 32 | 23 | 1 | 0 | 56 | 7 | 72 | 1 | 0 | 80 | 6 | 36 | 27 | 0 | 69 | 454 |
| 05:15 PM | 42 | 137 | 66 | 0 | 245 | 31 | 28 | 6 | 0 | 65 | 8 | 95 | 4 | 0 | 107 | 1 | 26 | 23 | 0 | 50 | 467 |
| 05:30 PM | 35 | 138 | 52 | 0 | 225 | 41 | 25 | 6 | 0 | 72 | 8 | 89 | 3 | 0 | 100 | 2 | 50 | 18 | 0 | 70 | 467 |
| 05:45 PM | 27 | 126 | 60 | 0 | 213 | 24 | 24 | 6 | 0 | 54 | 7 | 68 | 8 | 0 | 83 | 0 | 30 | 19 | 0 | 49 | 399 |
| Total | 143 | 539 | 250 | 0 | 932 | 128 | 100 | 19 | 0 | 247 | 30 | 324 | 16 | 0 | 370 | 9 | 142 | 87 | 0 | 238 | 1787 |
| 06.00 PM | 1.7 | 0.5 | 60 | | 170 | 22 | 20 | - | | co. l | | 7.0 | 2 | | 02.1 | | 20 | | | 50 | 1 255 |
| 06:00 PM | 17 | 95 | 60 | 0 | 172 | 32 | 29 | / | 0 | 68 | 4 | 76 | 2 | 0 | 82 | 1 | 38 | 14 | 0 | 53 | 375 |
| 06:15 PM | 18 | 81 | 46 | 0 | 145 | 23 | 17 | 4 | 0 | 44 | 3 | 66 | 2 | 0 | 71 | 0 | 38 | 15 | 0 | 53 | 313 |
| 06:30 PM | 20 | 78 | 53 | 0 | 151 | 30 | 19 | 3 | 0 | 52 | 6 | 57 | 2 | 0 | 65 | 1 | 32 | 13 | 0 | 46 | 314 |
| 06:45 PM | 13 | 83 | 36 | 0 | 132 | 22 | 21 | 5 | 0 | 48 | 1 | 71 | 2 | 0 | 74 | 0 | 37 | 9 | 0 | 46 | 300 |
| Total | 68 | 337 | 195 | 0 | 600 | 107 | 86 | 19 | 0 | 212 | 14 | 270 | 8 | 0 | 292 | 2 | 145 | 51 | 0 | 198 | 1302 |
| Grand Total | 542 | 1902 | 1006 | 0 | 3450 | 493 | 366 | 74 | 0 | 933 | 87 | 1429 | 53 | 0 | 1569 | 21 | 595 | 314 | 0 | 930 | 6882 |
| Apprch % | 15.7 | 55.1 | 29.2 | 0 | | 52.8 | 39.2 | 7.9 | 0 | | 5.5 | 91.1 | 3.4 | 0 | | 2.3 | 64 | 33.8 | 0 | | |
| Total % | 7.9 | 27.6 | 14.6 | 0 | 50.1 | 7.2 | 5.3 | 1.1 | 0 | 13.6 | 1.3 | 20.8 | 0.8 | 0 | 22.8 | 0.3 | 8.6 | 4.6 | 0 | 13.5 | |

| | | Rt: | 301 | | | US | 17 | | | Rt 3 | 301 | | | US | 17 | | |
|------------------------|--------------|-------------|------------|------------|-------|-------|------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westb | ound | | | North | oound | | | Easth | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fro | m 03:00 PM | to 06:45 PM | M - Peak 1 | of 1 | | • | • | | | • | • | | • | • | • | | |
| Peak Hour for Entire | Intersection | n Begins at | t 04:00 PN | Л | | | | | | | | | | | | | |
| 04:00 PM | 37 | 156 | 67 | 260 | 32 | 27 | 4 | 63 | 9 | 109 | 2 | 120 | 0 | 37 | 20 | 57 | 500 |
| 04:15 PM | 43 | 106 | 73 | 222 | 29 | 18 | 5 | 52 | 2 | 115 | 3 | 120 | 0 | 35 | 25 | 60 | 454 |
| 04:30 PM | 56 | 134 | 76 | 266 | 28 | 26 | 2 | 56 | 6 | 87 | 0 | 93 | 1 | 39 | 29 | 69 | 484 |
| 04:45 PM | 43 | 136 | 68 | 247 | 39 | 23 | 5 | 67 | 5 | 104 | 3 | 112 | 2 | 42 | 28 | 72 | 498 |
| Total Volume | 179 | 532 | 284 | 995 | 128 | 94 | 16 | 238 | 22 | 415 | 8 | 445 | 3 | 153 | 102 | 258 | 1936 |
| % App. Total | 18 | 53.5 | 28.5 | | 53.8 | 39.5 | 6.7 | 1 | 4.9 | 93.3 | 1.8 | | 1.2 | 59.3 | 39.5 | | |
| PHE | 799 | 853 | 03/ | 035 | 821 | 870 | 800 | 888 | 611 | 902 | 667 | 927 | 375 | 011 | 870 | 806 | 968 |

File Name : 1-US 301 & US 17 (Tidewater Trail) AM

Site Code:

Start Date : 11/1/2018

Page No : 1
Groups Printed- Car

| | | | US 30 ⁻ uthbo | | | | | US 17 | , | | | | US 30 ⁻ | | | | | US 17 | | | |
|-------------|-------|------|-----------------------------|------|------------|-------|------|-------|------|------------|-------|------|--------------------|------|------------|-------|------|-------|------|------------|------------|
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:00 AM | 11 | 27 | 3 | 0 | 41 | 23 | 17 | 5 | 0 | 45 | 3 | 39 | 1 | 0 | 43 | 0 | 9 | 18 | 0 | 27 | 156 |
| 06:15 AM | 19 | 42 | 2 | 0 | 63 | 22 | 25 | 11 | 0 | 58 | 1 | 49 | 1 | 0 | 51 | 2 | 6 | 34 | 0 | 42 | 214 |
| 06:30 AM | 17 | 62 | 14 | 0 | 93 | 29 | 18 | 13 | 0 | 60 | 3 | 70 | 3 | 0 | 76 | 9 | 11 | 34 | 0 | 54 | 283 |
| 06:45 AM | 13 | 56 | 14 | 0 | 83 | 27 | 15 | 8 | 0 | 50 | 6 | 60 | 1 | 0 | 67 | 3 | 14 | 36 | 0 | 53 | 253 |
| Total | 60 | 187 | 33 | 0 | 280 | 101 | 75 | 37 | 0 | 213 | 13 | 218 | 6 | 0 | 237 | 14 | 40 | 122 | 0 | 176 | 906 |
| 07:00 AM | 18 | 36 | 14 | 0 | 68 | 22 | 26 | 6 | 0 | 54 | 2 | 51 | 2 | 0 | 55 | 4 | 7 | 43 | 0 | 54 | 231 |
| 07:15 AM | 19 | 54 | 11 | 0 | 84 | 26 | 38 | 9 | 0 | 73 | 6 | 47 | 0 | 0 | 53 | 2 | 17 | 34 | 0 | 53 | 263 |
| 07:30 AM | 25 | 56 | 11 | 0 | 92 | 19 | 26 | 6 | 0 | 51 | 1 | 68 | 0 | 0 | 69 | 1 | 12 | 51 | 0 | 64 | 276 |
| 07:45 AM | 16 | 35 | 13 | 0 | 64 | 24 | 17 | 6 | 0 | 47 | 2 | 56 | 0 | 0 | 58 | 3 | 13 | 31 | 0 | 47 | 216 |
| Total | 78 | 181 | 49 | 0 | 308 | 91 | 107 | 27 | 0 | 225 | 11 | 222 | 2 | 0 | 235 | 10 | 49 | 159 | 0 | 218 | 986 |
| 08:00 AM | 21 | 52 | 20 | 0 | 93 | 13 | 13 | 2 | 0 | 28 | 1 | 41 | 2 | 0 | 44 | 2 | 15 | 49 | 0 | 66 | 231 |
| 08:15 AM | 21 | 56 | 12 | 0 | 89 | 14 | 21 | 4 | 0 | 39 | 2 | 67 | 0 | 0 | 69 | 1 | 12 | 21 | 0 | 34 | 231 |
| 08:30 AM | 14 | 52 | 14 | 0 | 80 | 19 | 19 | 5 | 0 | 43 | 3 | 54 | 1 | 0 | 58 | 0 | 18 | 27 | 0 | 45 | 226 |
| 08:45 AM | 12 | 56 | 17 | 0 | 85 | 16 | 28 | 4 | 0 | 48 | 0 | 39 | 4 | 0 | 43 | 1 | 14 | 23 | 0 | 38 | 214 |
| Total | 68 | 216 | 63 | 0 | 347 | 62 | 81 | 15 | 0 | 158 | 6 | 201 | 7 | 0 | 214 | 4 | 59 | 120 | 0 | 183 | 902 |
| Grand Total | 206 | 584 | 145 | 0 | 935 | 254 | 263 | 79 | 0 | 596 | 30 | 641 | 15 | 0 | 686 | 28 | 148 | 401 | 0 | 577 | 2794 |
| Apprch % | 22 | 62.5 | 15.5 | 0 | | 42.6 | 44.1 | 13.3 | 0 | | 4.4 | 93.4 | 2.2 | 0 | | 4.9 | 25.6 | 69.5 | 0 | | |
| Total % | 7.4 | 20.9 | 5.2 | 0 | 33.5 | 9.1 | 9.4 | 2.8 | 0 | 21.3 | 1.1 | 22.9 | 0.5 | 0 | 24.6 | 1 | 5.3 | 14.4 | 0 | 20.7 | |

| | | US | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|-------------------------|--------------|-------------|------------|------------|-------|-------|-------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westl | oound | | | North | bound | | | Easth | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 06:00 AM | to 08:45 Al | M - Peak 1 | of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire | Intersection | n Begins at | 06:30 AN | M | | | | | | | | | | | | | |
| 06:30 AM | 17 | 62 | 14 | 93 | 29 | 18 | 13 | 60 | 3 | 70 | 3 | 76 | 9 | 11 | 34 | 54 | 283 |
| 06:45 AM | 13 | 56 | 14 | 83 | 27 | 15 | 8 | 50 | 6 | 60 | 1 | 67 | 3 | 14 | 36 | 53 | 253 |
| 07:00 AM | 18 | 36 | 14 | 68 | 22 | 26 | 6 | 54 | 2 | 51 | 2 | 55 | 4 | 7 | 43 | 54 | 231 |
| 07:15 AM | 19 | 54 | 11 | 84 | 26 | 38 | 9 | 73 | 6 | 47 | 0 | 53 | 2 | 17 | 34 | 53 | 263 |
| Total Volume | 67 | 208 | 53 | 328 | 104 | 97 | 36 | 237 | 17 | 228 | 6 | 251 | 18 | 49 | 147 | 214 | 1030 |
| % App. Total | 20.4 | 63.4 | 16.2 | | 43.9 | 40.9 | 15.2 | İ | 6.8 | 90.8 | 2.4 | | 8.4 | 22.9 | 68.7 | | |
| PHF | .882 | .839 | .946 | .882 | .897 | .638 | .692 | .812 | .708 | .814 | .500 | .826 | .500 | .721 | .855 | .991 | .910 |

File Name : 1-US 301 & US 17 (Tidewater Trail) AM

Site Code:

Start Date : 11/1/2018

Page No : 1
Groups Printed- Truck

| | | | US 30 ⁻ | 1 | | | | US 17 | , | • | | | US 30 | | | | | US 17 | • | | |
|-------------|-------|------|--------------------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthboı | und | | | We | estbou | ınd | | | No | rthbo | und | | | Ea | ıstbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:00 AM | 1 | 6 | 2 | 0 | 9 | 1 | 1 | 1 | 0 | 3 | 0 | 4 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 6 | 23 |
| 06:15 AM | 0 | 5 | 2 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 12 | 0 | 0 | 12 | 0 | 1 | 2 | 0 | 3 | 23 |
| 06:30 AM | 0 | 9 | 2 | 0 | 11 | 4 | 0 | 0 | 0 | 4 | 0 | 11 | 0 | 0 | 11 | 1 | 4 | 3 | 0 | 8 | 34 |
| 06:45 AM | 1 | 6 | 4 | 0 | 11 | 2 | 0 | 1 | 0 | | 0 | 16 | 0 | 0 | 16 | 1 | 1 | 0 | 0 | 2 | 32 |
| Total | 2 | 26 | 10 | 0 | 38 | 7 | 1 | 3 | 0 | 11 | 0 | 43 | 1 | 0 | 44 | 2 | 12 | 5 | 0 | 19 | 112 |
| | | _ | | _ | - 1 | | | _ | | . 1 | _ | | | _ | _ 1 | | _ | _ | _ | _ 1 | |
| 07:00 AM | 0 | 7 | 1 | 0 | 8 | 4 | 0 | 0 | 0 | 4 | 0 | 8 | 0 | 0 | 8 | 0 | 3 | 0 | 0 | 3 | 23 |
| 07:15 AM | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 1 | 0 | 2 | 1 | 8 | 1 | 0 | 10 | 1 | 1 | 3 | 0 | 5 | 24 |
| 07:30 AM | 2 | 11 | 3 | 0 | 16 | 0 | 1 | 0 | 0 | 1 | 1 | 9 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 28 |
| 07:45 AM | 0 | 5 | 5 | 0 | 10 | 3 | 1 | 1 | 0 | 5 | 1 | 9 | 0 | 0 | 10 | 0 | 4 | 3 | 0 | 7 | 32 |
| Total | 2 | 30 | 9 | 0 | 41 | 7 | 3 | 2 | 0 | 12 | 3 | 34 | 1 | 0 | 38 | 1 | 9 | 6 | 0 | 16 | 107 |
| | | | | _ | - 1 | _ | _ | | _ | _ 1 | | | _ | _ | | | | | _ | - 1 | |
| 08:00 AM | 1 | 6 | 1 | 0 | 8 | 2 | 2 | 1 | 0 | 5 | 1 | 10 | 2 | 0 | 13 | 0 | 4 | 1 | 0 | 5 | 31 |
| 08:15 AM | 1 | 3 | 0 | 0 | 4 | 6 | 1 | 0 | 0 | 7 | 2 | 12 | 0 | 0 | 14 | 0 | 1 | 2 | 0 | 3 | 28 |
| 08:30 AM | 0 | 11 | 0 | 0 | 11 | 4 | 2 | 1 | 0 | 7 | 1 | 10 | 0 | 0 | 11 | 1 | 3 | 2 | 0 | 6 | 35 |
| 08:45 AM | 0 | 5_ | 1 | 0 | 6 | 8 | 2 | 3 | 0 | 13 | 1 | 9 | 1 | 0 | 11 | 0 | 0 | 1 | 0 | 1 | 31 |
| Total | 2 | 25 | 2 | 0 | 29 | 20 | 7 | 5 | 0 | 32 | 5 | 41 | 3 | 0 | 49 | 1 | 8 | 6 | 0 | 15 | 125 |
| | | | | _ | 1 | | | | _ | 1 | _ | | _ | _ | | | | | _ | 1 | |
| Grand Total | 6 | 81 | 21 | 0 | 108 | 34 | 11 | 10 | 0 | 55 | 8 | 118 | 5 | 0 | 131 | 4 | 29 | 17 | 0 | 50 | 344 |
| Apprch % | 5.6 | 75 | 19.4 | 0 | | 61.8 | 20 | 18.2 | 0 | | 6.1 | 90.1 | 3.8 | 0 | | 8 | 58 | 34 | 0 | | |
| Total % | 1.7 | 23.5 | 6.1 | 0 | 31.4 | 9.9 | 3.2 | 2.9 | 0 | 16 | 2.3 | 34.3 | 1.5 | 0 | 38.1 | 1.2 | 8.4 | 4.9 | 0 | 14.5 | |

| | | US: | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|-------------------------|--------------|-------------|------------|------------|-------|-------|------|------------|-------|-------|------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westb | ound | | | North | ound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From | m 06:00 AM | to 08:45 AN | M - Peak 1 | of 1 | | | | | | | - | | | | | | |
| Peak Hour for Entire | Intersection | Begins at | 07:45 AN | M | | | | | | | | | | | | | |
| 07:45 AM | 0 | 5 | 5 | 10 | 3 | 1 | 1 | 5 | 1 | 9 | 0 | 10 | 0 | 4 | 3 | 7 | 32 |
| 08:00 AM | 1 | 6 | 1 | 8 | 2 | 2 | 1 | 5 | 1 | 10 | 2 | 13 | 0 | 4 | 1 | 5 | 31 |
| 08:15 AM | 1 | 3 | 0 | 4 | 6 | 1 | 0 | 7 | 2 | 12 | 0 | 14 | 0 | 1 | 2 | 3 | 28 |
| 08:30 AM | 0 | 11 | 0 | 11 | 4 | 2 | 1 | 7 | 1 | 10 | 0 | 11 | 1 | 3 | 2 | 6 | 35 |
| Total Volume | 2 | 25 | 6 | 33 | 15 | 6 | 3 | 24 | 5 | 41 | 2 | 48 | 1 | 12 | 8 | 21 | 126 |
| % App. Total | 6.1 | 75.8 | 18.2 | | 62.5 | 25 | 12.5 | | 10.4 | 85.4 | 4.2 | | 4.8 | 57.1 | 38.1 | | |
| PHF | 500 | 568 | 300 | 750 | 625 | 750 | 750 | 857 | 625 | 854 | 250 | 857 | 250 | 750 | 667 | 750 | 900 |

File Name : 1-US 301 & US 17 (Tidewater Trail) AM

Site Code:

Start Date : 11/1/2018

Page No : 1
Groups Printed- Combined

| | | | US 30 | 1 | | | | US 17 | ' | | | | US 30 | 1 | | | | US 17 | , | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbou | und | | | Ea | istbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:00 AM | 12 | 33 | 5 | 0 | 50 | 24 | 18 | 6 | 0 | 48 | 3 | 43 | 2 | 0 | 48 | 0 | 15 | 18 | 0 | 33 | 179 |
| 06:15 AM | 19 | 47 | 4 | 0 | 70 | 22 | 25 | 12 | 0 | 59 | 1 | 61 | 1 | 0 | 63 | 2 | 7 | 36 | 0 | 45 | 237 |
| 06:30 AM | 17 | 71 | 16 | 0 | 104 | 33 | 18 | 13 | 0 | 64 | 3 | 81 | 3 | 0 | 87 | 10 | 15 | 37 | 0 | 62 | 317 |
| 06:45 AM | 14 | 62 | 18 | 0 | 94 | 29 | 15 | 9 | 0 | 53 | 6 | 76 | 1 | 0 | 83 | 4 | 15 | 36 | 0 | 55 | 285 |
| Total | 62 | 213 | 43 | 0 | 318 | 108 | 76 | 40 | 0 | 224 | 13 | 261 | 7 | 0 | 281 | 16 | 52 | 127 | 0 | 195 | 1018 |
| 07.00 434 | 1.0 | 42 | 1.5 | 0 | 76 | 26 | 26 | | 0 | 50 l | 2 | 50 | 2 | 0 | c2 | 4 | 10 | 42 | 0 | 57 | 1 254 |
| 07:00 AM | 18 | 43 | 15 | 0 | 76 | 26 | 26 | 6 | 0 | 58 | 2 | 59 | 2 | 0 | 63 | 4 | 10 | 43 | 0 | 57 | 254 |
| 07:15 AM | 19 | 61 | 11 | 0 | 91 | 26 | 39 | 10 | 0 | 75 | , | 55 | 1 | 0 | 63 | 3 | 18 | 37 | 0 | 58 | 287 |
| 07:30 AM | 27 | 67 | 14 | 0 | 108 | 19 | 27 | 6 | 0 | 52 | 2 | 77 | 0 | 0 | 79 | 1 | 13 | 51 | 0 | 65 | 304 |
| 07:45 AM | 16 | 40 | 18 | 0 | 74 | 27 | 18 | 7 | 0 | 52 | 3 | 65 | 0 | 0 | 68 | 3 | 17 | 34 | 0 | 54 | 248 |
| Total | 80 | 211 | 58 | 0 | 349 | 98 | 110 | 29 | 0 | 237 | 14 | 256 | 3 | 0 | 273 | 11 | 58 | 165 | 0 | 234 | 1093 |
| 08:00 AM | 22 | 58 | 21 | 0 | 101 | 15 | 15 | 3 | 0 | 33 | 2 | 51 | 4 | 0 | 57 | 2 | 19 | 50 | 0 | 71 | 262 |
| 08:15 AM | 22 | 59 | 12 | 0 | 93 | 20 | 22 | 4 | 0 | 46 | 4 | 79 | 0 | 0 | 83 | 1 | 13 | 23 | 0 | 37 | 259 |
| 08:30 AM | 14 | 63 | 14 | 0 | 91 | 23 | 21 | 6 | 0 | 50 | 4 | 64 | 1 | 0 | 69 | 1 | 21 | 29 | 0 | 51 | 261 |
| 08:45 AM | 12 | 61 | 18 | 0 | 91 | 24 | 30 | 7 | 0 | 61 | 1 | 48 | 5 | 0 | 54 | 1 | 14 | 24 | 0 | 39 | 245 |
| Total | 70 | 241 | 65 | 0 | 376 | 82 | 88 | 20 | 0 | 190 | 11 | 242 | 10 | 0 | 263 | 5 | 67 | 126 | 0 | 198 | 1027 |
| | | | | | | | | | | | | | | | | | | | | | |
| Grand Total | 212 | 665 | 166 | 0 | 1043 | 288 | 274 | 89 | 0 | 651 | 38 | 759 | 20 | 0 | 817 | 32 | 177 | 418 | 0 | 627 | 3138 |
| Apprch % | 20.3 | 63.8 | 15.9 | 0 | | 44.2 | 42.1 | 13.7 | 0 | | 4.7 | 92.9 | 2.4 | 0 | | 5.1 | 28.2 | 66.7 | 0 | | 1 |
| Total % | 6.8 | 21.2 | 5.3 | 0 | 33.2 | 9.2 | 8.7 | 2.8 | 0 | 20.7 | 1.2 | 24.2 | 0.6 | 0 | 26 | 1 | 5.6 | 13.3 | 0 | 20 | l |

| | | US | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|------------------------|--------------|-------------|--------------|------------|-------|-------|------|------------|-------|-------|-------|------------|-------|-------|------|------------|-----------|
| | | South | bound | | | Westb | ound | | | North | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Tota |
| Peak Hour Analysis Fro | m 06:00 AM | to 08:45 Al | M - Peak 1 o | f 1 | | - | | | | - | | | | | | | |
| Peak Hour for Entire | Intersection | n Begins at | 06:30 AM | | | | | | | | | | | | | | |
| 06:30 AM | 17 | 71 | 16 | 104 | 33 | 18 | 13 | 64 | 3 | 81 | 3 | 87 | 10 | 15 | 37 | 62 | 317 |
| 06:45 AM | 14 | 62 | 18 | 94 | 29 | 15 | 9 | 53 | 6 | 76 | 1 | 83 | 4 | 15 | 36 | 55 | 285 |
| 07:00 AM | 18 | 43 | 15 | 76 | 26 | 26 | 6 | 58 | 2 | 59 | 2 | 63 | 4 | 10 | 43 | 57 | 254 |
| 07:15 AM | 19 | 61 | 11 | 91 | 26 | 39 | 10 | 75 | 7 | 55 | 1 | 63 | 3 | 18 | 37 | 58 | 287 |
| Total Volume | 68 | 237 | 60 | 365 | 114 | 98 | 38 | 250 | 18 | 271 | 7 | 296 | 21 | 58 | 153 | 232 | 1143 |
| % App. Total | 18.6 | 64.9 | 16.4 | | 45.6 | 39.2 | 15.2 | | 6.1 | 91.6 | 2.4 | | 9.1 | 25 | 65.9 | | |
| PHF | .895 | .835 | .833 | .877 | .864 | .628 | .731 | .833 | .643 | .836 | .583 | .851 | .525 | .806 | .890 | .935 | .901 |

File Name : 1-US 301 & US 17 (Tidewater Trail) PM

Site Code:

Start Date : 11/1/2018

Page No : 1
Groups Printed- Car

| | | | US 30 | 1 | | | | US 17 | , | • | | | US 30 | 1 | | | | US 17 | , | | |
|-------------|-------|----------|-------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbou | und | | | Ea | istbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:00 PM | 31 | 75 | 46 | 0 | 152 | 17 | 15 | 7 | 0 | 39 | 13 | 71 | 7 | 0 | 91 | 2 | 38 | 18 | 0 | 58 | 340 |
| 04:15 PM | 36 | 87 | 50 | 0 | 173 | 17 | 26 | 7 | 0 | 50 | 4 | 72 | 1 | 0 | 77 | 3 | 31 | 21 | 0 | 55 | 355 |
| 04:30 PM | 65 | 88 | 51 | 0 | 204 | 21 | 17 | 2 | 0 | 40 | 7 | 74 | 0 | 0 | 81 | 6 | 29 | 18 | 0 | 53 | 378 |
| 04:45 PM | 56 | 99 | 37 | 0 | 192 | 15 | 22 | 4 | 0 | 41 | 6 | 70 | 5 | 0 | 81 | 0 | 31 | 25 | 0 | 56 | 370 |
| Total | 188 | 349 | 184 | 0 | 721 | 70 | 80 | 20 | 0 | 170 | 30 | 287 | 13 | 0 | 330 | 11 | 129 | 82 | 0 | 222 | 1443 |
| 05:00 PM | 46 | 99 | 60 | 0 | 205 | 20 | 12 | 5 | 0 | 37 | 3 | 68 | 3 | 1 | 75 | 4 | 23 | 22 | 0 | 49 | 366 |
| 05:15 PM | 32 | 99 97 | 45 | 0 | 174 | 24 | 18 | 2 | 0 | 44 | 4 | 72 | 1 | 1 | 78 | 2 | 30 | 28 | 0 | 60 | 356 |
| 05:30 PM | 44 | 86 | 66 | 0 | 196 | 21 | 15 | 2 Q | 0 | 44 | 12 | 67 | 1 | 0 | 80 | 1 | 37 | 27 | 0 | 65 | 385 |
| 05:45 PM | 28 | 96 | 50 | 0 | 174 | 20 | 20 | 8 | 0 | 48 | 11 | 56 | 3 | 0 | 70 | 2 | 29 | 23 | 0 | 54 | 346 |
| Total | 150 | 378 | 221 | 0 | 749 | 85 | 65 | 23 | 0 | 173 | 30 | 263 | 8 | 2 | 303 | 9 | 119 | 100 | 0 | 228 | 1453 |
| Total | 130 | 370 | 221 | Ü | 777 | 03 | 03 | 23 | Ü | 173 | 30 | 203 | o | 2 | 303 | | 117 | 100 | Ü | 220 | 1433 |
| 06:00 PM | 44 | 92 | 53 | 0 | 189 | 19 | 13 | 4 | 0 | 36 | 6 | 56 | 3 | 0 | 65 | 0 | 32 | 21 | 0 | 53 | 343 |
| 06:15 PM | 23 | 69 | 32 | 0 | 124 | 17 | 16 | 2 | 0 | 35 | 5 | 48 | 4 | 0 | 57 | 2 | 32 | 17 | 0 | 51 | 267 |
| 06:30 PM | 23 | 65 | 36 | 0 | 124 | 19 | 9 | 4 | 0 | 32 | 1 | 45 | 2 | 0 | 48 | 1 | 27 | 11 | 0 | 39 | 243 |
| 06:45 PM | 15 | 52 | 33 | 0 | 100 | 7 | 13 | 0 | 0 | 20 | 7 | 54 | 4 | 0 | 65 | 1 | 21 | 10 | 0 | 32 | 217 |
| Total | 105 | 278 | 154 | 0 | 537 | 62 | 51 | 10 | 0 | 123 | 19 | 203 | 13 | 0 | 235 | 4 | 112 | 59 | 0 | 175 | 1070 |
| g 150 1 | | 4005 | | | 2005 | 245 | 407 | | | | =0 | === | 2.4 | | مرم ا | | 2.00 | | | <0.5 | 1 2055 |
| Grand Total | 443 | 1005 | 559 | 0 | 2007 | 217 | 196 | 53 | 0 | 466 | 79 | 753 | 34 | 2 | 868 | 24 | 360 | 241 | 0 | 625 | 3966 |
| Appreh % | 22.1 | 50.1 | 27.9 | 0 | 50.6 | 46.6 | 42.1 | 11.4 | 0 | | 9.1 | 86.8 | 3.9 | 0.2 | 21.0 | 3.8 | 57.6 | 38.6 | 0 | 15.0 | |
| Total % | 11.2 | 25.3 | 14.1 | 0 | 50.6 | 5.5 | 4.9 | 1.3 | 0 | 11.7 | 2 | 19 | 0.9 | 0.1 | 21.9 | 0.6 | 9.1 | 6.1 | 0 | 15.8 | |

| | | US | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|-------------------------|--------------|-------------|------------|------------|-------|------|-------|------------|-------|--------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | West | oound | | | Northi | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 04:00 PM | to 06:45 PM | 1 - Peak 1 | of 1 | | - | | | | | | | | | | | |
| Peak Hour for Entire | Intersection | n Begins at | 04:45 PM | 1 | | | | | | | | | | | | | |
| 04:45 PM | 56 | 99 | 37 | 192 | 15 | 22 | 4 | 41 | 6 | 70 | 5 | 81 | 0 | 31 | 25 | 56 | 370 |
| 05:00 PM | 46 | 99 | 60 | 205 | 20 | 12 | 5 | 37 | 3 | 68 | 3 | 74 | 4 | 23 | 22 | 49 | 365 |
| 05:15 PM | 32 | 97 | 45 | 174 | 24 | 18 | 2 | 44 | 4 | 72 | 1 | 77 | 2 | 30 | 28 | 60 | 355 |
| 05:30 PM | 44 | 86 | 66 | 196 | 21 | 15 | 8 | 44 | 12 | 67 | 1 | 80 | 1 | 37 | 27 | 65 | 385 |
| Total Volume | 178 | 381 | 208 | 767 | 80 | 67 | 19 | 166 | 25 | 277 | 10 | 312 | 7 | 121 | 102 | 230 | 1475 |
| % App. Total | 23.2 | 49.7 | 27.1 | | 48.2 | 40.4 | 11.4 | İ | 8 | 88.8 | 3.2 | | 3 | 52.6 | 44.3 | | |
| PHF | .795 | .962 | .788 | .935 | .833 | .761 | .594 | .943 | .521 | .962 | .500 | .963 | .438 | .818 | .911 | .885 | .958 |

File Name : 1-US 301 & US 17 (Tidewater Trail) PM

Site Code:

Start Date : 11/1/2018

Page No : 1
Groups Printed- Truck

| | | | US 30 | 1 | | | | US 17 | • | • | | | US 30 | 1 | | | | US 17 | ' | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbo | und | | | Ea | istbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:00 PM | 1 | 12 | 0 | 0 | 13 | 2 | 0 | 0 | 0 | 2 | 0 | 11 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 27 |
| 04:15 PM | 0 | 9 | 4 | 0 | 13 | 4 | 6 | 1 | 0 | 11 | 2 | 21 | 0 | 0 | 23 | 0 | 1 | 2 | 0 | 3 | 50 |
| 04:30 PM | 0 | 9 | 4 | 0 | 13 | 6 | 4 | 0 | 0 | 10 | 1 | 11 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 36 |
| 04:45 PM | 1 | 14 | 6 | 0 | 21 | 3 | 3 | 0 | 0 | 6 | 0 | 7 | 0 | 0 | 7 | 1 | 4 | 1 | 0 | 6 | 40 |
| Total | 2 | 44 | 14 | 0 | 60 | 15 | 13 | 1 | 0 | 29 | 3 | 50 | 0 | 0 | 53 | 1 | 6 | 4 | 0 | 11 | 153 |
| 05.00 DM | | 16 | 2 | 0 | 10 | 0 | 2 | 0 | 0 | 2 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |] 21 |
| 05:00 PM | 1 | 16 | 2 | 0 | 19 | 0 | 2 | 0 | 0 | 2 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 31 |
| 05:15 PM | 2 | 6 | 3 | 0 | 11 | 1 | 4 | 0 | 0 | 5 | 0 | 6 | 0 | 0 | 6 | 0 | 3 | 1 | 0 | 4 | 26 |
| 05:30 PM | 1 | 12 | 3 | 0 | 11 | 1 | 1 | 0 | 0 | 2 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 26 |
| 05:45 PM | 2 | 12 | 2 | 0 | 16 | 2 | 0 | 0 | 0 | | 0 | | 0 | 0 | 9 | 0 | 2 | 0 | 0 | | 29 |
| Total | 6 | 41 | 10 | 0 | 57 | 4 | / | 0 | 0 | 11 | 0 | 37 | 0 | 0 | 37 | 0 | 5 | 2 | 0 | / | 112 |
| 06:00 PM | 2 | 6 | 2 | 0 | 10 | 1 | 1 | 1 | 0 | 3 | 2 | 5 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 22 |
| 06:15 PM | 2 | 10 | 0 | 0 | 12 | 2 | 2 | 0 | 0 | 4 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 24 |
| 06:30 PM | 0 | 15 | 1 | 0 | 16 | 3 | 1 | 0 | 0 | 4 | 1 | 4 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 26 |
| 06:45 PM | 1 | 6 | 4 | 0 | 11 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 3 | 18 |
| Total | 5 | 37 | 7 | 0 | 49 | 6 | 6 | 1 | 0 | 13 | 4 | 17 | 0 | 0 | 21 | 0 | 5 | 2 | 0 | 7 | 90 |
| | | | | | 1 | | | _ | _ | 1 | _ | | | | | | | _ | _ | | |
| Grand Total | 13 | 122 | 31 | 0 | 166 | 25 | 26 | 2 | 0 | 53 | 7 | 104 | 0 | 0 | 111 | 1 | 16 | 8 | 0 | 25 | 355 |
| Apprch % | 7.8 | 73.5 | 18.7 | 0 | | 47.2 | 49.1 | 3.8 | 0 | | 6.3 | 93.7 | 0 | 0 | | 4 | 64 | 32 | 0 | _ | |
| Total % | 3.7 | 34.4 | 8.7 | 0 | 46.8 | 7 | 7.3 | 0.6 | 0 | 14.9 | 2 | 29.3 | 0 | 0 | 31.3 | 0.3 | 4.5 | 2.3 | 0 | 7 | 1 |

| | | US | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|-------------------------|--------------|-------------|------------|------------|-------|-------|------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westb | ound | | | North | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 04:00 PM | to 06:45 PM | 1 - Peak 1 | of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire | Intersection | n Begins at | 04:15 PN | M | | | | | | | | | | | | | |
| 04:15 PM | 0 | 9 | 4 | 13 | 4 | 6 | 1 | 11 | 2 | 21 | 0 | 23 | 0 | 1 | 2 | 3 | 50 |
| 04:30 PM | 0 | 9 | 4 | 13 | 6 | 4 | 0 | 10 | 1 | 11 | 0 | 12 | 0 | 0 | 1 | 1 | 36 |
| 04:45 PM | 1 | 14 | 6 | 21 | 3 | 3 | 0 | 6 | 0 | 7 | 0 | 7 | 1 | 4 | 1 | 6 | 40 |
| 05:00 PM | 1 | 16 | 2 | 19 | 0 | 2 | 0 | 2 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 31 |
| Total Volume | 2 | 48 | 16 | 66 | 13 | 15 | 1 | 29 | 3 | 49 | 0 | 52 | 1 | 5 | 4 | 10 | 157 |
| % App. Total | 3 | 72.7 | 24.2 | | 44.8 | 51.7 | 3.4 | | 5.8 | 94.2 | 0 | | 10 | 50 | 40 | | |
| PHF | .500 | .750 | .667 | .786 | .542 | .625 | .250 | .659 | .375 | .583 | .000 | .565 | .250 | .313 | .500 | .417 | .785 |

File Name : 1-US 301 & US 17 (Tidewater Trail) PM

Site Code:

Start Date : 11/1/2018

Page No : 1
Groups Printed- Combined

| | | | US 30 | 1 | | | | US 17 | ' | | | | US 30 ⁻ | 1 | | | | US 17 | , | | 1 |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|--------------------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbou | und | | | Ea | istbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:00 PM | 32 | 87 | 46 | 0 | 165 | 19 | 15 | 7 | 0 | 41 | 13 | 82 | 7 | 0 | 102 | 2 | 39 | 18 | 0 | 59 | 367 |
| 04:15 PM | 36 | 96 | 54 | 0 | 186 | 21 | 32 | 8 | 0 | 61 | 6 | 93 | 1 | 0 | 100 | 3 | 32 | 23 | 0 | 58 | 405 |
| 04:30 PM | 65 | 97 | 55 | 0 | 217 | 27 | 21 | 2 | 0 | 50 | 8 | 85 | 0 | 0 | 93 | 6 | 29 | 19 | 0 | 54 | 414 |
| 04:45 PM | 57 | 113 | 43 | 0 | 213 | 18 | 25 | 4 | 0 | 47 | 6 | 77 | 5 | 0 | 88 | 1 | 35 | 26 | 0 | 62 | 410 |
| Total | 190 | 393 | 198 | 0 | 781 | 85 | 93 | 21 | 0 | 199 | 33 | 337 | 13 | 0 | 383 | 12 | 135 | 86 | 0 | 233 | 1596 |
| 05:00 PM | 47 | 115 | 62 | 0 | 224 | 20 | 14 | 5 | 0 | 39 | 3 | 78 | 3 | 1 | 85 | 4 | 23 | 22 | 0 | 49 | 397 |
| 05:15 PM | 34 | 103 | 48 | 0 | 185 | 25 | 22 | 2 | 0 | 49 | 4 | 78 | 1 | 1 | 84 | 2 | 33 | 29 | 0 | 64 | 382 |
| 05:30 PM | 45 | 93 | 69 | 0 | 207 | 22 | 16 | 8 | 0 | 46 | 12 | 79 | 1 | 0 | 92 | 1 | 37 | 28 | 0 | 66 | 411 |
| 05:45 PM | 30 | 108 | 52 | 0 | 190 | 22 | 20 | 8 | 0 | 50 | 11 | 65 | 3 | 0 | 79 | 2 | 31 | 23 | 0 | 56 | 375 |
| Total | 156 | 419 | 231 | 0 | 806 | 89 | 72 | 23 | 0 | 184 | 30 | 300 | 8 | 2 | 340 | 9 | 124 | 102 | 0 | 235 | 1565 |
| | | | | | | | | | | | | | | | | | | | | | 1 |
| 06:00 PM | 46 | 98 | 55 | 0 | 199 | 20 | 14 | 5 | 0 | 39 | 8 | 61 | 3 | 0 | 72 | 0 | 34 | 21 | 0 | 55 | 365 |
| 06:15 PM | 25 | 79 | 32 | 0 | 136 | 19 | 18 | 2 | 0 | 39 | 6 | 54 | 4 | 0 | 64 | 2 | 32 | 18 | 0 | 52 | 291 |
| 06:30 PM | 23 | 80 | 37 | 0 | 140 | 22 | 10 | 4 | 0 | 36 | 2 | 49 | 2 | 0 | 53 | 1 | 28 | 11 | 0 | 40 | 269 |
| 06:45 PM | 16 | 58 | 37 | 0 | 111 | 7 | 15 | 0 | 0 | 22 | 7 | 56 | 4 | 0 | 67 | 1 | 23 | 11 | 0 | 35 | 235 |
| Total | 110 | 315 | 161 | 0 | 586 | 68 | 57 | 11 | 0 | 136 | 23 | 220 | 13 | 0 | 256 | 4 | 117 | 61 | 0 | 182 | 1160 |
| Grand Total | 456 | 1127 | 590 | 0 | 2173 | 242 | 222 | 55 | 0 | 519 | 86 | 857 | 34 | 2 | 979 | 25 | 376 | 249 | 0 | 650 | 4321 |
| Appreh % | 21 | 51.9 | 27.2 | 0 | 2173 | 46.6 | 42.8 | 10.6 | 0 | 319 | 8.8 | 87.5 | 3.5 | 0.2 | 212 | 3.8 | 57.8 | 38.3 | 0 | 030 | 7321 |
| Total % | 10.6 | 26.1 | 13.7 | 0 | 50.3 | 5.6 | 5.1 | 1.3 | 0 | 12 | 2.0 | 19.8 | 0.8 | 0.2 | 22.7 | 0.6 | 8.7 | 5.8 | 0 | 15 | |
| rotai 70 | 10.0 | 23.1 | 13.7 | Ü | 50.5 | 5.0 | 5.1 | 1.5 | Ü | 12 | - | 17.0 | 5.0 | Ü | 22.7 | 5.0 | 5.7 | 5.0 | Ü | 13 | 1 |

| | | US | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|------------------------|--------------|-------------|------------|------------|-------|------|-------|------------|-------|-------|-------|------------|-------|-------|-------|------------|------------|
| | | South | bound | | | West | oound | | | North | oound | | | Easth | oound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fro | m 04:00 PM | to 06:45 PM | M - Peak 1 | of 1 | | - | | | | | - | | | | | | |
| Peak Hour for Entire | Intersection | n Begins at | t 04:15 PN | M | | | | | | | | | | | | | |
| 04:15 PM | 36 | 96 | 54 | 186 | 21 | 32 | 8 | 61 | 6 | 93 | 1 | 100 | 3 | 32 | 23 | 58 | 405 |
| 04:30 PM | 65 | 97 | 55 | 217 | 27 | 21 | 2 | 50 | 8 | 85 | 0 | 93 | 6 | 29 | 19 | 54 | 414 |
| 04:45 PM | 57 | 113 | 43 | 213 | 18 | 25 | 4 | 47 | 6 | 77 | 5 | 88 | 1 | 35 | 26 | 62 | 410 |
| 05:00 PM | 47 | 115 | 62 | 224 | 20 | 14 | 5 | 39 | 3 | 78 | 3 | 84 | 4 | 23 | 22 | 49 | 396 |
| Total Volume | 205 | 421 | 214 | 840 | 86 | 92 | 19 | 197 | 23 | 333 | 9 | 365 | 14 | 119 | 90 | 223 | 1625 |
| % App. Total | 24.4 | 50.1 | 25.5 | | 43.7 | 46.7 | 9.6 | | 6.3 | 91.2 | 2.5 | | 6.3 | 53.4 | 40.4 | | |
| PHF | .788 | .915 | .863 | .938 | .796 | .719 | .594 | .807 | .719 | .895 | .450 | .913 | .583 | .850 | .865 | .899 | .981 |

File Name: 1-US 301 and US 17 SUN

Site Code:

Start Date : 11/25/2018

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| | | | US 30 ⁻ | 1 | | | | US 17 | , | • | | | US 301 | 1 | | | | US 17 | , | | |
|-------------|-------|------|--------------------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbou | ınd | | | Ea | stbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 12 | 179 | 80 | 0 | 271 | 72 | 29 | 5 | 0 | 106 | 2 | 262 | 12 | 0 | 276 | 5 | 39 | 20 | 0 | 64 | 717 |
| 03:15 PM | 15 | 204 | 102 | 0 | 321 | 84 | 35 | 2 | 0 | 121 | 2 | 284 | 3 | 0 | 289 | 1 | 20 | 13 | 0 | 34 | 765 |
| 03:30 PM | 19 | 167 | 73 | 0 | 259 | 80 | 38 | 10 | 0 | 128 | 3 | 279 | 0 | 0 | 282 | 3 | 56 | 17 | 0 | 76 | 745 |
| 03:45 PM | 12 | 173 | 62 | 0 | 247 | 59 | 26 | 2 | 0 | 87 | 8 | 268 | 3 | 0 | 279 | 1 | 39 | 15 | 0 | 55 | 668 |
| Total | 58 | 723 | 317 | 0 | 1098 | 295 | 128 | 19 | 0 | 442 | 15 | 1093 | 18 | 0 | 1126 | 10 | 154 | 65 | 0 | 229 | 2895 |
| 04:00 PM | 10 | 171 | 88 | 0 | 269 | 86 | 47 | 4 | 0 | 137 | 1 | 191 | 1 | 0 | 193 | 1 | 47 | 12 | 0 | 60 | 659 |
| 04:15 PM | 15 | 200 | 65 | 0 | 280 | 79 | 47 | 3 | 0 | 129 | 3 | 219 | 4 | 0 | 226 | 2 | 44 | 11 | 0 | 57 | 692 |
| 04:30 PM | 12 | 216 | 82 | 0 | 310 | 76 | 35 | 3 | 0 | 114 | 5 | 264 | 2 | 0 | 271 | 4 | 29 | 20 | 0 | 53 | 748 |
| 04:45 PM | 9 | 157 | 66 | 0 | 232 | 71 | 34 | 2 | 3 | 110 | 5 | 181 | 1 | 0 | 187 | 0 | 46 | 22 | 0 | 68 | 597 |
| Total | 46 | 744 | 301 | 0 | 1091 | 312 | 163 | 12 | 3 | 490 | 14 | 855 | 8 | 0 | 877 | 7 | 166 | 65 | 0 | 238 | 2696 |
| 05:00 PM | 8 | 151 | 62 | 0 | 221 | 70 | 30 | 7 | 0 | 107 | 7 | 236 | 1 | 0 | 244 | 2 | 35 | 11 | 0 | 48 | 620 |
| 05:15 PM | 14 | 161 | 66 | 0 | 241 | 69 | 34 | 7 | 0 | 110 | 4 | 224 | 4 | 0 | 232 | 1 | 26 | 7 | 0 | 34 | 617 |
| 05:30 PM | 13 | 150 | 65 | 0 | 228 | 50 | 38 | 4 | 0 | 92 | 3 | 188 | 5 | 0 | 196 | 1 | 22 | 9 | 0 | 32 | 548 |
| 05:45 PM | 12 | 162 | 71 | 0 | 245 | 63 | 35 | 7 | 0 | 105 | 1 | 134 | 3 | 0 | 138 | 1 | 23 | 9 | 0 | 33 | 521 |
| Total | 47 | 624 | 264 | 0 | 935 | 252 | 137 | 25 | 0 | 414 | 15 | 782 | 13 | 0 | 810 | 5 | 106 | 36 | 0 | 147 | 2306 |
| 06:00 PM | 6 | 162 | 60 | 0 | 228 | 50 | 34 | 5 | 0 | 89 | 3 | 119 | 2 | 0 | 124 | 2 | 35 | 12 | 0 | 49 | 490 |
| 06:15 PM | 11 | 143 | 49 | 0 | 203 | 49 | 23 | 2 | 0 | 74 | 2 | 220 | 3 | 0 | 225 | 1 | 31 | 12 | 0 | 44 | 546 |
| 06:30 PM | 10 | 124 | 57 | 0 | 191 | 27 | 22 | 4 | 0 | 53 | 4 | 135 | 4 | 0 | 143 | 1 | 34 | 5 | 0 | 40 | 427 |
| 06:45 PM | 9 | 139 | 35 | 0 | 183 | 38 | 18 | 4 | 0 | 60 | 0 | 182 | 3 | 0 | 185 | 2 | 24 | 6 | 0 | 32 | 460 |
| Total | 36 | 568 | 201 | 0 | 805 | 164 | 97 | 15 | 0 | 276 | 9 | 656 | 12 | 0 | 677 | 6 | 124 | 35 | 0 | 165 | 1923 |
| Grand Total | 187 | 2659 | 1083 | 0 | 3929 | 1023 | 525 | 71 | 3 | 1622 | 53 | 3386 | 51 | 0 | 3490 | 28 | 550 | 201 | 0 | 779 | 9820 |
| Apprch % | 4.8 | 67.7 | 27.6 | 0 | | 63.1 | 32.4 | 4.4 | 0.2 | | 1.5 | 97 | 1.5 | 0 | | 3.6 | 70.6 | 25.8 | 0 | | ı |
| Total % | 1.9 | 27.1 | 11 | 0 | 40 | 10.4 | 5.3 | 0.7 | 0 | 16.5 | 0.5 | 34.5 | 0.5 | 0 | 35.5 | 0.3 | 5.6 | 2 | 0 | 7.9 | I |

| | | US : | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|-------------------------|--------------|-------------|---------------|------------|-------|-------|------|------------|-------|-------|-------|------------|-------|-------|------|------------|-----------|
| | | South | oound | | | Westb | ound | | | North | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Tota |
| Peak Hour Analysis Fron | m 03:00 PM | to 06:45 PN | I - Peak 1 of | f 1 | | | | | | | | | - | | | | |
| Peak Hour for Entire | Intersection | Begins at | 03:00 PM | | | | | | | | | | | | | | |
| 03:00 PM | 12 | 179 | 80 | 271 | 72 | 29 | 5 | 106 | 2 | 262 | 12 | 276 | 5 | 39 | 20 | 64 | 717 |
| 03:15 PM | 15 | 204 | 102 | 321 | 84 | 35 | 2 | 121 | 2 | 284 | 3 | 289 | 1 | 20 | 13 | 34 | 765 |
| 03:30 PM | 19 | 167 | 73 | 259 | 80 | 38 | 10 | 128 | 3 | 279 | 0 | 282 | 3 | 56 | 17 | 76 | 745 |
| 03:45 PM | 12 | 173 | 62 | 247 | 59 | 26 | 2 | 87 | 8 | 268 | 3 | 279 | 1 | 39 | 15 | 55 | 668 |
| Total Volume | 58 | 723 | 317 | 1098 | 295 | 128 | 19 | 442 | 15 | 1093 | 18 | 1126 | 10 | 154 | 65 | 229 | 2895 |
| % App. Total | 5.3 | 65.8 | 28.9 | | 66.7 | 29 | 4.3 | | 1.3 | 97.1 | 1.6 | | 4.4 | 67.2 | 28.4 | | |
| PHE | 763 | 886 | 777 | 855 | 878 | 8/12 | 175 | 863 | 460 | 062 | 375 | 974 | 500 | 688 | 813 | 753 | 0.46 |

File Name: 1-US 301 and US 17 SUN

Site Code:

Start Date : 11/25/2018

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| | | | US 30 | 1 | | | | US 17 | , | | | | US 30 | 1 | | | | US 17 | , | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbo | und | | | Ea | astbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 0 | 8 | 2 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 2 | 5 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 18 |
| 03:15 PM | 0 | 5 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 16 |
| 03:30 PM | 0 | 3 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 9 |
| 03:45 PM | 0 | 8 | 0 | 0 | 8 | 1 | 1 | 0 | 0 | 2 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 19 |
| Total | 0 | 24 | 2 | 0 | 26 | 3 | 2 | 0 | 0 | 5 | 2 | 28 | 0 | 0 | 30 | 0 | 1 | 0 | 0 | 1 | 62 |
| 04.00 ₽34 | | 2 | | 0 | | | | | | 0.1 | | - | | | - I | | | | | 0.1 | |
| 04:00 PM | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | / | 0 | 0 | / | 0 | 0 | 0 | 0 | 0 | 11 |
| 04:15 PM | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 13 |
| 04:30 PM | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 8 |
| 04:45 PM | 0 | 10 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | / | 0 | 0 | 0 | 0 | 0 | 18 50 |
| Total | 0 | 19 | 2 | 0 | 21 | 1 | 0 | 1 | 0 | 2 | 0 | 24 | 0 | 0 | 24 | 0 | 3 | 0 | 0 | 3 | 50 |
| 05:00 PM | 2 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 12 |
| 05:15 PM | 0 | 7 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 17 |
| 05:30 PM | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 2 | 0 | 0 | 0 | 2 | 16 |
| 05:45 PM | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 12 |
| Total | 3 | 20 | 3 | 0 | 26 | 0 | 0 | 1 | 0 | 1 | 0 | 23 | 2 | 0 | 25 | 2 | 1 | 2 | 0 | 5 | 57 |
| 06:00 PM | | 3 | | 0 | ا ء | 0 | 0 | 0 | 0 | ا م | 0 | - | | 0 | <i>c</i> l | | 0 | | 0 | 2.1 | 12 |
| | 1 | 3 | 1 | 0 | 5 | 0 | 0 | 0 | - | 0 | 0 | 5 | 1 | 0 | 6 | 1 | 0 | 1 | 0 | 2 | 13 |
| 06:15 PM | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | / | 0 | 0 | ′ / | 0 | 0 | 1 | 0 | 2 | 10 |
| 06:30 PM | 0 | 3 | 3 | 0 | 6 | 0 | | | 0 | 0 | 0 | 4 | 0 | | 4 | | 0 | 1 | 0 | 1 | 11 |
| 06:45 PM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 1 | 1 | 0 | 2 | 15 |
| Total | 1 | 10 | 4 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 1 | 0 | 27 | 1 | 2 | 4 | 0 | 7 | 49 |
| Grand Total | 4 | 73 | 11 | 0 | 88 | 4 | 2 | 2 | 0 | 8 | 2 | 101 | 3 | 0 | 106 | 3 | 7 | 6 | 0 | 16 | 218 |
| Apprch % | 4.5 | 83 | 12.5 | 0 | | 50 | 25 | 25 | 0 | | 1.9 | 95.3 | 2.8 | 0 | | 18.8 | 43.8 | 37.5 | 0 | | |
| Total % | 1.8 | 33.5 | 5 | 0 | 40.4 | 1.8 | 0.9 | 0.9 | 0 | 3.7 | 0.9 | 46.3 | 1.4 | 0 | 48.6 | 1.4 | 3.2 | 2.8 | 0 | 7.3 | |

| | | US : | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|-------------------------|--------------|-------------|---------------|------------|-------|-------|------|------------|-------|-------|-------|------------|-------|-------|------|------------|-----------|
| | | South | oound | | | Westb | ound | | | North | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Tota |
| Peak Hour Analysis Fron | n 03:00 PM | to 06:45 PM | I - Peak 1 of | 1 | • | • | • | | - | • | • | | • | • | • | | |
| Peak Hour for Entire | Intersection | Begins at | 04:45 PM | | | | | | | | | | | | | | |
| 04:45 PM | 0 | 10 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 18 |
| 05:00 PM | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 12 |
| 05:15 PM | 0 | 7 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 2 | 2 | 17 |
| 05:30 PM | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 2 | 0 | 0 | 2 | 16 |
| Total Volume | 3 | 24 | 3 | 30 | 0 | 0 | 0 | 0 | 0 | 27 | 2 | 29 | 2 | 0 | 2 | 4 | 63 |
| % App. Total | 10 | 80 | 10 | | 0 | 0 | 0 | | 0 | 93.1 | 6.9 | | 50 | 0 | 50 | | |
| PHE | 375 | 600 | 375 | 682 | 000 | 000 | 000 | 000 | 000 | 675 | 250 | 725 | 250 | 000 | 250 | 500 | 87 |

File Name: 1-US 301 and US 17 SUN

Site Code:

Start Date : 11/25/2018

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Groups Printed-Combined

| | Croups Finited Combined | | | | | | | | | | | | 1 | | | | | | | | |
|-------------|-------------------------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|------------|
| | | | US 30 | 1 | | | | US 17 | , | | | | US 301 | 1 | | | | US 17 | • | | |
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbou | ınd | | | Ea | estbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 12 | 187 | 82 | 0 | 281 | 72 | 30 | 5 | 0 | 107 | 4 | 267 | 12 | 0 | 283 | 5 | 39 | 20 | 0 | 64 | 735 |
| 03:15 PM | 15 | 209 | 102 | 0 | 326 | 85 | 35 | 2 | 0 | 122 | 2 | 293 | 3 | 0 | 298 | 1 | 21 | 13 | 0 | 35 | 781 |
| 03:30 PM | 19 | 170 | 73 | 0 | 262 | 81 | 38 | 10 | 0 | 129 | 3 | 284 | 0 | 0 | 287 | 3 | 56 | 17 | 0 | 76 | 754 |
| 03:45 PM | 12 | 181 | 62 | 0 | 255 | 60 | 27 | 2 | 0 | 89 | 8 | 277 | 3 | 0 | 288 | 1 | 39 | 15 | 0 | 55 | 687 |
| Total | 58 | 747 | 319 | 0 | 1124 | 298 | 130 | 19 | 0 | 447 | 17 | 1121 | 18 | 0 | 1156 | 10 | 155 | 65 | 0 | 230 | 2957 |
| 04:00 PM | 10 | 174 | 89 | 0 | 273 | 86 | 47 | 4 | 0 | 137 | 1 | 198 | 1 | 0 | 200 | 1 | 47 | 12 | 0 | 60 | 670 |
| 04:15 PM | 15 | 205 | 65 | 0 | 285 | 79 | 47 | 4 | 0 | 130 | 3 | 225 | 4 | 0 | 232 | 2 | 45 | 11 | 0 | 58 | 705 |
| 04:30 PM | 12 | 217 | 82 | 0 | 311 | 77 | 35 | 3 | 0 | 115 | 5 | 268 | 2 | 0 | 275 | 4 | 31 | 20 | 0 | 55 | 756 |
| 04:45 PM | 9 | 167 | 67 | 0 | 243 | 71 | 34 | 2 | 3 | 110 | 5 | 188 | 1 | 0 | 194 | 0 | 46 | 22 | 0 | 68 | 615 |
| Total | 46 | 763 | 303 | 0 | 1112 | 313 | 163 | 13 | 3 | 492 | 14 | 879 | 8 | 0 | 901 | 7 | 169 | 65 | 0 | 241 | 2746 |
| 05:00 PM | 10 | 155 | 62 | 0 | 227 | 70 | 30 | 7 | 0 | 107 | 7 | 240 | 3 | 0 | 250 | 2 | 35 | 11 | 0 | 48 | 632 |
| 05:15 PM | 14 | 168 | 68 | 0 | 250 | 69 | 34 | 7 | 0 | 110 | 4 | 230 | 4 | 0 | 238 | 1 | 26 | 9 | 0 | 36 | 634 |
| 05:30 PM | 14 | 153 | 65 | 0 | 232 | 50 | 38 | 4 | 0 | 92 | 3 | 198 | 5 | 0 | 206 | 3 | 22 | 9 | 0 | 34 | 564 |
| 05:45 PM | 12 | 168 | 72 | 0 | 252 | 63 | 35 | 8 | 0 | 106 | 1 | 137 | 3 | 0 | 141 | 1 | 24 | 9 | 0 | 34 | 533 |
| Total | 50 | 644 | 267 | 0 | 961 | 252 | 137 | 26 | 0 | 415 | 15 | 805 | 15 | 0 | 835 | 7 | 107 | 38 | 0 | 152 | 2363 |
| 06:00 PM | 7 | 165 | 61 | 0 | 233 | 50 | 34 | 5 | 0 | 89 | 3 | 124 | 3 | 0 | 130 | 3 | 35 | 13 | 0 | 51 | 503 |
| 06:15 PM | 11 | 144 | 49 | 0 | 204 | 49 | 23 | 2 | 0 | 74 | 2 | 227 | 3 | 0 | 232 | 1 | 32 | 13 | 0 | 46 | 556 |
| 06:30 PM | 10 | 127 | 60 | 0 | 197 | 27 | 22 | 4 | 0 | 53 | 4 | 139 | 4 | 0 | 147 | 1 | 34 | 6 | 0 | 41 | 438 |
| 06:45 PM | 9 | 142 | 35 | 0 | 186 | 38 | 18 | 4 | 0 | 60 | 0 | 192 | 3 | 0 | 195 | 2 | 25 | 7 | 0 | 34 | 475 |
| Total | 37 | 578 | 205 | 0 | 820 | 164 | 97 | 15 | 0 | 276 | 9 | 682 | 13 | 0 | 704 | 7 | 126 | 39 | 0 | 172 | 1972 |
| Grand Total | 191 | 2732 | 1094 | 0 | 4017 | 1027 | 527 | 73 | 3 | 1630 | 55 | 3487 | 54 | 0 | 3596 | 31 | 557 | 207 | 0 | 795 | 10038 |
| Apprch % | 4.8 | 68 | 27.2 | 0 | | 63 | 32.3 | 4.5 | 0.2 | | 1.5 | 97 | 1.5 | 0 | | 3.9 | 70.1 | 26 | 0 | | |
| Total % | 1.9 | 27.2 | 10.9 | 0 | 40 | 10.2 | 5.3 | 0.7 | 0 | 16.2 | 0.5 | 34.7 | 0.5 | 0 | 35.8 | 0.3 | 5.5 | 2.1 | 0 | 7.9 | |

| | | US | 301 | | | US | 17 | | | US | 301 | | | US | 17 | | |
|------------------------|--------------|-------------|---------------|------------|-------|-------|------|------------|-------|--------|-------|------------|-------|-------|------|------------|-----------|
| | | South | bound | | | Westb | ound | | | Northi | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Tota |
| eak Hour Analysis Fron | m 03:00 PM | to 06:45 PM | 1 - Peak 1 of | f 1 | | • | • | • | | • | • | | | • | • | | |
| Peak Hour for Entire | Intersection | Begins at | 03:00 PM | | | | | | | | | | | | | | |
| 03:00 PM | 12 | 187 | 82 | 281 | 72 | 30 | 5 | 107 | 4 | 267 | 12 | 283 | 5 | 39 | 20 | 64 | 735 |
| 03:15 PM | 15 | 209 | 102 | 326 | 85 | 35 | 2 | 122 | 2 | 293 | 3 | 298 | 1 | 21 | 13 | 35 | 781 |
| 03:30 PM | 19 | 170 | 73 | 262 | 81 | 38 | 10 | 129 | 3 | 284 | 0 | 287 | 3 | 56 | 17 | 76 | 754 |
| 03:45 PM | 12 | 181 | 62 | 255 | 60 | 27 | 2 | 89 | 8 | 277 | 3 | 288 | 1 | 39 | 15 | 55 | 687 |
| Total Volume | 58 | 747 | 319 | 1124 | 298 | 130 | 19 | 447 | 17 | 1121 | 18 | 1156 | 10 | 155 | 65 | 230 | 2957 |
| % App. Total | 5.2 | 66.5 | 28.4 | | 66.7 | 29.1 | 4.3 | | 1.5 | 97 | 1.6 | | 4.3 | 67.4 | 28.3 | | |
| PHF | 763 | 804 | 782 | 862 | 876 | 855 | 175 | 866 | 531 | 956 | 375 | 970 | 500 | 602 | 813 | 757 | 941 |

File Name: 2-FRI-US 301 & Back St FRI

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| | | | | | <u> </u> | ips i illito | | | | | | | |
|-------------|------|--------|------|------------|----------|--------------|------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Back | St | | | US 3 | 301 | T | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 03:00 PM | 222 | 0 | 0 | 222 | 0 | 1 | 0 | 1 | 0 | 138 | 0 | 138 | 361 |
| 03:15 PM | 203 | 0 | 0 | 203 | 0 | 1 | 0 | 1 | 2 | 151 | 0 | 153 | 357 |
| 03:30 PM | 202 | 0 | 0 | 202 | 1 | 2 | 0 | 3 | 2 | 151 | 0 | 153 | 358 |
| 03:45 PM | 219 | 0 | 0 | 219 | 0 | 0 | 0 | 0 | 0 | 140 | 0 | 140 | 359 |
| Total | 846 | 0 | 0 | 846 | 1 | 4 | 0 | 5 | 4 | 580 | 0 | 584 | 1435 |
| 04:00 PM | 236 | 0 | 0 | 236 | 0 | 1 | 0 | 1 | 1 | 151 | 0 | 152 | 389 |
| 04:15 PM | 223 | 2 | 0 | 225 | 0 | 2 | 0 | 2 | 3 | 161 | 0 | 164 | 391 |
| 04:30 PM | 245 | 2 | 0 | 247 | 1 | 2 | 0 | 3 | 2 | 127 | 0 | 129 | 379 |
| 04:45 PM | 244 | 0 | 0 | 244 | 1 | 1 | 0 | 2 | 3 | 157 | 0 | 160 | 406 |
| Total | 948 | 4 | 0 | 952 | 2 | 6 | 0 | 8 | 9 | 596 | 0 | 605 | 1565 |
| 05:00 PM | 240 | 0 | 0 | 240 | 0 | 0 | 0 | 0 | 1 | 135 | 0 | 136 | 376 |
| 05:15 PM | 227 | 3 | 0 | 230 | 0 | 2 | 0 | 2 | 0 | 133 | 0 | 133 | 365 |
| 05:30 PM | 204 | 0 | 0 | 204 | 0 | 1 | 0 | 1 | 2 | 128 | 0 | 130 | 335 |
| 05:45 PM | 202 | 11 | 0 | 203 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 118 | 321 |
| Total | 873 | 4 | 0 | 877 | 0 | 3 | 0 | 3 | 3 | 514 | 0 | 517 | 1397 |
| 06:00 PM | 156 | 0 | 0 | 156 | 0 | 2 | 0 | 2 | 4 | 104 | 0 | 108 | 266 |
| 06:15 PM | 128 | 1 | 0 | 129 | 2 | 3 | 0 | 5 | 2 | 103 | 0 | 105 | 239 |
| 06:30 PM | 140 | 1 | 0 | 141 | 1 | 3 | 0 | 4 | 1 | 94 | 0 | 95 | 240 |
| 06:45 PM | 119 | 0 | 0 | 119 | 0 | 2 | 0 | 2 | 4 | 100 | 0 | 104 | 225 |
| Total | 543 | 2 | 0 | 545 | 3 | 10 | 0 | 13 | 11 | 401 | 0 | 412 | 970 |
| Grand Total | 3210 | 10 | 0 | 3220 | 6 | 23 | 0 | 29 | 27 | 2091 | 0 | 2118 | 5367 |
| Apprch % | 99.7 | 0.3 | 0 | | 20.7 | 79.3 | 0 | | 1.3 | 98.7 | 0 | | |
| Total % | 59.8 | 0.2 | 0 | 60 | 0.1 | 0.4 | 0 | 0.5 | 0.5 | 39 | 0 | 39.5 | |

| | | US 301 | | | Back St | | | US 301 | | |
|--------------------------------------|----------------------|----------|------------|-------|----------|------------|-------|-----------|------------|------------|
| | So | uthbound | | W | estbound | | No | orthbound | | |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| eak Hour Analysis From 03:00 PM to 0 | 06:45 PM - Peak 1 of | f 1 | | | • | | | • | | |
| eak Hour for Entire Intersection B | egins at 04:00 PM | | | | | | | | | |
| 04:00 PM | 236 | 0 | 236 | 0 | 1 | 1 | 1 | 151 | 152 | 389 |
| 04:15 PM | 223 | 2 | 225 | 0 | 2 | 2 | 3 | 161 | 164 | 391 |
| 04:30 PM | 245 | 2 | 247 | 1 | 2 | 3 | 2 | 127 | 129 | 379 |
| 04:45 PM | 244 | 0 | 244 | 1 | 1 | 2 | 3 | 157 | 160 | 406 |
| Total Volume | 948 | 4 | 952 | 2 | 6 | 8 | 9 | 596 | 605 | 1565 |
| % App. Total | 99.6 | 0.4 | | 25 | 75 | | 1.5 | 98.5 | | |
| PHE | 967 | 500 | 964 | 500 | 750 | 667 | 750 | 025 | 922 | 964 |

File Name: 2-FRI-US 301 & Back St FRI

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| | | | | | Group | s Printea | - I ruck | | | | | | |
|----------------------|---------|--------|------|------------|-------|-----------|----------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Back | St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 03:00 PM | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 22 |
| 03:15 PM | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 1 | 14 | 0 | 15 | 28 |
| 03:30 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 24 |
| 03:45 PM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 14 | 22 |
| Total | 45 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 1 | 50 | 0 | 51 | 96 |
| 04:00 PM | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 22 |
| 04:15 PM | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 23 |
| 04:30 PM | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 8 | 22 |
| 04:45 PM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 20 |
| Total | 50 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 1 | 36 | 0 | 37 | 20 87 |
| | | - | - | | - | - | - | ~ (| _ | | _ | - 1 | - |
| 05:00 PM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 13 |
| 05:15 PM | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 20 |
| 05:30 PM | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 23 |
| 05:45 PM | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 18 |
| Total | 48 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 26 | 74 |
| 06:00 PM | 1.1 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 1.4 |
| 06:00 PM 06:15 PM | 11 9 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 14 19 |
| 06:15 PM 06:30 PM | 9 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 9 |
| 06:45 PM | 8 | - | 0 | 8 9 | 0 | 0 | | 9 | 0 | 1 | | 1 | 13 |
| | 37 | 0 | 0 | - 1 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 4 | 55 |
| Total | 3/ | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 55 |
| Grand Total | 180 | 0 | 0 | 180 | 0 | 0 | 0 | 0 | 2 | 130 | 0 | 132 | 312 |
| Apprch % | 100 | 0 | 0 | | 0 | 0 | 0 | | 1.5 | 98.5 | 0 | | |
| Total % | 57.7 | 0 | 0 | 57.7 | 0 | 0 | 0 | 0 | 0.6 | 41.7 | 0 | 42.3 | |
| | | | | | | | | | | | | | |

| | | US 301 Southbound | i | | Back St Westboun | d | | US 301 Northboun | d | |
|-----------------------------------|--------------------|----------------------|------------|-------|---------------------|------------|-------|---------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak | : 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | n Begins at 03:00 | PM | | | | | | | | |
| 03:00 PM | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 7 | 7 | 22 |
| 03:15 PM | 13 | 0 | 13 | 0 | 0 | 0 | 1 | 14 | 15 | 28 |
| 03:30 PM | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 15 | 15 | 24 |
| 03:45 PM | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 14 | 14 | 22 |
| Total Volume | 45 | 0 | 45 | 0 | 0 | 0 | 1 | 50 | 51 | 96 |
| % App. Total | 100 | 0 | | 0 | 0 | | 2 | 98 | | |
| PHF | .750 | .000 | .750 | .000 | .000 | .000 | .250 | .833 | .850 | .857 |

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Site Code:

Start Date : 11/2/2018

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Groups Printed- Combined

| | | US 3 | 01 | | | Printed- C | | | | US 3 | 301 | | |
|-------------|------|--------|------|------------|-------|------------|------|------------|-------|--------|------|------------|------------|
| | | Southb | - | | | Westbo | | | | Northb | - | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 03:00 PM | 237 | 0 | 0 | 237 | 0 | 1 | 0 | 1 | 0 | 145 | 0 | 145 | 383 |
| 03:15 PM | 216 | 0 | 0 | 216 | 0 | 1 | 0 | 1 | 3 | 165 | 0 | 168 | 385 |
| 03:30 PM | 211 | 0 | 0 | 211 | 1 | 2 | 0 | 3 | 2 | 166 | 0 | 168 | 382 |
| 03:45 PM | 227 | 0 | 0 | 227 | 0 | 0 | 0 | 0 | 0 | 154 | 0 | 154 | 381 |
| Total | 891 | 0 | 0 | 891 | 1 | 4 | 0 | 5 | 5 | 630 | 0 | 635 | 1531 |
| 04:00 PM | 251 | 0 | 0 | 251 | 0 | 1 | 0 | 1 | 1 | 158 | 0 | 159 | 411 |
| 04:15 PM | 234 | 2 | 0 | 236 | 0 | 2 | 0 | 2 | 3 | 173 | 0 | 176 | 414 |
| 04:30 PM | 259 | 2 | 0 | 261 | 1 | 2 | 0 | 3 | 3 | 134 | 0 | 137 | 401 |
| 04:45 PM | 254 | 0 | 0 | 254 | 1 | 1 | 0 | 2 | 3 | 167 | 0 | 170 | 426 |
| Total | 998 | 4 | 0 | 1002 | 2 | 6 | 0 | 8 | 10 | 632 | 0 | 642 | 1652 |
| 05:00 PM | 250 | 0 | 0 | 250 | 0 | 0 | 0 | 0 | 1 | 138 | 0 | 139 | 389 |
| 05:15 PM | 238 | 3 | 0 | 241 | 0 | 2 | 0 | 2 | 0 | 142 | 0 | 142 | 385 |
| 05:30 PM | 216 | 0 | 0 | 216 | 0 | 1 | 0 | 1 | 2 | 139 | 0 | 141 | 358 |
| 05:45 PM | 217 | 1 | 0 | 218 | 0 | 0 | 0 | 0 | 0 | 121 | 0 | 121 | 339 |
| Total | 921 | 4 | 0 | 925 | 0 | 3 | 0 | 3 | 3 | 540 | 0 | 543 | 1471 |
| 06:00 PM | 167 | 0 | 0 | 167 | 0 | 2 | 0 | 2 | 4 | 107 | 0 | 111 | 280 |
| 06:15 PM | 137 | 1 | 0 | 138 | 2 | 3 | 0 | 5 | 2 | 113 | 0 | 115 | 258 |
| 06:30 PM | 148 | 1 | 0 | 149 | 1 | 3 | 0 | 4 | 1 | 95 | 0 | 96 | 249 |
| 06:45 PM | 128 | 0 | 0 | 128 | 0 | 2 | 0 | 2 | 4 | 104 | 0 | 108 | 238 |
| Total | 580 | 2 | 0 | 582 | 3 | 10 | 0 | 13 | 11 | 419 | 0 | 430 | 1025 |
| Grand Total | 3390 | 10 | 0 | 3400 | 6 | 23 | 0 | 29 | 29 | 2221 | 0 | 2250 | 5679 |
| Apprch % | 99.7 | 0.3 | 0 | | 20.7 | 79.3 | 0 | | 1.3 | 98.7 | 0 | | |
| Total % | 59.7 | 0.2 | 0 | 59.9 | 0.1 | 0.4 | 0 | 0.5 | 0.5 | 39.1 | 0 | 39.6 | |
| | | | | | | | | | | | | | |

| | S | US 301 Southbound | | | Back St Westbound | I | ı | US 301 Northbound | | |
|-----------------------------------|---------------------|----------------------|------------|-------|----------------------|------------|-------|----------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak | l of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | n Begins at 04:00 P | M | | | | | | | | |
| 04:00 PM | 251 | 0 | 251 | 0 | 1 | 1 | 1 | 158 | 159 | 411 |
| 04:15 PM | 234 | 2 | 236 | 0 | 2 | 2 | 3 | 173 | 176 | 414 |
| 04:30 PM | 259 | 2 | 261 | 1 | 2 | 3 | 3 | 134 | 137 | 401 |
| 04:45 PM | 254 | 0 | 254 | 1 | 1 | 2 | 3 | 167 | 170 | 426 |
| Total Volume | 998 | 4 | 1002 | 2 | 6 | 8 | 10 | 632 | 642 | 1652 |
| % App. Total | 99.6 | 0.4 | | 25 | 75 | | 1.6 | 98.4 | | |
| PHF | .963 | .500 | .960 | .500 | .750 | .667 | .833 | .913 | .912 | .969 |

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| | | | | | GIOG | ips i illite | u oui | | | | | | |
|-------------|------|--------|------|------------|-------|--------------|-------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Back | St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbe | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:00 AM | 38 | 1 | 0 | 39 | 0 | 2 | 0 | 2 | 2 | 79 | 0 | 81 | 122 |
| 06:15 AM | 71 | 0 | 0 | 71 | 0 | 2 | 0 | 2 | 2 | 94 | 0 | 96 | 169 |
| 06:30 AM | 83 | 1 | 0 | 84 | 2 | 1 | 0 | 3 | 0 | 141 | 0 | 141 | 228 |
| 06:45 AM | 77 | 0 | 0 | 77 | 0 | 1 | 0 | 1 | 0 | 120 | 0 | 120 | 198 |
| Total | 269 | 2 | 0 | 271 | 2 | 6 | 0 | 8 | 4 | 434 | 0 | 438 | 717 |
| 07:00 AM | 75 | 1 | 0 | 76 | 0 | 0 | 0 | 0 | 1 | 110 | 0 | 111 | 187 |
| 07:15 AM | 91 | 0 | 0 | 91 | 0 | 2 | 0 | 2 | 1 | 117 | 0 | 118 | 211 |
| 07:30 AM | 79 | 0 | 0 | 79 | 0 | 2 | 0 | 2 | 1 | 131 | 0 | 132 | 213 |
| 07:45 AM | 65 | 1 | 0 | 66 | 1 | 2 | 0 | 3 | 1 | 125 | 0 | 126 | 195 |
| Total | 310 | 2 | 0 | 312 | 1 | 6 | 0 | 7 | 4 | 483 | 0 | 487 | 806 |
| 08:00 AM | 88 | 0 | 0 | 88 | 1 | 2 | 0 | 3 | 0 | 103 | 0 | 103 | 194 |
| 08:15 AM | 91 | 0 | 0 | 91 | 0 | 4 | 0 | 4 | 2 | 104 | 0 | 106 | 201 |
| 08:30 AM | 84 | 0 | 0 | 84 | 0 | 1 | 0 | 1 | 1 | 98 | 0 | 99 | 184 |
| 08:45 AM | 84 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 87 | 171 |
| Total | 347 | 0 | 0 | 347 | 1 | 7 | 0 | 8 | 3 | 392 | 0 | 395 | 750 |
| Grand Total | 926 | 4 | 0 | 930 | 4 | 19 | 0 | 23 | 11 | 1309 | 0 | 1320 | 2273 |
| Apprch % | 99.6 | 0.4 | 0 | | 17.4 | 82.6 | 0 | | 0.8 | 99.2 | 0 | | |
| Total % | 40.7 | 0.2 | 0 | 40.9 | 0.2 | 0.8 | 0 | 1 | 0.5 | 57.6 | 0 | 58.1 | |

| | | US 301 | | | Back St | | | US 301 | | |
|----------------------------------|----------------------|-----------|------------|-------|----------|------------|-------|-----------|------------|------------|
| | S | outhbound | | W | estbound | | No | orthbound | | |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| ak Hour Analysis From 06:00 AM t | to 08:45 AM - Peak 1 | of 1 | | | | | | | | |
| ak Hour for Entire Intersection | Begins at 06:30 A | M | | | | | | | | |
| 06:30 AM | 83 | 1 | 84 | 2 | 1 | 3 | 0 | 141 | 141 | 228 |
| 06:45 AM | 77 | 0 | 77 | 0 | 1 | 1 | 0 | 120 | 120 | 198 |
| 07:00 AM | 75 | 1 | 76 | 0 | 0 | 0 | 1 | 110 | 111 | 187 |
| 07:15 AM | 91 | 0 | 91 | 0 | 2 | 2 | 1 | 117 | 118 | 211 |
| Total Volume | 326 | 2 | 328 | 2 | 4 | 6 | 2 | 488 | 490 | 824 |
| % App. Total | 99.4 | 0.6 | | 33.3 | 66.7 | | 0.4 | 99.6 | | |
| PHF | 896 | 500 | 901 | .250 | 500 | 500 | 500 | .865 | 869 | 904 |

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| | | US 3 | 01 | | | Back | St | | | US 3 | 01 | | |
|-------------|------|--------|------|------------|-------|--------|------|------------|-------|--------|------|------------|------------|
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:00 AM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 13 |
| 06:15 AM | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 1 | 12 | 0 | 13 | 24 |
| 06:30 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 25 |
| 06:45 AM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 28 |
| Total | 37 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 1 | 52 | 0 | 53 | 90 |
| 07:00 AM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 20 |
| 07:15 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 18 |
| 07:30 AM | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 24 |
| 07:45 AM | 10 | 0 | 0 | 10 | 0 | 1 | 0 | 1 | 0 | 18 | 0 | 18 | 29 |
| Total | 40 | 0 | 0 | 40 | 0 | 1 | 0 | 1 | 0 | 50 | 0 | 50 | 91 |
| 08:00 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 20 |
| 08:15 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 23 |
| 08:30 AM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 24 |
| 08:45 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 19 | 26 |
| Total | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 64 | 0 | 64 | 93 |
| Grand Total | 106 | 0 | 0 | 106 | 0 | 1 | 0 | 1 | 1 | 166 | 0 | 167 | 274 |
| Apprch % | 100 | 0 | 0 | | 0 | 100 | 0 | | 0.6 | 99.4 | 0 | | |
| Total % | 38.7 | 0 | 0 | 38.7 | 0 | 0.4 | 0 | 0.4 | 0.4 | 60.6 | 0 | 60.9 | |

| | , | US 301 Southbound | | | Back St Westbound | | | US 301 Northbound | | |
|-----------------------------------|--------------------|----------------------|------------|-------|----------------------|------------|-------|----------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 06:00 AM | to 08:45 AM - Peak | 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 06:15 | AM | | | | | | | | |
| 06:15 AM | 11 | 0 | 11 | 0 | 0 | 0 | 1 | 12 | 13 | 24 |
| 06:30 AM | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 18 | 18 | 25 |
| 06:45 AM | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 18 | 18 | 28 |
| 07:00 AM | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 12 | 12 | 20 |
| Total Volume | 36 | 0 | 36 | 0 | 0 | 0 | 1 | 60 | 61 | 97 |
| % App. Total | 100 | 0 | | 0 | 0 | | 1.6 | 98.4 | | |
| PHF | .818 | .000 | .818 | .000 | .000 | .000 | .250 | .833 | .847 | .866 |

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| | US 301 Southbound | | | | • | Back Westbo | | | | US 3 Northb | - | | |
|-------------|----------------------|------|------|------------|-------|----------------|------|------------|-------|----------------|------|------------|------------|
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:00 AM | 47 | 1 | 0 | 48 | 0 | 2 | 0 | 2 2 | 2 | 83 | 0 | 85 | 135 |
| 06:15 AM | 82 | 0 | 0 | 82 | 0 | 2 | 0 | 2 | 3 | 106 | 0 | 109 | 193 |
| 06:30 AM | 90 | 1 | 0 | 91 | 2 | 1 | 0 | 3 | 0 | 159 | 0 | 159 | 253 |
| 06:45 AM | 87 | 0 | 0 | 87 | 0 | 1 | 0 | 1 | 0 | 138 | 0 | 138 | 226 |
| Total | 306 | 2 | 0 | 308 | 2 | 6 | 0 | 8 | 5 | 486 | 0 | 491 | 807 |
| 07:00 AM | 83 | 1 | 0 | 84 | 0 | 0 | 0 | 0 | 1 | 122 | 0 | 123 | 207 |
| 07:15 AM | 98 | 0 | 0 | 98 | 0 | 2 | 0 | 2 | 1 | 128 | 0 | 129 | 229 |
| 07:30 AM | 94 | 0 | 0 | 94 | 0 | 2 | 0 | 2 | 1 | 140 | 0 | 141 | 237 |
| 07:45 AM | 75 | 1 | 0 | 76 | 1 | 3 | 0 | 4 | 1 | 143 | 0 | 144 | 224 |
| Total | 350 | 2 | 0 | 352 | 1 | 7 | 0 | 8 | 4 | 533 | 0 | 537 | 897 |
| 08:00 AM | 95 | 0 | 0 | 95 | 1 | 2 | 0 | 3 | 0 | 116 | 0 | 116 | 214 |
| 08:15 AM | 98 | 0 | 0 | 98 | 0 | 4 | 0 | 4 | 2 | 120 | 0 | 122 | 224 |
| 08:30 AM | 92 | 0 | 0 | 92 | 0 | 1 | 0 | 1 | 1 | 114 | 0 | 115 | 208 |
| 08:45 AM | 91 | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 106 | 0 | 106 | 197 |
| Total | 376 | 0 | 0 | 376 | 1 | 7 | 0 | 8 | 3 | 456 | 0 | 459 | 843 |
| Grand Total | 1032 | 4 | 0 | 1036 | 4 | 20 | 0 | 24 | 12 | 1475 | 0 | 1487 | 2547 |
| Apprch % | 99.6 | 0.4 | 0 | | 16.7 | 83.3 | 0 | | 0.8 | 99.2 | 0 | | |
| Total % | 40.5 | 0.2 | 0 | 40.7 | 0.2 | 0.8 | 0 | 0.9 | 0.5 | 57.9 | 0 | 58.4 | |

| | , | US 301 Southbound | | | Back St Westbound | d | | US 301 Northbound | | |
|-----------------------------------|--------------------|----------------------|------|------|----------------------|------------|-------|----------------------|------------|------------|
| Start Time | | | | | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 06:00 AM | to 08:45 AM - Peak | 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | n Begins at 06:30 | AM | | | | | | | | |
| 06:30 AM | 90 | 1 | 91 | 2 | 1 | 3 | 0 | 159 | 159 | 253 |
| 06:45 AM | 87 | 0 | 87 | 0 | 1 | 1 | 0 | 138 | 138 | 226 |
| 07:00 AM | 83 | 1 | 84 | 0 | 0 | 0 | 1 | 122 | 123 | 207 |
| 07:15 AM | 98 | 0 | 98 | 0 | 2 | 2 | 1 | 128 | 129 | 229 |
| Total Volume | 358 | 2 | 360 | 2 | 4 | 6 | 2 | 547 | 549 | 915 |
| % App. Total | 99.4 | 0.6 | | 33.3 | 66.7 | | 0.4 | 99.6 | | |
| PHF | .913 | .500 | .918 | .250 | .500 | .500 | .500 | .860 | .863 | .904 |

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|-------------|------|--------|------|------------|-------|-------------|------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Back | St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:00 PM | 151 | 0 | 0 | 151 | 0 | 2 | 0 | 2 | 2 | 97 | 0 | 99 | 252 |
| 04:15 PM | 184 | 1 | 0 | 185 | 0 | 0 | 0 | 0 | 3 | 108 | 0 | 111 | 296 |
| 04:30 PM | 210 | 0 | 0 | 210 | 0 | 1 | 0 | 1 | 2 | 124 | 0 | 126 | 337 |
| 04:45 PM | 191 | 1 | 0 | 192 | 1 | 0 | 0 | 1 | 1 | 104 | 0 | 105 | 298 |
| Total | 736 | 2 | 0 | 738 | 1 | 3 | 0 | 4 | 8 | 433 | 0 | 441 | 1183 |
| 05:00 PM | 217 | 0 | 0 | 217 | 1 | 0 | 0 | 1 | 1 | 112 | 0 | 113 | 331 |
| 05:15 PM | 169 | 0 | 0 | 169 | 0 | 0 | 0 | 0 | 1 | 111 | 0 | 112 | 281 |
| 05:30 PM | 193 | 0 | 0 | 193 | 0 | 0 | 0 | 0 | 0 | 116 | 0 | 116 | 309 |
| 05:45 PM | 183 | 0 | 0 | 183 | 1 | 3 | 0 | 4 | 5 | 102 | 0 | 107 | 294 |
| Total | 762 | 0 | 0 | 762 | 2 | 3 | 0 | 5 | 7 | 441 | 0 | 448 | 1215 |
| 06:00 PM | 176 | 2 | 0 | 178 | 0 | 1 | 0 | 1 | 5 | 90 | 0 | 95 | 274 |
| 06:15 PM | 119 | 0 | 0 | 119 | 0 | 2 | 0 | 2 | 1 | 80 | 0 | 81 | 202 |
| 06:30 PM | 123 | 1 | 0 | 124 | 0 | 0 | 0 | 0 | 2 | 72 | 0 | 74 | 198 |
| 06:45 PM | 95 | 0 | 0 | 95 | 1 | 2 | 0 | 3 | 4 | 57 | 0 | 61 | 159 |
| Total | 513 | 3 | 0 | 516 | 1 | 5 | 0 | 6 | 12 | 299 | 0 | 311 | 833 |
| Grand Total | 2011 | 5 | 0 | 2016 | 4 | 11 | 0 | 15 | 27 | 1173 | 0 | 1200 | 3231 |
| Apprch % | 99.8 | 0.2 | 0 | | 26.7 | 73.3 | 0 | | 2.2 | 97.8 | 0 | | |
| Total % | 62.2 | 0.2 | 0 | 62.4 | 0.1 | 0.3 | 0 | 0.5 | 0.8 | 36.3 | 0 | 37.1 | |

| | So | US 301 outhbound | | W | Back St estbound | | No | US 301 orthbound | | |
|-----------------------------------|------------------------|---------------------|------------|-------|---------------------|------------|-------|---------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM | to 06:45 PM - Peak 1 o | of 1 | | | • | | | • | | |
| Peak Hour for Entire Intersection | Begins at 04:15 PM | I | | | | | | | | |
| 04:15 PM | 184 | 1 | 185 | 0 | 0 | 0 | 3 | 108 | 111 | 296 |
| 04:30 PM | 210 | 0 | 210 | 0 | 1 | 1 | 2 | 124 | 126 | 337 |
| 04:45 PM | 191 | 1 | 192 | 1 | 0 | 1 | 1 | 104 | 105 | 298 |
| 05:00 PM | 217 | 0 | 217 | 1 | 0 | 1 | 1 | 112 | 113 | 331 |
| Total Volume | 802 | 2 | 804 | 2 | 1 | 3 | 7 | 448 | 455 | 1262 |
| % App. Total | 99.8 | 0.2 | | 66.7 | 33.3 | | 1.5 | 98.5 | | |
| PHF | .924 | .500 | .926 | .500 | .250 | .750 | .583 | .903 | .903 | .936 |

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| | | | | | агоир | 3 Filliteu | | | | | | | |
|-------------|------|--------|------|------------|-------|------------|------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Back | St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:00 PM | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 29 |
| 04:15 PM | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 23 | 36 |
| 04:30 PM | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 1 | 21 | 0 | 22 | 35 |
| 04:45 PM | 21 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 32 |
| Total | 61 | 0 | 0 | 61 | 0 | 0 | 0 | 0 | 1 | 70 | 0 | 71 | 132 |
| 05:00 PM | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 25 |
| 05:15 PM | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 21 |
| 05:30 PM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 23 |
| 05:45 PM | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 30 |
| Total | 56 | 0 | 0 | 56 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 43 | 99 |
| 06:00 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 15 |
| 06:15 PM | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 20 |
| 06:30 PM | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 21 |
| 06:45 PM | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 16 |
| Total | 48 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 24 | 72 |
| Grand Total | 165 | 0 | 0 | 165 | 0 | 0 | 0 | 0 | 1 | 137 | 0 | 138 | 303 |
| Apprch % | 100 | 0 | 0 | | 0 | 0 | 0 | | 0.7 | 99.3 | 0 | | |
| Total % | 54.5 | 0 | 0 | 54.5 | 0 | 0 | 0 | 0 | 0.3 | 45.2 | 0 | 45.5 | |
| | | | | | | | | | | | | | |

| | S | US 301 Southbound | | W | Back St /estbound | | N | US 301 lorthbound | | |
|-----------------------------------|----------------------|----------------------|------|------|----------------------|------------|-------|----------------------|------------|------------|
| Start Time | | | | | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM | to 06:45 PM - Peak 1 | l of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 04:00 P | M | | | | | | | | |
| 04:00 PM | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 15 | 15 | 29 |
| 04:15 PM | 13 | 0 | 13 | 0 | 0 | 0 | 0 | 23 | 23 | 36 |
| 04:30 PM | 13 | 0 | 13 | 0 | 0 | 0 | 1 | 21 | 22 | 35 |
| 04:45 PM | 21 | 0 | 21 | 0 | 0 | 0 | 0 | 11 | 11 | 32 |
| Total Volume | 61 | 0 | 61 | 0 | 0 | 0 | 1 | 70 | 71 | 132 |
| % App. Total | 100 | 0 | | 0 | 0 | | 1.4 | 98.6 | | |
| PHF | .726 | .000 | .726 | .000 | .000 | .000 | .250 | .761 | .772 | .917 |

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| Thru Lef 165 0 197 1 223 0 | 0 | App. Total | Right 0 | Back Westbo | | | | US 3 Northb | | | |
|---|---|-------------------------------|--|---|---|---|---|--|--|--|---|
| Thru Lef 165 (197 1223 (197) | Peds Pods 0 0 0 0 0 0 0 0 0 | 165 | | | | | | Northb | ound | | |
| 165 197 223 | 0 | 165 | | Left | Dode | | | | | | |
| 197 1 223 (| 0 | | 0 | | r cus | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 223 | | | U | 2 | 0 | 2 | 2 | 112 | 0 | 114 | 281 |
| | | 198 | 0 | 0 | 0 | 0 | 3 | 131 | 0 | 134 | 332 |
| | 0 | 223 | 0 | 1 | 0 | 1 | 3 | 145 | 0 | 148 | 372 |
| 212 | 1 0 | 213 | 1 | 0 | 0 | 1 | 1 | 115 | 0 | 116 | 330 |
| 797 | 2 0 | 799 | 1 | 3 | 0 | 4 | 9 | 503 | 0 | 512 | 1315 |
| 232 | 0 | 232 | 1 | 0 | 0 | 1 | 1 | 122 | 0 | 123 | 356 |
| 182 | 0 | 182 | 0 | 0 | 0 | 0 | 1 | 119 | 0 | 120 | 302 |
| 203 | 0 | 203 | 0 | 0 | 0 | 0 | 0 | 129 | 0 | 129 | 332 |
| 201 | 0 | 201 | 1 | 3 | 0 | 4 | 5 | 114 | 0 | 119 | 324 |
| 818 | 0 | 818 | 2 | 3 | 0 | 5 | 7 | 484 | 0 | 491 | 1314 |
| 185 | 2 0 | 187 | 0 | 1 | 0 | 1 | 5 | 96 | 0 | 101 | 289 |
| 130 | 0 | 130 | 0 | 2 | 0 | 2 | 1 | 89 | 0 | 90 | 222 |
| 139 | 1 0 | 140 | 0 | 0 | 0 | 0 | 2 | 77 | 0 | 79 | 219 |
| 107 | 0 | 107 | 1 | 2 | 0 | 3 | 4 | 61 | 0 | 65 | 175 |
| 561 | 3 0 | 564 | 1 | 5 | 0 | 6 | 12 | 323 | 0 | 335 | 905 |
| 2176 | 5 0 | 2181 | 4 | 11 | 0 | 15 | 28 | 1310 | 0 | 1338 | 3534 |
| 99.8 0.2 | 2 0 | | 26.7 | 73.3 | 0 | | 2.1 | 97.9 | 0 | | |
| | 1 0 | 61.7 | 0.1 | 0.3 | 0 | 0.4 | 0.8 | 37.1 | 0 | 37.9 | |
| 5 21 | 61 3 76 5 9.8 0.2 | 61 3 0 76 5 0 9.8 0.2 0 | 61 3 0 564 76 5 0 2181 9.8 0.2 0 | 61 3 0 564 1 76 5 0 2181 4 9.8 0.2 0 26.7 | 61 3 0 564 1 5 76 5 0 2181 4 11 9.8 0.2 0 26.7 73.3 | 61 3 0 564 1 5 0 76 5 0 2181 4 11 0 9.8 0.2 0 26.7 73.3 0 | 61 3 0 564 1 5 0 6 76 76 5 0 2181 4 11 0 15 9.8 0.2 0 26.7 73.3 0 | 61 3 0 564 1 5 0 6 12 76 5 0 2181 4 11 0 15 28 9.8 0.2 0 26.7 73.3 0 2.1 | 61 3 0 564 1 5 0 6 12 323 76 5 0 2181 4 11 0 15 28 1310 9.8 0.2 0 26.7 73.3 0 2.1 97.9 | 61 3 0 564 1 5 0 6 12 323 0 76 5 0 2181 4 11 0 15 28 1310 0 9.8 0.2 0 26.7 73.3 0 2.1 97.9 0 | 61 3 0 564 1 5 0 6 12 323 0 335 76 5 0 2181 4 11 0 15 28 1310 0 1338 9.8 0.2 0 26.7 73.3 0 2.1 97.9 0 |

| | s | US 301 outhbound | | W | Back St estbound | | No | US 301 orthbound | | |
|------------------------------------|----------------------|---------------------|------------|-------|---------------------------------------|-----|-----|---------------------|-----|------------|
| Start Time | Thru | Left | App. Total | Right | Left App. Total Right Thru App. Total | | | | | Int. Total |
| Peak Hour Analysis From 04:00 PM t | to 06:45 PM - Peak 1 | of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 04:15 Pl | M | | | | | | | | |
| 04:15 PM | 197 | 1 | 198 | 0 | 0 | 0 | 3 | 131 | 134 | 332 |
| 04:30 PM | 223 | 0 | 223 | 0 | 1 | 1 | 3 | 145 | 148 | 372 |
| 04:45 PM | 212 | 1 | 213 | 1 | 0 | 1 | 1 | 115 | 116 | 330 |
| 05:00 PM | 232 | 0 | 232 | 1 | 0 | 1 | 1 | 122 | 123 | 356 |
| Total Volume | 864 | 2 | 866 | 2 | 1 | 3 | 8 | 513 | 521 | 1390 |
| % App. Total | 99.8 | 0.2 | | 66.7 | 33.3 | | 1.5 | 98.5 | | |
| PHE | 031 | 500 | 933 | 500 | 250 | 750 | 667 | 884 | 880 | 03/ |

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| | Licent Licent | | | | | | | | | | | | | |
|-------------|---------------|--------|------|------------|-------|--------|------|------------|-------|--------|------|------------|------------|--|
| | | US3 | 01 | | | Back | St. | | | US3 | 01 | | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total | |
| 03:00 PM | 322 | 0 | 0 | 322 | 0 | 2 | 0 | 2 | 5 | 346 | 0 | 351 | 675 | |
| 03:15 PM | 262 | 0 | 0 | 262 | 1 | 1 | 0 | 2 | 1 | 370 | 0 | 371 | 635 | |
| 03:30 PM | 268 | 0 | 0 | 268 | 0 | 3 | 0 | 3 | 2 | 400 | 0 | 402 | 673 | |
| 03:45 PM | 252 | 0 | 0 | 252 | 0 | 2 | 0 | 2 | 2 | 337 | 0 | 339 | 593 | |
| Total | 1104 | 0 | 0 | 1104 | 1 | 8 | 0 | 9 | 10 | 1453 | 0 | 1463 | 2576 | |
| 04:00 PM | 271 | 1 | 0 | 272 | 0 | 0 | 0 | 0 | 1 | 283 | 0 | 284 | 556 | |
| 04:15 PM | 298 | 0 | 0 | 298 | 3 | 3 | 0 | 6 | 1 | 319 | 0 | 320 | 624 | |
| 04:30 PM | 275 | 2 | 0 | 277 | 0 | 0 | 0 | 0 | 5 | 357 | 0 | 362 | 639 | |
| 04:45 PM | 224 | 1 | 0 | 225 | 2 | 2 | 0 | 4 | 3 | 275 | 0 | 278 | 507 | |
| Total | 1068 | 4 | 0 | 1072 | 5 | 5 | 0 | 10 | 10 | 1234 | 0 | 1244 | 2326 | |
| 05:00 PM | 229 | 3 | 0 | 232 | 0 | 2 | 0 | 2 | 1 | 313 | 0 | 314 | 548 | |
| 05:15 PM | 242 | 0 | 0 | 242 | 2 | 1 | 0 | 3 | 2 | 283 | 0 | 285 | 530 | |
| 05:30 PM | 208 | 0 | 0 | 208 | 2 | 3 | 0 | 5 | 0 | 255 | 0 | 255 | 468 | |
| 05:45 PM | 237 | 0 | 0 | 237 | 0 | 0 | 0 | 0 | 0 | 222 | 0 | 222 | 459 | |
| Total | 916 | 3 | 0 | 919 | 4 | 6 | 0 | 10 | 3 | 1073 | 0 | 1076 | 2005 | |
| 06:00 PM | 230 | 1 | 0 | 231 | 0 | 0 | 0 | 0 | 0 | 186 | 0 | 186 | 417 | |
| 06:15 PM | 195 | 1 | 0 | 196 | 0 | 0 | 0 | 0 | 0 | 268 | 0 | 268 | 464 | |
| 06:30 PM | 182 | 0 | 0 | 182 | 0 | 0 | 0 | 0 | 1 | 161 | 0 | 162 | 344 | |
| 06:45 PM | 185 | 0 | 0 | 185 | 0 | 0 | 0 | 0 | 0 | 196 | 0 | 196 | 381 | |
| Total | 792 | 2 | 0 | 794 | 0 | 0 | 0 | 0 | 1 | 811 | 0 | 812 | 1606 | |
| Grand Total | 3880 | 9 | 0 | 3889 | 10 | 19 | 0 | 29 | 24 | 4571 | 0 | 4595 | 8513 | |
| Apprch % | 99.8 | 0.2 | 0 | | 34.5 | 65.5 | 0 | | 0.5 | 99.5 | 0 | | | |
| Total % | 45.6 | 0.1 | 0 | 45.7 | 0.1 | 0.2 | 0 | 0.3 | 0.3 | 53.7 | 0 | 54 | | |

| | S | US301 outhbound | | V | Back St. Vestbound | | N | US301 lorthbound | | |
|-----------------------------------|----------------------|--------------------|------------|-------|-----------------------|------------|-------|---------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak 1 | of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 03:00 PM | M | | | | | | | | |
| 03:00 PM | 322 | 0 | 322 | 0 | 2 | 2 | 5 | 346 | 351 | 675 |
| 03:15 PM | 262 | 0 | 262 | 1 | 1 | 2 | 1 | 370 | 371 | 635 |
| 03:30 PM | 268 | 0 | 268 | 0 | 3 | 3 | 2 | 400 | 402 | 673 |
| 03:45 PM | 252 | 0 | 252 | 0 | 2 | 2 | 2 | 337 | 339 | 593 |
| Total Volume | 1104 | 0 | 1104 | 1 | 8 | 9 | 10 | 1453 | 1463 | 2576 |
| % App. Total | 100 | 0 | | 11.1 | 88.9 | | 0.7 | 99.3 | | |
| PHF | .857 | .000 | .857 | .250 | .667 | .750 | .500 | .908 | .910 | .954 |

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| | | | | | | <u> </u> | | | | | | | |
|-------------|------|--------|------|------------|-------|----------|------|------------|-------|--------|------|------------|------------|
| | | US3 | 01 | | | Back | St. | | | US3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 03:00 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 13 |
| 03:15 PM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 16 |
| 03:30 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 9 |
| 03:45 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 19 |
| Total | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 30 | 57 |
| 04:00 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 10 |
| 04:15 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 11 |
| 04:30 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 8 |
| 04:45 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 16 |
| Total | 20 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 25 | 45 |
| 05:00 PM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 11 |
| 05:15 PM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 18 |
| 05:30 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 11 |
| 05:45 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 13 |
| Total | 28 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 25 | 53 |
| 06:00 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 14 |
| 06:15 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 13 |
| 06:30 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 11 |
| 06:45 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 12 |
| Total | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 34 | 50 |
| Grand Total | 91 | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 114 | 0 | 114 | 205 |
| Apprch % | 100 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | |
| Total % | 44.4 | 0 | 0 | 44.4 | 0 | 0 | 0 | 0 | 0 | 55.6 | 0 | 55.6 | |

| | Sc | US301 outhbound | | | Back St. /estbound | | N | US301 orthbound | | |
|-------------------------------------|-----------------------|--------------------|------------|-------|-----------------------|------------|-------|--------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM to | o 06:45 PM - Peak 1 c | of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 03:00 PM | I | | | | | | | | |
| 03:00 PM | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 4 | 4 | 13 |
| 03:15 PM | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 10 | 10 | 16 |
| 03:30 PM | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 6 | 6 | 9 |
| 03:45 PM | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 10 | 10 | 19 |
| Total Volume | 27 | 0 | 27 | 0 | 0 | 0 | 0 | 30 | 30 | 57 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHF | .750 | .000 | .750 | .000 | .000 | .000 | .000 | .750 | .750 | .750 |

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Groups Printed-Combined

| LICON Deals Ct. | | | | | | | | | | | | | |
|-----------------|------|--------|------|------------|-------|--------|------|------------|-------|--------|------|------------|-------------|
| | | US3 | 01 | | | Back | St. | | | US3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 03:00 PM | 331 | 0 | 0 | 331 | 0 | 2 | 0 | 2 | 5 | 350 | 0 | 355 | 688 |
| 03:15 PM | 268 | 0 | 0 | 268 | 1 | 1 | 0 | 2 | 1 | 380 | 0 | 381 | 651 |
| 03:30 PM | 271 | 0 | 0 | 271 | 0 | 3 | 0 | 3 | 2 | 406 | 0 | 408 | 682 |
| 03:45 PM | 261 | 0 | 0 | 261 | 0 | 2 | 0 | 2 | 2 | 347 | 0 | 349 | 612 |
| Total | 1131 | 0 | 0 | 1131 | 1 | 8 | 0 | 9 | 10 | 1483 | 0 | 1493 | 2633 |
| 04:00 PM | 274 | 1 | 0 | 275 | 0 | 0 | 0 | 0 | 1 | 290 | 0 | 291 | 566 |
| 04:15 PM | 303 | 0 | 0 | 303 | 3 | 3 | 0 | 6 | 1 | 325 | 0 | 326 | 635 |
| 04:30 PM | 278 | 2 | 0 | 280 | 0 | 0 | 0 | 0 | 5 | 362 | 0 | 367 | 647 |
| 04:45 PM | 233 | 1 | 0 | 234 | 2 | 2 | 0 | 4 | 3 | 282 | 0 | 285 | 523 2371 |
| Total | 1088 | 4 | 0 | 1092 | 5 | 5 | 0 | 10 | 10 | 1259 | 0 | 1269 | 2371 |
| 05:00 PM | 235 | 3 | 0 | 238 | 0 | 2 | 0 | 2 | 1 | 318 | 0 | 319 | 559 |
| 05:15 PM | 252 | 0 | 0 | 252 | 2 | 1 | 0 | 3 | 2 | 291 | 0 | 293 | 548 |
| 05:30 PM | 211 | 0 | 0 | 211 | 2 | 3 | 0 | 5 | 0 | 263 | 0 | 263 | 479 |
| 05:45 PM | 246 | 0 | 0 | 246 | 0 | 0 | 0 | 0 | 0 | 226 | 0 | 226 | 472 |
| Total | 944 | 3 | 0 | 947 | 4 | 6 | 0 | 10 | 3 | 1098 | 0 | 1101 | 2058 |
| 06:00 PM | 235 | 1 | 0 | 236 | 0 | 0 | 0 | 0 | 0 | 195 | 0 | 195 | 431 |
| 06:15 PM | 198 | 1 | 0 | 199 | 0 | 0 | 0 | 0 | 0 | 278 | 0 | 278 | 477 |
| 06:30 PM | 187 | 0 | 0 | 187 | 0 | 0 | 0 | 0 | 1 | 167 | 0 | 168 | 355 |
| 06:45 PM | 188 | 0 | 0 | 188 | 0 | 0 | 0 | 0 | 0 | 205 | 0 | 205 | 393 |
| Total | 808 | 2 | 0 | 810 | 0 | 0 | 0 | 0 | 1 | 845 | 0 | 846 | 1656 |
| Grand Total | 3971 | 9 | 0 | 3980 | 10 | 19 | 0 | 29 | 24 | 4685 | 0 | 4709 | 8718 |
| Apprch % | 99.8 | 0.2 | 0 | | 34.5 | 65.5 | 0 | | 0.5 | 99.5 | 0 | | |
| Total % | 45.5 | 0.1 | 0 | 45.7 | 0.1 | 0.2 | 0 | 0.3 | 0.3 | 53.7 | 0 | 54 | |

| | 5 | US301 Southbound | | | Back St. Westbound | I | | US301 Northbound | I | |
|-----------------------------------|---------------------|---------------------|------|------|-----------------------|------------|-------|---------------------|------------|------------|
| Start Time | Thru | | | | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak | 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | n Begins at 03:00 F | PM | | | | | | | | |
| 03:00 PM | 331 | 0 | 331 | 0 | 2 | 2 | 5 | 350 | 355 | 688 |
| 03:15 PM | 268 | 0 | 268 | 1 | 1 | 2 | 1 | 380 | 381 | 651 |
| 03:30 PM | 271 | 0 | 271 | 0 | 3 | 3 | 2 | 406 | 408 | 682 |
| 03:45 PM | 261 | 0 | 261 | 0 | 2 | 2 | 2 | 347 | 349 | 612 |
| Total Volume | 1131 | 0 | 1131 | 1 | 8 | 9 | 10 | 1483 | 1493 | 2633 |
| % App. Total | 100 | 0 | | 11.1 | 88.9 | | 0.7 | 99.3 | | |
| PHF | .854 | .000 | .854 | .250 | .667 | .750 | .500 | .913 | .915 | .957 |

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Site Code:

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| | | | | | <u> </u> | PO 1 111110 | <u>u uu.</u> | | | | | | |
|-------------|------|--------|------|------------|----------|-------------|--------------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Carolir | ne St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 03:00 PM | 224 | 0 | 0 | 224 | 1 | 0 | 0 | 1 | 1 | 137 | 0 | 138 | 363 |
| 03:15 PM | 199 | 0 | 0 | 199 | 0 | 0 | 0 | 0 | 1 | 149 | 0 | 150 | 349 |
| 03:30 PM | 238 | 0 | 0 | 238 | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 150 | 388 |
| 03:45 PM | 217 | 0 | 0 | 217 | 0 | 0 | 0 | 0 | 1 | 139 | 0 | 140 | 357 |
| Total | 878 | 0 | 0 | 878 | 1 | 0 | 0 | 1 | 3 | 575 | 0 | 578 | 1457 |
| 04:00 PM | 234 | 1 | 0 | 235 | 0 | 0 | 0 | 0 | 0 | 144 | 0 | 144 | 379 |
| 04:15 PM | 228 | 0 | 0 | 228 | 0 | 0 | 0 | 0 | 1 | 159 | 0 | 160 | 388 |
| 04:30 PM | 245 | 1 | 0 | 246 | 1 | 0 | 0 | 1 | 1 | 129 | 0 | 130 | 377 |
| 04:45 PM | 252 | 0 | 0 | 252 | 0 | 0 | 0 | 0 | 0 | 163 | 0 | 163 | 415 |
| Total | 959 | 2 | 0 | 961 | 1 | 0 | 0 | 1 | 2 | 595 | 0 | 597 | 1559 |
| 05:00 PM | 237 | 0 | 0 | 237 | 1 | 0 | 0 | 1 | 0 | 135 | 0 | 135 | 373 |
| 05:15 PM | 228 | 0 | 0 | 228 | 0 | 0 | 0 | 0 | 0 | 129 | 0 | 129 | 357 |
| 05:30 PM | 216 | 0 | 0 | 216 | 1 | 0 | 0 | 1 | 1 | 131 | 0 | 132 | 349 |
| 05:45 PM | 199 | 1 | 0 | 200 | 0 | 1 | 0 | 1 | 0 | 115 | 0 | 115 | 316 |
| Total | 880 | 1 | 0 | 881 | 2 | 1 | 0 | 3 | 1 | 510 | 0 | 511 | 1395 |
| 06:00 PM | 156 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 112 | 0 | 112 | 268 |
| 06:15 PM | 123 | 0 | 0 | 123 | 0 | 1 | 0 | 1 | 0 | 105 | 0 | 105 | 229 |
| 06:30 PM | 140 | 0 | 0 | 140 | 1 | 0 | 0 | 1 | 0 | 91 | 0 | 91 | 232 |
| 06:45 PM | 124 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 97 | 0 | 97 | 221 |
| Total | 543 | 0 | 0 | 543 | 1 | 1 | 0 | 2 | 0 | 405 | 0 | 405 | 950 |
| Grand Total | 3260 | 3 | 0 | 3263 | 5 | 2 | 0 | 7 | 6 | 2085 | 0 | 2091 | 5361 |
| Apprch % | 99.9 | 0.1 | 0 | | 71.4 | 28.6 | 0 | | 0.3 | 99.7 | 0 | | |
| Total % | 60.8 | 0.1 | 0 | 60.9 | 0.1 | 0 | 0 | 0.1 | 0.1 | 38.9 | 0 | 39 | |

| | | US 301 | | С | aroline St | | | US 301 | | |
|------------------------------------|----------------------|----------|------------|-------|------------|------------|-------|-----------|------------|------------|
| | So | uthbound | | W | estbound | | No | orthbound | | |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| eak Hour Analysis From 03:00 PM to | 06:45 PM - Peak 1 of | f 1 | | | • | | | • | | |
| eak Hour for Entire Intersection B | egins at 04:00 PM | | | | | | | | | |
| 04:00 PM | 234 | 1 | 235 | 0 | 0 | 0 | 0 | 144 | 144 | 379 |
| 04:15 PM | 228 | 0 | 228 | 0 | 0 | 0 | 1 | 159 | 160 | 388 |
| 04:30 PM | 245 | 1 | 246 | 1 | 0 | 1 | 1 | 129 | 130 | 377 |
| 04:45 PM | 252 | 0 | 252 | 0 | 0 | 0 | 0 | 163 | 163 | 415 |
| Total Volume | 959 | 2 | 961 | 1 | 0 | 1 | 2 | 595 | 597 | 1559 |
| % App. Total | 99.8 | 0.2 | | 100 | 0 | | 0.3 | 99.7 | | |
| PHF | 951 | 500 | 953 | 250 | 000 | 250 | 500 | 913 | 916 | 939 |

File Name: 3-FRI-US 301 & Caroline St FRI

Site Code:

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| | | | | | | | 5 Filliteu | Group | | | | | |
|------------|------------|------|---------|-------|------------|-------|------------|-------|------------|------|---------|------|-------------|
| | | 01 | US 30 | | | ne St | Carolir | | | 01 | US 3 | | |
| | | ound | Northbo | | | ound | Westbo | | | ound | Southbo | | |
| Int. Total | App. Total | Peds | Thru | Right | App. Total | Peds | Left | Right | App. Total | Peds | Left | Thru | Start Time |
| 21 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 03:00 PM |
| 26 | 14 | 0 | 14 | 0 | 1 | 0 | 1 | 0 | 11 | 0 | 0 | 11 | 03:15 PM |
| 29 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 03:30 PM |
| 23 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 03:45 PM |
| 99 | 50 | 0 | 50 | 0 | 1 | 0 | 1 | 0 | 48 | 0 | 0 | 48 | Total |
| 22 23 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 04:00 PM |
| 23 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 04:15 PM |
| 20 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 04:30 PM |
| 19 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 04:45 PM |
| 84 | 35 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 0 | 49 | Total |
| 15 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 05:00 PM |
| 19 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 05:15 PM |
| 23 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 12 | 05:30 PM |
| 18 75 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 05:45 PM |
| 75 | 28 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 47 | Total |
| 14 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 06:00 PM |
| 17 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 06:15 PM |
| 9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 06:30 PM |
| 12 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 06:45 PM |
| 52 | 17 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 0 | 35 | Total |
| 310 | 130 | 0 | 130 | 0 | 1 | 0 | 1 | 0 | 179 | 0 | 0 | 179 | Grand Total |
| | | 0 | 100 | 0 | | 0 | 100 | 0 | | 0 | 0 | 100 | Apprch % |
| | 41.9 | 0 | 41.9 | 0 | 0.3 | 0 | 0.3 | 0 | 57.7 | 0 | 0 | 57.7 | Total % |
| | | | | | | | | | | | | | |

| | | US 301 | | C | aroline St | | | US 301 | | |
|--------------------------------------|----------------------|----------|------------|-------|------------|------------|-------|-----------|------------|------------|
| | So | uthbound | | W | estbound | | No | orthbound | | |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| eak Hour Analysis From 03:00 PM to 0 | 06:45 PM - Peak 1 of | 1 | | | • | | | • | | |
| eak Hour for Entire Intersection Be | egins at 03:15 PM | | | | | | | | | |
| 03:15 PM | 11 | 0 | 11 | 0 | 1 | 1 | 0 | 14 | 14 | 26 |
| 03:30 PM | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 15 | 15 | 29 |
| 03:45 PM | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 14 | 14 | 23 |
| 04:00 PM | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 7 | 7 | 22 |
| Total Volume | 49 | 0 | 49 | 0 | 1 | 1 | 0 | 50 | 50 | 100 |
| % App. Total | 100 | 0 | | 0 | 100 | | 0 | 100 | | |
| PHF | 817 | 000 | 817 | 000 | 250 | 250 | 000 | 833 | 833 | 862 |

File Name: 3-FRI-US 301 & Caroline St FRI

Site Code:

Start Date : 11/2/2018

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Groups Printed-Combined

| | Lic and Constitute Con | | | | | | | | | | | | | |
|-------------|--|--------|------|------------|-------|---------|-------|------------|-------|--------|------|------------|------------|--|
| | | US 3 | 01 | | | Carolir | ne St | | | US 3 | 301 | | | |
| | | Southb | ound | | | Westbe | ound | | | Northb | ound | | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total | |
| 03:00 PM | 238 | 0 | 0 | 238 | 1 | 0 | 0 | 1 | 1 | 144 | 0 | 145 | 384 | |
| 03:15 PM | 210 | 0 | 0 | 210 | 0 | 1 | 0 | 1 | 1 | 163 | 0 | 164 | 375 | |
| 03:30 PM | 252 | 0 | 0 | 252 | 0 | 0 | 0 | 0 | 0 | 165 | 0 | 165 | 417 | |
| 03:45 PM | 226 | 0 | 0 | 226 | 0 | 0 | 0 | 0 | 1 | 153 | 0 | 154 | 380 | |
| Total | 926 | 0 | 0 | 926 | 1 | 1 | 0 | 2 | 3 | 625 | 0 | 628 | 1556 | |
| 04:00 PM | 249 | 1 | 0 | 250 | 0 | 0 | 0 | 0 | 0 | 151 | 0 | 151 | 401 | |
| 04:15 PM | 239 | 0 | 0 | 239 | 0 | 0 | 0 | 0 | 1 | 171 | 0 | 172 | 411 | |
| 04:30 PM | 258 | 1 | 0 | 259 | 1 | 0 | 0 | 1 | 1 | 136 | 0 | 137 | 397 | |
| 04:45 PM | 262 | 0 | 0 | 262 | 0 | 0 | 0 | 0 | 0 | 172 | 0 | 172 | 434 | |
| Total | 1008 | 2 | 0 | 1010 | 1 | 0 | 0 | 1 | 2 | 630 | 0 | 632 | 1643 | |
| 05:00 PM | 247 | 0 | 0 | 247 | 1 | 0 | 0 | 1 | 0 | 140 | 0 | 140 | 388 | |
| 05:15 PM | 239 | 0 | 0 | 239 | 0 | 0 | 0 | 0 | 0 | 137 | 0 | 137 | 376 | |
| 05:30 PM | 228 | 0 | 0 | 228 | 1 | 0 | 0 | 1 | 1 | 142 | 0 | 143 | 372 | |
| 05:45 PM | 213 | 1 | 0 | 214 | 0 | 1 | 0 | 1 | 0 | 119 | 0 | 119 | 334 | |
| Total | 927 | 1 | 0 | 928 | 2 | 1 | 0 | 3 | 1 | 538 | 0 | 539 | 1470 | |
| 06:00 PM | 167 | 0 | 0 | 167 | 0 | 0 | 0 | 0 | 0 | 115 | 0 | 115 | 282 | |
| 06:15 PM | 130 | 0 | 0 | 130 | 0 | 1 | 0 | 1 | 0 | 115 | 0 | 115 | 246 | |
| 06:30 PM | 148 | 0 | 0 | 148 | 1 | 0 | 0 | 1 | 0 | 92 | 0 | 92 | 241 | |
| 06:45 PM | 133 | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 100 | 233 | |
| Total | 578 | 0 | 0 | 578 | 1 | 1 | 0 | 2 | 0 | 422 | 0 | 422 | 1002 | |
| Grand Total | 3439 | 3 | 0 | 3442 | 5 | 3 | 0 | 8 | 6 | 2215 | 0 | 2221 | 5671 | |
| Apprch % | 99.9 | 0.1 | 0 | | 62.5 | 37.5 | 0 | | 0.3 | 99.7 | 0 | | | |
| Total % | 60.6 | 0.1 | 0 | 60.7 | 0.1 | 0.1 | 0 | 0.1 | 0.1 | 39.1 | 0 | 39.2 | | |

| | | US 301 Southbound | d | | Caroline S Westboun | | | US 301 Northbound | I | |
|-----------------------------------|--------------------|----------------------|------|-------|------------------------|------------|-------|----------------------|------------|------------|
| Start Time | Thru | | | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak | 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | n Begins at 04:00 | PM | | | | | | | | |
| 04:00 PM | 249 | 1 | 250 | 0 | 0 | 0 | 0 | 151 | 151 | 401 |
| 04:15 PM | 239 | 0 | 239 | 0 | 0 | 0 | 1 | 171 | 172 | 411 |
| 04:30 PM | 258 | 1 | 259 | 1 | 0 | 1 | 1 | 136 | 137 | 397 |
| 04:45 PM | 262 | 0 | 262 | 0 | 0 | 0 | 0 | 172 | 172 | 434 |
| Total Volume | 1008 | 2 | 1010 | 1 | 0 | 1 | 2 | 630 | 632 | 1643 |
| % App. Total | 99.8 | 0.2 | | 100 | 0 | | 0.3 | 99.7 | | |
| PHF | .962 | .500 | .964 | .250 | .000 | .250 | .500 | .916 | .919 | .946 |

File Name: 3-US 301 & Caroline St AM

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| | | | | | Grou | ps Fillite | u- Cai | | | | | | |
|-------------|------|--------|------|------------|-------|------------|--------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Carolii | ne St | | | US 3 | 801 | | |
| | | Southb | ound | | | Westb | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:00 AM | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 81 | 0 | 81 | 123 |
| 06:15 AM | 72 | 0 | 0 | 72 | 0 | 0 | 0 | 0 | 0 | 95 | 0 | 95 | 167 |
| 06:30 AM | 83 | 0 | 0 | 83 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 142 | 225 |
| 06:45 AM | 75 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 119 | 0 | 119 | 194 |
| Total | 272 | 0 | 0 | 272 | 0 | 0 | 0 | 0 | 0 | 437 | 0 | 437 | 709 |
| 07:00 AM | 76 | 0 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 118 | 194 |
| 07:15 AM | 89 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 117 | 206 |
| 07:30 AM | 75 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 125 | 0 | 125 | 200 |
| 07:45 AM | 69 | 0 | 0 | 69 | 1 | 0 | 0 | 1 | 0 | 123 | 0 | 123 | 193 |
| Total | 309 | 0 | 0 | 309 | 1 | 0 | 0 | 1 | 0 | 483 | 0 | 483 | 793 |
| 08:00 AM | 87 | 0 | 0 | 87 | 0 | 1 | 0 | 1 | 0 | 101 | 0 | 101 | 189 |
| 08:15 AM | 87 | 1 | 0 | 88 | 0 | 1 | 0 | 1 | 0 | 105 | 0 | 105 | 194 |
| 08:30 AM | 85 | 0 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 94 | 0 | 94 | 179 |
| 08:45 AM | 84 | 0 | 0 | 84 | 0 | 2 | 0 | 2 | 0 | 89 | 0 | 89 | 175 |
| Total | 343 | 1 | 0 | 344 | 0 | 4 | 0 | 4 | 0 | 389 | 0 | 389 | 737 |
| Grand Total | 924 | 1 | 0 | 925 | 1 | 4 | 0 | 5 | 0 | 1309 | 0 | 1309 | 2239 |
| Apprch % | 99.9 | 0.1 | 0 | | 20 | 80 | 0 | | 0 | 100 | 0 | | |
| Total % | 41.3 | 0 | 0 | 41.3 | 0 | 0.2 | 0 | 0.2 | 0 | 58.5 | 0 | 58.5 | |

| | | US 301 Southbound | ı | | Caroline St Westbound | | | US 301 Northbound | | |
|----------------------------------|-------------------|----------------------|------------|-------|--------------------------|------------|-------|----------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| eak Hour Analysis From 06:00 AM | to 08:45 AM - Pea | k 1 of 1 | | | | | | | | |
| eak Hour for Entire Intersection | Begins at 06:30 | AM | | | | | | | | |
| 06:30 AM | 83 | 0 | 83 | 0 | 0 | 0 | 0 | 142 | 142 | 225 |
| 06:45 AM | 75 | 0 | 75 | 0 | 0 | 0 | 0 | 119 | 119 | 194 |
| 07:00 AM | 76 | 0 | 76 | 0 | 0 | 0 | 0 | 118 | 118 | 194 |
| 07:15 AM | 89 | 0 | 89 | 0 | 0 | 0 | 0 | 117 | 117 | 206 |
| Total Volume | 323 | 0 | 323 | 0 | 0 | 0 | 0 | 496 | 496 | 819 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHE | 907 | 000 | 907 | 000 | 000 | 000 | 000 | 873 | 873 | 910 |

File Name: 3-US 301 & Caroline St AM

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| | | | | | Group | os Fillitet | I- ITUCK | | | | | | |
|-------------|------|--------|------|------------|-------|-------------|----------|------------|-------|--------|------|------------|------------|
| | | US 3 | 301 | | | Carolii | ne St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westb | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:00 AM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 14 |
| 06:15 AM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 21 |
| 06:30 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 19 | 26 |
| 06:45 AM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 28 |
| Total | 36 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 53 | 89 |
| 07:00 AM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 21 |
| 07:15 AM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 17 |
| 07:30 AM | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 22 |
| 07:45 AM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 28 |
| Total | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 46 | 0 | 46 | 88 |
| 08:00 AM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 | 19 |
| 08:15 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 23 |
| 08:30 AM | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 18 | 26 |
| 08:45 AM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 19 | 26 |
| Total | 28 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 66 | 0 | 66 | 94 |
| Grand Total | 106 | 0 | 0 | 106 | 0 | 0 | 0 | 0 | 0 | 165 | 0 | 165 | 271 |
| Apprch % | 100 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | |
| Total % | 39.1 | 0 | 0 | 39.1 | 0 | 0 | 0 | 0 | 0 | 60.9 | 0 | 60.9 | |

| | (| US 301 Southbound | | _ | aroline St estbound | | No | US 301 orthbound | | |
|-----------------------------------|--------------------|----------------------|------------|-------|------------------------|------------|-------|---------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 06:00 AM | to 08:45 AM - Peak | 1 of 1 | | | • | | | • | | |
| Peak Hour for Entire Intersection | Begins at 06:15 A | AM | | | | | | | | |
| 06:15 AM | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 11 | 11 | 21 |
| 06:30 AM | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 19 | 19 | 26 |
| 06:45 AM | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 18 | 18 | 28 |
| 07:00 AM | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 11 | 11 | 21 |
| Total Volume | 37 | 0 | 37 | 0 | 0 | 0 | 0 | 59 | 59 | 96 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHE | 925 | 000 | 925 | 000 | 000 | 000 | 000 | 776 | 776 | 857 |

File Name: 3-US 301 & Caroline St AM

Site Code:

Start Date : 11/1/2018

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Groups Printed- Combined

| | | | | | Groups | r mileu- C | | | | | | | |
|-------------|------|--------|------|------------|--------|------------|-------|------------|------------|------|------|------------|------------|
| | | US 3 | 801 | | | Carolir | ne St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | Northbound | | | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 06:00 AM | 51 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 86 | 0 | 86 | 137 |
| 06:15 AM | 82 | 0 | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 106 | 0 | 106 | 188 |
| 06:30 AM | 90 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | 161 | 0 | 161 | 251 |
| 06:45 AM | 85 | 0 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 137 | 0 | 137 | 222 |
| Total | 308 | 0 | 0 | 308 | 0 | 0 | 0 | 0 | 0 | 490 | 0 | 490 | 798 |
| 07:00 AM | 86 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 129 | 0 | 129 | 215 |
| 07:15 AM | 97 | 0 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 126 | 0 | 126 | 223 |
| 07:30 AM | 89 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 133 | 0 | 133 | 222 |
| 07:45 AM | 79 | 0 | 0 | 79 | 1 | 0 | 0 | 1 | 0 | 141 | 0 | 141 | 221 |
| Total | 351 | 0 | 0 | 351 | 1 | 0 | 0 | 1 | 0 | 529 | 0 | 529 | 881 |
| 08:00 AM | 93 | 0 | 0 | 93 | 0 | 1 | 0 | 1 | 0 | 114 | 0 | 114 | 208 |
| 08:15 AM | 94 | 1 | 0 | 95 | 0 | 1 | 0 | 1 | 0 | 121 | 0 | 121 | 217 |
| 08:30 AM | 93 | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 112 | 0 | 112 | 205 |
| 08:45 AM | 91 | 0 | 0 | 91 | 0 | 2 | 0 | 2 | 0 | 108 | 0 | 108 | 201 |
| Total | 371 | 1 | 0 | 372 | 0 | 4 | 0 | 4 | 0 | 455 | 0 | 455 | 831 |
| Grand Total | 1030 | 1 | 0 | 1031 | 1 | 4 | 0 | 5 | 0 | 1474 | 0 | 1474 | 2510 |
| Apprch % | 99.9 | 0.1 | 0 | | 20 | 80 | 0 | | 0 | 100 | 0 | | |
| Total % | 41 | 0 | 0 | 41.1 | 0 | 0.2 | 0 | 0.2 | 0 | 58.7 | 0 | 58.7 | |

| | 9 | US 301 Southbound | | _ | aroline St estbound | | No | | | |
|-----------------------------------|--------------------|----------------------|------------|-------|------------------------|------------|-------|------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 06:00 AM | to 08:45 AM - Peak | 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 06:30 A | M | | | | | | | | |
| 06:30 AM | 90 | 0 | 90 | 0 | 0 | 0 | 0 | 161 | 161 | 251 |
| 06:45 AM | 85 | 0 | 85 | 0 | 0 | 0 | 0 | 137 | 137 | 222 |
| 07:00 AM | 86 | 0 | 86 | 0 | 0 | 0 | 0 | 129 | 129 | 215 |
| 07:15 AM | 97 | 0 | 97 | 0 | 0 | 0 | 0 | 126 | 126 | 223 |
| Total Volume | 358 | 0 | 358 | 0 | 0 | 0 | 0 | 553 | 553 | 911 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHE | 023 | 000 | 923 | 000 | 000 | 000 | 000 | 850 | 850 | 907 |

File Name: 3-US 301 & Caroline St PM

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| | | | | | Giou | ps Finite | u- Oui | | | | | | |
|----------------------|------|--------|------|------------|-------|-----------|--------|------------|------------|------|------|------------|------------|
| | | US 3 | 01 | | | Carolin | ne St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbe | ound | | Northbound | | | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:00 PM | 167 | 0 | 0 | 167 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 99 | 266 |
| 04:15 PM | 177 | 0 | 0 | 177 | 0 | 0 | 0 | 0 | 0 | 105 | 0 | 105 | 282 |
| 04:30 PM | 212 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 117 | 329 |
| 04:45 PM | 182 | 1 | 0 | 183 | 1 | 0 | 0 | 1 | 0 | 101 | 0 | 101 | 285 |
| Total | 738 | 1 | 0 | 739 | 1 | 0 | 0 | 1 | 0 | 422 | 0 | 422 | 1162 |
| 05:00 PM | 216 | 0 | 0 | 216 | 1 | 0 | 0 | 1.1 | 1 | 110 | 0 | 111 | 328 |
| 05:00 PM 05:15 PM | 171 | 1 | 0 | 172 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 118 | 290 |
| 05:30 PM | 187 | 1 | 0 | 188 | 0 | 0 | 0 | 0 | 0 | 114 | 0 | 114 | 302 |
| | 185 | 1 | | 186 | 0 | 0 | | ~ | - | | 0 | 104 | |
| 05:45 PM | | 1 | 0 | | 0 | | 0 | 0 | 0 | 104 | 0 | | 290 |
| Total | 759 | 3 | 0 | 762 | 1 | 0 | 0 | 1 | 1 | 446 | 0 | 447 | 1210 |
| 06:00 PM | 173 | 1 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 93 | 0 | 93 | 267 |
| 06:15 PM | 119 | 0 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 78 | 0 | 78 | 197 |
| 06:30 PM | 120 | 0 | 0 | 120 | 0 | 1 | 0 | 1 | 0 | 76 | 0 | 76 | 197 |
| 06:45 PM | 102 | 1 | 0 | 103 | 1 | 0 | 0 | 1 | 1 | 55 | 0 | 56 | 160 |
| Total | 514 | 2 | 0 | 516 | 1 | 1 | 0 | 2 | 1 | 302 | 0 | 303 | 821 |
| Grand Total | 2011 | 6 | 0 | 2017 | 3 | 1 | 0 | 4 | 2 | 1170 | 0 | 1172 | 3193 |
| | | | | 2017 | 75 | 25 | | 4 | | | | 11/2 | 3193 |
| Apprch % | 99.7 | 0.3 | 0 | 62.2 | | 25 | 0 | 0.1 | 0.2 | 99.8 | 0 | 26.7 | |
| Total % | 63 | 0.2 | 0 | 63.2 | 0.1 | 0 | 0 | 0.1 | 0.1 | 36.6 | 0 | 36.7 | |

| | | US 301 | | С | aroline St | | | US 301 | | |
|----------------------------------|---------------------|-----------|------------|-------|------------|------------|-------|--------|------------|------------|
| | S | outhbound | | W | estbound | | No | | | |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| ak Hour Analysis From 04:00 PM t | o 06:45 PM - Peak 1 | of 1 | | | | | • | • | | |
| ak Hour for Entire Intersection | Begins at 04:30 Pl | M | | | | | | | | |
| 04:30 PM | 212 | 0 | 212 | 0 | 0 | 0 | 0 | 117 | 117 | 329 |
| 04:45 PM | 182 | 1 | 183 | 1 | 0 | 1 | 0 | 101 | 101 | 285 |
| 05:00 PM | 216 | 0 | 216 | 1 | 0 | 1 | 1 | 110 | 111 | 328 |
| 05:15 PM | 171 | 1 | 172 | 0 | 0 | 0 | 0 | 118 | 118 | 290 |
| Total Volume | 781 | 2 | 783 | 2 | 0 | 2 | 1 | 446 | 447 | 1232 |
| % App. Total | 99.7 | 0.3 | | 100 | 0 | | 0.2 | 99.8 | | |
| PHF | 904 | 500 | 906 | .500 | 000 | 500 | 250 | .945 | .947 | 936 |

File Name: 3-US 301 & Caroline St PM

Site Code:

Start Date : 11/1/2018

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| | | | | | Group | 5 Fillitet | I- ITUCK | | | | | | |
|-------------|------|------------|------|------------|-------|------------|----------|------------|-------|------------|------|------------|------------|
| | | US 3 | 801 | | | Caroli | ne St | | | US 3 | 801 | | |
| | | Southbound | | | | Westbound | | | | Northbound | | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:00 PM | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 29 |
| 04:15 PM | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 22 | 36 |
| 04:30 PM | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 20 | 33 |
| 04:45 PM | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 33 |
| Total | 63 | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 68 | 0 | 68 | 131 |
| 05:00 PM | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 25 |
| 05:15 PM | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 19 |
| 05:30 PM | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 14 | 25 |
| 05:45 PM | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 29 |
| Total | 55 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 43 | 98 |
| 06:00 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 15 |
| 06:15 PM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 19 |
| 06:30 PM | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 22 |
| 06:45 PM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 14 |
| Total | 46 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 24 | 70 |
| Grand Total | 164 | 0 | 0 | 164 | 0 | 0 | 0 | 0 | 0 | 135 | 0 | 135 | 299 |
| Apprch % | 100 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | |
| Total % | 54.8 | 0 | 0 | 54.8 | 0 | 0 | 0 | 0 | 0 | 45.2 | 0 | 45.2 | |

| | | US 301 | | С | aroline St | | | US 301 | | |
|-----------------------------------|---------------------|-----------|------------|-------|------------|------------|-------|--------|------------|------------|
| | S | outhbound | | W | estbound | | No | | | |
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| ak Hour Analysis From 04:00 PM to | o 06:45 PM - Peak 1 | of 1 | | | | | | • | | |
| eak Hour for Entire Intersection | Begins at 04:00 PM | 1 | | | | | | | | |
| 04:00 PM | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 15 | 15 | 29 |
| 04:15 PM | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 22 | 22 | 36 |
| 04:30 PM | 13 | 0 | 13 | 0 | 0 | 0 | 0 | 20 | 20 | 33 |
| 04:45 PM | 22 | 0 | 22 | 0 | 0 | 0 | 0 | 11 | 11 | 33 |
| Total Volume | 63 | 0 | 63 | 0 | 0 | 0 | 0 | 68 | 68 | 131 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHF | 716 | 000 | 716 | 000 | 000 | 000 | 000 | 773 | 773 | 910 |

File Name: 3-US 301 & Caroline St PM

Site Code:

Start Date : 11/1/2018

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Groups Printed- Combined

| | | | | | Groups | Tillicu- C | | <u>. </u> | | | | | |
|-------------|------|--------|------|------------|--------|------------|-------|--|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Carolir | ne St | | | US 3 | 01 | | |
| | | Southb | ound | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 04:00 PM | 181 | 0 | 0 | 181 | 0 | 0 | 0 | 0 | 0 | 114 | 0 | 114 | 295 |
| 04:15 PM | 191 | 0 | 0 | 191 | 0 | 0 | 0 | 0 | 0 | 127 | 0 | 127 | 318 |
| 04:30 PM | 225 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 137 | 0 | 137 | 362 |
| 04:45 PM | 204 | 1 | 0 | 205 | 1 | 0 | 0 | 1 | 0 | 112 | 0 | 112 | 318 |
| Total | 801 | 1 | 0 | 802 | 1 | 0 | 0 | 1 | 0 | 490 | 0 | 490 | 1293 |
| 05:00 PM | 231 | 0 | 0 | 231 | 1 | 0 | 0 | 1 | 1 | 120 | 0 | 121 | 353 |
| 05:15 PM | 182 | 1 | 0 | 183 | 0 | 0 | 0 | 0 | 0 | 126 | 0 | 126 | 309 |
| 05:30 PM | 198 | 1 | 0 | 199 | 0 | 0 | 0 | 0 | 0 | 128 | 0 | 128 | 327 |
| 05:45 PM | 203 | 1 | 0 | 204 | 0 | 0 | 0 | 0 | 0 | 115 | 0 | 115 | 319 |
| Total | 814 | 3 | 0 | 817 | 1 | 0 | 0 | 1 | 1 | 489 | 0 | 490 | 1308 |
| 06:00 PM | 182 | 1 | 0 | 183 | 0 | 0 | 0 | 0 | 0 | 99 | 0 | 99 | 282 |
| 06:15 PM | 129 | 0 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 87 | 0 | 87 | 216 |
| 06:30 PM | 137 | 0 | 0 | 137 | 0 | 1 | 0 | 1 | 0 | 81 | 0 | 81 | 219 |
| 06:45 PM | 112 | 1 | 0 | 113 | 1 | 0 | 0 | 1 | 1 | 59 | 0 | 60 | 174 |
| Total | 560 | 2 | 0 | 562 | 1 | 1 | 0 | 2 | 1 | 326 | 0 | 327 | 891 |
| Grand Total | 2175 | 6 | 0 | 2181 | 3 | 1 | 0 | 4 | 2 | 1305 | 0 | 1307 | 3492 |
| Apprch % | 99.7 | 0.3 | 0 | | 75 | 25 | 0 | | 0.2 | 99.8 | 0 | | |
| Total % | 62.3 | 0.2 | 0 | 62.5 | 0.1 | 0 | 0 | 0.1 | 0.1 | 37.4 | 0 | 37.4 | |
| | | | | | | | | | | | | | |

| | S | US 301 Southbound | | | aroline St estbound | | N | US 301 orthbound | | |
|-----------------------------------|----------------------|----------------------|------------|-------|------------------------|------------|-------|---------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM | to 06:45 PM - Peak 1 | of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 04:15 Pl | M | | | | | | | | |
| 04:15 PM | 191 | 0 | 191 | 0 | 0 | 0 | 0 | 127 | 127 | 318 |
| 04:30 PM | 225 | 0 | 225 | 0 | 0 | 0 | 0 | 137 | 137 | 362 |
| 04:45 PM | 204 | 1 | 205 | 1 | 0 | 1 | 0 | 112 | 112 | 318 |
| 05:00 PM | 231 | 0 | 231 | 1 | 0 | 1 | 1 | 120 | 121 | 353 |
| Total Volume | 851 | 1 | 852 | 2 | 0 | 2 | 1 | 496 | 497 | 1351 |
| % App. Total | 99.9 | 0.1 | | 100 | 0 | | 0.2 | 99.8 | | |
| PHF | .921 | .250 | .922 | .500 | .000 | .500 | .250 | .905 | .907 | .933 |

File Name: 3-US 301 and Caroline St SUN

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Groups Printed- Car

| _ | | | | | | | ps Fillite | Grou | | | | | |
|------------|------------|------|---------|-------|------------|-------|------------|-------|------------|------|--------|------|-------------|
| | \neg | 01 | US 30 | | | ne St | Carolin | | | 01 | US 3 | | |
| | | ound | Northbo | | | ound | Westbo | | | ound | Southb | | |
| Int. Total | App. Total | Peds | Thru | Right | App. Total | Peds | Left | Right | App. Total | Peds | Left | Thru | Start Time |
| 691 | 355 | 0 | 354 | 1 | 1 | 0 | 0 | 1 | 335 | 0 | 1 | 334 | 03:00 PM |
| 629 | 377 | 0 | 376 | 1 | 1 | 0 | 1 | 0 | 251 | 0 | 0 | 251 | 03:15 PM |
| 668 | 399 | 0 | 399 | 0 | 0 | 0 | 0 | 0 | 269 | 0 | 0 | 269 | 03:30 PM |
| 577 | 324 | 0 | 324 | 0 | 0 | 0 | 0 | 0 | 253 | 0 | 0 | 253 | 03:45 PM |
| 2565 | 1455 | 0 | 1453 | 2 | 2 | 0 | 1 | 1 | 1108 | 0 | 1 | 1107 | Total |
| 570 | 288 | 0 | 288 | 0 | 0 | 0 | 0 | 0 | 282 | 0 | 1 | 281 | 04:00 PM |
| 629 | 327 | 0 | 327 | 0 | 0 | 0 | 0 | 0 | 302 | 0 | 0 | 302 | 04:15 PM |
| 613 | 338 | 0 | 338 | 0 | 1 | 0 | 1 | 0 | 274 | 0 | 0 | 274 | 04:30 PM |
| 515 | 292 | 0 | 291 | 1 | 1 | 0 | 0 | 1 | 222 | 0 | 0 | 222 | 04:45 PM |
| 2327 | 1245 | 0 | 1244 | 1 | 2 | 0 | 1 | 1 | 1080 | 0 | 1 | 1079 | Total |
| 547 | 310 | 0 | 310 | 0 | 1 | 0 | 1 | 0 | 236 | 0 | 0 | 236 | 05:00 PM |
| 526 | 279 | 0 | 278 | 1 | 1 | 0 | 0 | 1 | 246 | 0 | 1 | 245 | 05:15 PM |
| 467 | 249 | 0 | 249 | 0 | 0 | 0 | 0 | 0 | 218 | 0 | 0 | 218 | 05:30 PM |
| | 229 | 0 | 229 | 0 | 0 | 0 | 0 | 0 | 244 | 0 | 0 | 244 | 05:45 PM |
| 2013 | 1067 | 0 | 1066 | 1 | 2 | 0 | 1 | 1 | 944 | 0 | 1 | 943 | Total |
| 407 | 180 | 0 | 178 | 2 | 0 | 0 | 0 | 0 | 227 | 0 | 1 | 226 | 06:00 PM |
| 442 | 247 | 0 | 247 | 0 | 0 | 0 | 0 | 0 | 195 | 0 | 0 | 195 | 06:15 PM |
| 345 | 161 | 0 | 160 | 1 | 0 | 0 | 0 | 0 | 184 | 0 | 0 | 184 | 06:30 PM |
| 378 | 201 | 0 | 201 | 0 | 0 | 0 | 0 | 0 | 177 | 0 | 0 | 177 | 06:45 PM |
| 1572 | 789 | 0 | 786 | 3 | 0 | 0 | 0 | 0 | 783 | 0 | 1 | 782 | Total |
| 8477 | 4556 | 0 | 4549 | 7 | 6 | 0 | 3 | 3 | 3915 | 0 | 4 | 3911 | Grand Total |
| | | 0 | 99.8 | 0.2 | | 0 | 50 | 50 | I | 0 | 0.1 | 99.9 | Apprch % |
| | 53.7 | 0 | 53.7 | 0.1 | 0.1 | 0 | 0 | 0 | 46.2 | 0 | 0 | 46.1 | Total % |
| | | | | | | | | | | | | | |

| | s | US 301 outhbound | | | Caroline St Westbound | | N | US 301 orthbound | | |
|-----------------------------------|----------------------|---------------------|------------|-------|--------------------------|------------|-------|---------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak 1 | of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | Begins at 03:00 Pl | M | | | | | | | | |
| 03:00 PM | 334 | 1 | 335 | 1 | 0 | 1 | 1 | 354 | 355 | 691 |
| 03:15 PM | 251 | 0 | 251 | 0 | 1 | 1 | 1 | 376 | 377 | 629 |
| 03:30 PM | 269 | 0 | 269 | 0 | 0 | 0 | 0 | 399 | 399 | 668 |
| 03:45 PM | 253 | 0 | 253 | 0 | 0 | 0 | 0 | 324 | 324 | 577 |
| Total Volume | 1107 | 1 | 1108 | 1 | 1 | 2 | 2 | 1453 | 1455 | 2565 |
| % App. Total | 99.9 | 0.1 | | 50 | 50 | | 0.1 | 99.9 | | |
| PHF | .829 | .250 | .827 | .250 | .250 | .500 | .500 | .910 | .912 | .928 |

File Name: 3-US 301 and Caroline St SUN

Site Code:

Start Date : 11/25/2018

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Groups Printed- Truck

| | | | | | Group | s Printed | - I ruck | | | | | | |
|-------------|------|--------|------|------------|-------|-----------|----------|------------|-------|--------|------|------------|------------|
| | | US 3 | 01 | | | Carolir | ne St | | | US 3 | 01 | | |
| | | Southb | | | | Westbo | ound | | | Northb | ound | | |
| Start Time | Thru | Left | Peds | App. Total | Right | Left | Peds | App. Total | Right | Thru | Peds | App. Total | Int. Total |
| 03:00 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 13 |
| 03:15 PM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 15 |
| 03:30 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 9 |
| 03:45 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 19 |
| Total | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 29 | 56 |
| 04:00 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 10 |
| 04:15 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 11 |
| 04:30 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 7 |
| 04:45 PM | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 17 |
| Total | 20 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 25 | 45 |
| 05:00 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 11 |
| 05:15 PM | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 18 |
| 05:30 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 11 |
| 05:45 PM | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 11 |
| Total | 25 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 26 | 51 |
| 06:00 PM | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 15 |
| 06:15 PM | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 12 |
| 06:30 PM | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 13 |
| 06:45 PM | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 13 |
| Total | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 37 | 53 |
| Grand Total | 88 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 117 | 0 | 117 | 205 |
| Apprch % | 100 | 0 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | |
| Total % | 42.9 | 0 | 0 | 42.9 | 0 | 0 | 0 | 0 | 0 | 57.1 | 0 | 57.1 | |

| | , | US 301 Southbound | | | Caroline S Westbound | - | | US 301 Northbound | t | |
|-----------------------------------|---------------------|----------------------|------------|-------|-------------------------|------------|-------|----------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak | 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | n Begins at 04:45 l | PM | | | | | | | | |
| 04:45 PM | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 8 | 8 | 17 |
| 05:00 PM | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 6 | 6 | 11 |
| 05:15 PM | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 8 | 8 | 18 |
| 05:30 PM | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 8 | 8 | 11 |
| Total Volume | 27 | 0 | 27 | 0 | 0 | 0 | 0 | 30 | 30 | 57 |
| % App. Total | 100 | 0 | | 0 | 0 | | 0 | 100 | | |
| PHF | .675 | .000 | .675 | .000 | .000 | .000 | .000 | .938 | .938 | .792 |

File Name: 3-US 301 and Caroline St SUN

Site Code:

Start Date : 11/25/2018

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Groups Printed-Combined

| | | | | | | | riiilea- C | Groups | | | | | |
|------------|------------|------|---------|-------|------------|-------|------------|--------|------------|------|---------|------|-------------|
| | | 01 | US 3 | | | ne St | Carolir | | | 01 | US 3 | | |
| | | ound | Northbo | | | ound | Westbo | | | ound | Southbo | | |
| Int. Total | App. Total | Peds | Thru | Right | App. Total | Peds | Left | Right | App. Total | Peds | Left | Thru | Start Time |
| 704 | 359 | 0 | 358 | 1 | 1 | 0 | 0 | 1 | 344 | 0 | 1 | 343 | 03:00 PM |
| 644 | 386 | 0 | 385 | 1 | 1 | 0 | 1 | 0 | 257 | 0 | 0 | 257 | 03:15 PM |
| 677 | 405 | 0 | 405 | 0 | 0 | 0 | 0 | 0 | 272 | 0 | 0 | 272 | 03:30 PM |
| 596 | 334 | 0 | 334 | 0 | 0 | 0 | 0 | 0 | 262 | 0 | 0 | 262 | 03:45 PM |
| 2621 | 1484 | 0 | 1482 | 2 | 2 | 0 | 1 | 1 | 1135 | 0 | 1 | 1134 | Total |
| 580 | 295 | 0 | 295 | 0 | 0 | 0 | 0 | 0 | 285 | 0 | 1 | 284 | 04:00 PM |
| 640 | 333 | 0 | 333 | 0 | 0 | 0 | 0 | 0 | 307 | 0 | 0 | 307 | 04:15 PM |
| 620 | 342 | 0 | 342 | 0 | 1 | 0 | 1 | 0 | 277 | 0 | 0 | 277 | 04:30 PM |
| 532 | 300 | 0 | 299 | 1 | 1 | 0 | 0 | 1 | 231 | 0 | 0 | 231 | 04:45 PM |
| 2372 | 1270 | 0 | 1269 | 1 | 2 | 0 | 1 | 1 | 1100 | 0 | 1 | 1099 | Total |
| 558 | 316 | 0 | 316 | 0 | 1 | 0 | 1 | 0 | 241 | 0 | 0 | 241 | 05:00 PM |
| 544 | 287 | 0 | 286 | 1 | 1 | 0 | 0 | 1 | 256 | 0 | 1 | 255 | 05:15 PM |
| 478 | 257 | 0 | 257 | 0 | 0 | 0 | 0 | 0 | 221 | 0 | 0 | 221 | 05:30 PM |
| 484 | 233 | 0 | 233 | 0 | 0 | 0 | 0 | 0 | 251 | 0 | 0 | 251 | 05:45 PM |
| 2064 | 1093 | 0 | 1092 | 1 | 2 | 0 | 1 | 1 | 969 | 0 | 1 | 968 | Total |
| 422 | 189 | 0 | 187 | 2 | 0 | 0 | 0 | 0 | 233 | 0 | 1 | 232 | 06:00 PM |
| 454 | 257 | 0 | 257 | 0 | 0 | 0 | 0 | 0 | 197 | 0 | 0 | 197 | 06:15 PM |
| 358 | 169 | 0 | 168 | 1 | 0 | 0 | 0 | 0 | 189 | 0 | 0 | 189 | 06:30 PM |
| 391 | 211 | 0 | 211 | 0 | 0 | 0 | 0 | 0 | 180 | 0 | 0 | 180 | 06:45 PM |
| 1625 | 826 | 0 | 823 | 3 | 0 | 0 | 0 | 0 | 799 | 0 | 1 | 798 | Total |
| 8682 | 4673 | 0 | 4666 | 7 | 6 | 0 | 3 | 3 | 4003 | 0 | 4 | 3999 | Grand Total |
| | | 0 | 99.9 | 0.1 | | 0 | 50 | 50 | | 0 | 0.1 | 99.9 | Apprch % |
| | 53.8 | 0 | 53.7 | 0.1 | 0.1 | 0 | 0 | 0 | 46.1 | 0 | 0 | 46.1 | Total % |
| | | | | | | | | | | | | | |

| | S | US 301 Southbound | | | Caroline St Westbound | | r | US 301 Northbound | | |
|-----------------------------------|---------------------|----------------------|------------|-------|--------------------------|------------|-------|----------------------|------------|------------|
| Start Time | Thru | Left | App. Total | Right | Left | App. Total | Right | Thru | App. Total | Int. Total |
| Peak Hour Analysis From 03:00 PM | to 06:45 PM - Peak | 1 of 1 | | | | | | | | |
| Peak Hour for Entire Intersection | n Begins at 03:00 P | 'M | | | | | | | | |
| 03:00 PM | 343 | 1 | 344 | 1 | 0 | 1 | 1 | 358 | 359 | 704 |
| 03:15 PM | 257 | 0 | 257 | 0 | 1 | 1 | 1 | 385 | 386 | 644 |
| 03:30 PM | 272 | 0 | 272 | 0 | 0 | 0 | 0 | 405 | 405 | 677 |
| 03:45 PM | 262 | 0 | 262 | 0 | 0 | 0 | 0 | 334 | 334 | 596 |
| Total Volume | 1134 | 1 | 1135 | 1 | 1 | 2 | 2 | 1482 | 1484 | 2621 |
| % App. Total | 99.9 | 0.1 | | 50 | 50 | | 0.1 | 99.9 | | |
| PHF | .827 | .250 | .825 | .250 | .250 | .500 | .500 | .915 | .916 | .931 |

File Name: 4-FRI-US 301 & Walsingham Rd FRI

Site Code:

Start Date : 11/2/2018

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Groups Printed- Car

| | | | US 30 | 1 | | | Wals | ingha | m Rd | • | | | US 30 | 1 | | | D | rivew | ay | | |
|----------------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | W | estbou | ınd | | | No | rthbo | und | | | Ea | istbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 0 | 213 | 0 | 0 | 213 | 1 | 0 | 1 | 0 | 2 | 0 | 135 | 0 | 0 | 135 | 0 | 0 | 0 | 0 | 0 | 350 |
| 03:15 PM | 0 | 210 | 0 | 0 | 210 | 1 | 0 | 1 | 0 | 2 | 0 | 152 | 0 | 0 | 152 | 0 | 0 | 0 | 0 | 0 | 364 |
| 03:30 PM | 0 | 243 | 1 | 0 | 244 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 386 |
| 03:45 PM | 0 | 218 | 0 | 0 | 218 | 1 | 0 | 0 | 0 | 1 | 1 | 130 | 0 | 0 | 131 | 0 | 0 | 0 | 0 | 0 | 350 |
| Total | 0 | 884 | 1 | 0 | 885 | 3 | 0 | 2 | 0 | 5 | 1 | 559 | 0 | 0 | 560 | 0 | 0 | 0 | 0 | 0 | 1450 |
| 04:00 PM | 0 | 223 | 0 | 0 | 223 | 1 | 0 | 0 | 0 | 1.1 | 0 | 145 | 1 | 0 | 146 | 0 | 0 | 0 | 0 | 0 | 370 |
| 04:00 FM 04:15 PM | 0 | 215 | 2 | 0 | 217 | 1 | 0 | 0 | 0 | 1 | 0 | 150 | 1 | 0 | 151 | 0 | 0 | 0 | 0 | 0 | 369 |
| 04:30 PM | 0 | 273 | 2 | 0 | 275 | 0 | 0 | 0 | 0 | 0 | 0 | 134 | 3 | 0 | 137 | 0 | 0 | 0 | 0 | 0 | 412 |
| 04:45 PM | 0 | 228 | 1 | 0 | 229 | 2 | 0 | 1 | 0 | 3 | 2 | 152 | 0 | 0 | 154 | 0 | 0 | 1 | 0 | 1 | 387 |
| Total | 0 | 939 | 5 | 0 | 944 | 4 | 0 | 1 | 0 | 5 | 2 | 581 | 5 | 0 | 588 | 0 | 0 | 1 | 0 | 1 | 1538 |
| Total | U | 232 | 3 | U | 744 | 4 | U | 1 | U | اد | 2 | 361 | 3 | U | 300 | U | U | 1 | U | 1 | 1336 |
| 05:00 PM | 0 | 238 | 2 | 0 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 390 |
| 05:15 PM | 0 | 223 | 1 | 0 | 224 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 0 | 0 | 133 | 0 | 0 | 0 | 0 | 0 | 357 |
| 05:30 PM | 0 | 231 | 0 | 0 | 231 | 0 | 0 | 0 | 0 | 0 | 1 | 136 | 0 | 0 | 137 | 0 | 0 | 0 | 0 | 0 | 368 |
| 05:45 PM | 0 | 194 | 0 | 0 | 194 | 1 | 0 | 0 | 0 | 1 | 0 | 114 | 1 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 310 |
| Total | 0 | 886 | 3 | 0 | 889 | 1 | 0 | 0 | 0 | 1 | 1 | 533 | 1 | 0 | 535 | 0 | 0 | 0 | 0 | 0 | 1425 |
| 06:00 PM | 0 | 165 | 0 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 0 | 0 | 110 | 0 | 0 | 0 | 0 | 0 | 275 |
| 06:15 PM | 0 | 118 | 0 | 0 | 118 | 1 | 0 | 0 | 0 | 1 | 0 | 108 | 1 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 228 |
| 06:30 PM | 0 | 148 | 1 | 0 | 149 | 1 | 0 | 1 | 0 | 2 | 1 | 90 | 0 | 0 | 91 | 0 | 0 | 0 | 0 | 0 | 242 |
| 06:45 PM | 0 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 97 | 0 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 197 |
| Total | 0 | 531 | 1 | 0 | 532 | 2 | 0 | 1 | 0 | 3 | 1 | 405 | 1 | 0 | 407 | 0 | 0 | 0 | 0 | 0 | 942 |
| Total | U | 331 | 1 | U | 332 | 2 | U | 1 | U | ا د | 1 | 403 | 1 | U | 407 | U | U | U | U | 0 | 742 |
| Grand Total | 0 | 3240 | 10 | 0 | 3250 | 10 | 0 | 4 | 0 | 14 | 5 | 2078 | 7 | 0 | 2090 | 0 | 0 | 1 | 0 | 1 | 5355 |
| Apprch % | 0 | 99.7 | 0.3 | 0 | | 71.4 | 0 | 28.6 | 0 | | 0.2 | 99.4 | 0.3 | 0 | | 0 | 0 | 100 | 0 | | |
| Total % | 0 | 60.5 | 0.2 | 0 | 60.7 | 0.2 | 0 | 0.1 | 0 | 0.3 | 0.1 | 38.8 | 0.1 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | |

| | | US: | | | ٧ | Valsing | | d | | US | | | | Drive | • | | |
|------------------------|--------------|-------------|------------|------------|-------|---------|------|------------|-------|--------|-------|------------|-------|-------|------|------------|------------|
| | | South | oound | | | Westb | ound | | | Northi | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fro | m 03:00 PM | to 06:45 PM | I - Peak 1 | of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire | Intersection | Begins at | 04:15 PN | Л | | | | | | | | | | | | | |
| 04:15 PM | 0 | 215 | 2 | 217 | 1 | 0 | 0 | 1 | 0 | 150 | 1 | 151 | 0 | 0 | 0 | 0 | 369 |
| 04:30 PM | 0 | 273 | 2 | 275 | 0 | 0 | 0 | 0 | 0 | 134 | 3 | 137 | 0 | 0 | 0 | 0 | 412 |
| 04:45 PM | 0 | 228 | 1 | 229 | 2 | 0 | 1 | 3 | 2 | 152 | 0 | 154 | 0 | 0 | 1 | 1 | 387 |
| 05:00 PM | 0 | 238 | 2 | 240 | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 150 | 0 | 0 | 0 | 0 | 390 |
| Total Volume | 0 | 954 | 7 | 961 | 3 | 0 | 1 | 4 | 2 | 586 | 4 | 592 | 0 | 0 | 1 | 1 | 1558 |
| % App. Total | 0 | 99.3 | 0.7 | | 75 | 0 | 25 | | 0.3 | 99 | 0.7 | | 0 | 0 | 100 | | |
| PHF | .000 | .874 | .875 | .874 | .375 | .000 | .250 | .333 | .250 | .964 | .333 | .961 | .000 | .000 | .250 | .250 | .945 |

File Name: 4-FRI-US 301 & Walsingham Rd FRI

Site Code:

Start Date : 11/2/2018

Page No : 1
Groups Printed- Truck

| | | | US 30 | 1 | | | Wals | ingha | m Rd | | | | US 30 | 1 | | | D | rivewa | ay | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | | estbou | | | | No | rthbou | und | | | | stbou | | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 24 |
| 03:15 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 23 |
| 03:30 PM | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 31 |
| 03:45 PM | 0 | 10 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 25 |
| Total | 0 | 51 | 1 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 103 |
| 04:00 PM | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 1 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 19 |
| 04:15 PM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 25 |
| 04:30 PM | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 21 |
| 04:45 PM | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 19 |
| Total | 0 | 46 | 0 | 0 | 46 | 0 | 0 | 1 | 0 | 1 | 0 | 37 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 84 |
| 05:00 PM | 0 | 11 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 17 |
| 05:15 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 18 |
| 05:30 PM | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 27 |
| 05:45 PM | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 15 |
| Total | 0 | 47 | 1 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 77 |
| 06:00 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 11 |
| 06:15 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 18 |
| 06:30 PM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 9 |
| 06:45 PM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 0 | 32 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 46 |
| Grand Total | 0 | 176 | 2 | 0 | 178 | 0 | 0 | 1 | 0 | 1 | 0 | 131 | 0 | 0 | 131 | 0 | 0 | 0 | 0 | 0 | 310 |
| Apprch % | 0 | 98.9 | 1.1 | 0 | | 0 | 0 | 100 | 0 | | 0 | 100 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 56.8 | 0.6 | 0 | 57.4 | 0 | 0 | 0.3 | 0 | 0.3 | 0 | 42.3 | 0 | 0 | 42.3 | 0 | 0 | 0 | 0 | 0 | |

| | | US: | 301 | | ٧ | Valsing | ham R | d | | US | 301 | | | Drive | way | | |
|------------------------|--------------|-------------|--------------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | oound | | | Westb | ound | | | North | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fro | m 03:00 PM | to 06:45 PM | I - Peak 1 o | f 1 | • | • | • | • | • | • | • | | | • | • | | |
| Peak Hour for Entire | Intersection | Begins at | 03:00 PM | | | | | | | | | | | | | | |
| 03:00 PM | 0 | 17 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 24 |
| 03:15 PM | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 23 |
| 03:30 PM | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 31 |
| 03:45 PM | 0 | 10 | 1 | 11 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 25 |
| Total Volume | 0 | 51 | 1 | 52 | 0 | 0 | 0 | 0 | 0 | 51 | 0 | 51 | 0 | 0 | 0 | 0 | 103 |
| % App. Total | 0 | 98.1 | 1.9 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| DUE | 000 | 750 | 250 | 765 | 000 | 000 | 000 | 000 | 000 | 707 | 000 | 707 | 000 | 000 | 000 | 000 | 921 |

File Name: 4-FRI-US 301 & Walsingham Rd FRI

Site Code:

Start Date : 11/2/2018

Page No : 1
Groups Printed- Combined

| | | | US 30 | 1 | | | Wals | singha | m Rd | | | | US 30 | 1 | | | D | rivew | ay | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | W | estbou | und | | | No | rthbo | und | | | Ea | astbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 0 | 230 | 0 | 0 | 230 | 1 | 0 | 1 | 0 | 2 | 0 | 142 | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 374 |
| 03:15 PM | 0 | 219 | 0 | 0 | 219 | 1 | 0 | 1 | 0 | 2 | 0 | 166 | 0 | 0 | 166 | 0 | 0 | 0 | 0 | 0 | 387 |
| 03:30 PM | 0 | 258 | 1 | 0 | 259 | 0 | 0 | 0 | 0 | 0 | 0 | 158 | 0 | 0 | 158 | 0 | 0 | 0 | 0 | 0 | 417 |
| 03:45 PM | 0 | 228 | 1 | 0 | 229 | 1 | 0 | 0 | 0 | 1 | 1 | 144 | 0 | 0 | 145 | 0 | 0 | 0 | 0 | 0 | 375 |
| Total | 0 | 935 | 2 | 0 | 937 | 3 | 0 | 2 | 0 | 5 | 1 | 610 | 0 | 0 | 611 | 0 | 0 | 0 | 0 | 0 | 1553 |
| 04:00 PM | 0 | 234 | 0 | 0 | 234 | 1 | 0 | 1 | 0 | 2 | 0 | 152 | 1 | 0 | 153 | 0 | 0 | 0 | 0 | 0 | 389 |
| 04:15 PM | 0 | 227 | 2 | 0 | 229 | 1 | 0 | 0 | 0 | 1 | 0 | 163 | 1 | 0 | 164 | 0 | 0 | 0 | 0 | 0 | 394 |
| 04:30 PM | 0 | 286 | 2 | 0 | 288 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 3 | 0 | 145 | 0 | 0 | 0 | 0 | 0 | 433 |
| 04:45 PM | 0 | 238 | 1 | 0 | 239 | 2 | 0 | 1 | 0 | 3 | 2 | 161 | 0 | 0 | 163 | 0 | 0 | 1 | 0 | 1 | 406 |
| Total | 0 | 985 | 5 | 0 | 990 | 4 | 0 | 2 | 0 | 6 | 2 | 618 | 5 | 0 | 625 | 0 | 0 | 1 | 0 | 1 | 1622 |
| Total | U | 703 | 3 | Ü |))0 | - | Ü | 2 | Ü | 0 | 2 | 010 | 3 | Ü | 023 | Ü | Ü | | Ü | 1 | 1022 |
| 05:00 PM | 0 | 249 | 3 | 0 | 252 | 0 | 0 | 0 | 0 | 0 | 0 | 155 | 0 | 0 | 155 | 0 | 0 | 0 | 0 | 0 | 407 |
| 05:15 PM | 0 | 232 | 1 | 0 | 233 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 375 |
| 05:30 PM | 0 | 247 | 0 | 0 | 247 | 0 | 0 | 0 | 0 | 0 | 1 | 147 | 0 | 0 | 148 | 0 | 0 | 0 | 0 | 0 | 395 |
| 05:45 PM | 0 | 205 | 0 | 0 | 205 | 1 | 0 | 0 | 0 | 1 | 0 | 118 | 1 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 325 |
| Total | 0 | 933 | 4 | 0 | 937 | 1 | 0 | 0 | 0 | 1 | 1 | 562 | 1 | 0 | 564 | 0 | 0 | 0 | 0 | 0 | 1502 |
| 06:00 PM | 0 | 174 | 0 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 286 |
| 06:15 PM | 0 | 127 | 0 | 0 | 127 | 1 | 0 | 0 | 0 | 1 | 0 | 117 | 1 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 246 |
| 06:30 PM | 0 | 155 | 1 | 0 | 156 | 1 | 0 | 1 | 0 | 2 | 1 | 92 | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 251 |
| 06:45 PM | 0 | 107 | 0 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 205 |
| Total | 0 | 563 | 1 | 0 | 564 | 2 | 0 | 1 | 0 | 3 | 1 | 419 | 1 | 0 | 421 | 0 | 0 | 0 | 0 | 0 | 988 |
| | | | | | 1 | | | | | - 1 | | | | | - ! | | | | | 7 | |
| Grand Total | 0 | 3416 | 12 | 0 | 3428 | 10 | 0 | 5 | 0 | 15 | 5 | 2209 | 7 | 0 | 2221 | 0 | 0 | 1 | 0 | 1 | 5665 |
| Apprch % | 0 | 99.6 | 0.4 | 0 | | 66.7 | 0 | 33.3 | 0 | | 0.2 | 99.5 | 0.3 | 0 | | 0 | 0 | 100 | 0 | | |
| Total % | 0 | 60.3 | 0.2 | 0 | 60.5 | 0.2 | 0 | 0.1 | 0 | 0.3 | 0.1 | 39 | 0.1 | 0 | 39.2 | 0 | 0 | 0 | 0 | 0 | |

| | | US: | 301 | | ٧ | Valsing | ham R | d | | US | 301 | | | Drive | way | | |
|-------------------------|--------------|-------------|------------|------------|-------|---------|-------|------------|-------|-------|------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westb | ound | | | North | ound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 03:00 PM | to 06:45 PM | 1 - Peak 1 | of 1 | | • | • | • | • | • | • | | | • | • | | |
| Peak Hour for Entire | Intersection | n Begins at | 04:15 PM | 1 | | | | | | | | | | | | | |
| 04:15 PM | 0 | 227 | 2 | 229 | 1 | 0 | 0 | 1 | 0 | 163 | 1 | 164 | 0 | 0 | 0 | 0 | 394 |
| 04:30 PM | 0 | 286 | 2 | 288 | 0 | 0 | 0 | 0 | 0 | 142 | 3 | 145 | 0 | 0 | 0 | 0 | 433 |
| 04:45 PM | 0 | 238 | 1 | 239 | 2 | 0 | 1 | 3 | 2 | 161 | 0 | 163 | 0 | 0 | 1 | 1 | 406 |
| 05:00 PM | 0 | 249 | 3 | 252 | 0 | 0 | 0 | 0 | 0 | 155 | 0 | 155 | 0 | 0 | 0 | 0 | 407 |
| Total Volume | 0 | 1000 | 8 | 1008 | 3 | 0 | 1 | 4 | 2 | 621 | 4 | 627 | 0 | 0 | 1 | 1 | 1640 |
| % App. Total | 0 | 99.2 | 0.8 | | 75 | 0 | 25 | | 0.3 | 99 | 0.6 | | 0 | 0 | 100 | | |
| PHE | 000 | 874 | 667 | 875 | 375 | 000 | 250 | 333 | 250 | 052 | 333 | 956 | 000 | 000 | 250 | 250 | 9/17 |

File Name: 4-US 301 & Walsingham Rd AM

Site Code:

Start Date : 11/1/2018

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Groups Printed- Car

| | | | | | | | | | | <u>upo 1 111</u> | | | | | | | | | | | |
|-------------|-------|----------|----------|------|--------------|-------|------|--------|------|------------------|-------|--------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | | US 30 | 1 | | | Wals | singha | m Rd | | | | US 30 | 1 | | | - 1 | Ent/Ex | it | | |
| | | So | uthbo | und | | | W | estbou | ınd | | | No | rthbo | und | | | Ea | astbou | ınd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:00 AM | 0 | 41 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 114 |
| 06:15 AM | 0 | 88 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 98 | 0 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 186 |
| 06:30 AM | 0 | 75 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 0 | 217 |
| 06:45 AM | 0 | 85 | 0 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 203 |
| Total | 0 | 289 | 0 | 0 | 289 | 0 | 0 | 0 | 0 | 0 | 0 | 431 | 0 | 0 | 431 | 0 | 0 | 0 | 0 | 0 | 720 |
| 07.00.13.5 | | =0 | | | = 0.1 | | | | | | | | | | 440 | | | | | | 1 400 |
| 07:00 AM | 0 | 78 | 0 | 0 | 78 | 1 | 0 | 0 | 0 | 1 | 1 | 112 | 0 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 192 |
| 07:15 AM | 0 | 89 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 2 | 114 | 0 | 0 | 116 | 0 | 0 | 0 | 0 | 0 | 205 |
| 07:30 AM | 0 | 75 | 0 | 0 | 75 | 0 | 0 | 1 | 0 | 1 | 1 | 128 | 0 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 205 |
| 07:45 AM | 0 | 75 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 199 |
| Total | 0 | 317 | 0 | 0 | 317 | 1 | 0 | 1 | 0 | 2 | 4 | 478 | 0 | 0 | 482 | 0 | 0 | 0 | 0 | 0 | 801 |
| 08:00 AM | 0 | 77 | 0 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 103 | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 | 180 |
| 08:15 AM | 0 | 90 | 0 | 0 | 90 | 1 | 0 | 1 | 0 | 2 | 0 | 103 | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 | 194 |
| 08:30 AM | 0 | 93 | 0 | 0 | | 1 | 0 | 1 | 0 | 0 | | | 1 | 0 | | 0 | 0 | | 0 | 0 | |
| | U | 93 81 | 0 | - | 93 | 0 | 0 | 0 | - | v | 0 | 101 | 1 | 0 | 102 92 | | 0 | 0 | 0 | 0 | 195 |
| 08:45 AM | 0 | | <u>1</u> | 0 | 82 | 1 | 0 | 1 | 0 | 2 | 0 | 90 | 2 | 0 | | 0 | | 0 | | 0 | 176 |
| Total | 0 | 341 | 1 | 0 | 342 | 2 | 0 | 2 | 0 | 4 | 0 | 396 | 3 | 0 | 399 | 0 | 0 | 0 | 0 | 0 | 745 |
| Grand Total | 0 | 947 | 1 | 0 | 948 | 3 | 0 | 3 | 0 | 6 | 4 | 1305 | 3 | 0 | 1312 | 0 | 0 | 0 | 0 | 0 | 2266 |
| Apprch % | 0 | 99.9 | 0.1 | 0 | ,.0 | 50 | 0 | 50 | 0 | Ü | 0.3 | 99.5 | 0.2 | 0 | | 0 | 0 | 0 | 0 | Ü | |
| Total % | 0 | 41.8 | 0.1 | 0 | 41.8 | 0.1 | 0 | 0.1 | 0 | 0.3 | 0.2 | 57.6 | 0.1 | 0 | 57.9 | 0 | 0 | 0 | 0 | 0 | |
| 10141 /0 | | | | | | J.1 | | J. 1 | | 0.0 | 0.2 | - / .0 | J.1 | | 27.5 | | | | | | I |

| | | US | | | V | Valsing | | d | | | 301 | | | - | Exit | | |
|------------------------|--------------|-------------|------------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westk | oound | | | North | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fro | m 06:00 AM | to 08:45 Al | M - Peak 1 | of 1 | | | | | | | | | | - | | | |
| Peak Hour for Entire | Intersection | n Begins at | 06:30 AM | 1 | | | | | | | | | | | | | |
| 06:30 AM | 0 | 75 | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 142 | 0 | 0 | 0 | 0 | 217 |
| 06:45 AM | 0 | 85 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 118 | 0 | 0 | 0 | 0 | 203 |
| 07:00 AM | 0 | 78 | 0 | 78 | 1 | 0 | 0 | 1 | 1 | 112 | 0 | 113 | 0 | 0 | 0 | 0 | 192 |
| 07:15 AM | 0 | 89 | 0 | 89 | 0 | 0 | 0 | 0 | 2 | 114 | 0 | 116 | 0 | 0 | 0 | 0 | 205 |
| Total Volume | 0 | 327 | 0 | 327 | 1 | 0 | 0 | 1 | 3 | 486 | 0 | 489 | 0 | 0 | 0 | 0 | 817 |
| % App. Total | 0 | 100 | 0 | I | 100 | 0 | 0 | | 0.6 | 99.4 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .919 | .000 | .919 | .250 | .000 | .000 | .250 | .375 | .856 | .000 | .861 | .000 | .000 | .000 | .000 | .941 |

File Name: 4-US 301 & Walsingham Rd AM

Site Code:

Start Date : 11/1/2018

Page No : 1

Groups Printed-Truck

| | | | | | | | | | | P3 1 11111 | <u> </u> | | | | | | | | | | |
|-------------|-------|------|--------------|------|------------|-------|------|--------|------|------------|----------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | | US 30 | 1 | | | Wals | singha | m Rd | | | | US 30 | 1 | | | I | Ent/Ex | it | | |
| | | So | uthbo | und | | | W | estbo | und | | | No | rthbo | und | | | Ea | astbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:00 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 11 |
| 06:15 AM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 22 |
| 06:30 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 24 |
| 06:45 AM | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 26 |
| Total | 0 | 31 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 83 |
| 07:00 AM | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 22 |
| 07:15 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 16 |
| 07:30 AM | 0 | 16 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 25 |
| 07:45 AM | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 26 |
| Total | 0 | 45 | 0 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 89 |
| 08:00 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 22 |
| 08:15 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 26 |
| 08:30 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 22 |
| 08:45 AM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 24 |
| Total | 0 | 28 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 66 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 94 |
| Grand Total | 0 | 104 | 0 | 0 | 104 | 0 | 0 | 0 | 0 | 0 | 0 | 162 | 0 | 0 | 162 | 0 | 0 | 0 | 0 | 0 | 266 |
| Apprch % | 0 | 100 | 0 | 0 | | 0 | 0 | 0 | 0 | | 0 | 100 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 39.1 | 0 | 0 | 39.1 | 0 | 0 | 0 | 0 | 0 | 0 | 60.9 | 0 | 0 | 60.9 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | |

| | | US | | | V | Valsing | | d | | US | | | | | Exit | | |
|-------------------------|--------------|-------------|----------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westk | oound | | | North | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | | | | | | - | | | | - | | | | | | | |
| Peak Hour for Entire | Intersection | n Begins at | 07:30 AN | M | | | | | | | | | | | | | |
| 07:30 AM | 0 | 16 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 25 |
| 07:45 AM | 0 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 26 |
| 08:00 AM | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 22 |
| 08:15 AM | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 19 | 0 | 0 | 0 | 0 | 26 |
| Total Volume | 0 | 41 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 58 | 0 | 58 | 0 | 0 | 0 | 0 | 99 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | İ | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .641 | .000 | .641 | .000 | .000 | .000 | .000 | .000 | .763 | .000 | .763 | .000 | .000 | .000 | .000 | .952 |

File Name: 4-US 301 & Walsingham Rd AM

Site Code:

Start Date : 11/1/2018

Page No : 1

Groups Printed-Combined

| | | | | | | | | | | FIIIILEC | | | | | | | | | | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | | US 30 | 1 | | | Wals | ingha | m Rd | | | | US 30 | 1 | | | I | Ent/Ex | it | | |
| | | So | uthbo | und | | | W | estbou | und | | | No | rthbo | und | | | Ea | stbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 06:00 AM | 0 | 48 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 77 | 0 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 125 |
| 06:15 AM | 0 | 97 | 0 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 0 | 0 | 111 | 0 | 0 | 0 | 0 | 0 | 208 |
| 06:30 AM | 0 | 82 | 0 | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 159 | 0 | 0 | 159 | 0 | 0 | 0 | 0 | 0 | 241 |
| 06:45 AM | 0 | 93 | 0 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 136 | 0 | 0 | 136 | 0 | 0 | 0 | 0 | 0 | 229 |
| Total | 0 | 320 | 0 | 0 | 320 | 0 | 0 | 0 | 0 | 0 | 0 | 483 | 0 | 0 | 483 | 0 | 0 | 0 | 0 | 0 | 803 |
| 07:00 AM | 0 | 89 | 0 | 0 | 89 | 1 | 0 | 0 | 0 | 1 | 1 | 123 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 214 |
| 07:15 AM | 0 | 96 | 0 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 2 | 123 | 0 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 221 |
| 07:30 AM | 0 | 91 | 0 | 0 | 91 | 0 | 0 | 1 | 0 | 1 | 1 | 137 | 0 | 0 | 138 | 0 | 0 | 0 | 0 | 0 | 230 |
| 07:45 AM | 0 | 86 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 139 | 0 | 0 | 139 | 0 | 0 | 0 | 0 | 0 | 225 |
| Total | 0 | 362 | 0 | 0 | 362 | 1 | 0 | 1 | 0 | 2 | 4 | 522 | 0 | 0 | 526 | 0 | 0 | 0 | 0 | 0 | 890 |
| 08:00 AM | 0 | 84 | 0 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 118 | 0 | 0 | 118 | 0 | 0 | 0 | 0 | 0 | 202 |
| 08:15 AM | 0 | 97 | 0 | 0 | 97 | 1 | 0 | 1 | 0 | 2 | 0 | 121 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 220 |
| 08:30 AM | 0 | 100 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 116 | 1 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 217 |
| 08:45 AM | 0 | 88 | 1 | 0 | 89 | 1 | 0 | 1 | 0 | 2 | 0 | 107 | 2 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 200 |
| Total | 0 | 369 | 1 | 0 | 370 | 2 | 0 | 2 | 0 | 4 | 0 | 462 | 3 | 0 | 465 | 0 | 0 | 0 | 0 | 0 | 839 |
| Grand Total | 0 | 1051 | 1 | 0 | 1052 | 3 | 0 | 3 | 0 | 6 | 4 | 1467 | 3 | 0 | 1474 | 0 | 0 | 0 | 0 | 0 | 2532 |
| Apprch % | 0 | 99.9 | 0.1 | 0 | | 50 | 0 | 50 | 0 | | 0.3 | 99.5 | 0.2 | 0 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 41.5 | 0 | 0 | 41.5 | 0.1 | 0 | 0.1 | 0 | 0.2 | 0.2 | 57.9 | 0.1 | 0 | 58.2 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | |

| | | US | 301 | | ٧ | Valsing | ham R | ld | | US | 301 | | | Ent/ | Exit | | |
|-------------------------|--------------|-------------|------------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westb | ound | | | North | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 06:00 AM | to 08:45 Al | M - Peak 1 | of 1 | | | | | | - | | | | - | | | |
| Peak Hour for Entire | Intersection | n Begins at | 06:30 AN | 1 | | | | | | | | | | | | | |
| 06:30 AM | 0 | 82 | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 159 | 0 | 159 | 0 | 0 | 0 | 0 | 241 |
| 06:45 AM | 0 | 93 | 0 | 93 | 0 | 0 | 0 | 0 | 0 | 136 | 0 | 136 | 0 | 0 | 0 | 0 | 229 |
| 07:00 AM | 0 | 89 | 0 | 89 | 1 | 0 | 0 | 1 | 1 | 123 | 0 | 124 | 0 | 0 | 0 | 0 | 214 |
| 07:15 AM | 0 | 96 | 0 | 96 | 0 | 0 | 0 | 0 | 2 | 123 | 0 | 125 | 0 | 0 | 0 | 0 | 221 |
| Total Volume | 0 | 360 | 0 | 360 | 1 | 0 | 0 | 1 | 3 | 541 | 0 | 544 | 0 | 0 | 0 | 0 | 905 |
| % App. Total | 0 | 100 | 0 | | 100 | 0 | 0 | | 0.6 | 99.4 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .938 | .000 | .938 | .250 | .000 | .000 | .250 | .375 | .851 | .000 | .855 | .000 | .000 | .000 | .000 | .939 |

File Name: 4-US 301 & Walsingham Rd PM

Site Code:

Start Date : 11/1/2018

Page No : 1

Groups Printed- Car

| | | | | | | | | | <u> </u> | ups i iii | iteu e | | | | | | | | | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|----------|------------|--------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | | US 30 | 1 | | | Wals | singha | m Rd | | | | US 30 | 1 | | | | Ent/Ex | it | | |
| | | So | uthbo | und | | | W | estbou | ınd | | | No | rthbo | und | | | Ea | istbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:00 PM | 0 | 165 | 0 | 0 | 165 | 0 | 0 | 0 | 0 | 0 | 1 | 101 | 0 | 0 | 102 | 0 | 0 | 0 | 0 | 0 | 267 |
| 04:15 PM | 0 | 171 | 1 | 0 | 172 | 1 | 0 | 0 | 0 | 1 | 0 | 97 | 0 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 270 |
| 04:30 PM | 0 | 210 | 0 | 0 | 210 | 1 | 0 | 0 | 0 | 1 | 0 | 127 | 1 | 0 | 128 | 0 | 0 | 0 | 0 | 0 | 339 |
| 04:45 PM | 0 | 202 | 1 | 0 | 203 | 0 | 0 | 1 | 0 | 1 | 1 | 94 | 3 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 302 |
| Total | 0 | 748 | 2 | 0 | 750 | 2 | 0 | 1 | 0 | 3 | 2 | 419 | 4 | 0 | 425 | 0 | 0 | 0 | 0 | 0 | 1178 |
| 05:00 PM | 0 | 202 | 1 | 0 | 203 | 0 | 0 | 0 | 0 | 0 | 0 | 121 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 324 |
| 05:15 PM | 0 | 178 | 0 | 0 | 178 | 2 | 0 | 0 | 0 | 2 | 0 | 116 | 0 | 0 | 116 | 0 | 0 | 0 | 0 | 0 | 296 |
| 05:30 PM | 0 | 181 | 1 | 0 | 182 | 0 | 0 | 0 | 0 | 0 | 2 | 113 | 0 | 0 | 115 | 0 | 0 | 0 | 0 | 0 | 297 |
| 05:45 PM | 0 | 195 | 0 | 0 | 195 | 0 | 0 | 0 | 0 | 0 | 1 | 102 | 0 | 0 | 103 | 0 | 0 | 0 | 0 | 0 | 298 |
| Total | 0 | 756 | 2 | 0 | 758 | 2 | 0 | 0 | 0 | 2 | 3 | 452 | 0 | 0 | 455 | 0 | 0 | 0 | 0 | 0 | 1215 |
| 06:00 PM | 0 | 171 | 0 | 0 | 171 | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 272 |
| 06:15 PM | 0 | 121 | 1 | 0 | 122 | 1 | 0 | 0 | 0 | 1 | 0 | 77 | 0 | 0 | 77 | 0 | 0 | 0 | 0 | 0 | 200 |
| 06:30 PM | 0 | 114 | 0 | 0 | 114 | 2 | 0 | 0 | 0 | 2 | 0 | 80 | 0 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 196 |
| 06:45 PM | 0 | 100 | 2 | 0 | 102 | 1 | 0 | 0 | 0 | 1 | 0 | 58 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 161 |
| Total | 0 | 506 | 3 | 0 | 509 | 4 | 0 | 0 | 0 | 4 | 0 | 316 | 0 | 0 | 316 | 0 | 0 | 0 | 0 | 0 | 829 |
| Grand Total | 0 | 2010 | 7 | 0 | 2017 | 8 | 0 | 1 | 0 | 9 | 5 | 1187 | 4 | 0 | 1196 | 0 | 0 | 0 | 0 | 0 | 3222 |
| Apprch % | 0 | 99.7 | 0.3 | 0 | | 88.9 | 0 | 11.1 | 0 | | 0.4 | 99.2 | 0.3 | 0 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 62.4 | 0.2 | 0 | 62.6 | 0.2 | 0 | 0 | 0 | 0.3 | 0.2 | 36.8 | 0.1 | 0 | 37.1 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | |

| | | US | 301 | | ٧ | Valsing | ham R | d | | US | 301 | | | Ent/ | Exit | | |
|-------------------------|--------------|-------------|--------------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | oound | | | Westb | ound | | | North | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 04:00 PM | to 06:45 PM | I - Peak 1 o | f 1 | | | | | | - | - | | | | - | | |
| Peak Hour for Entire | Intersection | n Begins at | 04:30 PM | | | | | | | | | | | | | | |
| 04:30 PM | 0 | 210 | 0 | 210 | 1 | 0 | 0 | 1 | 0 | 127 | 1 | 128 | 0 | 0 | 0 | 0 | 339 |
| 04:45 PM | 0 | 202 | 1 | 203 | 0 | 0 | 1 | 1 | 1 | 94 | 3 | 98 | 0 | 0 | 0 | 0 | 302 |
| 05:00 PM | 0 | 202 | 1 | 203 | 0 | 0 | 0 | 0 | 0 | 121 | 0 | 121 | 0 | 0 | 0 | 0 | 324 |
| 05:15 PM | 0 | 178 | 0 | 178 | 2 | 0 | 0 | 2 | 0 | 116 | 0 | 116 | 0 | 0 | 0 | 0 | 296 |
| Total Volume | 0 | 792 | 2 | 794 | 3 | 0 | 1 | 4 | 1 | 458 | 4 | 463 | 0 | 0 | 0 | 0 | 1261 |
| % App. Total | 0 | 99.7 | 0.3 | İ | 75 | 0 | 25 | | 0.2 | 98.9 | 0.9 | | 0 | 0 | 0 | | |
| PHF | .000 | .943 | .500 | .945 | .375 | .000 | .250 | .500 | .250 | .902 | .333 | .904 | .000 | .000 | .000 | .000 | .930 |

File Name: 4-US 301 & Walsingham Rd PM

Site Code:

Start Date : 11/1/2018

Page No : 1

Groups Printed-Truck

| | | | | | | | | | | PO 1 11110 | | | | | | | | | | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | | US 30 | 1 | | | Wals | singha | m Rd | | | | US 30 | 1 | | | I | Ent/Ex | it | | |
| | | So | uthbo | und | | | W | estbou | ınd | | | No | rthbo | und | | | Ea | stbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:00 PM | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 29 |
| 04:15 PM | 0 | 15 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 37 |
| 04:30 PM | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 35 |
| 04:45 PM | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 30 |
| Total | 0 | 62 | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 0 | 69 | 0 | 0 | 0 | 0 | 0 | 131 |
| , | | | | | | | | | | | | | | | | | | | | | |
| 05:00 PM | 0 | 16 | 1 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 28 |
| 05:15 PM | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 20 |
| 05:30 PM | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 24 |
| 05:45 PM | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 28 |
| Total | 0 | 56 | 1 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 100 |
| | | | | | | | | | | | | | | | | | | | | | |
| 06:00 PM | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 14 |
| 06:15 PM | 0 | 11 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 21 |
| 06:30 PM | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 23 |
| 06:45 PM | 0 | 10 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 0 | 47 | 2 | 0 | 49 | 0 | 0 | 0 | 0 | 0 | 1 | 24 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 74 |
| | | | | | | | | | | | | | | | | | | | | | |
| Grand Total | 0 | 165 | 3 | 0 | 168 | 0 | 0 | 0 | 0 | 0 | 1 | 136 | 0 | 0 | 137 | 0 | 0 | 0 | 0 | 0 | 305 |
| Apprch % | 0 | 98.2 | 1.8 | 0 | | 0 | 0 | 0 | 0 | | 0.7 | 99.3 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 54.1 | 1 | 0 | 55.1 | 0 | 0 | 0 | 0 | 0 | 0.3 | 44.6 | 0 | 0 | 44.9 | 0 | 0 | 0 | 0 | 0 | |

| | | US: | 301 | | ٧ | Valsing | ham R | d | | US | 301 | | | Ent/ | Exit | | |
|-------------------------|--------------|-------------|--------------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westb | ound | | | North | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 04:00 PM | to 06:45 PM | 1 - Peak 1 o | of 1 | | | | | | - | - | | | - | | | |
| Peak Hour for Entire | Intersection | n Begins at | 04:00 PM | [| | | | | | | | | | | | | |
| 04:00 PM | 0 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 29 |
| 04:15 PM | 0 | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 22 | 0 | 0 | 0 | 0 | 37 |
| 04:30 PM | 0 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 21 | 0 | 0 | 0 | 0 | 35 |
| 04:45 PM | 0 | 19 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 | 0 | 0 | 0 | 0 | 30 |
| Total Volume | 0 | 62 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 69 | 0 | 69 | 0 | 0 | 0 | 0 | 131 |
| % App. Total | 0 | 100 | 0 | İ | 0 | 0 | 0 | İ | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHF | .000 | .816 | .000 | .816 | .000 | .000 | .000 | .000 | .000 | .784 | .000 | .784 | .000 | .000 | .000 | .000 | .885 |

File Name: 4-US 301 & Walsingham Rd PM

Site Code:

Start Date : 11/1/2018

Page No : 1

Groups Printed-Combined

| | | | | | | | | | | i i i i i i i i i i c | 0011 | | | | | | | | | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|-----------------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | | US 30 | 1 | | | Wals | singha | m Rd | | | | US 30 | 1 | | | - 1 | Ent/Ex | it | | |
| | | So | uthbo | und | | | W | estbou | ınd | | | No | rthbo | und | | | Ea | stbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 04:00 PM | 0 | 179 | 0 | 0 | 179 | 0 | 0 | 0 | 0 | 0 | 1 | 116 | 0 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 296 |
| 04:15 PM | 0 | 186 | 1 | 0 | 187 | 1 | 0 | 0 | 0 | 1 | 0 | 119 | 0 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 307 |
| 04:30 PM | 0 | 224 | 0 | 0 | 224 | 1 | 0 | 0 | 0 | 1 | 0 | 148 | 1 | 0 | 149 | 0 | 0 | 0 | 0 | 0 | 374 |
| 04:45 PM | 0 | 221 | 1 | 0 | 222 | 0 | 0 | 1 | 0 | 1 | 1 | 105 | 3 | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 332 |
| Total | 0 | 810 | 2 | 0 | 812 | 2 | 0 | 1 | 0 | 3 | 2 | 488 | 4 | 0 | 494 | 0 | 0 | 0 | 0 | 0 | 1309 |
| 05:00 PM | 0 | 218 | 2 | 0 | 220 | 0 | 0 | 0 | 0 | 0 | 0 | 132 | 0 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 352 |
| 05:15 PM | 0 | 190 | 0 | 0 | 190 | 2 | 0 | 0 | 0 | 2 | 0 | 124 | 0 | 0 | 124 | 0 | 0 | 0 | 0 | 0 | 316 |
| 05:30 PM | 0 | 191 | 1 | 0 | 192 | 0 | 0 | 0 | 0 | 0 | 2 | 127 | 0 | 0 | 129 | 0 | 0 | 0 | 0 | 0 | 321 |
| 05:45 PM | 0 | 213 | 0 | 0 | 213 | 0 | 0 | 0 | 0 | 0 | 1 | 112 | 0 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 326 |
| Total | 0 | 812 | 3 | 0 | 815 | 2 | 0 | 0 | 0 | 2 | 3 | 495 | 0 | 0 | 498 | 0 | 0 | 0 | 0 | 0 | 1315 |
| 06:00 PM | 0 | 179 | 0 | 0 | 179 | 0 | 0 | 0 | 0 | 0 | 0 | 107 | 0 | 0 | 107 | 0 | 0 | 0 | 0 | 0 | 286 |
| 06:15 PM | 0 | 132 | 2 | 0 | 134 | 1 | 0 | 0 | 0 | 1 | 0 | 86 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 221 |
| 06:30 PM | 0 | 132 | 0 | 0 | 132 | 2 | 0 | 0 | 0 | 2 | 1 | 84 | 0 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 219 |
| 06:45 PM | 0 | 110 | 3 | 0 | 113 | 1 | 0 | 0 | 0 | 1 | 0 | 63 | 0 | 0 | 63 | 0 | 0 | 0 | 0 | 0 | 177 |
| Total | 0 | 553 | 5 | 0 | 558 | 4 | 0 | 0 | 0 | 4 | 1 | 340 | 0 | 0 | 341 | 0 | 0 | 0 | 0 | 0 | 903 |
| Grand Total | 0 | 2175 | 10 | 0 | 2185 | 8 | 0 | 1 | 0 | 9 | 6 | 1323 | 4 | 0 | 1333 | 0 | 0 | 0 | 0 | 0 | 3527 |
| Apprch % | 0 | 99.5 | 0.5 | 0 | | 88.9 | 0 | 11.1 | 0 | | 0.5 | 99.2 | 0.3 | 0 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 61.7 | 0.3 | 0 | 62 | 0.2 | 0 | 0 | 0 | 0.3 | 0.2 | 37.5 | 0.1 | 0 | 37.8 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | | | | | | |

| | | US | 301 | | ٧ | Valsing | ham R | d | | US | 301 | | | Ent/ | Exit | | |
|-------------------------|--------------|-------------|--------------|------------|-------|---------|-------|------------|-------|--------|-------|------------|-------|-------|------|------------|------------|
| | | South | bound | | | Westb | ound | | | Northi | bound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 04:00 PM | to 06:45 PM | 1 - Peak 1 o | of 1 | | | | _ | | | - | | | | | | |
| Peak Hour for Entire | Intersection | n Begins at | 04:30 PM | [| | | | | | | | | | | | | |
| 04:30 PM | 0 | 224 | 0 | 224 | 1 | 0 | 0 | 1 | 0 | 148 | 1 | 149 | 0 | 0 | 0 | 0 | 374 |
| 04:45 PM | 0 | 221 | 1 | 222 | 0 | 0 | 1 | 1 | 1 | 105 | 3 | 109 | 0 | 0 | 0 | 0 | 332 |
| 05:00 PM | 0 | 218 | 2 | 220 | 0 | 0 | 0 | 0 | 0 | 132 | 0 | 132 | 0 | 0 | 0 | 0 | 352 |
| 05:15 PM | 0 | 190 | 0 | 190 | 2 | 0 | 0 | 2 | 0 | 124 | 0 | 124 | 0 | 0 | 0 | 0 | 316 |
| Total Volume | 0 | 853 | 3 | 856 | 3 | 0 | 1 | 4 | 1 | 509 | 4 | 514 | 0 | 0 | 0 | 0 | 1374 |
| % App. Total | 0 | 99.6 | 0.4 | İ | 75 | 0 | 25 | İ | 0.2 | 99 | 0.8 | | 0 | 0 | 0 | | |
| PHF | .000 | .952 | .375 | .955 | .375 | .000 | .250 | .500 | .250 | .860 | .333 | .862 | .000 | .000 | .000 | .000 | .918 |

File Name $\,:$ 4-US 301 and Walsingham Rd SUN

Site Code:

Start Date : 11/25/2018

Page No : 1

Groups Printed- Car

| | | | US 30 | 1 | | | Wals | ingha | m Rd | | | | US 30 | 1 | | | Ent | rance/ | Exit | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | ınd | | | No | rthbou | und | | | Ea | ıstbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 0 | 318 | 0 | 0 | 318 | 0 | 0 | 2 | 0 | 2 | 0 | 354 | 0 | 0 | 354 | 0 | 0 | 0 | 0 | 0 | 674 |
| 03:15 PM | 0 | 253 | 1 | 0 | 254 | 1 | 0 | 0 | 0 | 1 | 0 | 382 | 0 | 0 | 382 | 0 | 0 | 0 | 0 | 0 | 637 |
| 03:30 PM | 0 | 253 | 0 | 0 | 253 | 0 | 0 | 1 | 0 | 1 | 0 | 381 | 0 | 0 | 381 | 0 | 0 | 0 | 0 | 0 | 635 |
| 03:45 PM | 0 | 256 | 0 | 0 | 256 | 0 | 0 | 0 | 0 | 0 | 0 | 334 | 1 | 0 | 335 | 0 | 0 | 0 | 0 | 0 | 591 |
| Total | 0 | 1080 | 1 | 0 | 1081 | 1 | 0 | 3 | 0 | 4 | 0 | 1451 | 1 | 0 | 1452 | 0 | 0 | 0 | 0 | 0 | 2537 |
| 04:00 PM | 0 | 274 | 0 | 0 | 274 | 0 | 0 | 0 | 0 | 0 | 0 | 289 | 0 | 0 | 289 | 0 | 0 | 0 | 0 | 0 | 563 |
| 04:15 PM | 0 | 316 | 0 | 0 | 316 | 0 | 0 | 0 | 0 | 0 | 0 | 333 | 0 | 0 | 333 | 0 | 0 | 0 | 0 | 0 | 649 |
| 04:30 PM | 0 | 280 | 0 | 0 | 280 | 0 | 0 | 0 | 0 | 0 | 0 | 356 | 0 | 0 | 356 | 0 | 0 | 0 | 0 | 0 | 636 |
| 04:45 PM | 0 | 223 | 0 | 0 | 223 | 0 | 0 | 0 | 0 | 0 | 0 | 305 | 1 | 0 | 306 | 0 | 0 | 0 | 0 | 0 | 529 |
| Total | 0 | 1093 | 0 | 0 | 1093 | 0 | 0 | 0 | 0 | 0 | 0 | 1283 | 1 | 0 | 1284 | 0 | 0 | 0 | 0 | 0 | 2377 |
| 05:00 PM | 0 | 233 | 0 | 0 | 233 | 0 | 0 | 0 | 0 | 0 | 0 | 299 | 0 | 0 | 299 | 0 | 0 | 0 | 0 | 0 | 532 |
| 05:15 PM | 0 | 235 | 0 | 0 | 235 | 0 | 0 | 0 | 0 | 0 | 0 | 289 | 0 | 0 | 289 | 2 | 0 | 0 | 0 | 2 | 526 |
| 05:30 PM | 0 | 210 | 0 | 0 | 210 | 1 | 0 | 0 | 0 | 1 | 1 | 245 | 0 | 0 | 246 | 0 | 0 | 0 | 0 | 0 | 457 |
| 05:45 PM | 0 | 265 | 0 | 0 | 265 | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 0 | 0 | 212 | 0 | 0 | 0 | 0 | 0 | 477 |
| Total | 0 | 943 | 0 | 0 | 943 | 1 | 0 | 0 | 0 | 1 | 1 | 1045 | 0 | 0 | 1046 | 2 | 0 | 0 | 0 | 2 | 1992 |
| 06:00 PM | 0 | 216 | 0 | 0 | 216 | 0 | 0 | 0 | 0 | 0 | 0 | 178 | 1 | 0 | 179 | 0 | 0 | 0 | 0 | 0 | 395 |
| 06:15 PM | 0 | 204 | 0 | 0 | 204 | 0 | 0 | 0 | 0 | 0 | 0 | 244 | 0 | 0 | 244 | 0 | 0 | 0 | 0 | 0 | 448 |
| 06:30 PM | 0 | 171 | 1 | 0 | 172 | 0 | 0 | 0 | 0 | 0 | 0 | 167 | 0 | 0 | 167 | 0 | 0 | 0 | 0 | 0 | 339 |
| 06:45 PM | 0 | 189 | 0 | 0 | 189 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 200 | 0 | 0 | 0 | 0 | 0 | 389 |
| Total | 0 | 780 | 1 | 0 | 781 | 0 | 0 | 0 | 0 | 0 | 0 | 789 | 1 | 0 | 790 | 0 | 0 | 0 | 0 | 0 | 1571 |
| Grand Total | 0 | 3896 | 2 | 0 | 3898 | 2 | 0 | 3 | 0 | 5 | 1 | 4568 | 3 | 0 | 4572 | 2 | 0 | 0 | 0 | 2 | 8477 |
| Apprch % | 0 | 99.9 | 0.1 | 0 | | 40 | 0 | 60 | 0 | | 0 | 99.9 | 0.1 | 0 | | 100 | 0 | 0 | 0 | | |
| Total % | 0 | 46 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0.1 | 0 | 53.9 | 0 | 0 | 53.9 | 0 | 0 | 0 | 0 | 0 | |

| | | US : South | | | V | Walsing Westb | - | d | | | 301 bound | | | | ce/Exit | | |
|------------------------|--------------|---------------|--------------|------------|-------|------------------|------|------------|-------|------|--------------|------------|-------|------|---------|------------|------------|
| G m: | D: L | | | 4 70 . 1 | D: 1. | | | A 70 - 1 | D: L. | | | A 70 . 1 | D' L | | | 4 70 - 1 | T - 70 - 1 |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fro | m 03:00 PM | to 06:45 PM | I - Peak 1 o | of 1 | | | | | | | | | | | | | |
| Peak Hour for Entire | Intersection | Begins at | 03:00 PM | 1 | | | | | | | | | | | | | |
| 03:00 PM | 0 | 318 | 0 | 318 | 0 | 0 | 2 | 2 | 0 | 354 | 0 | 354 | 0 | 0 | 0 | 0 | 674 |
| 03:15 PM | 0 | 253 | 1 | 254 | 1 | 0 | 0 | 1 | 0 | 382 | 0 | 382 | 0 | 0 | 0 | 0 | 637 |
| 03:30 PM | 0 | 253 | 0 | 253 | 0 | 0 | 1 | 1 | 0 | 381 | 0 | 381 | 0 | 0 | 0 | 0 | 635 |
| 03:45 PM | 0 | 256 | 0 | 256 | 0 | 0 | 0 | 0 | 0 | 334 | 1 | 335 | 0 | 0 | 0 | 0 | 591 |
| Total Volume | 0 | 1080 | 1 | 1081 | 1 | 0 | 3 | 4 | 0 | 1451 | 1 | 1452 | 0 | 0 | 0 | 0 | 2537 |
| % App. Total | 0 | 99.9 | 0.1 | | 25 | 0 | 75 | | 0 | 99.9 | 0.1 | | 0 | 0 | 0 | | |
| PHF | .000 | .849 | .250 | .850 | .250 | .000 | .375 | .500 | .000 | .950 | .250 | .950 | .000 | .000 | .000 | .000 | .941 |

File Name: 4-US 301 and Walsingham Rd SUN

Site Code:

Start Date : 11/25/2018

Page No : 1

Groups Printed- Truck

| | | | US 30 | 1 | | | Wals | ingha | m Rd | • | | | US 30 | 1 | | | Ent | rance | Exit | | |
|-------------|-------|------|-------|------|------------|-------|------|--------|------|------------|-------|------|-------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbo | und | | | We | estbou | und | | | No | rthbo | und | | | Ea | istbou | nd | | |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 14 |
| 03:15 PM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 16 |
| 03:30 PM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 11 |
| 03:45 PM | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 0 | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 57 |
| 04:00 PM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 12 |
| 04:15 PM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 9 |
| 04:30 PM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 5 |
| 04:45 PM | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 19 |
| Total | 0 | 19 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 45 |
| 05:00 PM | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 12 |
| 05:15 PM | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 15 |
| 05:30 PM | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 13 |
| 05:45 PM | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 0 | 27 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 53 |
| 06:00 PM | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 17 |
| 06:15 PM | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 11 |
| 06:30 PM | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 12 |
| 06:45 PM | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 0 | 17 | 0 | 0 | 17 | 0 | 1 | 0 | 0 | 1 | 0 | 35 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 53 |
| Grand Total | 0 | 90 | 0 | 0 | 90 | 0 | 1 | 0 | 0 | 1 | 0 | 117 | 0 | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 208 |
| Apprch % | 0 | 100 | 0 | 0 | | 0 | 100 | 0 | 0 | | 0 | 100 | 0 | 0 | | 0 | 0 | 0 | 0 | | |
| Total % | 0 | 43.3 | 0 | 0 | 43.3 | 0 | 0.5 | 0 | 0 | 0.5 | 0 | 56.2 | 0 | 0 | 56.2 | 0 | 0 | 0 | 0 | 0 | |

| | | US : | 301 | | V | Valsing | ham R | d | | US | 301 | | | Entran | ce/Exit | | |
|-------------------------|--------------|-------------|------------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|--------|---------|------------|------------|
| | | South | oound | | | Westb | ound | | | North | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis Fron | m 03:00 PM | to 06:45 PM | I - Peak 1 | of 1 | | • | • | • | | • | • | | • | • | • | | |
| Peak Hour for Entire | Intersection | Begins at | 04:45 PM | 1 | | | | | | | | | | | | | |
| 04:45 PM | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 19 |
| 05:00 PM | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 12 |
| 05:15 PM | 0 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 15 |
| 05:30 PM | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 13 |
| Total Volume | 0 | 28 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 31 | 0 | 0 | 0 | 0 | 59 |
| % App. Total | 0 | 100 | 0 | | 0 | 0 | 0 | | 0 | 100 | 0 | | 0 | 0 | 0 | | |
| PHE | 000 | 778 | 000 | 778 | 000 | 000 | 000 | 000 | 000 | 775 | 000 | 775 | 000 | 000 | 000 | 000 | 776 |

File Name: 4-US 301 and Walsingham Rd SUN

Site Code:

Start Date : 11/25/2018

Page No : 1

Groups Printed- Combined

| | | | US 30 | 1 | | | Wals | ingha | m Rd | | | | US 30 | 1 | | | Ent | rance | Exit | | |
|-------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|-------|------|--------|------|------------|------------|
| | | So | uthbou | und | | | We | estbou | ınd | | | No | rthbou | ınd | | | Ea | istbou | nd | | 1 |
| Start Time | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Right | Thru | Left | Peds | App. Total | Int. Total |
| 03:00 PM | 0 | 327 | 0 | 0 | 327 | 0 | 0 | 2 | 0 | 2 | 0 | 359 | 0 | 0 | 359 | 0 | 0 | 0 | 0 | 0 | 688 |
| 03:15 PM | 0 | 260 | 1 | 0 | 261 | 1 | 0 | 0 | 0 | 1 | 0 | 391 | 0 | 0 | 391 | 0 | 0 | 0 | 0 | 0 | 653 |
| 03:30 PM | 0 | 256 | 0 | 0 | 256 | 0 | 0 | 1 | 0 | 1 | 0 | 389 | 0 | 0 | 389 | 0 | 0 | 0 | 0 | 0 | 646 |
| 03:45 PM | 0 | 264 | 0 | 0 | 264 | 0 | 0 | 0 | 0 | 0 | 0 | 342 | 1 | 0 | 343 | 0 | 0 | 0 | 0 | 0 | 607 |
| Total | 0 | 1107 | 1 | 0 | 1108 | 1 | 0 | 3 | 0 | 4 | 0 | 1481 | 1 | 0 | 1482 | 0 | 0 | 0 | 0 | 0 | 2594 |
| 04:00 PM | 0 | 278 | 0 | 0 | 278 | 0 | 0 | 0 | 0 | 0 | 0 | 297 | 0 | 0 | 297 | 0 | 0 | 0 | 0 | 0 | 575 |
| 04:15 PM | 0 | 319 | 0 | 0 | 319 | 0 | 0 | 0 | 0 | 0 | 0 | 339 | 0 | 0 | 339 | 0 | 0 | 0 | 0 | 0 | 658 |
| 04:30 PM | 0 | 283 | 0 | 0 | 283 | 0 | 0 | 0 | 0 | 0 | 0 | 358 | 0 | 0 | 358 | 0 | 0 | 0 | 0 | 0 | 641 |
| 04:45 PM | 0 | 232 | 0 | 0 | 232 | 0 | 0 | 0 | 0 | 0 | 0 | 315 | 1 | 0 | 316 | 0 | 0 | 0 | 0 | 0 | 548 |
| Total | 0 | 1112 | 0 | 0 | 1112 | 0 | 0 | 0 | 0 | 0 | 0 | 1309 | 1 | 0 | 1310 | 0 | 0 | 0 | 0 | 0 | 2422 |
| 05:00 PM | 0 | 240 | 0 | 0 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 304 | 0 | 0 | 304 | 0 | 0 | 0 | 0 | 0 | 544 |
| 05:15 PM | 0 | 243 | 0 | 0 | 243 | 0 | 0 | 0 | 0 | 0 | 0 | 296 | 0 | 0 | 296 | 2 | 0 | 0 | 0 | 2 | 541 |
| 05:30 PM | 0 | 214 | 0 | 0 | 214 | 1 | 0 | 0 | 0 | 1 | 1 | 254 | 0 | 0 | 255 | 0 | 0 | 0 | 0 | 0 | 470 |
| 05:45 PM | 0 | 273 | 0 | 0 | 273 | 0 | 0 | 0 | 0 | . 0 | 0 | 217 | 0 | 0 | 217 | 0 | 0 | 0 | 0 | 0 | 490 |
| Total | 0 | 970 | 0 | 0 | 970 | 1 | 0 | 0 | 0 | 1 | 1 | 1071 | 0 | 0 | 1072 | 2 | 0 | 0 | 0 | 2 | 2045 |
| 06:00 PM | 0 | 223 | 0 | 0 | 223 | 0 | 1 | 0 | 0 | 1 | 0 | 187 | 1 | 0 | 188 | 0 | 0 | 0 | 0 | 0 | 412 |
| 06:15 PM | 0 | 206 | 0 | 0 | 206 | 0 | 0 | 0 | 0 | 0 | 0 | 253 | 0 | 0 | 253 | 0 | 0 | 0 | 0 | 0 | 459 |
| 06:30 PM | 0 | 176 | 1 | 0 | 177 | 0 | 0 | 0 | 0 | 0 | 0 | 174 | 0 | 0 | 174 | 0 | 0 | 0 | 0 | 0 | 351 |
| 06:45 PM | 0 | 192 | 0 | 0 | 192 | 0 | 0 | 0 | 0 | 0 | 0 | 210 | 0 | 0 | 210 | 0 | 0 | 0 | 0 | 0 | 402 |
| Total | 0 | 797 | 1 | 0 | 798 | 0 | 1 | 0 | 0 | 1 | 0 | 824 | 1 | 0 | 825 | 0 | 0 | 0 | 0 | 0 | 1624 |
| Grand Total | 0 | 3986 | 2 | 0 | 3988 | 2 | 1 | 3 | 0 | 6 | 1 | 4685 | 3 | 0 | 4689 | 2 | 0 | 0 | 0 | 2 | 8685 |
| Apprch % | 0 | 99.9 | 0.1 | 0 | | 33.3 | 16.7 | 50 | 0 | | 0 | 99.9 | 0.1 | 0 | | 100 | 0 | 0 | 0 | | ı |
| Total % | 0 | 45.9 | 0 | 0 | 45.9 | 0 | 0 | 0 | 0 | 0.1 | 0 | 53.9 | 0 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | l |

| | | US: | 301 | | ٧ | Valsing | ham R | d | | US | 301 | | | Entrand | ce/Exit | : | |
|-------------------------|--------------|-------------|--------------|------------|-------|---------|-------|------------|-------|-------|-------|------------|-------|---------|---------|------------|------------|
| | | South | bound | | | Westb | ound | | | North | oound | | | Eastb | ound | | |
| Start Time | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Right | Thru | Left | App. Total | Int. Total |
| Peak Hour Analysis From | m 03:00 PM | to 06:45 PM | 1 - Peak 1 o | f 1 | | • | • | | • | • | • | | | • | • | | |
| Peak Hour for Entire | Intersection | n Begins at | 03:00 PM | Ī | | | | | | | | | | | | | |
| 03:00 PM | 0 | 327 | 0 | 327 | 0 | 0 | 2 | 2 | 0 | 359 | 0 | 359 | 0 | 0 | 0 | 0 | 688 |
| 03:15 PM | 0 | 260 | 1 | 261 | 1 | 0 | 0 | 1 | 0 | 391 | 0 | 391 | 0 | 0 | 0 | 0 | 653 |
| 03:30 PM | 0 | 256 | 0 | 256 | 0 | 0 | 1 | 1 | 0 | 389 | 0 | 389 | 0 | 0 | 0 | 0 | 646 |
| 03:45 PM | 0 | 264 | 0 | 264 | 0 | 0 | 0 | 0 | 0 | 342 | 1 | 343 | 0 | 0 | 0 | 0 | 607 |
| Total Volume | 0 | 1107 | 1 | 1108 | 1 | 0 | 3 | 4 | 0 | 1481 | 1 | 1482 | 0 | 0 | 0 | 0 | 2594 |
| % App. Total | 0 | 99.9 | 0.1 | | 25 | 0 | 75 | | 0 | 99.9 | 0.1 | | 0 | 0 | 0 | | |
| PHE | 000 | 846 | 250 | 8/17 | 250 | 000 | 375 | 500 | 000 | 947 | 250 | 0/18 | 000 | 000 | 000 | 000 | 0/13 |

APPENDIX B Existing Conditions Analysis

Weekday AM Peak

| | → | • | • | • | † | \ | ↓ |
|-------------------------|----------|------|------|------|----------|----------|----------|
| Lane Group | EBT | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Group Flow (vph) | 257 | 151 | 127 | 8 | 321 | 67 | 339 |
| v/c Ratio | 0.50 | 0.51 | 0.20 | 0.06 | 0.47 | 0.32 | 0.26 |
| Control Delay | 33.0 | 36.7 | 4.5 | 38.1 | 28.5 | 37.4 | 15.7 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 33.0 | 36.7 | 4.5 | 38.1 | 28.5 | 37.4 | 15.7 |
| Queue Length 50th (ft) | 53 | 62 | 0 | 3 | 64 | 28 | 44 |
| Queue Length 95th (ft) | 109 | 140 | 34 | 19 | 125 | 77 | 109 |
| Internal Link Dist (ft) | 118 | 2711 | | | 1025 | | 2313 |
| Turn Bay Length (ft) | | | | 200 | | 175 | |
| Base Capacity (vph) | 1072 | 610 | 905 | 337 | 1644 | 529 | 2133 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.24 | 0.25 | 0.14 | 0.02 | 0.20 | 0.13 | 0.16 |
| Intersection Summary | | | | | | | |

Synchro 9 Report Page 1 Baseline

| | ۶ | → | • | • | ← | • | • | † | / | / | ţ | |
|-----------------------------------|---------|----------|-------|-------|-----------|------------|---------|------------|------|----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 413- | | | ર્ન | 7 | , N | ∱ } | | ¥ | ∱ } | |
| Traffic Volume (vph) | 153 | 58 | 21 | 38 | 98 | 114 | 7 | 271 | 18 | 60 | 237 | 68 |
| Future Volume (vph) | 153 | 58 | 21 | 38 | 98 | 114 | 7 | 271 | 18 | 60 | 237 | 68 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.7 | | | 5.8 | 5.8 | 4.5 | 6.5 | | 6.1 | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 1.00 | 1.00 | 1.00 | 0.95 | | 1.00 | 0.95 | |
| Frt | | 0.99 | | | 1.00 | 0.85 | 1.00 | 0.99 | | 1.00 | 0.97 | |
| Flt Protected | | 0.97 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | | 3196 | | | 1835 | 1482 | 1583 | 3100 | | 1612 | 3185 | |
| Flt Permitted | | 0.97 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | | 3196 | | | 1835 | 1482 | 1583 | 3100 | | 1612 | 3185 | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 170 | 64 | 23 | 42 | 109 | 127 | 8 | 301 | 20 | 67 | 263 | 76 |
| RTOR Reduction (vph) | 0 | 6 | 0 | 0 | 0 | 82 | 0 | 4 | 0 | 0 | 19 | 0 |
| Lane Group Flow (vph) | 0 | 251 | 0 | 0 | 151 | 45 | 8 | 317 | 0 | 67 | 320 | 0 |
| Heavy Vehicles (%) | 4% | 16% | 14% | 5% | 1% | 9% | 14% | 16% | 6% | 12% | 12% | 1% |
| Turn Type | Split | NA | | Split | NA | pt+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 3 | 3 | | 4 | 4 | 4 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | | | | | | | | | | | | |
| Actuated Green, G (s) | | 11.8 | | | 12.1 | 27.5 | 1.1 | 20.2 | | 9.6 | 30.3 | |
| Effective Green, g (s) | | 11.8 | | | 12.1 | 27.5 | 1.1 | 20.2 | | 9.6 | 30.3 | |
| Actuated g/C Ratio | | 0.15 | | | 0.16 | 0.35 | 0.01 | 0.26 | | 0.12 | 0.39 | |
| Clearance Time (s) | | 5.7 | | | 5.8 | | 4.5 | 6.5 | | 6.1 | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | | 484 | | | 285 | 523 | 22 | 804 | | 198 | 1240 | |
| v/s Ratio Prot | | c0.08 | | | c0.08 | 0.03 | 0.01 | c0.10 | | c0.04 | 0.10 | |
| v/s Ratio Perm | | | | | | | | | | | | |
| v/c Ratio | | 0.52 | | | 0.53 | 0.09 | 0.36 | 0.39 | | 0.34 | 0.26 | |
| Uniform Delay, d1 | | 30.4 | | | 30.2 | 16.8 | 38.0 | 23.8 | | 31.2 | 16.1 | |
| Progression Factor | | 1.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | | 0.9 | | | 1.8 | 0.1 | 9.9 | 0.8 | | 1.0 | 0.3 | |
| Delay (s) | | 31.3 | | | 32.0 | 16.8 | 47.9 | 24.5 | | 32.2 | 16.4 | |
| Level of Service | | С | | | С | В | D | С | | С | В | |
| Approach Delay (s) | | 31.3 | | | 25.1 | | | 25.1 | | | 19.0 | |
| Approach LOS | | С | | | С | | | С | | | В | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 24.4 | Н | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capacit | y ratio | | 0.44 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 77.8 | | um of los | . , | | | 24.1 | | | |
| Intersection Capacity Utilization | n | | 47.1% | IC | CU Level | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 9 Report Page 2

| Intersection | | | | | | |
|------------------------|--------|------|------------|----------|---------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ∱ } | | | 41 |
| Traffic Vol, veh/h | 4 | 2 | 547 | 2 | 2 | 358 |
| Future Vol, veh/h | 4 | 2 | 547 | 2 | 2 | 358 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | , # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 0 | 0 | 11 | 0 | 0 | 9 |
| Mvmt Flow | 4 | 2 | 608 | 2 | 2 | 398 |
| IVIVIII I IOVV | _ | | 000 | 2 | | 370 |
| | | | | | | |
| Major/Minor I | Minor1 | | /lajor1 | N | /lajor2 | |
| Conflicting Flow All | 812 | 305 | 0 | 0 | 610 | 0 |
| Stage 1 | 609 | - | - | - | - | - |
| Stage 2 | 203 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | _ | _ | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | _ | _ | 2.2 | _ |
| Pot Cap-1 Maneuver | 321 | 697 | _ | _ | 979 | _ |
| Stage 1 | 511 | - | _ | _ | - | _ |
| Stage 2 | 817 | - | | | | |
| Platoon blocked, % | 017 | | _ | _ | - | _ |
| | 320 | 697 | - | - | 979 | - |
| Mov Cap-1 Maneuver | | | | - | | |
| Mov Cap-2 Maneuver | 320 | - | - | - | - | - |
| Stage 1 | 511 | - | - | - | - | - |
| Stage 2 | 815 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 14.4 | | 0 | | 0 | |
| HCM LOS | В | | - 0 | | 0 | |
| TIGIVI LOG | D | | | | | |
| | | | | | | |
| Minor Lane/Major Mvm | ıt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | - | 390 | 979 | - |
| HCM Lane V/C Ratio | | - | - | 0.017 | 0.002 | - |
| HCM Control Delay (s) | | - | - | 14.4 | 8.7 | 0 |
| HCM Lane LOS | | - | - | В | Α | Α |
| HCM 95th %tile Q(veh) | | - | - | 0.1 | 0 | - |
| 2(101) | | | | | | |

Baseline Synchro 9 Report Page 3

| Intersection | | | | | | |
|-------------------------|--------|-------|----------|--------------|--------|------|
| Int Delay, s/veh | 0 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | 7/ | TIDIC | † | HOR | ODL | 41 |
| Traffic Vol, veh/h | 0 | 0 | 553 | 0 | 0 | 358 |
| Future Vol, veh/h | 0 | 0 | 553 | 0 | 0 | 358 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 330 |
| | | | | Free | Free | Free |
| Sign Control | Stop | Stop | Free | | | |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, | | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 0 | 0 | 10 | 0 | 0 | 10 |
| Mvmt Flow | 0 | 0 | 608 | 0 | 0 | 393 |
| | | | | | | |
| Major/Minor | lina=1 | | Anic -1 | , a | /ole=2 | |
| | 1inor1 | | /lajor1 | | Major2 | |
| Conflicting Flow All | 805 | 304 | 0 | 0 | 608 | 0 |
| Stage 1 | 608 | - | - | - | - | - |
| Stage 2 | 197 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.2 | - |
| Pot Cap-1 Maneuver | 324 | 698 | - | - | 980 | - |
| Stage 1 | 512 | - | _ | _ | - | _ |
| Stage 2 | 823 | _ | _ | _ | _ | _ |
| Platoon blocked, % | 023 | | _ | | | _ |
| | 224 | 400 | | - | 000 | |
| Mov Cap-1 Maneuver | 324 | 698 | - | - | 980 | - |
| Mov Cap-2 Maneuver | 324 | - | - | - | - | - |
| Stage 1 | 512 | - | - | - | - | - |
| Stage 2 | 823 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| | | | 0 | | 0 | |
| HCM LOS | 0 | | U | | U | |
| HCM LOS | А | | | | | |
| | | | | | | |
| Minor Lane/Major Mvmt | | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | | _ | - | 980 | _ |
| HCM Lane V/C Ratio | | _ | _ | _ | | _ |
| HCM Control Delay (s) | | _ | _ | 0 | 0 | _ |
| HCM Lane LOS | | | - | A | A | - |
| HCM 95th %tile Q(veh) | | - | _ | - A | 0 | - |
| HOW FOUT WITHE CI(VEII) | | - | - | - | U | - |

Synchro 9 Report Page 4 Baseline

| Intersection | | | | | | | | | | | | | |
|------------------------|--------|------|------|---------|--------|---------|--------|------|------------|------|--------|----------|------|
| Int Delay, s/veh | 0 | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBU | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4 | | | 4 | | Ð | | ↑ ↑ | | ă | ^ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 541 | 3 | 0 | 360 | 0 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 541 | 3 | 0 | 360 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | - | 350 | - | - | 315 | - | - |
| Veh in Median Storage | e,# - | 0 | - | - | 0 | - | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 92 | 94 | 94 | 94 | 94 | 94 | 94 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 10 | 0 | 0 | 9 | 0 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 576 | 3 | 0 | 383 | 0 |
| | | | | | | | | | | | | | |
| Major/Minor N | Minor2 | | N | /linor1 | | N | Major1 | | | | Major2 | | |
| Conflicting Flow All | 671 | 962 | 191 | 768 | 960 | 289 | 279 | _ | 0 | 0 | 579 | 0 | 0 |
| Stage 1 | 383 | 383 | - | 577 | 577 | - | | _ | - | - | - | - | - |
| Stage 2 | 288 | 579 | _ | 191 | 383 | _ | _ | _ | _ | _ | - | _ | _ |
| Critical Hdwy | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 | 6.44 | _ | - | _ | 4.1 | _ | - |
| Critical Hdwy Stg 1 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | _ | _ | _ | - | _ | _ |
| Critical Hdwy Stg 2 | 6.5 | 5.5 | - | 6.5 | 5.5 | _ | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.52 | - | - | - | 2.2 | - | - |
| Pot Cap-1 Maneuver | 346 | 258 | 825 | 295 | 259 | 714 | 955 | 0 | - | - | 1005 | - | 0 |
| Stage 1 | 617 | 616 | - | 474 | 505 | - | - | 0 | - | - | - | - | 0 |
| Stage 2 | 701 | 504 | - | 798 | 616 | - | - | 0 | - | - | - | - | 0 |
| Platoon blocked, % | | | | | | | | | - | - | | - | |
| Mov Cap-1 Maneuver | 345 | 258 | 825 | 295 | 259 | 714 | 955 | - | - | - | 1005 | - | - |
| Mov Cap-2 Maneuver | 345 | 258 | - | 295 | 259 | - | - | - | - | - | - | - | - |
| Stage 1 | 617 | 616 | - | 474 | 505 | - | - | - | - | - | - | - | - |
| Stage 2 | 700 | 504 | - | 798 | 616 | - | - | - | - | - | - | - | - |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | | SB | | |
| HCM Control Delay, s | 0 | | | 10.1 | | | 0 | | | | 0 | | |
| HCM LOS | A | | | В | | | U | | | | · · | | |
| | , , | | | | | | | | | | | | |
| Minor Lang/Major Muss | .+ | MDII | NDT | NDD | DI 51V | M/DI n1 | CDI | CDT | | | | | |
| Minor Lane/Major Mvm | Il | NBU | NBT | MRK | EBLn1V | | SBL | SBT | | | | | |
| Capacity (veh/h) | | 955 | - | - | - | 714 | 1005 | - | | | | | |
| HCM Control Delay (a) | | - | - | - | | 0.001 | - | - | | | | | |
| HCM Control Delay (s) | | 0 | - | - | 0 | 10.1 | 0 | - | | | | | |
| HCM Lane LOS | | A | - | - | Α | В | A | - | | | | | |
| HCM 95th %tile Q(veh) |) | 0 | - | - | - | 0 | 0 | - | | | | | |

Baseline Synchro 9 Report Page 5

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | WB | WB | NB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|------|------|-----|------|------|-----|------|------|--|
| Directions Served | LT | TR | LT | R | L | T | TR | L | T | TR | |
| Maximum Queue (ft) | 161 | 90 | 111 | 113 | 28 | 212 | 184 | 88 | 94 | 154 | |
| Average Queue (ft) | 84 | 35 | 65 | 59 | 6 | 101 | 57 | 40 | 51 | 65 | |
| 95th Queue (ft) | 138 | 72 | 113 | 111 | 23 | 177 | 140 | 76 | 90 | 111 | |
| Link Distance (ft) | 122 | 122 | 2737 | 2737 | | 1058 | 1058 | | 2319 | 2319 | |
| Upstream Blk Time (%) | 2 | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | | | | | | | | | | |
| Storage Bay Dist (ft) | | | | | 200 | | | 175 | | | |
| Storage Blk Time (%) | | | | | | 0 | | | | | |
| Queuing Penalty (veh) | | | | | | 0 | | | | | |

Intersection: 2: US 301 & Back St

| Movement | WB | SB |
|-----------------------|------|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 31 | 53 |
| Average Queue (ft) | 3 | 2 |
| 95th Queue (ft) | 19 | 18 |
| Link Distance (ft) | 1114 | 1146 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 3: US 301 & Caroline St

| Movement |
|-----------------------|
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (%) |
| Queuing Penalty (veh) |

Intersection: 4: US 301 & Walsingham Rd

| Movement | | |
|-----------------------|--|--|
| Directions Served | | |
| Maximum Queue (ft) | | |
| Average Queue (ft) | | |
| 95th Queue (ft) | | |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| | | |

Network Summary

Network wide Queuing Penalty: 0

Weekday PM Peak

| | → | ← | • | 4 | † | \ | ļ |
|-------------------------|----------|------|------|------|----------|----------|------|
| Lane Group | EBT | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Group Flow (vph) | 227 | 113 | 88 | 9 | 363 | 218 | 639 |
| v/c Ratio | 0.48 | 0.48 | 0.14 | 0.07 | 0.51 | 0.64 | 0.42 |
| Control Delay | 38.0 | 43.0 | 4.6 | 43.9 | 31.6 | 40.7 | 14.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 38.0 | 43.0 | 4.6 | 43.9 | 31.6 | 40.7 | 14.8 |
| Queue Length 50th (ft) | 55 | 53 | 0 | 4 | 82 | 101 | 88 |
| Queue Length 95th (ft) | 114 | 127 | 28 | 23 | 158 | 210 | 197 |
| Internal Link Dist (ft) | 118 | 2711 | | | 1025 | | 2313 |
| Turn Bay Length (ft) | | | | 200 | | 175 | |
| Base Capacity (vph) | 1043 | 508 | 777 | 355 | 1526 | 547 | 1992 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.22 | 0.22 | 0.11 | 0.03 | 0.24 | 0.40 | 0.32 |
| Intersection Summary | | | | | | | |

Synchro 9 Report Page 1 Baseline

| | ۶ | → | • | • | ← | • | 4 | † | / | > | ţ | ✓ |
|-----------------------------------|---------|----------|-------|-------|-----------|------------|---------|------------|------|-------------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4îb | | | ર્ન | 7 | ¥ | ∱ } | | , | ↑ ↑ | |
| Traffic Volume (vph) | 90 | 119 | 14 | 19 | 92 | 86 | 9 | 333 | 23 | 214 | 421 | 205 |
| Future Volume (vph) | 90 | 119 | 14 | 19 | 92 | 86 | 9 | 333 | 23 | 214 | 421 | 205 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.7 | | | 5.8 | 5.8 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 1.00 | 1.00 | 1.00 | 0.95 | | 1.00 | 0.95 | |
| Frt | | 0.99 | | | 1.00 | 0.85 | 1.00 | 0.99 | | 1.00 | 0.95 | |
| Flt Protected | | 0.98 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | | 3365 | | | 1651 | 1404 | 1805 | 3113 | | 1687 | 3187 | |
| Flt Permitted | | 0.98 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | | 3365 | | | 1651 | 1404 | 1805 | 3113 | | 1687 | 3187 | |
| Peak-hour factor, PHF | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Adj. Flow (vph) | 92 | 121 | 14 | 19 | 94 | 88 | 9 | 340 | 23 | 218 | 430 | 209 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 0 | 53 | 0 | 4 | 0 | 0 | 37 | 0 |
| Lane Group Flow (vph) | 0 | 224 | 0 | 0 | 113 | 35 | 9 | 359 | 0 | 218 | 602 | 0 |
| Heavy Vehicles (%) | 4% | 4% | 7% | 5% | 16% | 15% | 0% | 15% | 13% | 7% | 11% | 1% |
| Turn Type | Split | NA | | Split | NA | pt+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 3 | 3 | | 4 | 4 | 4 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | | | | | | | | | | | | |
| Actuated Green, G (s) | | 11.5 | | | 11.6 | 34.0 | 1.1 | 22.6 | | 16.6 | 38.1 | |
| Effective Green, g (s) | | 11.5 | | | 11.6 | 34.0 | 1.1 | 22.6 | | 16.6 | 38.1 | |
| Actuated g/C Ratio | | 0.14 | | | 0.14 | 0.40 | 0.01 | 0.27 | | 0.20 | 0.45 | |
| Clearance Time (s) | | 5.7 | | | 5.8 | | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | | 456 | | | 225 | 562 | 23 | 829 | | 330 | 1431 | |
| v/s Ratio Prot | | c0.07 | | | c0.07 | 0.03 | 0.00 | 0.12 | | c0.13 | c0.19 | |
| v/s Ratio Perm | | | | | | | | | | | | |
| v/c Ratio | | 0.49 | | | 0.50 | 0.06 | 0.39 | 0.43 | | 0.66 | 0.42 | |
| Uniform Delay, d1 | | 33.9 | | | 33.9 | 15.6 | 41.5 | 25.8 | | 31.5 | 15.9 | |
| Progression Factor | | 1.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | | 8.0 | | | 1.8 | 0.0 | 10.7 | 0.9 | | 4.9 | 0.5 | |
| Delay (s) | | 34.8 | | | 35.7 | 15.7 | 52.2 | 26.7 | | 36.4 | 16.3 | |
| Level of Service | | С | | | D | В | D | С | | D | В | |
| Approach Delay (s) | | 34.8 | | | 26.9 | | | 27.3 | | | 21.4 | |
| Approach LOS | | С | | | С | | | С | | | С | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 25.2 | Н | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capacity | / ratio | | 0.53 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 84.8 | S | um of los | t time (s) | | | 22.5 | | | |
| Intersection Capacity Utilization | n | | 53.4% | IC | CU Level | of Service | : | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 9 Report Page 2

| Intersection | | | | | | |
|---|--------|-------------|----------|---------------|--------------|----------|
| Int Delay, s/veh | 0 | | | | | |
| | | WDD | NDT | NDD | CDI | CDT |
| Movement Lang Configurations | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | Y | 2 | † | 0 | 2 | ₹ |
| Traffic Vol, veh/h | 1 | 2 | 513 | 8 | 2 | 864 |
| Future Vol, veh/h | 1 | 2 | 513 | 8 | 2 | 864 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | _ 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 0 | 0 | 13 | 13 | 0 | 7 |
| Mvmt Flow | 1 | 2 | 552 | 9 | 2 | 929 |
| | | | | | | |
| Major/Minor | dinor1 | Λ. | loior1 | n | Majora | |
| | Minor1 | | /lajor1 | | Major2 | |
| Conflicting Flow All | 1025 | 280 | 0 | 0 | 560 | 0 |
| Stage 1 | 556 | - | - | - | - | - |
| Stage 2 | 469 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.2 | - |
| Pot Cap-1 Maneuver | 234 | 723 | - | - | 1021 | - |
| Stage 1 | 544 | - | - | - | - | - |
| Stage 2 | 602 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 233 | 723 | - | - | 1021 | - |
| Mov Cap-2 Maneuver | 233 | _ | _ | - | _ | - |
| Stage 1 | 544 | - | - | - | - | - |
| Stage 2 | 600 | _ | _ | _ | _ | _ |
| Jugo Z | 300 | | | | | |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 13.5 | | 0 | | 0 | |
| HCM LOS | В | | | | | |
| | | | | | | |
| Minor Long/Major Mayor | | NDT | MDD | MDI1 | CDI | CDT |
| Minor Lane/Major Mvm | I | NBT | | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | | _ | 425 | 1021 | - |
| | | - | | | | |
| HCM Lane V/C Ratio | | - | | 0.008 | 0.002 | - |
| HCM Lane V/C Ratio HCM Control Delay (s) | | - | | 0.008 13.5 | 0.002 8.5 | 0 |
| HCM Lane V/C Ratio | | - - - | - | 0.008 | 0.002 | |

Baseline Synchro 9 Report Page 3

| Intersection | | | | | | |
|------------------------|-----------|------|---------|-------|--------|------|
| Int Delay, s/veh | 0 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | Λ₽ | | | 4₽ |
| Traffic Vol, veh/h | 0 | 2 | 496 | 1 | 1 | 851 |
| Future Vol, veh/h | 0 | 2 | 496 | 1 | 1 | 851 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 0 | 0 | 13 | 0 | 0 | 8 |
| Mvmt Flow | 0 | 2 | 533 | 1 | 1 | 915 |
| WWW.CT IOW | · · | _ | 000 | • | • | 710 |
| | | | | | | |
| | Minor1 | | /lajor1 | | Major2 | |
| Conflicting Flow All | 994 | 267 | 0 | 0 | 534 | 0 |
| Stage 1 | 534 | - | - | - | - | - |
| Stage 2 | 460 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.2 | - |
| Pot Cap-1 Maneuver | 245 | 737 | - | - | 1044 | - |
| Stage 1 | 558 | - | _ | | - | _ |
| Stage 2 | 608 | - | - | - | - | - |
| Platoon blocked, % | 000 | | _ | | | _ |
| Mov Cap-1 Maneuver | 245 | 737 | - | _ | 1044 | - |
| Mov Cap-1 Maneuver | 245 | 131 | _ | - | 1044 | - |
| | 558 | | | - | | - |
| Stage 1 | | - | - | - | - | - |
| Stage 2 | 607 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 9.9 | | 0 | | 0 | |
| HCM LOS | Α | | | | | |
| | | | | | | |
| | | | | | 0.51 | |
| Minor Lane/Major Mvm | <u>nt</u> | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | - | 737 | 1044 | - |
| HCM Lane V/C Ratio | | - | - | 0.003 | | - |
| HCM Control Delay (s) | | - | - | 9.9 | 8.5 | 0 |
| HCM Lane LOS | | - | - | Α | Α | Α |
| HCM 95th %tile Q(veh |) | - | - | 0 | 0 | - |
| HOW YOU WILL Q(VEI) |) | - | - | U | U | - |

Synchro 9 Report Page 4 Baseline

| Intersection | | | | | | | | | | | | | | |
|---|------------|------------|-------|----------|------------|--------|---------|------|------|------|--------------|----------|------|--|
| Int Delay, s/veh | 0.1 | | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBU | NBL | NBT | NBR | SBL | SBT | SBR | |
| Lane Configurations | | 4 | | | 4 | | Ð | | ħβ | | Ä | ^ | | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 504 | 1 | 4 | 849 | 0 | |
| Future Vol, veh/h | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 504 | 1 | 4 | 849 | 0 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free | Free | |
| RT Channelized | - | - | None | <u>.</u> | - | None | - | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | 350 | - | - | 315 | - | - | |
| Veh in Median Storage | 2,# - | 0 | - | - | 0 | - | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 13 | 0 | 25 | 8 | 0 | |
| Mvmt Flow | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 548 | 1 | 4 | 923 | 0 | |
| | | | | | | | | | | | | | | |
| Major/Minor I | Minor2 | | N | Minor1 | | N | /lajor1 | | | | Major2 | | | |
| Conflicting Flow All | 1215 | 1490 | 461 | 1027 | 1489 | 274 | 673 | 923 | 0 | 0 | 549 | 0 | 0 | |
| | | | | 557 | | 2/4 | | 923 | | U | 549 | | U | |
| Stage 1 | 932 | 932 558 | - | 470 | 557 932 | - | - | - | - | - | - | - | - | |
| Stage 2 Critical Hdwy | 283 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 | 6.44 | 4.1 | - | - | 4.6 | - | - | |
| , | 6.5 | 5.5 | 0.9 | 6.5 | 5.5 | 0.9 | 0.44 | 4.1 | - | - | 4.0 | - | - | |
| Critical Hdwy Stg 1 Critical Hdwy Stg 2 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | - | - | - | - | - | - | |
| Follow-up Hdwy | 3.5 | 3.3 | 3.3 | 3.5 | 3.3 | 3.3 | 2.52 | 2.2 | - | - | 2.45 | - | - | |
| Pot Cap-1 Maneuver | 139 | 125 | 553 | 191 | 125 | 730 | 537 | 748 | - | - | 873 | - | 0 | |
| | 291 | 348 | - 555 | 487 | 515 | 730 | 557 | 740 | - | - | 0/3 | - | 0 | |
| Stage 1 Stage 2 | 706 | 515 | - | 548 | 348 | - | - | - | - | - | - | - | 0 | |
| Platoon blocked, % | 700 | 313 | - | 340 | 340 | - | - | - | - | - | - | _ | U | |
| Mov Cap-1 Maneuver | 138 | 124 | 553 | 190 | 124 | 730 | 748 | 748 | - | - | 873 | - | | |
| Mov Cap-1 Maneuver | 138 | 124 | - 555 | 190 | 124 | 730 | 740 | 740 | - | - | 0/3 | _ | - | |
| Stage 1 | 291 | 346 | - | 487 | 515 | - | - | - | - | - | <u>-</u> | - | - | |
| Stage 2 | 704 | 515 | - | 545 | 346 | - | - | - | - | - | - | - | - | |
| Stage 2 | 704 | 515 | - | 343 | 340 | - | - | - | - | - | - | - | - | |
| | | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | | SB | | | |
| HCM Control Delay, s | 0 | | | 14.7 | | | 0.1 | | | | 0 | | | |
| HCM LOS | Α | | | В | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt | NBU | NBL | NBT | NBR | EBLn1V | VBLn1 | SBL | SBT | | | | | |
| Capacity (veh/h) | | 748 | 748 | - | - | - | 375 | 873 | - | | | | | |
| HCM Lane V/C Ratio | | - | 0.006 | - | - | - | 0.009 | | - | | | | | |
| HCM Control Delay (s) | | 9.8 | 9.8 | - | - | 0 | 14.7 | 9.1 | - | | | | | |
| HCM Lane LOS | | А | А | - | - | A | В | Α | - | | | | | |
| HCM 95th %tile Q(veh) |) | 0 | 0 | - | - | - | 0 | 0 | - | | | | | |
| | | | _ | | | | - | | | | | | | |

Baseline Synchro 9 Report Page 5

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | WB | WB | NB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|------|------|-----|------|------|-----|------|------|--|
| Directions Served | LT | TR | LT | R | L | T | TR | L | Т | TR | |
| Maximum Queue (ft) | 162 | 177 | 154 | 124 | 49 | 163 | 172 | 174 | 231 | 204 | |
| Average Queue (ft) | 82 | 48 | 70 | 46 | 7 | 107 | 65 | 113 | 93 | 110 | |
| 95th Queue (ft) | 131 | 102 | 140 | 97 | 31 | 160 | 130 | 172 | 179 | 179 | |
| Link Distance (ft) | 122 | 122 | 2737 | 2737 | | 1058 | 1058 | | 2319 | 2319 | |
| Upstream Blk Time (%) | 2 | 1 | | | | | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | | | | | |
| Storage Bay Dist (ft) | | | | | 200 | | | 175 | | | |
| Storage Blk Time (%) | | | | | | | | 2 | 1 | | |
| Queuing Penalty (veh) | | | | | | | | 5 | 2 | | |

Intersection: 2: US 301 & Back St

| Movement | WB |
|-----------------------|------|
| Directions Served | LR |
| Maximum Queue (ft) | 30 |
| Average Queue (ft) | 4 |
| 95th Queue (ft) | 21 |
| Link Distance (ft) | 1114 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 3: US 301 & Caroline St

| Movement | WB |
|-----------------------|------|
| Directions Served | LR |
| Maximum Queue (ft) | 31 |
| Average Queue (ft) | 2 |
| 95th Queue (ft) | 15 |
| Link Distance (ft) | 1181 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 4: US 301 & Walsingham Rd

| Movement | WB | NB | SB |
|-----------------------|------|------|-----|
| Directions Served | LTR | LT | UL |
| Maximum Queue (ft) | 30 | 25 | 47 |
| Average Queue (ft) | 3 | 3 | 2 |
| 95th Queue (ft) | 18 | 15 | 18 |
| Link Distance (ft) | 1936 | 1070 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 315 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Network Summary

Network wide Queuing Penalty: 6

Sunday Worst-Case Scenario

| | - | ← | • | 4 | † | - | ↓ |
|-------------------------|------|------|------|------|----------|------|----------|
| Lane Group | EBT | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Group Flow (vph) | 242 | 157 | 314 | 19 | 1198 | 336 | 847 |
| v/c Ratio | 0.60 | 0.64 | 0.40 | 0.18 | 1.01 | 0.85 | 0.44 |
| Control Delay | 55.0 | 59.7 | 6.5 | 57.8 | 68.5 | 64.6 | 18.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 55.0 | 59.7 | 6.5 | 57.8 | 68.5 | 64.6 | 18.2 |
| Queue Length 50th (ft) | 89 | 112 | 23 | 14 | ~471 | 239 | 162 |
| Queue Length 95th (ft) | 140 | 188 | 88 | 41 | #732 | #454 | 328 |
| Internal Link Dist (ft) | 118 | 2711 | | | 1025 | | 2313 |
| Turn Bay Length (ft) | | | | 200 | | 175 | |
| Base Capacity (vph) | 744 | 390 | 781 | 243 | 1182 | 396 | 1931 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.33 | 0.40 | 0.40 | 0.08 | 1.01 | 0.85 | 0.44 |

Intersection Summary

Synchro 9 Report Baseline Page 1

Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

| | ۶ | → | • | • | ← | • | • | † | / | / | Ţ | |
|-----------------------------------|-------|----------|-------|---------------------------|-----------|------------|------|------------|------|----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | | 4 | 7 | Ť | ∱ β | | ň | ∱ β | |
| Traffic Volume (vph) | 65 | 155 | 10 | 19 | 130 | 298 | 18 | 1121 | 17 | 319 | 747 | 58 |
| Future Volume (vph) | 65 | 155 | 10 | 19 | 130 | 298 | 18 | 1121 | 17 | 319 | 747 | 58 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.7 | | | 5.8 | 5.8 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 1.00 | 1.00 | 1.00 | 0.95 | | 1.00 | 0.95 | |
| Frt | | 0.99 | | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | 0.99 | |
| Flt Protected | | 0.99 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | | 3512 | | | 1856 | 1599 | 1805 | 3526 | | 1787 | 3474 | |
| Flt Permitted | | 0.99 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | | 3512 | | | 1856 | 1599 | 1805 | 3526 | | 1787 | 3474 | |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 68 | 163 | 11 | 20 | 137 | 314 | 19 | 1180 | 18 | 336 | 786 | 61 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 0 | 159 | 0 | 1 | 0 | 0 | 3 | 0 |
| Lane Group Flow (vph) | 0 | 239 | 0 | 0 | 157 | 155 | 19 | 1197 | 0 | 336 | 844 | 0 |
| Heavy Vehicles (%) | 0% | 1% | 0% | 0% | 2% | 1% | 0% | 2% | 12% | 1% | 3% | 0% |
| Turn Type | Split | NA | | Split | NA | pt+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 3 | 3 | | 4 | 4 | 4 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | | | | | | | | | | | | |
| Actuated Green, G (s) | | 13.2 | | | 15.3 | 46.7 | 3.1 | 41.5 | | 25.6 | 64.0 | |
| Effective Green, g (s) | | 13.2 | | | 15.3 | 46.7 | 3.1 | 41.5 | | 25.6 | 64.0 | |
| Actuated g/C Ratio | | 0.11 | | | 0.13 | 0.40 | 0.03 | 0.35 | | 0.22 | 0.54 | |
| Clearance Time (s) | | 5.7 | | | 5.8 | | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | | 392 | | | 240 | 632 | 47 | 1239 | | 387 | 1882 | |
| v/s Ratio Prot | | c0.07 | | | c0.08 | 0.10 | 0.01 | c0.34 | | c0.19 | 0.24 | |
| v/s Ratio Perm | | | | | | | | | | | | |
| v/c Ratio | | 0.61 | | | 0.65 | 0.25 | 0.40 | 0.97 | | 0.87 | 0.45 | |
| Uniform Delay, d1 | | 50.0 | | | 48.9 | 23.9 | 56.6 | 37.6 | | 44.6 | 16.4 | |
| Progression Factor | | 1.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | | 2.8 | | | 6.3 | 0.2 | 5.6 | 18.3 | | 18.2 | 0.4 | |
| Delay (s) | | 52.8 | | | 55.2 | 24.1 | 62.2 | 55.9 | | 62.8 | 16.8 | |
| Level of Service | | D | | | Ε | С | Ε | Ε | | Ε | В | |
| Approach Delay (s) | | 52.8 | | | 34.5 | | | 56.0 | | | 29.9 | |
| Approach LOS | | D | | | С | | | E | | | С | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay 42.6 | | | 42.6 | HCM 2000 Level of Service | | | | | D | | | |
| HCM 2000 Volume to Capacity ratio | | 0.84 | | | | | | | | | | |
| Actuated Cycle Length (s) | | | 118.1 | | um of los | | | | 22.5 | | | |
| Intersection Capacity Utilization | | | 82.3% | IC | CU Level | of Service | | | Е | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 9 Report Page 2

| Intersection | | | | | | |
|-------------------------|-----------|------|---------|-------|---------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | N/F | | Λħ | | | 4₽ |
| Traffic Vol, veh/h | 8 | 1 | 1483 | 10 | 0 | 1131 |
| Future Vol, veh/h | 8 | 1 | 1483 | 10 | 0 | 1131 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | _ | 0 | - | | 0 |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 |
| Heavy Vehicles, % | 0 | 0 | 2 | 0 | 0 | 2 |
| Mymt Flow | 8 | 1 | 1545 | 10 | 0 | 1178 |
| IVIVIII I IOVV | U | ı | 1373 | 10 | U | 1170 |
| | | | | | | |
| Major/Minor | Minor1 | | /lajor1 | ١ | /lajor2 | |
| Conflicting Flow All | 2139 | 778 | 0 | 0 | 1555 | 0 |
| Stage 1 | 1550 | - | - | - | - | - |
| Stage 2 | 589 | - | - | - | | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | _ | - | - | _ | _ |
| Critical Hdwy Stg 2 | 5.8 | _ | _ | _ | _ | _ |
| Follow-up Hdwy | 3.5 | 3.3 | _ | _ | 2.2 | _ |
| Pot Cap-1 Maneuver | 43 | 343 | _ | _ | 431 | _ |
| Stage 1 | 164 | - | _ | _ | TJ I | _ |
| Stage 2 | 523 | - | - | - | | - |
| | 023 | - | | - | - | |
| Platoon blocked, % | 40 | 0.40 | - | - | 101 | - |
| Mov Cap-1 Maneuver | 43 | 343 | - | - | 431 | - |
| Mov Cap-2 Maneuver | 43 | - | - | - | - | - |
| Stage 1 | 164 | - | - | - | - | - |
| Stage 2 | 523 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 97.4 | | 0 | | 0 | |
| HCM LOS | 77.4 F | | U | | U | |
| TICIVI LOS | ' | | | | | |
| | | | | | | |
| Minor Lane/Major Mvn | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | - | 48 | 431 | - |
| HCM Lane V/C Ratio | | - | _ | 0.195 | - | - |
| HCM Control Delay (s) | | - | - | 97.4 | 0 | - |
| HCM Lane LOS | | _ | _ | F | A | _ |
| HCM 95th %tile Q(veh |) | _ | - | 0.6 | 0 | - |
| HOW FORT FORTIE CE (VEH | / | | | 0.0 | U | |

Synchro 9 Report Page 3 Baseline

| Intersection | | | | | | |
|------------------------|-----------|----------|--------|-----------|--------|------|
| | 0 | | | | | |
| Int Delay, s/veh | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | N/ | | Λħ | | | 4₽ |
| Traffic Vol, veh/h | 1 | 1 | 1482 | 2 | 1 | 1134 |
| Future Vol, veh/h | 1 | 1 | 1482 | 2 | 1 | 1134 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storag | | - | 0 | - | - | 0 |
| Grade, % | 0 | _ | 0 | _ | _ | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 0 | 0 | 2 | 0 | 0 | 2 |
| Mvmt Flow | 1 | 1 | 1594 | 2 | 1 | 1219 |
| IVIVIIIL I IOW | | | 1374 | 2 | | 1217 |
| | | | | | | |
| Major/Minor | Minor1 | <u> </u> | Major1 | N | Major2 | |
| Conflicting Flow All | 2207 | 798 | 0 | 0 | 1596 | 0 |
| Stage 1 | 1595 | - | - | - | - | - |
| Stage 2 | 612 | - | _ | _ | - | _ |
| Critical Hdwy | 6.8 | 6.9 | _ | _ | 4.1 | _ |
| Critical Hdwy Stg 1 | 5.8 | - | _ | _ | - | _ |
| Critical Hdwy Stg 2 | 5.8 | _ | _ | _ | _ | _ |
| Follow-up Hdwy | 3.5 | 3.3 | _ | _ | 2.2 | _ |
| Pot Cap-1 Maneuver | 39 | 333 | - | | 416 | |
| Stage 1 | 155 | - | _ | | 410 | |
| | 509 | - | - | - | - | - |
| Stage 2 | 509 | - | - | - | - | - |
| Platoon blocked, % | 20 | 222 | - | - | 41/ | - |
| Mov Cap-1 Maneuver | 39 | 333 | - | - | 416 | - |
| Mov Cap-2 Maneuver | 39 | - | - | - | - | - |
| Stage 1 | 155 | - | - | - | - | - |
| Stage 2 | 505 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| | 58.1 | | 0 | | 0 | |
| HCM LOS | 58.1 F | | U | | U | |
| HCM LOS | F | | | | | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | _ | _ | | 416 | _ |
| HCM Lane V/C Ratio | | _ | | | 0.003 | _ |
| HCM Control Delay (s |) | - | _ | = 0 4 | 13.7 | 0 |
| HCM Lane LOS | | _ | _ | 50.1 F | В | A |
| HCM 95th %tile Q(ver | 1) | | - | 0.1 | 0 | - A |
| | IJ | - | - | U. I | U | - |

| Intersection | |
|--|------|
| Int Delay, s/veh 0.2 | |
| Movement EBL EBT EBR WBL WBT WBR NBU NBL NBT NBR SBL SBT | SBR |
| Lane Configurations 4 4 1 1 | |
| Traffic Vol, veh/h 0 0 0 3 0 1 0 1 1481 0 1 1107 | 0 |
| Future Vol, veh/h 0 0 0 3 0 1 0 1 1481 0 1 1107 | 0 |
| Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0 | 0 |
| · · · · · · · · · · · · · · · · · · · | Free |
| | Vone |
| Storage Length 350 315 - | - |
| Veh in Median Storage, # - 0 0 0 | - |
| Grade, % - 0 0 0 | - |
| Peak Hour Factor 94 94 94 94 94 94 94 94 94 94 94 94 | 94 |
| Heavy Vehicles, % 0 0 0 0 0 0 2 0 2 0 2 | 0 |
| Mvmt Flow 0 0 0 3 0 1 0 1 1576 0 1 1178 | 0 |
| | |
| Major/Minor Minor2 Minor1 Major1 Major2 | |
| Conflicting Flow All 1970 2758 589 2169 2758 788 859 1178 0 0 1576 0 | 0 |
| Stage 1 1180 1180 - 1578 1578 | - |
| Stage 2 790 1578 - 591 1180 | - |
| Critical Hdwy 7.5 6.5 6.9 7.5 6.5 6.9 6.44 4.1 - 4.1 - | - |
| Critical Hdwy Stg 1 6.5 5.5 - 6.5 5.5 | - |
| Critical Hdwy Stg 2 6.5 5.5 - 6.5 5.5 | _ |
| Follow-up Hdwy 3.5 4 3.3 3.5 4 3.3 2.52 2.2 2.2 - | - |
| Pot Cap-1 Maneuver 38 20 457 27 20 338 409 600 423 - | 0 |
| Stage 1 205 266 - 116 171 | 0 |
| Stage 2 354 171 - 465 266 | 0 |
| Platoon blocked, % | |
| Mov Cap-1 Maneuver 38 20 457 27 20 338 600 600 423 - | - |
| Mov Cap-2 Maneuver 38 20 - 27 20 | - |
| Stage 1 205 265 - 116 171 | - |
| Stage 2 353 171 - 464 265 | - |
| | |
| Approach EB WB NB SB | |
| HCM Control Delay, s 0 121.6 0 0 | |
| HCM LOS F | |
| | |
| Minor Lane/Major Mvmt NBU NBL NBT NBR EBLn1WBLn1 SBL SBT | |
| Capacity (veh/h) 600 600 35 423 - | |
| HCM Lane V/C Ratio - 0.002 0.122 0.003 - | |
| 110111 Editio 1/10 11ditio 0.002 0.1122 0.000 | |
| HCM Control Delay (s) 11 11 0 121.6 13.5 - | |
| | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | WB | WB | NB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|------|------|-----|------|------|-----|------|------|--|
| Directions Served | LT | TR | LT | R | L | T | TR | L | Т | TR | |
| Maximum Queue (ft) | 157 | 160 | 186 | 321 | 200 | 1110 | 1092 | 175 | 526 | 446 | |
| Average Queue (ft) | 94 | 80 | 102 | 151 | 31 | 862 | 825 | 172 | 332 | 226 | |
| 95th Queue (ft) | 155 | 157 | 164 | 253 | 113 | 1236 | 1195 | 184 | 538 | 387 | |
| Link Distance (ft) | 122 | 122 | 2737 | 2737 | | 1058 | 1058 | | 2319 | 2319 | |
| Upstream Blk Time (%) | 8 | 4 | | | | 11 | 6 | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | 0 | 0 | | | | |
| Storage Bay Dist (ft) | | | | | 200 | | | 175 | | | |
| Storage Blk Time (%) | | | | | 0 | 69 | | 47 | 30 | | |
| Queuing Penalty (veh) | | | | | 0 | 13 | | 177 | 97 | | |

Intersection: 2: US 301 & Back St

| Movement | WB |
|-----------------------|------|
| Directions Served | LR |
| Maximum Queue (ft) | 53 |
| Average Queue (ft) | 10 |
| 95th Queue (ft) | 35 |
| Link Distance (ft) | 1114 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 3: US 301 & Caroline St

| Movement | WB |
|-----------------------|------|
| Directions Served | LR |
| Maximum Queue (ft) | 31 |
| Average Queue (ft) | 3 |
| 95th Queue (ft) | 19 |
| Link Distance (ft) | 1181 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 4: US 301 & Walsingham Rd

| Movement | WB |
|-----------------------|------|
| Directions Served | LTR |
| Maximum Queue (ft) | 31 |
| Average Queue (ft) | 3 |
| 95th Queue (ft) | 16 |
| Link Distance (ft) | 1936 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Network Summary

Network wide Queuing Penalty: 287

APPENDIX C Future No Build Conditions Analysis



January 7, 2019 Project #: 23369

Stephen Haynes VDOT Fredericksburg District 87 Deacon Road Fredericksburg, Virginia 22405

RE: Task Order 18 - Port Royal Arterial Preservation Study - Future Conditions Growth Rate

Dear Stephen,

In accordance with Task 2 of the Study Scope for the Port Royal Arterial Preservation Study, Kittelson and Associates, Inc. (Kittelson) has identified a proposed growth rate to establish design year turning movement counts. The following materials were reviewed as part of this effort:

- US 301 / Route 207 Arterial Preservation Plan (2018)
- Nice Bridge Improvement Project Study (2012)
- VDOT's 2017 AADT Data for Caroline County
- VDOT's 2045 AADT projections from the Statewide Planning System GIS dataset
- Weekday a.m. peak, p.m. peak, Friday afternoon, and Sunday afternoon traffic counts collected in Fall 2018 at the intersection of Route 301 and Route 17

Kittelson recommends the following compound growth rates for use in the design year operational analysis for the Port Royal Arterial Preservation Study:

Route 301: 1.3%

Route 17: 1%

The following sections outline findings used to inform the proposed growth rates.

Design Year

Consistent with the Study Scope for the Port Royal Arterial Preservation Study, a future year operational analysis of 2035 conditions will be conducted.

US 301 / Route 207 Arterial Preservation Plan

The US 301/ Route 207 Arterial Preservation Plan used an annualized background growth rate of 4% in a future year operational analysis of 2040 conditions. The growth rate was developed based on an assessment of historic annual average traffic volume estimates and travel patterns, the Fredericksburg

area travel demand model, socio-economic data, the Nice Bridge environmental assessment, and stakeholder feedback.

Nice Bridge Improvement Project Study

The Nice Bridge Improvement Project Study used an annualized background growth rate of approximately 3% in its future year operational analysis of 2030 conditions. The growth rate was developed using the regional Integrated Travel Demand Model developed for the Maryland Transportation Authority, which incorporates data from the Metropolitan Washington Council of Government Model (MWCOG), Baltimore Metropolitan Council's Regional Model (BMC), Delaware Department of Transportation's Statewide Model (DelDOT), and the Fredericksburg Area MPO model (FAMPO).

Results from the future conditions analysis show that in 2030, the Nice Bridge is expected to carry more than double the vehicle volume experienced in 2006.

Caroline County 2017 AADT Data

AADT data for Route 301 and Route 17 from VDOT's 2017 AADT data for Caroline County was reviewed. Table 1 outlines the 2017 AADT data for the study corridor.

Table 1 Caroline County AADT Data (2017)

| Roadway Segment | AADT | Proportion of Reported AADT |
|-----------------------------|--------|-----------------------------|
| Route 301 north of Route 17 | 14,637 | 42% |
| Route 301 south of Route 17 | 9,313 | 27% |
| Route 17 east of Route 301 | 5,190 | 14% |
| Route 17 west of Route 301 | 5,883 | 17% |

Caroline County 2045 AADT Data

2045 AADT estimates from VDOT's Statewide Planning System Geographic Information System (GIS) dataset was also reviewed. Table 2 outlines the 2045 AADT data for the study corridor and shows how it differs from 2017 data.

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Table 2 Caroline County Projected AADT Data (2045)

| Roadway Segment | AADT | Proportion of Reported AADT | Annualized Growth Rate |
|-----------------------------|--------|--------------------------------|---------------------------|
| Route 301 north of Route 17 | 16,115 | 40% | 0.3% |
| Route 301 south of Route 17 | 10,205 | 24% | 0.3% |
| Route 17 east of Route 301 | 6,327 | 16% | 0.7% |
| Route 17 west of Route 301 | 8,040 | 20% | 1.1% |

As shown in Table 2, the annualized growth rates reported in VDOT's Statewide Planning System differ from the annualized growth rates applied in the US 301 / Route 207 Arterial Preservation Plan and Nice Bridge Improvement Project Study.

Traffic Counts

Weekday a.m. peak, p.m. peak, Friday afternoon, and Sunday afternoon traffic counts were collected at the intersection of Route 301 and Route 17 in October and November 2018. The Sunday afternoon traffic counts were collected on the Sunday immediately following Thanksgiving to use holiday traffic as a proxy for summer beach traffic.¹ These counts were reviewed to see if there were any significant proportional differences in volume distribution across the four main time periods. Table 3 compares the proportional distribution of existing conditions volumes.

Table 3 Route 301 and Route 17 Traffic Count Distribution (2018)

| | Proportion of Reported Volumes | | | | | | | | |
|-----------------------------|--------------------------------|-------------------|---------------------|---------------------|--|--|--|--|--|
| Roadway Segment | A.M. Peak Hour | P.M. Peak Hour | Friday Afternoon | Sunday Afternoon | | | | | |
| Route 301 north of Route 17 | 40% | 42% | 42% | 44% | | | | | |
| Route 301 south of Route 17 | 26% | 25% | 26% | 33% | | | | | |
| Route 17 east of Route 301 | 17% | 17% | 18% | 16% | | | | | |
| Route 17 west of Route 301 | 17% | 16% | 14% | 7% | | | | | |

¹ Summer beach traffic was anecdotally reported to constrain mobility and access on Route 301 at the Study kick-off meeting in October 2018 and Community Listening Session in November 2018.

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As shown in Table 3, existing conditions volumes share a common proportional distribution across the A.M. peak hour, P.M. peak hour, and Friday afternoon time periods. Proportionally distributed volumes are 7 percent higher on Route 301 south of Route 17 and 7 percent lower on Route 17 west of Route 301 during the Sunday afternoon time period.

Volumes on Route 301 make up between 66 percent and 77 percent of volumes entering and exiting the Route 301 and Route 17 intersection. Volumes on Route 17 make up between 23 percent and 34 percent.

Growth Rate Recommendation

After considering the aggressive growth rates proposed in the US 301 / Route 207 Arterial Preservation Plan and Nice Bridge Study in contrast with the conservative growth rates reported in VDOT's Statewide Planning System data, Kittelson recommends moderate compound growth rates for Route 301 and Route 17. A slightly higher growth rate was assigned to Route 301 in proportion with the corridor's higher proportion of traffic volumes:

Route 301: 1.3%Route 17: 1%

While the US 301 / Route 207 Arterial Preservation Plan developed a growth rate for a 42-mile corridor, the Port Royal Arterial Preservation Study focuses on one signalized intersection and approximately two miles of roadway on Route 301 and Route 17. The more targeted nature of the Port Royal Study merits more targeted growth rates that reflect average daily conditions (as opposed to periodic extremes).

These growth rates are proposed to be applied in the future operational analysis of 2035 conditions at the Port Royal Arterial Preservation Study intersections.

We trust this growth rate assessment provides the necessary information for VDOT to review and approve the proposed linear growth rates for the Port Royal Arterial Preservation Study. Please contact us at (410) 347-9610 with any questions.

Sincerely,

KITTELSON & ASSOCIATES, INC.

Yolanda Takesian Associate Planner

Ed Myers, P.E. Senior Principal Engineer

Kittelson & Associates, Inc. Reston, Virginia

Weekday AM Peak

| | → | ← | • | • | † | \ | Ţ |
|-------------------------|----------|------|------|------|----------|----------|------|
| Lane Group | EBT | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Group Flow (vph) | 306 | 179 | 150 | 12 | 488 | 101 | 515 |
| v/c Ratio | 0.59 | 0.59 | 0.23 | 0.10 | 0.60 | 0.47 | 0.36 |
| Control Delay | 41.3 | 46.0 | 4.8 | 49.4 | 33.5 | 48.0 | 18.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 41.3 | 46.0 | 4.8 | 49.4 | 33.5 | 48.0 | 18.0 |
| Queue Length 50th (ft) | 81 | 93 | 0 | 6 | 121 | 53 | 85 |
| Queue Length 95th (ft) | 160 | 199 | 41 | 29 | 224 | 129 | 194 |
| Internal Link Dist (ft) | 118 | 2711 | | | 1025 | | 2313 |
| Turn Bay Length (ft) | | | | 200 | | 175 | |
| Base Capacity (vph) | 904 | 514 | 822 | 284 | 1386 | 446 | 1804 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.35 | 0.18 | 0.04 | 0.35 | 0.23 | 0.29 |
| Intersection Summary | | | | | | | |

Synchro 9 Report Page 1 Baseline

| | ۶ | → | • | • | — | 4 | 1 | † | / | / | + | ✓ |
|----------------------------------|-----------------------------|----------|-------|-------|-----------|------------|---------|------------|----------|----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4î | | | 4 | 7 | Ť | ∱ β | | Ť | ∱ β | |
| Traffic Volume (vph) | 181 | 69 | 25 | 45 | 116 | 135 | 11 | 412 | 27 | 91 | 361 | 103 |
| Future Volume (vph) | 181 | 69 | 25 | 45 | 116 | 135 | 11 | 412 | 27 | 91 | 361 | 103 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.7 | | | 5.8 | 5.8 | 4.5 | 6.5 | | 6.1 | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 1.00 | 1.00 | 1.00 | 0.95 | | 1.00 | 0.95 | |
| Frt | | 0.99 | | | 1.00 | 0.85 | 1.00 | 0.99 | | 1.00 | 0.97 | |
| Flt Protected | | 0.97 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | | 3194 | | | 1835 | 1482 | 1583 | 3100 | | 1612 | 3185 | |
| Flt Permitted | | 0.97 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | | 3194 | | | 1835 | 1482 | 1583 | 3100 | | 1612 | 3185 | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 201 | 77 | 28 | 50 | 129 | 150 | 12 | 458 | 30 | 101 | 401 | 114 |
| RTOR Reduction (vph) | 0 | 6 | 0 | 0 | 0 | 98 | 0 | 4 | 0 | 0 | 17 | 0 |
| Lane Group Flow (vph) | 0 | 300 | 0 | 0 | 179 | 52 | 12 | 484 | 0 | 101 | 498 | 0 |
| Heavy Vehicles (%) | 4% | 16% | 14% | 5% | 1% | 9% | 14% | 16% | 6% | 12% | 12% | 1% |
| Turn Type | Split | NA | | Split | NA | pt+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 3 | 3 | | 4 | 4 | 4 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | | | | | | | | | | | | |
| Actuated Green, G (s) | | 14.5 | | | 14.8 | 32.5 | 1.2 | 27.7 | | 11.9 | 40.0 | |
| Effective Green, g (s) | | 14.5 | | | 14.8 | 32.5 | 1.2 | 27.7 | | 11.9 | 40.0 | |
| Actuated g/C Ratio | | 0.16 | | | 0.16 | 0.35 | 0.01 | 0.30 | | 0.13 | 0.43 | |
| Clearance Time (s) | | 5.7 | | | 5.8 | | 4.5 | 6.5 | | 6.1 | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | | 497 | | | 292 | 517 | 20 | 923 | | 206 | 1369 | |
| v/s Ratio Prot | | c0.09 | | | c0.10 | 0.04 | 0.01 | c0.16 | | c0.06 | 0.16 | |
| v/s Ratio Perm | | | | | | | | | | | | |
| v/c Ratio | | 0.60 | | | 0.61 | 0.10 | 0.60 | 0.52 | | 0.49 | 0.36 | |
| Uniform Delay, d1 | | 36.6 | | | 36.4 | 20.4 | 45.7 | 27.2 | | 37.7 | 17.9 | |
| Progression Factor | | 1.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | | 2.1 | | | 3.8 | 0.1 | 40.2 | 1.2 | | 1.8 | 0.4 | |
| Delay (s) | | 38.6 | | | 40.2 | 20.5 | 85.8 | 28.4 | | 39.6 | 18.3 | |
| Level of Service | | D | | | D | С | F | С | | D | В | |
| Approach Delay (s) | | 38.6 | | | 31.2 | | | 29.7 | | | 21.8 | |
| Approach LOS | | D | | | С | | | С | | | С | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | HCM 2000 Control Delay 28.8 | | 28.8 | Н | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capacity | y ratio | | 0.55 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 93.0 | S | um of los | t time (s) | | | 24.1 | | | |
| Intersection Capacity Utilizatio | n | | 50.9% | IC | CU Level | of Service | | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | | | | | |
|-------------------------|-----------|----------|------------|--------------|----------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | N/ | | ∱ β | | | 41₽ |
| Traffic Vol, veh/h | 4 | 2 | 832 | 2 | 2 | 545 |
| Future Vol, veh/h | 4 | 2 | 832 | 2 | 2 | 545 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | | - | 0 | - | - | 0 |
| Grade, % | 0 | _ | 0 | _ | - | 0 |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 0 | 0 | 11 | 0 | 0 | 9 |
| Mvmt Flow | 4 | 2 | 924 | 2 | 2 | 606 |
| IVIVIIIL I IOVV | 4 | 2 | 724 | 2 | 2 | 000 |
| | | | | | | |
| Major/Minor | Minor1 | <u> </u> | /lajor1 | <u> </u> | Major2 | |
| Conflicting Flow All | 1233 | 463 | 0 | 0 | 927 | 0 |
| Stage 1 | 926 | - | - | - | - | - |
| Stage 2 | 307 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | _ | _ | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | _ | _ | - | _ |
| Critical Hdwy Stg 2 | 5.8 | _ | _ | _ | _ | _ |
| Follow-up Hdwy | 3.5 | 3.3 | _ | _ | 2.2 | _ |
| Pot Cap-1 Maneuver | 172 | 551 | - | - | 746 | |
| Stage 1 | 351 | - | _ | _ | 740 | |
| | 725 | - | - | - | - | - |
| Stage 2 | 725 | - | - | - | - | - |
| Platoon blocked, % | 171 | FF1 | - | - | 74/ | - |
| Mov Cap-1 Maneuver | 171 | 551 | - | - | 746 | - |
| Mov Cap-2 Maneuver | 171 | - | - | - | - | - |
| Stage 1 | 351 | - | - | - | - | - |
| Stage 2 | 722 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| | 21.7 | | 0 | | 0 | |
| HCM LOS | 21.7 C | | U | | U | |
| HCM LOS | C | | | | | |
| | | | | | | |
| Minor Lane/Major Mvn | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | _ | | 222 | 746 | _ |
| HCM Lane V/C Ratio | | _ | _ | | 0.003 | _ |
| HCM Control Delay (s |) | _ | _ | | 9.8 | 0 |
| HCM Lane LOS | | _ | _ | C C | 7.0 A | A |
| HCM 95th %tile Q(veh | ,) | | | 0.1 | 0 | |
| HOIVI 93111 %IIIE Q(Ver | IJ | - | - | U. I | U | - |

| Intersection | | | | | | |
|------------------------|--------|----------|------------|-------|---------|------|
| Int Delay, s/veh | 0 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | , A | | ∱ ∱ | | | 41₽ |
| Traffic Vol, veh/h | 0 | 0 | 841 | 0 | 0 | 545 |
| Future Vol, veh/h | 0 | 0 | 841 | 0 | 0 | 545 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storag | | - | 0 | - | _ | 0 |
| Grade, % | 0 | - | 0 | _ | _ | 0 |
| Peak Hour Factor | 91 | 91 | 91 | 91 | 91 | 91 |
| Heavy Vehicles, % | 0 | 0 | 10 | 0 | 0 | 10 |
| Mvmt Flow | 0 | 0 | 924 | 0 | 0 | 599 |
| IVIVIIIL I IOVV | U | U | 724 | U | U | 377 |
| | | | | | | |
| Major/Minor | Minor1 | <u> </u> | /lajor1 | ٨ | /lajor2 | |
| Conflicting Flow All | 1223 | 462 | 0 | 0 | 924 | 0 |
| Stage 1 | 924 | - | - | - | - | - |
| Stage 2 | 299 | - | _ | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | _ | _ | - | _ |
| Critical Hdwy Stg 2 | 5.8 | _ | _ | - | _ | _ |
| Follow-up Hdwy | 3.5 | 3.3 | _ | _ | 2.2 | _ |
| Pot Cap-1 Maneuver | 175 | 552 | _ | _ | 748 | _ |
| Stage 1 | 352 | - | | _ | 740 | _ |
| Stage 2 | 732 | _ | | | _ | |
| | 132 | - | - | - | - | |
| Platoon blocked, % | 175 | FF0 | - | - | 740 | - |
| Mov Cap-1 Maneuver | 175 | 552 | - | - | 748 | - |
| Mov Cap-2 Maneuver | 175 | - | - | - | - | - |
| Stage 1 | 352 | - | - | - | - | - |
| Stage 2 | 732 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | | | 0 | | 0 | |
| HCM LOS | | | U | | U | |
| UCINI LOS | А | | | | | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | _ | - | 748 | - |
| HCM Lane V/C Ratio | | | _ | - | - | _ |
| HCM Control Delay (s |) | - | - | 0 | 0 | - |
| HCM Lane LOS | , | _ | _ | A | A | _ |
| HCM 95th %tile Q(vel | 1) | _ | _ | - | 0 | |
| 110M 73M 70ME Q(VEI | 1) | _ | - | _ | U | - |

| Intersection | | | | | | | | | | | | | | |
|------------------------|-----------|-----------|------|-----------|--------|-------|---------|------|------------|------|--------|----------|--------|--|
| Int Delay, s/veh | 0 | | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBU | NBL | NBT | NBR | SBL | SBT | SBR | |
| Lane Configurations | LDL | 4 | LDIT | WDL | 4 | WER | t | NUL | ↑ ↑ | Non | Ä | ^ | ODIT | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 823 | 3 | 0 | 548 | 0 | |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 823 | 3 | 0 | 548 | 0 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 023 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free | Free | |
| RT Channelized | Stop - | Stop - | None | 310p - | 310p | None | - | - | - | None | - | - | None | |
| Storage Length | | - | None | - | - | None | _ | 350 | - | None | 315 | - | None - | |
| | - | 0 | - | | 0 | - | | 330 | 0 | - | | 0 | | |
| Veh in Median Storage | :,# - | 0 | - | - | 0 | - | - | | 0 | - | - | 0 | - | |
| Grade, % | - 04 | 0 | - 04 | - 04 | 0 | - 04 | - | - 04 | 0 | - 04 | - 04 | 0 | - 04 | |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 92 | 94 | 94 | 94 | 94 | 94 | 94 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 10 | 0 | 0 | 9 | 0 | |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 876 | 3 | 0 | 583 | 0 | |
| | | | | | | | | | | | | | | |
| | Minor2 | | | Minor1 | | | /lajor1 | | | | Major2 | | | |
| Conflicting Flow All | 1021 | 1462 | 291 | 1168 | 1460 | 439 | 425 | - | 0 | 0 | 879 | 0 | 0 | |
| Stage 1 | 583 | 583 | - | 877 | 877 | - | - | - | - | - | - | - | - | |
| Stage 2 | 438 | 879 | - | 291 | 583 | - | - | - | - | - | - | - | - | |
| Critical Hdwy | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 | 6.44 | - | - | - | 4.1 | - | - | |
| Critical Hdwy Stg 1 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | - | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | - | - | - | - | - | - | |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.52 | - | - | - | 2.2 | - | - | |
| Pot Cap-1 Maneuver | 193 | 130 | 712 | 151 | 130 | 571 | 772 | 0 | - | - | 777 | - | 0 | |
| Stage 1 | 470 | 502 | - | 314 | 369 | - | - | 0 | - | - | - | - | 0 | |
| Stage 2 | 573 | 368 | - | 698 | 502 | - | - | 0 | - | - | - | - | 0 | |
| Platoon blocked, % | | | | | | | | | - | - | | - | | |
| Mov Cap-1 Maneuver | 193 | 130 | 712 | 151 | 130 | 571 | 772 | - | - | - | 777 | - | - | |
| Mov Cap-2 Maneuver | 193 | 130 | - | 151 | 130 | - | - | - | - | - | - | - | - | |
| Stage 1 | 470 | 502 | - | 314 | 369 | - | - | - | - | - | _ | - | - | |
| Stage 2 | 572 | 368 | - | 698 | 502 | - | - | - | - | - | - | - | - | |
| Ü | | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | | SB | | | |
| HCM Control Delay, s | 0 | | | 11.3 | | | 0 | | | | 0 | | | |
| HCM LOS | A | | | В | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | ıt | NBU | NBT | NBR I | EBLn1V | VBLn1 | SBL | SBT | | | | | | |
| Capacity (veh/h) | | 772 | - | - | - | 571 | 777 | - | | | | | | |
| HCM Lane V/C Ratio | | - | _ | _ | _ | 0.002 | - | _ | | | | | | |
| HCM Control Delay (s) | | 0 | _ | _ | 0 | 11.3 | 0 | - | | | | | | |
| HCM Lane LOS | | A | _ | _ | A | В | A | _ | | | | | | |
| HCM 95th %tile Q(veh) | | 0 | _ | _ | - | 0 | 0 | - | | | | | | |
| JOINT JOHN JOHN Q(VEH) | | U | | | | U | U | _ | | | | | | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | B14 | WB | WB | NB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|------|------|------|-----|------|------|-----|------|------|--|
| Directions Served | LT | TR | T | LT | R | L | T | TR | L | T | TR | |
| Maximum Queue (ft) | 194 | 111 | 80 | 214 | 191 | 64 | 224 | 166 | 157 | 157 | 222 | |
| Average Queue (ft) | 132 | 50 | 10 | 104 | 72 | 13 | 139 | 94 | 73 | 78 | 100 | |
| 95th Queue (ft) | 202 | 97 | 45 | 185 | 138 | 45 | 206 | 169 | 131 | 139 | 172 | |
| Link Distance (ft) | 122 | 122 | 2207 | 2737 | 2737 | | 1058 | 1058 | | 2319 | 2319 | |
| Upstream Blk Time (%) | 14 | 0 | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | | | | | | |
| Storage Bay Dist (ft) | | | | | | 200 | | | 175 | | | |
| Storage Blk Time (%) | | | | | | | 1 | | 0 | 0 | | |
| Queuing Penalty (veh) | | | | | | | 0 | | 0 | 0 | | |

Intersection: 2: US 301 & Back St

| Movement | WB |
|-----------------------|------|
| Directions Served | LR |
| Maximum Queue (ft) | 31 |
| Average Queue (ft) | 2 |
| 95th Queue (ft) | 15 |
| Link Distance (ft) | 1114 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 3: US 301 & Caroline St

| Movement |
|-----------------------|
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (%) |
| Queuing Penalty (veh) |

Intersection: 4: US 301 & Walsingham Rd

| Movement | | |
|-----------------------|--|--|
| Directions Served | | |
| Maximum Queue (ft) | | |
| Average Queue (ft) | | |
| 95th Queue (ft) | | |
| Link Distance (ft) | | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| | | |

Network Summary

Network wide Queuing Penalty: 0

Weekday PM Peak

| | → | ← | • | 4 | † | / | ↓ |
|-------------------------|----------|----------|------|------|----------|----------|----------|
| Lane Group | EBT | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Group Flow (vph) | 270 | 134 | 104 | 14 | 553 | 333 | 972 |
| v/c Ratio | 0.60 | 0.60 | 0.16 | 0.12 | 0.67 | 0.79 | 0.58 |
| Control Delay | 49.3 | 56.0 | 4.9 | 54.3 | 39.2 | 54.4 | 20.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 49.3 | 56.0 | 4.9 | 54.3 | 39.2 | 54.4 | 20.1 |
| Queue Length 50th (ft) | 87 | 84 | 0 | 9 | 169 | 206 | 186 |
| Queue Length 95th (ft) | 152 | 166 | 36 | 33 | 263 | #464 | 386 |
| Internal Link Dist (ft) | 118 | 2711 | | | 1025 | | 2313 |
| Turn Bay Length (ft) | | | | 200 | | 175 | |
| Base Capacity (vph) | 801 | 390 | 654 | 273 | 1173 | 420 | 1674 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.34 | 0.34 | 0.16 | 0.05 | 0.47 | 0.79 | 0.58 |
| Intersection Summary | | | | | | | |

⁹⁵th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Synchro 9 Report Baseline Page 1

| | ۶ | → | • | • | — | • | 1 | † | / | / | ↓ | ✓ |
|----------------------------------|---------|----------|-------|-------|-----------|------------|---------|------------|----------|----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 4î. | | | ર્ન | 7 | ¥ | ∱ } | | J. | ∱ } | |
| Traffic Volume (vph) | 107 | 141 | 17 | 23 | 109 | 102 | 14 | 507 | 35 | 326 | 641 | 312 |
| Future Volume (vph) | 107 | 141 | 17 | 23 | 109 | 102 | 14 | 507 | 35 | 326 | 641 | 312 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.7 | | | 5.8 | 5.8 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 1.00 | 1.00 | 1.00 | 0.95 | | 1.00 | 0.95 | |
| Frt | | 0.99 | | | 1.00 | 0.85 | 1.00 | 0.99 | | 1.00 | 0.95 | |
| Flt Protected | | 0.98 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | | 3364 | | | 1651 | 1404 | 1805 | 3112 | | 1687 | 3187 | |
| Flt Permitted | | 0.98 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | | 3364 | | | 1651 | 1404 | 1805 | 3112 | | 1687 | 3187 | |
| Peak-hour factor, PHF | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Adj. Flow (vph) | 109 | 144 | 17 | 23 | 111 | 104 | 14 | 517 | 36 | 333 | 654 | 318 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 0 | 59 | 0 | 4 | 0 | 0 | 34 | 0 |
| Lane Group Flow (vph) | 0 | 267 | 0 | 0 | 134 | 45 | 14 | 549 | 0 | 333 | 938 | 0 |
| Heavy Vehicles (%) | 4% | 4% | 7% | 5% | 16% | 15% | 0% | 15% | 13% | 7% | 11% | 1% |
| Turn Type | Split | NA | | Split | NA | pt+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 3 | 3 | | 4 | 4 | 4 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | | | | | | | | | | | | |
| Actuated Green, G (s) | | 13.9 | | | 14.1 | 45.9 | 2.7 | 30.4 | | 26.0 | 53.7 | |
| Effective Green, g (s) | | 13.9 | | | 14.1 | 45.9 | 2.7 | 30.4 | | 26.0 | 53.7 | |
| Actuated g/C Ratio | | 0.13 | | | 0.13 | 0.43 | 0.03 | 0.28 | | 0.24 | 0.50 | |
| Clearance Time (s) | | 5.7 | | | 5.8 | | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | | 437 | | | 217 | 602 | 45 | 884 | | 410 | 1600 | |
| v/s Ratio Prot | | c0.08 | | | c0.08 | 0.03 | 0.01 | 0.18 | | c0.20 | c0.29 | |
| v/s Ratio Perm | | | | | | | | | | | | |
| v/c Ratio | | 0.61 | | | 0.62 | 0.07 | 0.31 | 0.62 | | 0.81 | 0.59 | |
| Uniform Delay, d1 | | 43.9 | | | 43.9 | 18.0 | 51.2 | 33.2 | | 38.1 | 18.8 | |
| Progression Factor | | 1.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | | 2.4 | | | 5.1 | 0.1 | 3.9 | 2.1 | | 11.6 | 1.0 | |
| Delay (s) | | 46.4 | | | 49.0 | 18.0 | 55.1 | 35.4 | | 49.8 | 19.7 | |
| Level of Service | | D | | | D | В | Е | D | | D | В | |
| Approach Delay (s) | | 46.4 | | | 35.5 | | | 35.9 | | | 27.4 | |
| Approach LOS | | D | | | D | | | D | | | С | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 32.4 | Н | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capacity | y ratio | | 0.68 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 106.9 | | um of los | ٠, | | | 22.5 | | | |
| Intersection Capacity Utilizatio | n | | 66.5% | IC | CU Level | of Service |) | | С | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | | | | | |
|------------------------|-----------|------|------------|-------|---------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | · Y | | ∱ β | | | 41₽ |
| Traffic Vol, veh/h | 1 | 2 | 781 | 8 | 2 | 1315 |
| Future Vol, veh/h | 1 | 2 | 781 | 8 | 2 | 1315 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 0 | 0 | 13 | 13 | 0 | 7 |
| Mymt Flow | 1 | 2 | 840 | 9 | 2 | 1414 |
| WWW. TOW | • | _ | 010 | , | _ | |
| | | | | | | |
| | Minor1 | | /lajor1 | N | /lajor2 | |
| Conflicting Flow All | 1555 | 424 | 0 | 0 | 848 | 0 |
| Stage 1 | 844 | - | - | - | - | - |
| Stage 2 | 711 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | _ | - | _ | _ | _ |
| Critical Hdwy Stg 2 | 5.8 | _ | _ | - | _ | _ |
| Follow-up Hdwy | 3.5 | 3.3 | _ | _ | 2.2 | _ |
| Pot Cap-1 Maneuver | 106 | 584 | _ | _ | 798 | _ |
| Stage 1 | 387 | - | _ | _ | - 70 | _ |
| Stage 2 | 453 | _ | _ | _ | _ | _ |
| Platoon blocked, % | 733 | | | _ | | _ |
| | 105 | 584 | - | - | 798 | - |
| Mov Cap 2 Maneuver | 105 | | - | • | 798 | - |
| Mov Cap-2 Maneuver | | - | - | - | - | - |
| Stage 1 | 387 | - | - | - | - | - |
| Stage 2 | 448 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 20.7 | | 0 | | 0.1 | |
| HCM LOS | 20.7 C | | U | | 0.1 | |
| TIOW LOG | C | | | | | |
| | | NE | NICO | NDL 1 | 05: | 057 |
| Minor Lane/Major Mvn | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | - | | 798 | - |
| HCM Lane V/C Ratio | | - | - | 0.014 | 0.003 | - |
| HCM Control Delay (s) |) | - | - | 20.7 | 9.5 | 0.1 |
| HCM Lane LOS | | - | - | С | Α | Α |
| HCM 95th %tile Q(veh |) | - | - | 0 | 0 | - |
| | • | | | | | |

| Interception | | | | | | |
|-------------------------------|--------|------|---------|--------|--------|------|
| Intersection Int Delay, s/veh | 0 | | | | | |
| | | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | ¥ | | Λħ | | | 4₽ |
| Traffic Vol, veh/h | 0 | 2 | 755 | 1 | 1 | 1295 |
| Future Vol, veh/h | 0 | 2 | 755 | 1 | 1 | 1295 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | , # 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 0 | 0 | 13 | 0 | 0 | 8 |
| Mvmt Flow | 0 | 2 | 812 | 1 | 1 | 1392 |
| WWW. TOW | U | _ | 012 | • | • | 1072 |
| | | | | | | |
| | Minor1 | | /lajor1 | | Major2 | |
| Conflicting Flow All | 1510 | 406 | 0 | 0 | 813 | 0 |
| Stage 1 | 812 | - | - | - | - | - |
| Stage 2 | 698 | - | - | - | - | - |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - |
| Critical Hdwy Stg 1 | 5.8 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.8 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.2 | - |
| Pot Cap-1 Maneuver | 113 | 600 | - | - | 823 | - |
| Stage 1 | 402 | _ | - | _ | _ | _ |
| Stage 2 | 460 | - | _ | _ | _ | _ |
| Platoon blocked, % | .00 | | _ | _ | | _ |
| Mov Cap-1 Maneuver | 112 | 600 | _ | _ | 823 | _ |
| Mov Cap-1 Maneuver | 112 | - | _ | | - 020 | _ |
| Stage 1 | 402 | | | | _ | |
| Stage 2 | 458 | - | _ | _ | - | |
| Staye 2 | 400 | - | - | - | - | - |
| | | | | | | |
| Approach | WB | | NB | | SB | |
| HCM Control Delay, s | 11 | | 0 | | 0 | |
| HCM LOS | В | | | | | |
| | | | | | | |
| Minor Lanc/Major Mum | + | NBT | NDD | MDI n1 | CDI | SBT |
| Minor Lane/Major Mvm | l | | | WBLn1 | SBL | |
| Capacity (veh/h) | | - | - | 600 | 823 | - |
| HCM Lane V/C Ratio | | - | | 0.004 | | - |
| HCM Control Delay (s) | | - | - | 11 | 9.4 | 0 |
| HCM Lane LOS | | - | - | В | A | Α |
| HCM 95th %tile Q(veh) | | - | - | 0 | 0 | - |

| Intersection | | | | | | | | | | | | | | |
|------------------------|--------|------|-------|---------|-------|--------|---------|----------|------|------|--------|----------|------|--|
| Int Delay, s/veh | 0.1 | | | | | | | | | | | | | |
| <u> </u> | | EDT | EDD | MDI | MOT | WDD | NELL | NDI | NDT | NDD | 0.01 | ODT | 000 | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBU | NBL | NBT | NBR | SBL | SBT | SBR | |
| Lane Configurations | | 4 | | | 4 | | Ð | | ħβ | | Ä | ^ | | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 767 | 1 | 4 | 1292 | 0 | |
| Future Vol, veh/h | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 767 | 1 | 4 | 1292 | 0 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free | Free | |
| RT Channelized | - | - | None | - | - | None | - | - | - | None | - | - | None | |
| Storage Length | - | - | - | - | - | - | - | 350 | - | - | 315 | - | - | |
| Veh in Median Storage | 2,# - | 0 | - | - | 0 | - | - | - | 0 | - | - | 0 | - | |
| Grade, % | - | 0 | - | - | 0 | - | - | - | 0 | - | - | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 13 | 0 | 25 | 8 | 0 | |
| Mvmt Flow | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 4 | 834 | 1 | 4 | 1404 | 0 | |
| | | | | | | | | | | | | | | |
| Major/Minor | Minor2 | | N | /linor1 | | Λ | /lajor1 | | | | Major2 | | | |
| | | 2254 | 702 | 1554 | 2256 | | | 1404 | 0 | 0 | 835 | ^ | ^ | |
| Conflicting Flow All | 1839 | 2256 | | | 2256 | 417 | 1025 | 1404 | | 0 | | 0 | 0 | |
| Stage 1 | 1413 | 1413 | - | 843 | 843 | - | - | - | - | - | - | - | - | |
| Stage 2 | 426 | 843 | - | 711 | 1413 | - | - | - / 1 | - | - | - 1 | - | - | |
| Critical Hdwy | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 | 6.44 | 4.1 | - | - | 4.6 | - | - | |
| Critical Hdwy Stg 1 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | - | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | - | - | - | - | - | - | |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.52 | 2.2 | - | - | 2.45 | - | - | |
| Pot Cap-1 Maneuver | 48 | 42 | 385 | 78 | 42 | 590 | 320 | 493 | - | - | 663 | - | 0 | |
| Stage 1 | 148 | 206 | - | 329 | 382 | - | - | - | - | - | - | - | 0 | |
| Stage 2 | 582 | 382 | - | 395 | 206 | - | - | - | - | - | - | - | 0 | |
| Platoon blocked, % | | | | | | | | | - | - | | - | | |
| Mov Cap-1 Maneuver | 48 | 42 | 385 | 78 | 42 | 590 | 493 | 493 | - | - | 663 | - | - | |
| Mov Cap-2 Maneuver | 48 | 42 | - | 78 | 42 | - | - | - | - | - | - | - | - | |
| Stage 1 | 148 | 205 | - | 329 | 382 | - | - | - | - | - | - | - | - | |
| Stage 2 | 580 | 382 | - | 393 | 205 | - | - | - | - | - | - | - | - | |
| | | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | | SB | | | |
| | | | | 24.8 | | | 0.1 | | | | 0 | | | |
| HCM Control Delay, s | 0 | | | | | | U. I | | | | U | | | |
| HCM LOS | А | | | С | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt | NBU | NBL | NBT | NBR I | EBLn1V | VBLn1 | SBL | SBT | | | | | |
| Capacity (veh/h) | | 493 | 493 | - | - | - | 185 | 663 | - | | | | | |
| HCM Lane V/C Ratio | | - | 0.009 | - | - | - | 0.018 | 0.007 | - | | | | | |
| HCM Control Delay (s) | | 12.4 | 12.4 | - | - | 0 | 24.8 | 10.5 | - | | | | | |
| HCM Lane LOS | | В | В | - | - | Α | С | В | - | | | | | |
| HCM 95th %tile Q(veh |) | 0 | 0 | - | - | - | 0.1 | 0 | - | | | | | |
| | | | | | | | | - | | | | | | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | B14 | WB | WB | NB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|------|------|------|-----|------|------|-----|------|------|--|
| Directions Served | LT | TR | T | LT | R | L | T | TR | L | T | TR | |
| Maximum Queue (ft) | 194 | 160 | 88 | 212 | 147 | 199 | 390 | 408 | 175 | 598 | 600 | |
| Average Queue (ft) | 98 | 70 | 6 | 99 | 49 | 26 | 186 | 148 | 169 | 355 | 284 | |
| 95th Queue (ft) | 158 | 129 | 42 | 177 | 121 | 109 | 304 | 273 | 191 | 574 | 511 | |
| Link Distance (ft) | 122 | 122 | 2207 | 2737 | 2737 | | 1058 | 1058 | | 2319 | 2319 | |
| Upstream Blk Time (%) | 8 | 1 | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | | | | | | |
| Storage Bay Dist (ft) | | | | | | 200 | | | 175 | | | |
| Storage Blk Time (%) | | | | | | 0 | 6 | | 44 | 20 | | |
| Queuing Penalty (veh) | | | | | | 0 | 1 | | 143 | 65 | | |

Intersection: 2: US 301 & Back St

| Movement | WB | SB | |
|-----------------------|------|------|--|
| Directions Served | LR | LT | |
| Maximum Queue (ft) | 31 | 74 | |
| Average Queue (ft) | 2 | 3 | |
| 95th Queue (ft) | 15 | 25 | |
| Link Distance (ft) | 1114 | 1146 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 3: US 301 & Caroline St

| Movement | WB | SB |
|-----------------------|------|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 32 | 31 |
| Average Queue (ft) | 4 | 2 |
| 95th Queue (ft) | 22 | 15 |
| Link Distance (ft) | 1181 | 1222 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 4: US 301 & Walsingham Rd

| Movement | WB | NB | SB |
|-----------------------|------|------|-----|
| Directions Served | LTR | LT | UL |
| Maximum Queue (ft) | 30 | 26 | 24 |
| Average Queue (ft) | 1 | 1 | 3 |
| 95th Queue (ft) | 10 | 9 | 16 |
| Link Distance (ft) | 1936 | 1070 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 315 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Network Summary

Network wide Queuing Penalty: 209

Sunday Worst-Case Scenario

| | - | ← | • | 4 | † | - | ↓ |
|-------------------------|------|------|------|------|----------|-------|----------|
| Lane Group | EBT | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Group Flow (vph) | 288 | 186 | 372 | 28 | 1823 | 511 | 1290 |
| v/c Ratio | 0.65 | 0.69 | 0.48 | 0.25 | 1.59 | 1.33 | 0.72 |
| Control Delay | 56.9 | 62.0 | 11.3 | 61.1 | 301.8 | 204.9 | 28.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 56.9 | 62.0 | 11.3 | 61.1 | 301.8 | 204.9 | 28.1 |
| Queue Length 50th (ft) | 112 | 137 | 67 | 21 | ~1070 | ~515 | 424 |
| Queue Length 95th (ft) | 167 | 224 | 160 | 55 | #1357 | #810 | 630 |
| Internal Link Dist (ft) | 118 | 2711 | | | 1025 | | 2313 |
| Turn Bay Length (ft) | | | | 200 | | 175 | |
| Base Capacity (vph) | 720 | 377 | 774 | 235 | 1143 | 383 | 1789 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.40 | 0.49 | 0.48 | 0.12 | 1.59 | 1.33 | 0.72 |

Intersection Summary

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Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

| | ۶ | → | • | • | ← | • | 4 | † | / | / | Ţ | 1 |
|----------------------------------|---------|-------------|--------|-------|-----------|------------|---------|------------|------|----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | € 1} | | | 4 | 7 | ň | ∱ ∱ | | ň | ∱ β | |
| Traffic Volume (vph) | 77 | 184 | 12 | 23 | 154 | 353 | 27 | 1706 | 26 | 485 | 1137 | 88 |
| Future Volume (vph) | 77 | 184 | 12 | 23 | 154 | 353 | 27 | 1706 | 26 | 485 | 1137 | 88 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.7 | | | 5.8 | 5.8 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 1.00 | 1.00 | 1.00 | 0.95 | | 1.00 | 0.95 | |
| Frt | | 0.99 | | | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | 0.99 | |
| Flt Protected | | 0.99 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | | 3512 | | | 1855 | 1599 | 1805 | 3526 | | 1787 | 3474 | |
| Flt Permitted | | 0.99 | | | 0.99 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | | 3512 | | | 1855 | 1599 | 1805 | 3526 | | 1787 | 3474 | |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 81 | 194 | 13 | 24 | 162 | 372 | 28 | 1796 | 27 | 511 | 1197 | 93 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 0 | 141 | 0 | 1 | 0 | 0 | 3 | 0 |
| Lane Group Flow (vph) | 0 | 285 | 0 | 0 | 186 | 231 | 28 | 1822 | 0 | 511 | 1287 | 0 |
| Heavy Vehicles (%) | 0% | 1% | 0% | 0% | 2% | 1% | 0% | 2% | 12% | 1% | 3% | 0% |
| Turn Type | Split | NA | | Split | NA | pt+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 3 | 3 | | 4 | 4 | 4 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | | | | | | | | | | | | |
| Actuated Green, G (s) | | 15.0 | | | 17.5 | 48.9 | 4.9 | 40.7 | | 25.6 | 61.4 | |
| Effective Green, g (s) | | 15.0 | | | 17.5 | 48.9 | 4.9 | 40.7 | | 25.6 | 61.4 | |
| Actuated g/C Ratio | | 0.12 | | | 0.14 | 0.40 | 0.04 | 0.34 | | 0.21 | 0.51 | |
| Clearance Time (s) | | 5.7 | | | 5.8 | | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | | 434 | | | 267 | 644 | 72 | 1183 | | 377 | 1758 | |
| v/s Ratio Prot | | c0.08 | | | c0.10 | 0.14 | 0.02 | c0.52 | | c0.29 | 0.37 | |
| v/s Ratio Perm | | | | | | | | | | | | |
| v/c Ratio | | 0.66 | | | 0.70 | 0.36 | 0.39 | 1.54 | | 1.36 | 0.73 | |
| Uniform Delay, d1 | | 50.7 | | | 49.4 | 25.3 | 56.7 | 40.3 | | 47.8 | 23.5 | |
| Progression Factor | | 1.00 | | | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | | 3.6 | | | 7.7 | 0.3 | 3.5 | 247.5 | | 176.5 | 2.1 | |
| Delay (s) | | 54.3 | | | 57.1 | 25.6 | 60.2 | 287.8 | | 224.3 | 25.6 | |
| Level of Service | | D | | | Ε | С | Ε | F | | F | С | |
| Approach Delay (s) | | 54.3 | | | 36.1 | | | 284.3 | | | 82.0 | |
| Approach LOS | | D | | | D | | | F | | | F | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 157.8 | Н | CM 2000 | Level of S | Service | | F | | | |
| HCM 2000 Volume to Capacity | y ratio | | 1.21 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 121.3 | S | um of los | t time (s) | | | 22.5 | | | |
| Intersection Capacity Utilizatio | n | | 110.7% | | | of Service | | | Н | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

| Intersection | | | | | | |
|------------------------|------------|------------|------------|------------|---------|--------|
| Int Delay, s/veh | 2.2 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | ₩. | אוטויי | ↑ ↑ | אטוי | ODL | 4₽ |
| Traffic Vol, veh/h | 8 | 1 | 2257 | 10 | 0 | 1721 |
| Future Vol, veh/h | 8 | 1 | 2257 | 10 | 0 | 1721 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | 310p | None | - | None | - | |
| Storage Length | 0 | NONE - | _ | NONE - | - | NOTIC |
| Veh in Median Storag | | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| | 96 | | 96 | 96 | | 96 |
| Peak Hour Factor | | 96 | | | 96 | |
| Heavy Vehicles, % | 0 | 0 | 2 | 0 | 0 | 2 |
| Mvmt Flow | 8 | 1 | 2351 | 10 | 0 | 1793 |
| | | | | | | |
| Major/Minor | Minor1 | N | Major1 | N | /lajor2 | |
| Conflicting Flow All | 3252 | 1181 | 0 | 0 | 2361 | 0 |
| Stage 1 | 2356 | - | - | - | 2301 | - |
| Stage 2 | 896 | _ | _ | _ | _ | _ |
| Critical Hdwy | 6.8 | 6.9 | - | _ | 4.1 | _ |
| Critical Hdwy Stg 1 | 5.8 | 0.7 | _ | _ | 4.1 | _ |
| Critical Hdwy Stg 2 | 5.8 | - | | - | - | |
| | 3.5 | 3.3 | - | - | 2.2 | - |
| Follow-up Hdwy | 3.5 ~ 7 | 3.3 186 | - | - | | |
| Pot Cap-1 Maneuver | | | - | - | 210 | - |
| Stage 1 | 59 | - | - | - | - | - |
| Stage 2 | 364 | - | - | - | - | - |
| Platoon blocked, % | _ | | - | - | | - |
| Mov Cap-1 Maneuver | | 186 | - | - | 210 | - |
| Mov Cap-2 Maneuver | | - | - | - | - | - |
| Stage 1 | 59 | - | - | - | - | - |
| Stage 2 | 364 | - | - | - | - | - |
| | | | | | | |
| Annroach | WB | | NID | | SB | |
| Approach | | | NB | | | |
| HCM Control Delay, s | | | 0 | | 0 | |
| HCM LOS | F | | | | | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | NBT | NBRV | VBLn1 | SBL | SBT |
| Capacity (veh/h) | | - | _ | 8 | 210 | _ |
| HCM Lane V/C Ratio | | _ | _ | 1.172 | - | _ |
| HCM Control Delay (s |) | _ | | 982.3 | 0 | _ |
| HCM Lane LOS | 7 | _ | -ψ - | 702.5 F | A | - |
| HCM 95th %tile Q(vel | 1) | | | 2 | 0 | - |
| | '/ | | | | U | |
| Notes | | | | | | |
| ~: Volume exceeds ca | apacity | \$: De | elay exc | eeds 30 | 00s | +: Com |

| Intersection | | | | | | | | |
|------------------------|----------|--------|----------|----------|--------|--------|----------------------|-------------------------------|
| Int Delay, s/veh | 0.2 | | | | | | | |
| | | WED | NET | NDD | CDI | CDT | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
| Lane Configurations | ¥ | 1 | † | 0 | 4 | 47 | | |
| Traffic Vol, veh/h | 1 | 1 | 2255 | 2 | 1 | | | |
| Future Vol, veh/h | 1 | 1 | 2255 | 2 | 1 | 1726 | | |
| Conflicting Peds, #/hr | | 0 | 0 | 0 | 0 | 0 | | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | | |
| RT Channelized | - | None | - | | - | None | | |
| Storage Length | 0 | - | - | - | - | - | | |
| Veh in Median Storag | | - | 0 | - | - | 0 | | |
| Grade, % | 0 | - | 0 | - | - | 0 | | |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 | | |
| Heavy Vehicles, % | 0 | 0 | 2 | 0 | 0 | 2 | | |
| Mvmt Flow | 1 | 1 | 2425 | 2 | 1 | 1856 | | |
| | | | | | | | | |
| Major/Minor | Minor1 | N | Major1 | | Major2 | | | |
| Conflicting Flow All | 3356 | 1213 | 0 | 0 | 2427 | 0 | | |
| Stage 1 | 2426 | - | - | - | | - | | |
| Stage 2 | 930 | - | - | _ | - | - | | |
| Critical Hdwy | 6.8 | 6.9 | - | - | 4.1 | - | | |
| Critical Hdwy Stg 1 | 5.8 | - | - | _ | - | - | | |
| Critical Hdwy Stg 2 | 5.8 | - | - | _ | - | - | | |
| Follow-up Hdwy | 3.5 | 3.3 | _ | - | 2.2 | _ | | |
| Pot Cap-1 Maneuver | 6 | 177 | _ | - | 198 | - | | |
| Stage 1 | 54 | - | _ | - | - | _ | | |
| Stage 2 | 349 | - | _ | - | - | - | | |
| Platoon blocked, % | 317 | | _ | _ | | _ | | |
| Mov Cap-1 Maneuver | r 6 | 177 | _ | _ | 198 | - | | |
| Mov Cap-2 Maneuver | | - | _ | - | - 170 | _ | | |
| Stage 1 | 54 | _ | _ | _ | _ | _ | | |
| Stage 2 | 349 | _ | _ | _ | _ | _ | | |
| Jugo Z | 317 | | | | | | | |
| Annroach | MD | | ND | | CD | | | |
| Approach | WB | | NB | | SB | | | |
| HCM Control Delay, s | | | 0 | | 0 | | | |
| HCM LOS | F | | | | | | | |
| | | | | | | | | |
| Minor Lane/Major Mv | mt | NBT | NBRV | VBLn1 | SBL | SBT | | |
| Capacity (veh/h) | | - | - | 12 | 198 | - | | |
| HCM Lane V/C Ratio | | - | _ | 0.179 | | - | | |
| HCM Control Delay (s | | - | | 361.8 | 23.3 | 0 | | |
| HCM Lane LOS | | - | - | F | С | A | | |
| HCM 95th %tile Q(ve | h) | - | - | 0.5 | 0 | - | | |
| | | | | | | | | |
| Notes | onocity. | ¢. D | lov ove | nondo 2 | 000 | Corr | outation Not Defined | *. All major valuma in rista |
| ~: Volume exceeds ca | apacity | \$; D€ | eiay exc | ceeds 30 | 005 | +: Com | putation Not Defined | *: All major volume in platoo |

| Intersection | | | | | | | | | | | | | | |
|------------------------|---------|-------|----------|--------|------|--------|----------|---------|------------|--------|--------------|-----------|------|--|
| Int Delay, s/veh | 1.2 | | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBU | NBL | NBT | NBR | SBL | SBT | SBR | |
| Lane Configurations | | 4 | | | 4 | | Ð | | ∱ ∱ | | ă | ^ | | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 2254 | 0 | 1 | 1684 | 0 | |
| Future Vol., veh/h | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 2254 | 0 | 1 | 1684 | 0 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free | Free | |
| RT Channelized | - | _ | None | - | _ | None | _ | - | _ | None | - | _ | None | |
| Storage Length | - | - | _ | _ | - | _ | - | 350 | - | - | 315 | - | _ | |
| Veh in Median Storage | e.# - | 0 | - | _ | 0 | _ | - | - | 0 | - | - | 0 | _ | |
| Grade, % | - | 0 | _ | - | 0 | _ | _ | _ | 0 | _ | - | 0 | _ | |
| Peak Hour Factor | 94 | 94 | 94 | 94 | 94 | 94 | 92 | 94 | 94 | 94 | 94 | 94 | 94 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | |
| Mymt Flow | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 2398 | 0 | 1 | 1791 | 0 | |
| WWW. I IOW | U | U | U | 3 | U | • | U | • | 2370 | U | | 1771 | U | |
| | | | | | | | | | | | | | | |
| Major/Minor | Minor2 | | 1 | Minor1 | | N | /lajor1 | | | | Major2 | | | |
| Conflicting Flow All | 2995 | 4194 | 896 | 3298 | 4194 | 1199 | 1307 | 1791 | 0 | 0 | 2398 | 0 | 0 | |
| Stage 1 | 1794 | 1794 | - | 2400 | 2400 | - | - | - | - | - | - | - | - | |
| Stage 2 | 1201 | 2400 | - | 898 | 1794 | - | - | - | - | - | - | - | - | |
| Critical Hdwy | 7.5 | 6.5 | 6.9 | 7.5 | 6.5 | 6.9 | 6.44 | 4.1 | - | - | 4.1 | - | - | |
| Critical Hdwy Stg 1 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | - | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 6.5 | 5.5 | - | 6.5 | 5.5 | - | - | - | - | - | - | - | - | |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.52 | 2.2 | - | _ | 2.2 | - | _ | |
| Pot Cap-1 Maneuver | 6 | 2 | 287 | 4 | 2 | 181 | 210 | 350 | - | - | 203 | - | 0 | |
| Stage 1 | 85 | 134 | | 35 | 66 | - | | - | - | - | - | - | 0 | |
| Stage 2 | 199 | 66 | _ | 305 | 134 | _ | _ | _ | _ | _ | - | _ | 0 | |
| Platoon blocked, % | | | | 000 | | | | | _ | _ | | _ | | |
| Mov Cap-1 Maneuver | 6 | 2 | 287 | 4 | 2 | 181 | 350 | 350 | _ | _ | 203 | _ | _ | |
| Mov Cap-2 Maneuver | 6 | 2 | - | 4 | 2 | - | - | - | _ | _ | - | _ | _ | |
| Stage 1 | 85 | 133 | _ | 35 | 66 | _ | _ | _ | _ | _ | _ | _ | _ | |
| Stage 2 | 198 | 66 | _ | 303 | 133 | _ | | _ | | | _ | | | |
| Staye 2 | 170 | 00 | - | 303 | 133 | - | - | - | - | - | - | - | - | |
| | | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | | SB | | | |
| HCM Control Delay, s | 0 | | \$ 1 | 1217.7 | | | 0 | | | | 0 | | | |
| HCM LOS | Α | | | F | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| NA: 1 /NA ' NA | | NIDLI | NIDI | NDT | NDD | EDL 4V | /DI 4 | CDI | CDT | | | | | |
| Minor Lane/Major Mvn | nt | NBU | NBL | NBT | MRK | EBLn1V | | SBL | SBT | | | | | |
| Capacity (veh/h) | | 350 | 350 | - | - | - | 5 | 203 | - | | | | | |
| HCM Lane V/C Ratio | | - | 0.003 | - | - | | | 0.005 | - | | | | | |
| HCM Control Delay (s) |) | 15.3 | 15.3 | - | - | | 217.7 | 22.8 | - | | | | | |
| HCM Lane LOS | | С | С | - | - | Α | F | С | - | | | | | |
| HCM 95th %tile Q(veh | 1) | 0 | 0 | - | - | - | 1.2 | 0 | - | | | | | |
| Notes | | | | | | | | | | | | | | |
| | nacity | ¢. D. | Nov ovo | anda 2 |)Oc | u Com | outotic: | Mot D | ofinod | *, AJI | major valuma | in plata | on | |
| ~: Volume exceeds ca | ipacity | ⊅: D€ | elay exc | eeus 3 | 102 | +: Com | pulalior | I NOLD(| ennea | : All | major volume | iii piato | UH | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | B14 | WB | WB | NB | NB | NB | SB | SB | SB | |
|-----------------------|-----|-----|------|------|------|-----|------|------|-----|------|------|--|
| Directions Served | LT | TR | T | LT | R | L | T | TR | L | Т | TR | |
| Maximum Queue (ft) | 192 | 158 | 56 | 246 | 292 | 200 | 1121 | 1121 | 175 | 2341 | 2358 | |
| Average Queue (ft) | 115 | 95 | 2 | 119 | 176 | 43 | 1077 | 1071 | 174 | 1789 | 1750 | |
| 95th Queue (ft) | 165 | 144 | 19 | 204 | 270 | 151 | 1138 | 1154 | 176 | 2970 | 3017 | |
| Link Distance (ft) | 122 | 122 | 2207 | 2737 | 2737 | | 1058 | 1058 | | 2319 | 2319 | |
| Upstream Blk Time (%) | 14 | 4 | | | | | 83 | 78 | | 12 | 12 | |
| Queuing Penalty (veh) | 0 | 0 | | | | | 0 | 0 | | 104 | 101 | |
| Storage Bay Dist (ft) | | | | | | 200 | | | 175 | | | |
| Storage Blk Time (%) | | | | | | 0 | 71 | | 72 | 68 | | |
| Queuing Penalty (veh) | | | | | | 1 | 19 | | 412 | 332 | | |

Intersection: 2: US 301 & Back St

| Movement | WB | SB | SB |
|-----------------------|------|------|------|
| Directions Served | LR | LT | T |
| Maximum Queue (ft) | 52 | 1154 | 1190 |
| Average Queue (ft) | 18 | 483 | 483 |
| 95th Queue (ft) | 50 | 1332 | 1340 |
| Link Distance (ft) | 1114 | 1146 | 1146 |
| Upstream Blk Time (%) | | 4 | 5 |
| Queuing Penalty (veh) | | 37 | 43 |
| Storage Bay Dist (ft) | | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 3: US 301 & Caroline St

| Movement | WB | SB | SB |
|-----------------------|------|------|------|
| Directions Served | LR | LT | T |
| Maximum Queue (ft) | 31 | 1056 | 1100 |
| Average Queue (ft) | 3 | 204 | 209 |
| 95th Queue (ft) | 18 | 787 | 807 |
| Link Distance (ft) | 1181 | 1222 | 1222 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 4: US 301 & Walsingham Rd

| Movement | WB | SB |
|-----------------------|------|-----|
| Directions Served | LTR | UL |
| Maximum Queue (ft) | 52 | 23 |
| Average Queue (ft) | 10 | 1 |
| 95th Queue (ft) | 36 | 10 |
| Link Distance (ft) | 1936 | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | 315 |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Network Summary

Network wide Queuing Penalty: 1049

APPENDIX D Safety Analysis



Crash Map 2013-2017 Route 17 from 0.5 miles south/east of Route 301 to 0.3 miles north/west of Route 17



Crash Map 2013-2017 Route 301 from 0.8 miles s/o Route 17 to 0.9 miles n/o Route 17

Date: 11/26/2018 15:08:36

Report Selection Criteria:

Route Common Name: US-17N Include Both Sides of the Route: Y

Report Date Range: 1/1/2013 Through 12/31/2017

From: 152.41 To: 153.21 Distance in miles: 0.80

Collision Type: Not Provided

Commercial Endorsement Type: Not Provided Commercial Motor Vehicle: Not Provided

Commercial Vehicle Configuration Type: Not Provided

Start Time: Not Provided End Time: Not Provided Days Of Week: Not Provided

Type of Driver Distraction: Not Provided Driver Drinking Type: Not Provided Driver Injury Type: Not Provided Fatal Injury Type: Not Provided First Crash Events: Not Provided

Location of First Harmful Events: Not Provided

Type of Intersection: Not Provided Lighting Conditions: Not Provided Most Harmful Events: Not Provided Passenger Injury Type: Not Provided Relation To Roadway: Not Provided Roadway Surface Type: Not Provided

School Zones: Not Provided Traffic Contol Type: Not Provided

Damage is VDOT Property: Not Provided

Vehicle Body Type: Not Provided Weather Condition: Not Provided Workzone Related: Not Provided

Workzone Workers Present: Not Provided

Jurisdiction Code as supplied by TREDS: Not Provided

Date: 11/26/2018 15:08:36

| Length In Miles: 0.80 | VMT: 4558.73 | | | | Crash Rate: 1 | 192.31 | Death Rate: 0.00 | Injury Rate: 132.22 |
|---------------------------------|--------------|-------|------|-------|---------------|--------|------------------|---------------------|
| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | | |
| Total Crashes | 16 | 4 | 1 | 4 | 2 | 5 | | |
| Fatal Crashes | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Injury Only Crashes | 7 | 1 | 1 | 4 | 1 | 0 | | |
| Prop. Damage Only Crashes | 9 | 3 | 0 | 0 | 1 | 5 | | |
| Property Damage Amount | 81000 | 25500 | 1400 | 30000 | 12500 | 11600 | | |
| Persons Killed | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Persons Injured | 11 | 1 | 1 | 8 | 1 | 0 | | |
| Pedestrians Killed | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Pedestrians Injured | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Collision Type |) | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1. Rear End | 6 | 1 | 0 | 2 | 1 | 2 | | |
| 2. Angle | 7 | 1 | 1 | 2 | 1 | 2 | | |
| 3. Head On | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4. Sideswipe - Same Direction | 1 | 1 | 0 | 0 | 0 | 0 | | |
| 5. Sideswipe - Opposite Directi | on 0 | 0 | 0 | 0 | 0 | 0 | | |
| 6. Fixed Object in Road | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7. Train | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 8. Non-Collision | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 9. Fixed Object - Off Road | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 10. Deer | 2 | 1 | 0 | 0 | 0 | 1 | | |
| 11. Other Animal | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 12. Ped | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 13. Bicyclist | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 14. Motorcyclist | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 15. Backed Into | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 16. Other | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | 16 | 4 | 1 | 4 | 2 | 5 | | |

| | | | | | | | Page: 3 |
|---|-------|------|------|------|------|------|---------|
| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | |
| Vehicle Type | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1. Passenger car | 17 | 3 | 1 | 4 | 3 | 6 | |
| 2. Truck - Pick-up/Passenger Truck | 7 | 2 | 0 | 2 | 0 | 3 | |
| 3. Van | 2 | 0 | 0 | 2 | 0 | 0 | |
| 4. Truck - Single Unit Truck (2-Axles) | 1 | 1 | 0 | 0 | 0 | 0 | |
| 7. Motor Home, Recreational Vehicle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8. Special Vehicle - Oversized (Veh/Earthmover/Road Equip.) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9. Bicycle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Moped | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Motorcycle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12. Emergency Vehicle (Regardless of Veh Type) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13. Bus - School Bus | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14. Bus - City Transit Bus/Privately Owned Church Bus | 0 | 0 | 0 | 0 | 0 | 0 | |
| 15. Bus - Commercial Bus | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16. Other (Scooter, Go-cart, Hearse, Bookmobile, Golf Cart, etc.) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18. Special Vehicle - Farm Machinery | 0 | 0 | 0 | 0 | 0 | 0 | |
| 19. Special Vehicle - ATV | 0 | 0 | 0 | 0 | 0 | 0 | |
| 21. Special Vehicle - Low Speed Vehicle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 22. Truck - Sport Utility Vehicle (SUV) | 3 | 2 | 1 | 0 | 0 | 0 | |
| 23. Truck - Single Unit Truck (3 Axles or More) | 1 | 0 | 0 | 0 | 1 | 0 | |
| 25. Truck - Truck Tractor (Bobtail- No Trailer) | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 31 | 8 | 2 | 88 | 4 | 9 | |

| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | r ago. T |
|---|-------|------|------|------|------|------|----------|
| Fixed Object | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1. Bank Or Ledge | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2. Trees | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3. Utility Pole | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4. Fence Or Post | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5. Guard Rail | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6. Parked Vehicle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7. Tunnel, Bridge, Underpass, Culvert, etc. | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8. Sign, Traffic Signal | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9. Impact Cushioning Device | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Other | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Jersey Wall | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12. Building/Structure | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13. Curb | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14. Ditch | 0 | 0 | 0 | 0 | 0 | 0 | |
| 15. Other Fixed Object | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16. Other Traffic Barrier | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17. Traffic Sign Support | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18. Mailbox | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | |
| Lighting | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1. Dawn | 1 | 1 | 0 | 0 | 0 | 0 | |
| 2. Daylight | 14 | 3 | 1 | 4 | 2 | 4 | |
| 3. Dusk | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4. Darkness - Road Lighted | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5. Darkness - Road Not Lighted | 1 | 0 | 0 | 0 | 0 | 1 | |
| 6. Darkness - Unknown Road Lighting | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7. Unknown | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 16 | 4 | 1 | 4 | 2 | 5 | |

| | T () | 0040 | 0044 | 0045 | 0010 | 0047 | i age. o |
|---|--------------|------|------|------|------|------|----------|
| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | |
| Surface Condition | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1. Dry | 14 | 3 | 1 | 4 | 2 | 4 | |
| 2. Wet | 2 | 1 | 0 | 0 | 0 | 1 | |
| 3. Snowy | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4. lcy | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5. Muddy | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6. Oil/Other Fluids | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7. Other | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8. Natural Debris | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9. Water (Standing, Moving) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Slush | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Sand, Dirt, Gravel | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 16 | 4 | 1 | 4 | 2 | 5 | |
| Weather Condition | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| No Adverse Condition (Clear/Cloudy) | 13 | 3 | 1 | 3 | 2 | 4 | |
| 3. Fog | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4. Mist | 1 | 0 | 0 | 1 | 0 | 0 | |
| 5. Rain | 2 | 1 | 0 | 0 | 0 | 1 | |
| 6. Snow | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7. Sleet/Hail | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8. Smoke/Dust | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9. Other | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Blowing Sand, Soil, Dirt, or Snow | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Severe Crosswinds | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 16 | 4 | 1 | 4 | 2 | 5 | |

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | Unknown |
|---------------|--------|---------|-----------|----------|--------|----------|--------|---------|
| 00:00 - 00:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 01:00 - 01:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02:00 - 02:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03:00 - 03:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:00 - 04:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05:00 - 05:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06:00 - 06:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:00 - 07:59 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 08:00 - 08:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 - 09:59 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 10:00 - 10:59 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 11:00 - 11:59 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| 12:00 - 12:59 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 13:00 - 13:59 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 14:00 - 14:59 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 15:00 - 15:59 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 16:00 - 16:59 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| 17:00 - 17:59 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 18:00 - 18:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19:00 - 19:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20:00 - 20:59 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 21:00 - 21:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22:00 - 22:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23:00 - 23:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 1 | 0 | 1 | 7 | 3 | 3 | 0 |

Date: 11/26/2018 14:51:39

Report Selection Criteria:

Route Common Name: US-301N Include Both Sides of the Route: Y

Report Date Range: 1/1/2013 Through 12/31/2017

From: 123.75 To: 125.45 Distance in miles: 1.70

Collision Type: Not Provided

Commercial Endorsement Type: Not Provided Commercial Motor Vehicle: Not Provided

Commercial Vehicle Configuration Type: Not Provided

Start Time: Not Provided End Time: Not Provided Days Of Week: Not Provided

Type of Driver Distraction: Not Provided Driver Drinking Type: Not Provided Driver Injury Type: Not Provided Fatal Injury Type: Not Provided First Crash Events: Not Provided

Location of First Harmful Events: Not Provided

Type of Intersection: Not Provided Lighting Conditions: Not Provided Most Harmful Events: Not Provided Passenger Injury Type: Not Provided Relation To Roadway: Not Provided Roadway Surface Type: Not Provided

School Zones: Not Provided Traffic Contol Type: Not Provided

Damage is VDOT Property: Not Provided

Vehicle Body Type: Not Provided Weather Condition: Not Provided Workzone Related: Not Provided

Workzone Workers Present: Not Provided

Jurisdiction Code as supplied by TREDS: Not Provided

| Length In Miles: 1.70 DVMT | : 19151.31 | | | | Crash Rate: 1 | 14.45 | Death Rate: 0.00 | Injury Rate: 31.47 |
|-----------------------------------|------------|-------|-------|-------|---------------|-------|------------------|--------------------|
| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | | |
| Total Crashes | 40 | 13 | 6 | 10 | 6 | 5 | | |
| Fatal Crashes | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Injury Only Crashes | 9 | 3 | 2 | 3 | 1 | 0 | | |
| Prop. Damage Only Crashes | 31 | 10 | 4 | 7 | 5 | 5 | | |
| Property Damage Amount | 210800 | 58500 | 40200 | 50000 | 50100 | 12000 | | |
| Persons Killed | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Persons Injured | 11 | 5 | 2 | 3 | 1 | 0 | | |
| Pedestrians Killed | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Pedestrians Injured | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Collision Type | | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 1. Rear End | 10 | 1 | 2 | 4 | 2 | 1 | | |
| 2. Angle | 9 | 3 | 0 | 2 | 2 | 2 | | |
| 3. Head On | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4. Sideswipe - Same Direction | 3 | 1 | 1 | 0 | 0 | 1 | | |
| 5. Sideswipe - Opposite Direction | 1 | 1 | 0 | 0 | 0 | 0 | | |
| 6. Fixed Object in Road | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7. Train | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 8. Non-Collision | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 9. Fixed Object - Off Road | 9 | 4 | 1 | 2 | 1 | 1 | | |
| 10. Deer | 5 | 3 | 1 | 0 | 1 | 0 | | |
| 11. Other Animal | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 12. Ped | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 13. Bicyclist | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 14. Motorcyclist | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 15. Backed Into | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 16. Other | 3 | 0 | 1 | 2 | 0 | 0 | | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | 40 | 13 | 6 | 10 | 6 | 5 | | |

| | | 2010 | | 201- | | 201- | Page. 3 |
|---|-------|------|------|------|------|------|---------|
| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | |
| Vehicle Type | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| Passenger car | 29 | 11 | 5 | 7 | 3 | 3 | |
| 2. Truck - Pick-up/Passenger Truck | 8 | 4 | 0 | 1 | 2 | 1 | |
| 3. Van | 7 | 2 | 0 | 2 | 1 | 2 | |
| 4. Truck - Single Unit Truck (2-Axles) | 1 | 1 | 0 | 0 | 0 | 0 | |
| 7. Motor Home, Recreational Vehicle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8. Special Vehicle - Oversized (Veh/Earthmover/Road Equip.) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9. Bicycle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Moped | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Motorcycle | 1 | 0 | 1 | 0 | 0 | 0 | |
| 12. Emergency Vehicle (Regardless of Veh Type) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 13. Bus - School Bus | 0 | 0 | 0 | 0 | 0 | 0 | |
| 14. Bus - City Transit Bus/Privately Owned Church Bus | 0 | 0 | 0 | 0 | 0 | 0 | |
| 15. Bus - Commercial Bus | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16. Other (Scooter, Go-cart, Hearse, Bookmobile, Golf Cart, etc.) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18. Special Vehicle - Farm Machinery | 0 | 0 | 0 | 0 | 0 | 0 | |
| 19. Special Vehicle - ATV | 0 | 0 | 0 | 0 | 0 | 0 | |
| 21. Special Vehicle - Low Speed Vehicle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 22. Truck - Sport Utility Vehicle (SUV) | 14 | 1 | 3 | 5 | 2 | 3 | |
| 23. Truck - Single Unit Truck (3 Axles or More) | 5 | 1 | 1 | 1 | 2 | 0 | |
| 25. Truck - Truck Tractor (Bobtail- No Trailer) | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 65 | 20 | 10 | 16 | 10 | 9 | |

| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | raye. |
|---|-------|------|------|------|------|------|-------|
| Fixed Object | rotar | 2010 | 2011 | 2010 | 2010 | 2017 | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1. Bank Or Ledge | 1 | 0 | 0 | 0 | 1 | 0 | |
| 2. Trees | 2 | 0 | 0 | 1 | 0 | 1 | |
| 3. Utility Pole | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4. Fence Or Post | 1 | 1 | 0 | 0 | 0 | 0 | |
| 5. Guard Rail | 1 | 0 | 1 | 0 | 0 | 0 | |
| 6. Parked Vehicle | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7. Tunnel, Bridge, Underpass, Culvert, etc. | 1 | 1 | 0 | 0 | 0 | 0 | |
| 8. Sign, Traffic Signal | 2 | 0 | 0 | 1 | 1 | 0 | |
| 9. Impact Cushioning Device | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Other | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Jersey Wall | 1 | 1 | 0 | 0 | 0 | 0 | |
| 12. Building/Structure | 2 | 0 | 0 | 2 | 0 | 0 | |
| 13. Curb | 2 | 0 | 0 | 2 | 0 | 0 | |
| 14. Ditch | 1 | 0 | 1 | 0 | 0 | 0 | |
| 15. Other Fixed Object | 0 | 0 | 0 | 0 | 0 | 0 | |
| 16. Other Traffic Barrier | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17. Traffic Sign Support | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18. Mailbox | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 14 | 3 | 2 | 6 | 2 | 1 | |
| Lighting | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1. Dawn | 1 | 0 | 0 | 0 | 1 | 0 | |
| 2. Daylight | 21 | 7 | 3 | 5 | 3 | 3 | |
| 3. Dusk | 2 | 0 | 1 | 0 | 0 | 1 | |
| 4. Darkness - Road Lighted | 3 | 1 | 1 | 1 | 0 | 0 | |
| 5. Darkness - Road Not Lighted | 13 | 5 | 1 | 4 | 2 | 1 | |
| 6. Darkness - Unknown Road Lighting | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7. Unknown | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 40 | 13 | 6 | 10 | 6 | 5 | |

| | | | | | | | Page. |
|--|-------|------|------|------|------|------|-------|
| | Total | 2013 | 2014 | 2015 | 2016 | 2017 | |
| Surface Condition | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1. Dry | 32 | 11 | 6 | 7 | 5 | 3 | |
| 2. Wet | 7 | 2 | 0 | 3 | 0 | 2 | |
| 3. Snowy | 1 | 0 | 0 | 0 | 1 | 0 | |
| 4. lcy | 0 | 0 | 0 | 0 | 0 | 0 | |
| 5. Muddy | 0 | 0 | 0 | 0 | 0 | 0 | |
| 6. Oil/Other Fluids | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7. Other | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8. Natural Debris | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9. Water (Standing, Moving) | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Slush | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Sand, Dirt, Gravel | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 40 | 13 | 6 | 10 | 6 | 5 | |
| Weather Condition | | | | | | | |
| Not Provided | 0 | 0 | 0 | 0 | 0 | 0 | |
| No Adverse Condition (Clear/Cloudy) | 34 | 11 | 6 | 9 | 5 | 3 | |
| 3. Fog | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4. Mist | 1 | 0 | 0 | 0 | 0 | 1 | |
| 5. Rain | 4 | 2 | 0 | 1 | 0 | 1 | |
| 6. Snow | 1 | 0 | 0 | 0 | 1 | 0 | |
| 7. Sleet/Hail | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8. Smoke/Dust | 0 | 0 | 0 | 0 | 0 | 0 | |
| 9. Other | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10. Blowing Sand, Soil, Dirt, or Snow | 0 | 0 | 0 | 0 | 0 | 0 | |
| 11. Severe Crosswinds | 0 | 0 | 0 | 0 | 0 | 0 | |
| Not Applicable | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | 40 | 13 | 6 | 10 | 6 | 5 | |

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | Unknown |
|---------------|--------|---------|-----------|----------|--------|----------|--------|---------|
| 00:00 - 00:59 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 01:00 - 01:59 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 02:00 - 02:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03:00 - 03:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04:00 - 04:59 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 05:00 - 05:59 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 06:00 - 06:59 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 07:00 - 07:59 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 - 08:59 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 09:00 - 09:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 - 10:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 - 11:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 - 12:59 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 |
| 13:00 - 13:59 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 14:00 - 14:59 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 15:00 - 15:59 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 |
| 16:00 - 16:59 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| 17:00 - 17:59 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 - 18:59 | 0 | 2 | 0 | 1 | 3 | 0 | 1 | 0 |
| 19:00 - 19:59 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 20:00 - 20:59 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 21:00 - 21:59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22:00 - 22:59 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| 23:00 - 23:59 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 7 | 5 | 3 | 8 | 8 | 4 | 5 | 0 |

APPENDIX E Speed Data

VDOT Speed Limit Study

Central Region Traffic Engineering

Date 05/12/2015

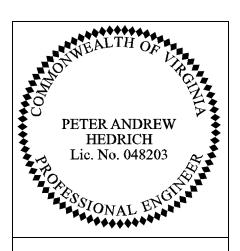


Route #: 301

Street name: AP Hill Boulevard **Jurisdiction:** Caroline County

From: SCL (previous line)-Port Royal To: 0.25 miles south of Route 17

Length: 0.64 miles



VDOT - Traffic Engineering Fredericksburg, Virginia Traffic Engineer

Functional Class/Volume: Rural Other Principal Arterial with 12,481 AADT in 2013.

Speed limit for study roadway: The studied section is posted 45 mph by resolution dated 10/04/2000. The adjoining section to the north is posted at 35 mph by resolution dated 10/04/2000 and 55 mph to the south by resolution dated 06/03/1968.

Origin and nature of request: Requested by Bill Wick, Town Manager of Port Royal.

<u>Study results and recommendations:</u> It is the recommendation of this report to retain the existing 45 mph speed limit on Route 301. This recommendation is based on the following factor(s):

- 85th percentile speed of 47.4 mph
- Pace speed of 39-48 mph
- The accident and injury rate is comparable to state and Fredericksburg District averages for Primary roads.
- There was no discernable pattern to the reported accidents that would have been mitigated by a reduced speed limit.

Study details:

A. Speed Data:

Date, location of speed samples: April 29, 2015, approximately 1000' north of

Route 17.

85th percentile speed: 47.4 mph

Median speed: 42 mph Mean speed: 42.4 mph Pace speed: 39 to 48 mph

B. Road characteristics:

Physical roadway: This segment is a four-lane/two-way asphalt surface road that has a concrete/grassy median south of the Route 17 intersection and a wide centerline/ flush asphalt median north of the Route 17 intersection. The overall pavement width is 52' with variable width grassy and/or paved shoulders. Pavement markings consist of edge lines, lane lines and left turn lane designations.

Traffic Control Devices: There is a traffic signal at the intersection with Route 17, and signal ahead warning signs north and southbound. In addition, 45 mph speed limit signs are in place to the north and south of the intersection.

C. Roadside development and environment:

This area is primarily commercial in nature with seven commercial entrances, two private driveways and one entrance to a funeral home.

D. Parking practices and pedestrian activity:

On street parking is not prohibited but general lack of adequate shoulder width discourages this activity and this practice was not observed.

E. Reported crash experience for most recent three-year period:

Crash records obtained through RNS are for the period 1/1/2012 – 12/31/2014.

Note: Only crashes involving an injury or fatality or property damage exceeding \$1,500 are reportable and available through the Department of Motor Vehicles (DMV). Also, due to the time required for DMV to process and code reported crashes, data for the previous six (6) months may not be available.

According to our records, the total number of reported **crashes** for this section of highway is: 12.

And, the total number of reported **injuries** for this section of highway is: 4 And, the total number of reported **fatalities** for this section of highway is: 0

The **crash** rate for this section of highway is: 137 The **injury** rate for this section of highway is: 46 The **fatality** rate for this section of highway is: 0

For this type of roadway: Primary

The statewide average **crash rate** is: 104.94 per 100 million VMT. The statewide average **injury rate** is: 59.93 per 100 million VMT. The statewide average **fatality rate** is: 1.05 per 100 million VMT.

The district average **crash** rate is: 126.62 per 100 million VMT. The district average **injury** rate is: 71.51 per 100 million VMT. The district average **fatality** rate is: 1.32 per 100 million VMT.

Discussion of crash experience and relevant information: Of the reported twelve accidents, four were "Deer", three "Angle", two "Sideswipe Same Direction", one "Rear End", one Fixed Object off Road" and one "Other". The crash rate is somewhat higher than the state and Fredericksburg District averages for primary roads whereas the injury rate is considerably less. There were no reported fatalities.

Study Area Map

NOTE: map is provided for illustrative purposes and may not accurately depict the most recent roadway

conditions.

Route #: 301

Street name: AP Hill Boulevard **Jurisdiction:** Caroline County

From: SCL (previous line)-Port Royal
To: 0.25 miles south of Route 17

Length: 0.64 miles



APPENDIX F

Existing Conditions Public Outreach Data

| File contains all data collected as of December-26-2018 23:00:00-UTC. Cli | ick the Refresh button in Data Center to download the latest dataset |
|---|--|
| | |

| | ected as of December-26- VisitId | ·2018 23:00:00-UTC. Click t VisitTime | the Refresh button in Data _BROWSER | a Center to download the I _IP | atest dataset. _PLATFORM | Q_Comment | Q_StandardAge | S2_P1_T0_Q1_Port_Roy | S2_P1_T0_Q2_Port_Roy | S2_P2_T0_Q1_Your_Con | S2_P2_T0_Q2_Your_Con | S2_P3_T0_Q1_Your_Ide | S2_P3_T0_Q2_Your_Ide | S2_P4_T0_Q1_Your_Visi | S2_P4_T0_Q2_Your_Visi XIT_Custom1 | XIT_Custom2 | XIT_Custom4 |
|--|-------------------------------------|--|--|-----------------------------------|-----------------------------|----------------------------------|---------------|---|---|--|--|--|---|--|---|-------------------------|-------------------------------|
| SiteVisited | VisitId | VisitTime | Browser | IP | Platform | Additional Comments - Comment | Age | What is your relationship to Port Royal? | For what destinations do you use Route 301 within or beyond Port Royal? | What is your biggest transportation concern regarding the Port Royal Area? | | would you like to see | Are there specific locations where pedestrian or other improvements should be considered? | features within the Town of Port Royal do | If you could make one transportation improvement in Port Royal, what would it be? | Work or School ZIP Code | RaceEthnicity |
| paper - mail | paper - mail | paper - mail | paper - mail | paper - mail | paper - mail | | | I regularly travel through Port Royal | South to Richmond and North to Maryland. Travel to Post Office and restaurant and library | speed limit is enforced | most people trun left into the post office, left turns can be dangerous | Speed limit is enforced | Post office - for those living across the highway | Small town atmosphere | turn lanes for post office, and restaurant near the bridge | | |
| paper - mail | paper - mail | paper - mail | paper - mail | paper - mail | paper - mail | | | 305 Market Street. I have lived here for 32 years. I enjoy the people | a couple of times a month, we also go to | | Probably not | Development and another ? ? Pass at center ? ? ? | Yes, in the area ? 301 without ? ? And the ? Section by 17 | The town itself | Construct a ? ? Around the town to ? Traffic through ? Area, prevent accidents | | |
| old-010319- portroyalstudy.metroqu est.com | 3323383 | 24-11-2018 01:59:49 | Chrome70 | 174.226.24.186 | Web | | 41 to 60 | l am a Business owner | Richmond, northern Neck | VDOT increasing of the speed limit from 35 MPH | | The South bound 301 lanes need to have pedestrian sidewalks installed with substantial Highway STORMWATER MANAGEMENT improvements to stop the flooding of business and properties adjoining both sides of 301, located within the town. (The current Highway Stormwater system drainage piping was installed in 1965!!!!) Currently, the stormwater drainage system has broken, collapsed and undersized concrete piping to include 24' 18' and 15' culverts collection pipes. | | The Speed limit for foot traffic use | Highway Stormwater management improvements. | | |
| old-010319- portroyalstudy.metroqu est.com | 3324609 | 25-11-2018 14:37:52 | Safari12 | 24.153.39.6 | Mobile | | 41 to 60 | Resident | To Work in Dahlgren, travel to Frederickburg, Richmond and to see m sister in North Carolina | | I feel 301 and the bridge needs to be widened | Widened and speed control. Also make it possible for pedestrians to cross 301 in front of the Post Office | At the light, 301 in front of the Post Office | History | Pedestrian crossings at the post office and at the light | 22485 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3325630 | 26-11-2018 19:34:26 | InternetExplorer11 | 23.31.100.121 | Web | Thank you! | 41 to 60 | I am professionally associated with the Town through public service. | Antique shopping privately. | | town with great potential to grow while preserving its exciting historical context. Managing traffic is key to its survival as an incorporated Town and allowing economic development. In this regard, a bypass would take traffic away from | money flowing through Port Royal. If able to dip | considerations demand the signal to go based on anticipated traffic patterns. | | Signalization. 22546 | 22546 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3325728 | 26-11-2018 20:17:48 | InternetExplorer11 | 166.67.66.243 | Web | | | l travel through Port Roay | Fredericksburg, Hampton Roads area, King George | Storage space and capacity in the area. Sunday afternoon driving back from the beach, it always seems to be a hot spot of traffic. | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3326002 | 27-11-2018 00:55:33 | Chrome 70 | 162.223.181.237 | Mobile | | | I travel through the 5 days a week for work and occasionally on the weekend headed to Massaponnax | King George at Windsor Dr to 164 job below Richmond | Traffic not obeying the posted speed limits | I wish there were more businesses | Street lights | Pedestrians should be considered at all times, and sidewalks should be put in place along the Port Royal corridor, as well as pedestrian crosswalks | i.e., houses, signage, | The light at 17 needs to be timed better | | |

| old-010319- portroyalstudy.metroqu est.com | 3326033 | 27-11-2018 01:24:55 | Mozilla | 98.183.251.235 | Mobile | | 26 to 40 | Regularly travel through the area | Maryland and Fredericksburg. | Speeders. | Speed limit is not being obeyed. Reduction to 2 lane traffic on 17 is a hassle. | 4 lane from Port Royal to Route 1. | D | Horne's | Additional turn lane for 301 North to King George from 17 | 23061 | 23149 | WhiteCaucasianNonHisp anic |
|--|---------|---------------------|-----------|----------------|--------|------------|----------|--|---|--|---|---|--|--|--|-------|-------|-------------------------------|
| old-010319- portroyalstudy.metroqu est.com | 3326053 | 27-11-2018 01:54:30 | Chrome70 | 174.204.23.110 | Mobile | Thank you! | 41 to 60 | I live four miles from Port Royal in King George and often travel through Port Royal. | Tappahannock, Massaponax, and Richmond | The speed limit change at the bridge has dramatically increased the noise in our yard in King George. We can hear trucks' air brakes or the bridge when they approach Port Royal, and cars speeding up when they leave the town. The noise really carries over the river in both directions. | 3 | Increase the speed limit going through Port Royal. There are four lanes if a vehicle needs to slow down to turn into a business. | Pedestrians shouldn't be encouraged to cross a four lane highway, no matter what the speed limit is. | Trees | Increase the speed limit so traffic doesn't need to make a drastic change. | 22485 | 22485 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3326109 | 27-11-2018 02:40:10 | Chrome70 | 24.245.107.15 | Mobile | | | I live in King George County | Whenever we go to port Royal, restanuant to eat. Richmond , Tappanock, traveling etc | | A long road to travel before you get to a rest area if you need it. | No I think its okay | Need a rest stop along the area between port royal and AP Hill | Restaurants and Brooks Funeral home | l have no problem | | | |
| old-010319- portroyalstudy.metroqu est.com | 3326127 | 27-11-2018 02:54:30 | Chrome70 | 73.130.161.96 | Mobile | | | I regularly travel through Port Royal | Fredericksburg or Maryland | Speed. Travelers go at high speeds. | N/A | | Pedestrian crosswalks beginning at Horne's. Be nice to walk to the antique stores, etc. | Historical look | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3326140 | 27-11-2018 03:14:25 | Mozilla | 74.214.45.174 | Mobile | | 26 to 40 | I drive thru port royal 4 times every day | King George and richmond | It's a speed trap | When are the speed limits along routes 3 and 301 going to be raised to 60? | | No | Horne's | Higher speed limit | 22485 | | |
| old-010319- portroyalstudy.metroqu est.com | 3326149 | 27-11-2018 03:37:18 | Firefox63 | 173.71.206.32 | Web | | 41 to 60 | Live in Fredericksburg. Work in King George. Visit family in Essex. | Dahlgren, Fredericksburg, Tappahannock, Richmond. | The two-lane portion of Route 17 north of Port Royal to Fredericksburg is dangerous, often backs up due to slow drivers, and needs to be expanded to 4 lanes to match Route 301 and Route 17 south of Port Royal. | | | Longer turn lane from 301 South on to Route 17 south. | The small businesses. | Improve Route 17 north to 4 lanes. | 22401 | 22448 | |
| old-010319- portroyalstudy.metroqu est.com | 3326366 | 27-11-2018 13:25:03 | Chrome69 | 174.255.202.60 | Mobile | | | I regularly travel this road everyday. | l travel 301 through Port Royal to 17 towards Tappahannock everyday | People speeding and bridge work everyday | When are they going to be done with bridge work? They work on it everyday and why | Speed limit should be at least 40 not 35 | | | Change speed limit to 40 | | | |
| old-010319- portroyalstudy.metroqu est.com | 3327547 | 28-11-2018 02:14:39 | Mozilla | 174.226.28.95 | Mobile | | 41 to 60 | I regularly travel through Port Royal. | I travel route 17N to Por Royal and then cross route 301 to travel to work. | 45 mph to 35 mph. Most cars drive above the designated speed limit. Flashing lights are needed on the signs that display the speed limit. | designated turn lane for Horne's Restaurant after crossing 301 from 17N. Most cars do not display a turn signal prior to turning into Horne's Restaurant. Lastly, the right lane needs to be | r drivers turning right on red on 301S to 17N. | | | Flashing lights on signs where the speed limit changes suddenly. | 22572 | 22408 | BlackAfrican American |
| old-010319- portroyalstudy.metroqu est.com | 3327560 | 28-11-2018 02:36:01 | Safari12 | 67.237.121.56 | Web | | 41 to 60 | I live in Port Royal. | To get home, to go to Fredericksburg, Maryland, to try 17 to gc to Tappahannock and to connect to 95. I drive the corridor every day to work and to the Post office as we have no mail delivery and must go to the post office daily. | and are not concerned | slowed down the residents could travel more safely, also the businesses in town would have more traffic. | I would like to see a bypass. That way the town could have a real Main Street. | A sidewalk would be nice and a crosswalk at the post office with a light. That could be remedied if USPS would start home mail delivery | Main Street and access to businesses and the historic district | Bypass in the field allowing travelers to enter 17 or continue on 301 south | 22535 | 22301 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3327573 | 28-11-2018 02:55:44 | Mozilla | 71.244.213.8 | Mobile | | 41 to 60 | I live in Port Royal | King George, Bowling Green, Maryland | Increased tractor trailer traffic | What are plans for residential and commercial development? | Ensure additional development matches road capacity. | Road is not suitable for pedestrian traffic | Quite charm | Left turn lane on 301 | 22535 | 21202 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3327574 | 28-11-2018 02:56:25 | Mozilla | 209.42.143.93 | Mobile | | 41 to 60 | I regularly travel through Port Royal and used to live in town. | 301 north from Bowling Green to King George | Speeding through town | | Speed | | The old homes | | 22427 | 22485 | WhiteCaucasianNonHisp anic |

| old-010319- portroyalstudy.metroqu | 3327577 | 28-11-2018 02:59:44 | Mozilla | 141.152.24.32 | Mobile | | 26 to 40 | I live in Port Royal. | Bowling Green, Richmond, Dahlgren, | The traffic can be hectic in the summer and on | No. | Better traffic flow - especially during the | A crosswalk at the corner of 301 and 17 | The history! | Better flow of traffic! | 22535 | 22485 | WhiteCaucasianNonHisp |
|---|--|--|--|---|--------------------------------|---|----------------------------------|--|---|---|---|--|---|--|---|-------------------------|-------------------------|--|
| est.com | | | | | | | | | King George, Maryland | Fridays/Sundays due to | | summer and weekends. | might be nice for those | | | | | dilic |
| | | | | | | | | | | people traveling to or | | | people who want to eat | | | | | |
| | | | | | | | | | | back from Virginia beach | | | at Hornes and walk | | | | | |
| | | | | | | | | | | using 301. Especially at | | | across the road to the | | | | | |
| | | | | | | | | | | the light by Hornes when | | | antique shop or look at sheds and/or shop at | | | | | |
| | | | | | | | | | | everyone is trying to turn left onto 17 from | | | Kermit's roadside food | | | | | |
| | | | | | | | | | | 301. The line gets | | | stand in the summer! | | | | | |
| | | | | | | | | | | backed up quite a ways. I | | | | | | | | |
| | | | | | | | | | | have seen it backed up | | | | | | | | |
| | | | | | | | | | | past the Port Royal Post | | | | | | | | |
| | | | | | | | | | | Office many times! | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| old-010319- | 3327580 | 28-11-2018 03:01:03 | Chrome70 | 74.214.43.53 | Mobile | | | Regularly travel to and | Restaurants, turn for 17, | Coming down the bridge | It's such a quaint and | Maybe a ped bridge | A ped bridge across at | The old Port Royal | Bigger street signs | | | |
| portroyalstudy.metroqu | | | | | | | | through Port Royal | and through to 95 at | to enter and have to | friendly town. Street | | post office, and a | tavern, the fireplace | | | | |
| est.com | | | | | | | | | Carmel Church | slow down so much | signs could be more | | sidewalk both sides of | structure | | | | |
| .11.040340 | 2227500 | 20 44 2040 02 40 44 | N. 4. 101 - | 72.00.444.420 | A Colored | | C4 1 . 00 | T | C It | 117 . L 21 . L L . L L | noticeable | | 301 | | | 225.46 | 21/2 | Market Co Market Co. |
| old-010319- portroyalstudy.metroqu | 3327600 | 28-11-2018 03:18:41 | Mozilla | 73.99.144.139 | Mobile | | 61 to 80 | Travel there for stores and seafood | See above | It's heavily traveled by out of state and in state | It's becoming very congested and difficult | Maybe turn lanes | I wouldn't even try to be a pedestrian it's scary | Residents | Hate to say it, but additional lanes may be | 22546 | N/A | WhiteCaucasianNonHisp |
| est.com | | | | | | | | anu searoou | | cars and trucks to, I | to from the right side to | | enough in a car | Residents | the only option. | | | anic |
| | | | | | | | | | | guess, avoid 95 | the left or make a turn | | | | Weekends are especially | | | |
| | | | | | | | | | | | to go the opposite | | | | bad. | | | |
| | | | | | | | | | | | direction. The traffic | | | | | | | |
| | | | | | | | | | | | light doesn't help with | | | | | | | |
| | | | | | | | | | | | traffic coming over the bridge into Port Royal | | | | | | | |
| | | | | | | | | | | | bridge lifto Port Royal | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| old-010319- | 3327602 | 28-11-2018 03:19:39 | Safari11 | 174.204.8.185 | Mobile | | | Travel thru port royal | Fredericksburg, | Route 17 north of port | | | | | Fix flooding issue | | | |
| portroyalstudy.metroqu | | | | | | | | frequently | Richmond , king George | royal floods whenever it | | | | | | | | |
| est.com | | | | | | | | | and beyond | rains . This is a | | | | | | | | |
| | | | | | | | | | | dangerous situation . It is | | | | | | | | |
| | | | | | | | | | | an emergency evacuation route | | | | | | | | |
| | | | | | | | | | | c vacuation route | | | | | | | | |
| old-010319- | 3327603 | 28-11-2018 03:20:19 | Chrome70 | 107.77.203.203 | Mobile | | | I drive through almost | To drive to and from | I don't really have any. | Heavily congested at the | Maybe improved parking | Truckers walking from | | | | | |
| portroyalstudy.metroqu | | | | | | | | daily and I value historic | work | Maybe the speeding | 301/17 intersection | for truckers rather than | one side of the highway | | | | | |
| est.com | | | | | | | | resources | | | | being parked on the side | | | | | | |
| | | | | | | | | | | always being under | traffic hours | of the road, mostly by | at Horne's area | | | | | |
| | | | | | | | | | | construction | | Horne's | | | | | | |
| old-010319- | 3327606 | 28-11-2018 03:23:08 | Chrome69 | 174.204.1.35 | Mobile | | | I value Virginia's historic | Frederickshurg | | | | | All of the buildings | | | | |
| | 5527000 | 20 11 2010 05:25:00 | | 17 1120 112100 | | | | | | | | | | an or the bandings | | | | |
| portroyalstudy.metroqu | | | | | | | | resources. | | | | | | | | | | |
| portroyalstudy.metroqu old-010319- | 3327612 | 28-11-2018 03:28:42 | Mozilla | 73.10.27.158 | Mobile | ı | 61 to 80 | | _ | Need a consistent speed | Love the town. | Consistent speed limit | Not sure | Not sure | Consistent speed limit | 08057 | 08057 | WhiteCaucasianNonHisp |
| old-010319- portroyalstudy.metroqu | 3327612 | 28-11-2018 03:28:42 | Mozilla | 73.10.27.158 | Mobile | ı | 61 to 80 | resources. | _ | limit from bridge to Rt | Love the town. | Consistent speed limit | Not sure | Not sure | Consistent speed limit | 08057 | 08057 | WhiteCaucasianNonHisp anic |
| old-010319- | 3327612 | 28-11-2018 03:28:42 | Mozilla | 73.10.27.158 | Mobile | ı | 61 to 80 | resources. Travel through. Value | To and from New Jersey | | Love the town. | Consistent speed limit | Not sure | Not sure | Consistent speed limit | 08057 | 08057 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | | | | | | | | resources. Travel through. Value historical resources | To and from New Jersey to Milford, VA | limit from bridge to Rt 17 interchange. | | | | | | | | anic |
| old-010319- portroyalstudy.metroqu est.com old-010319- | | | Mozilla Safari12 | 73.10.27.158 76.111.185.213 | Mobile Web | | 61 to 80 41 to 60 | resources. Travel through. Value historical resources | To and from New Jersey to Milford, VA | limit from bridge to Rt 17 interchange. I would hate to see this | I enjoy the local festivals | , I personally wouldn't | Not really. The | The small town feel, | I wouldn't change | 23005 | 08057 23236 | WhiteCaucasianNonHisp anic WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | | | | | | | 41 to 60 | resources. Travel through. Value historical resources | To and from New Jersey to Milford, VA | limit from bridge to Rt 17 interchange. | I enjoy the local festivals such as the Pirate | , I personally wouldn't | | The small town feel, Horne's in particular, as | | 23005 | | anic |
| old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | resources. Travel through. Value historical resources I regularly visit Port Royal to eat at Horne's | To and from New Jersey to Milford, VA I occasionally have to travel to Baltimore to go | limit from bridge to Rt 17 interchange. I would hate to see this area expanded or | I enjoy the local festivals such as the Pirate festival, as well as the | , I personally wouldn't change a thingI love it | Not really. The restaurants and shops | The small town feel, Horne's in particular, as | I wouldn't change anything really. The only | 23005 | | anic |
| old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | resources. Travel through. Value historical resources I regularly visit Port Royal to eat at Horne's and shop at the local antique stores. I've been coming here since I | To and from New Jersey to Milford, VA I occasionally have to travel to Baltimore to go to my company headquarters (from Ashland VA). I always | limit from bridge to Rt 17 interchange. I would hate to see this area expanded or developed in such a way as to destroy the charm and ruin the scenic | I enjoy the local festivals such as the Pirate festival, as well as the | , I personally wouldn't change a thingI love it | Not really. The restaurants and shops have ample parking and there doesn't really appear to be the need | The small town feel, Horne's in particular, as well as the antique | I wouldn't change anything really. The only added feature that would be handy id turn lanes for the | 23005 | | anic |
| old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | resources. Travel through. Value historical resources I regularly visit Port Royal to eat at Horne's and shop at the local antique stores. I've been coming here since I was 5-6 years old40+ | To and from New Jersey to Milford, VA I occasionally have to travel to Baltimore to go to my company headquarters (from Ashland VA). I always use 301 to bypass | limit from bridge to Rt 17 interchange. I would hate to see this area expanded or developed in such a way as to destroy the charm | I enjoy the local festivals such as the Pirate festival, as well as the | , I personally wouldn't change a thingI love it | Not really. The restaurants and shops have ample parking and there doesn't really appear to be the need for pedstrian traffic | The small town feel, Horne's in particular, as well as the antique shops. | I wouldn't change anything really. The only added feature that would be handy id turn lanes for the restaurants/shops, but | 23005 | | anic |
| old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | resources. Travel through. Value historical resources I regularly visit Port Royal to eat at Horne's and shop at the local antique stores. I've been coming here since I | To and from New Jersey to Milford, VA I occasionally have to travel to Baltimore to go to my company headquarters (from Ashland VA). I always use 301 to bypass Fredericksburg and DC. | limit from bridge to Rt 17 interchange. I would hate to see this area expanded or developed in such a way as to destroy the charm and ruin the scenic | I enjoy the local festivals such as the Pirate festival, as well as the | , I personally wouldn't change a thingI love it | Not really. The restaurants and shops have ample parking and there doesn't really appear to be the need for pedstrian traffic areas. I imagine the land | The small town feel, Horne's in particular, as well as the antique shops. | I wouldn't change anything really. The only added feature that would be handy id turn lanes for the restaurants/shops, but adding those would | 23005 | | anic |
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| old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | resources. Travel through. Value historical resources I regularly visit Port Royal to eat at Horne's and shop at the local antique stores. I've been coming here since I was 5-6 years old40+ | To and from New Jersey to Milford, VA I occasionally have to travel to Baltimore to go to my company headquarters (from Ashland VA). I always use 301 to bypass Fredericksburg and DC. | limit from bridge to Rt 17 interchange. I would hate to see this area expanded or developed in such a way as to destroy the charm and ruin the scenic | I enjoy the local festivals such as the Pirate festival, as well as the | , I personally wouldn't change a thingI love it | Not really. The restaurants and shops have ample parking and there doesn't really appear to be the need for pedstrian traffic areas. I imagine the land | The small town feel, Horne's in particular, as well as the antique shops. | I wouldn't change anything really. The only added feature that would be handy id turn lanes for the restaurants/shops, but adding those would negatively impact the parking areas of those | 23005 | | anic |
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| old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3327616 | 28-11-2018 03:34:05 | Safari12 | 76.111.185.213 | Web | | 41 to 60 | resources. Travel through. Value historical resources I regularly visit Port Royal to eat at Horne's and shop at the local antique stores. I've been coming here since I was 5-6 years old40+ years. | To and from New Jersey to Milford, VA I occasionally have to travel to Baltimore to go to my company headquarters (from Ashland VA). I always use 301 to bypass Fredericksburg and DC. It's a beautiful drive. | limit from bridge to Rt 17 interchange. I would hate to see this area expanded or developed in such a way as to destroy the charm and ruin the scenic | I enjoy the local festivals such as the Pirate festival, as well as the | , I personally wouldn't change a thingI love it | Not really. The restaurants and shops have ample parking and there doesn't really appear to be the need for pedstrian traffic areas. I imagine the land is scenic area or lookout at the river (adjacent to the | The small town feel, Horne's in particular, as well as the antique shops. | I wouldn't change anything really. The only added feature that would be handy id turn lanes for the restaurants/shops, but adding those would negatively impact the parking areas of those | 23005 | | anic |
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| old-010319- portroyalstudy.metroqu est.com | 3327660 | 28-11-2018 04:42:58 | Chrome59 | 65.99.113.149 | Mobile | 26 to 40 | I live in Port Royal | I drive many places within a 50-mile radius of Port Royal for work and entertainment etc. | I like that the speed limi is 35 miles an hour right now but if it were to ever increase the original town limits would need a stoplight for residents of Port Royal to exit and enter the town safely. It is already quite dangerous to enter 301 in either direction from the main town side. I.e. 301 north side. I would suggest that this stop light be placed near Back street if the speed limit were t increase. | I think I covered that well in my last answer | Possibly a stoplight near Back street if the speed limit ever increases | | Anything historical should be preserved by the Historical Society. | Stop light near back street for residents of the town to enter 301 more safely | 22535 | 22401 | WhiteCaucasianNonHisp anic |
|--|---------|---------------------|----------|----------------|--------|--|--|---|--|--|---|--|--|---|-------|-------|-------------------------------|
| old-010319- portroyalstudy.metroqu est.com | 3327671 | 28-11-2018 05:08:12 | Mozilla | 174.226.29.190 | Mobile | The green space by the library is beautiful and it would be nice to see that kept as green space for the wonderful town events and for the children to play. | I live in Port Royal. I value progressive movement while preserving and honoring the history of the are. | Travel in all directions. Near Daily travel to Bowling Green and Fredericksburg. | Speeding inside the tow limits. The standing water on Route 17 close to the stoplight at the junction of 17 and 301. Also the dangerous no cell coverage area close to Rappahannock Academy that has accidents due to trees that frequently fall in throad. Lastly, but most importantly, there is no safe pedestrian crossing for those needing to cross to get to post office/other businesses on either side of 301. | route and for the last 5+ years it has standing water and flooding which is very dangerous I do not understand how it is an evacuation route when it floods so easily. In addition, the area by Rappahannock Academy is exceptionally | Pedestrian crossings or a pedestrian bridge(that would be enclosed for safety) No bill boards Another stoplight for the most congested part of the town, perhaps at the post office or make a side road running parallel to post office side | | | Install speed traps that take pictures of speeder and auto mail tickets. Another stoplight or blinking yellow at the bridge and just as you come down hill near Horne's to alert cars to slow down. | | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3327677 | 28-11-2018 05:30:54 | Safari10 | 24.245.107.34 | Web | 41 to 60 | I travel through Port Royal at least twice every two weeks. | Traveling from King George to Richmond or to the Virginia Beach | Volume of traffic passing through. | 3 | Whatever would make things easier for those who actually live there. | | | | 22485 | | WhiteCaucasianNonHisp anic |
| | 3327691 | 28-11-2018 06:13:30 | Safari10 | 96.240.24.81 | Web | | I drive through Port | area. Rt. 301 to Rt. 17. | | The speed limit needs to | Sidewalks. | | Historical landmarks. | Pedestrian walkways. | 22538 | | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu old-010319- portroyalstudy.metroqu est.com | 3327695 | 28-11-2018 06:57:42 | Mozilla | 24.153.35.173 | Mobile | | Royal twice daily. I travel through Port Royal on Rt 301. | Danville VA - Richmond VA - various destinations in NC, GA, and FL | | be enforced. It just seems isolated to an extent then you hit the Nice Bridge going North and it is not built to handle all the traffic. | | | | | | | anic |
| portroyalstudy.metroqu est.com | | | Chrome70 | 24.153.32.180 | Mobile | 41 to 60 | the town. | Williamsburg, Richmond Carrollton, Hornes Restaurant, Tappahanock. | , Speed limit feels like a trap. | | Speed limit increased to 45 mph. | | The historic buildings. Small town feel. | Increase speed limit. | 22485 | 20664 | WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu | | 28-11-2018 12:01:14 | Chrome70 | 216.10.186.175 | Web | | Travel thru Port Royal | King George and Maryland | | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3327759 | 28-11-2018 12:06:44 | Mozilla | 107.77.202.228 | Mobile | | I drive through Port Royal every day on my way to work in Essex County. | I drive between Stafford County and Essex County every day - 7 days a week. | | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3327764 | 28-11-2018 12:14:01 | Chrome70 | 174.204.38.97 | Mobile | | I regularly travel through | Bowling Green Va and King George | While traveling into to port royal on 17 south bound when you reach the light at 301 and attempt to turn right onto 301 south your view of oncoming traffic is blocked by multiple signs that are very close to the highway. This impeades the flow of traffic and creates a public safety cocern. | | | An emergency light for port royal volunteer fire department should be in place due to days when there are high volumes of traffic ,such as holiday weekends, it can become difficult for them to get across all lanes of travel safely | | | | | |
| old-010319- | 3327771 | 28-11-2018 12:23:32 | Chrome70 | 107.77.203.110 | Mobile | | Travel through, live in Caroline County. | Restaurants and enjoy the town. | | | | | | | | | |
| | 3327785 | 28-11-2018 12:47:59 | Chrome70 | 174.204.13.178 | Mobile | | I drive through the area twice a day, 5 days a week | | Speed changes too quickly coming over the bridge into Port Royal. Police seem to be there ready and waiting. | No | | I never see people walking on the area when I pass through. | The most Historic place with more emphasis on what's there. | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3327788 | 28-11-2018 12:49:33 | Mozilla | 100.7.200.9 | Mobile | | I regularly travel through Port Royal | Maryland, Tappahannock, local boat ramps | Heavy volume of traffic on weekends | | Turn lanes | Entrance to Ranfolph's | | Turn lanes and increase speed back to 45 | | | |

| old-010319- portroyalstudy.metroqu | 3327791 | 28-11-2018 12:51:32 | Chrome70 | 138.162.0.43 | Web | | 26 to 40 | I travel through Port Royal on a daily basis. | | Drastic speed decrease between KG into Port | | Longer turning lane from 301 North left onto Rt17 | | Older homes within Town Limits. Signage | | 22546 | 22448 | BlackAfrican American |
|--|--|--|-------------------------------------|---|-----------------------------|--|----------|---|---|--|---|---|--|---|--|-------|-------|---|
| est.com | | | | | | | | Royal off a daily basis. | | Royal. Traffic bottleneck | | 501 NOI til leit olito Kt17 | | around the area to | | | | |
| | | | | | | | | | | for those turning left | | | | denote significance; | | | | |
| | | | | | | | | | | onto RT17 from 301 | | | | current location is not in | | | | |
| | | | | | | | | | | North | | | | good place. People will blink and miss it. | | | | |
| | | | | | | | | | | | | | | Area of John Wilkes | | | | |
| | | | | | | | | | | | | | | Booth capture/killing on | | | | |
| | | | | | | | | | | | | | | 301 South Corridor is not | t | | | |
| | | | | | | | | | | | | | | very visible. There used | | | | |
| | | | | | | | | | | | | | | to be an area that was kept cut in the median | | | | |
| | | | | | | | | | | | | | | with signage that is now | | | | |
| | | | | | | | | | | | | | | overgrown. This | | | | |
| | | | | | | | | | | | | | | definitely could be more | | | | |
| | | | | | | | | | | | | | | of a draw for tourist. | | | | |
| | | | | | | | | | | | | | | | | | | |
| old-010319- | 3327805 | 28-11-2018 13:06:01 | Chrome64 | 173.44.65.162 | Web | | 61 to 80 | I travel through Port | To go to RichmondVa | none | | | | The old town feel | | 22443 | | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | 2227007 | 20.44.2040.42.00.22 | F1 - 5 - 62 | 474 226 0 252 | w.t | | | Royal regularly | F C P | | | | | | | | | anic |
| old-010319- portroyalstudy.metroqu | 3327807 | 28-11-2018 13:08:22 | Firefox63 | 174.226.0.253 | Web | | | I regularly travel through Port Royal | County/Fort A.p. Hill to | | | | | | | | | |
| est.com | | | | | | | | i ore noyar | Tappahannock, VA or | | | | | | | | | |
| | | | | | | | | | over the bridge to King | | | | | | | | | |
| | | | | | | | | | George, Fredericksburgh | | | | | | | | | |
| | | | | | | | | | or Maryland. | | | | | | | | | |
| old-010319- | 3327831 | 28-11-2018 13:36:59 | Mozilla | 66.87.129.136 | Mobile | | 1 | Travel through port | King George,md state | | 1 | | | | 1 | 1 | 1 | |
| portroyalstudy.metroqu | | | | | | | | royal. | line,dalhgren navy base | | | | | | | | 1 | |
| est.com | 2227000 | 20 11 2010 11 17 56 | Characa CO | 174 204 44 22 | No-bile | | - | Harana and Control | NAT- all transitions | The name and Police of the | - | | The and links | All afaba bio said | 1 | 1 | + | |
| old-010319- portroyalstudy.metroqu | 3327890 | 28-11-2018 14:47:56 | Chrome68 | 174.204.44.33 | Mobile | | | I live on outskirts of portroyal | Work travling | The new red lights that flash the yellow arrow | | | The red light | All of the historic building | | | | |
| est.com | | | | | | | | | | have almost had 3 | | | | | | 1 | | |
| | | | | | | | | | | accidents because of | | | | | | | 1 | |
| | | | | | | | | | | these also the turning | | | | | | | 1 | |
| | | | | | | | | | | lane going toward fredericksburg | | | | | | | | |
| | | | | | | | | | | in edericksburg | | | | | | | | |
| old-010319- | 3327895 | 28-11-2018 14:54:11 | Mozilla | 73.152.255.98 | Web | | 41 to 60 | I live in caroline county | | | | Raise the speed limit to | I live in caroline and | | Raise the speed limit to | 22546 | 22546 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | | | and drive to Maryland | | No need to drive 35. | | 45. This is a tiny, rural | drive north and south | focusing on preserving | 45. | | | anic |
| est.com | | | | | | | | on 301 frequently. | | | | town with few inhabitants or | through port royal regularly and have never | and begin to focus on | | | | |
| | | | | | | | | | | | | pedestrians. There is no | | improving. This could be | | | | |
| | | | | | | | | | | | | need to reduce the | | an awesome tourist spot | | | | |
| | | | | | | | | | | | | | crossing an roar lanes to | | • | | | |
| | | | | | | | | | | | | speed limit to 35 so | go anywhere! There is | with all of the river | | | | |
| | | | | | | | | | | | | speed limit to 35 so quickly, especially | go anywhere! There is no need for speed | with all of the river frontage but it is not | | | | |
| | | | | | | | | | | | | speed limit to 35 so quickly, especially coming south as soon as | go anywhere! There is no need for speed reduction. | with all of the river frontage but it is not used. Right now no one | | | | |
| | | | | | | | | | | | | speed limit to 35 so quickly, especially | go anywhere! There is no need for speed reduction. | with all of the river frontage but it is not | | | | |
| | | | | | | | | | | | | speed limit to 35 so quickly, especially coming south as soon as | go anywhere! There is no need for speed reduction. | with all of the river frontage but it is not used. Right now no one stops simply drives | | | | |
| old-010319- | | 28-11-2018 15:08:09 28-11-2018 17:76:02 | Mozilla Mozilla | 107.77.204.123 | Mobile Mobile | | 41 to 60 | I live in port royal | See above answer! | So many spendars | lust speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. | with all of the river frontage but it is not used. Right now no one stops simply drives through. | | 22525 | 22525 | WhiteCaurasianNonHiso |
| old-010319- | | 28-11-2018 15:08:09 28-11-2018 17:26:02 | Mozilla Mozilla | 107.77.204.123 107.77.203.130 | Mobile Mobile | | 41 to 60 | I live 4 minutes from | See above answer! | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as | go anywhere! There is no need for speed reduction. | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| | | | | | | | 41 to 60 | | See above answer! | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. | with all of the river frontage but it is not used. Right now no one stops simply drives through. | | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the | See above answer! | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy drivers speeding and not | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders Not sure how because my goodness so much has already been | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the convenient center in | See above answer! | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders Not sure how because my goodness so much has already been done. Police presence | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the convenient center in Port Royal. | See above answer! | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy drivers speeding and not | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders Not sure how because my goodness so much has already been done. Police presence means nothing to some | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the convenient center in Port Royal. I do mail and trash daily. | | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy drivers speeding and not | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders Not sure how because my goodness so much has already been done. Police presence | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the convenient center in Port Royal. | | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy drivers speeding and not | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders Not sure how because my goodness so much has already been done. Police presence means nothing to some | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the convenient center in Port Royal. I do mail and trash daily. I travel through to King George, Bowling Green, Newport News, and | | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy drivers speeding and not | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders Not sure how because my goodness so much has already been done. Police presence means nothing to some | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | | | | | | | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the convenient center in Port Royal. I do mail and trash daily. I travel through to King George, Bowling Green, Newport News, and must go through to get | | So many speeders | Just speeding | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy drivers speeding and not | with all of the river frontage but it is not used. Right now no one stops simply drives through. | Control speeders Not sure how because my goodness so much has already been done. Police presence means nothing to some | 22535 | 22535 | WhiteCaucasianNonHisp anic |
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| old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3328305 3328394 3328395 3328454 | 28-11-2018 17:26:02 28-11-2018 19:39:53 28-11-2018 20:35:33 28-11-2018 20:36:41 | Chrome67 Chrome70 Chrome69 Chrome70 | 107.77.203.130 66.87.128.56 173.71.205.164 172.58.109.215 174.193.155.118 | Mobile Mobile Web Mobile | ROYAL HISTORIC without high traffic areas | 41 to 60 | I live 4 minutes from there. I get my mail at Port Royal Post Office. I go dump my trash at the convenient center in Port Royal. I do mail and trash daily. I travel through to King George, Bowling Green, Newport News, and must go through to get back home. Love the history of Port Royal where I was born and raised!!! I live very close to port royal Resisdent My 9th great grandfather was Col. John Catlett. I value Virginia's historic resources. I have traveled through Port Royal and have family there. | l95/Baltimore/around Town (Post Office, shopping, restaura nts) Have never been there but it is on my bucket list I travel from Charlotte NC and use Route 301 from Bowling Green. | I cannot comment having never been. Loss of the local character of the community and the | P R is a Historiically designated Town by the State of Virginia and should not become a fast track corridor. Rt 301 was the designated Main Street in 1744 and should remain a small Town Main St Same answer as above I love Horn's Restaurant at 301 and 17, but the corner could also use a | speed limit to 35 so quickly, especially coming south as soon as you cross the bridge. Get the speeders Historic themed appearance with approriate lighting, sidewalks, curb and gutter main st N/A Needs left turn lanes and | go anywhere! There is no need for speed reduction. NO ONE SHOULD EVER CROSS 301 ON FOOT because so many crazy drivers speeding and not paying attention Post Office is on the opposite side of Rt 301 from the Town and pedestrians have a very difficult time walking to the Post Office to pick up mail N/A Better access to the post office is needed for safe | with all of the river frontage but it is not used. Right now no one stops simply drives through. History EVERY Historic structure, street names, the Town is much more important than turning the main st into a high speed corridor The cemetaries Preserve the old historic | Control speeders Not sure how because my goodness so much has already been done. Police presence means nothing to some drivers Build a bypass form the south side of the bridge into the field on west side and have that bypass join current Rt 301 south at the intersection with Rt 17 or below. Keep Main St "as is" for local traffic only N/A | 22535 | 22401 | whiteCaucasianNonHisp anic |

| old-010319- portroyalstudy.metroqu est.com | 3328469 | 28-11-2018 21:27:00 | Chrome70 | 70.106.138.206 | Mobile | | | I travel through there to go from King George to Cosner's Corner via Route 301 and take Route 17 to Spotsylvania instead if taking Route 3 which is farther away. Also I was babysithing for about 2 years in Port Royal, but I'm no longer doing that. | from King George county to Cosner's corner in spotsylvania or to go to Carmel Church. Rarely I do stop af Horne's restaurant to get a | changes, its confusing because it drops so quickly especially coming | | traffic light at Route 17. Its not a huge distance but the speed limit | Not sure | The historic aspects of the town, not over commerical of the area | Not sure | | | |
|--|---------|---------------------|----------|-----------------|--------|---|----------|---|--|--|---|--|---|---|---|-------|-------|-------------------------------|
| old-010319- portroyalstudy.metroqu est.com | 3328495 | 28-11-2018 21:42:25 | Chrome70 | 70.106.138.206 | Mobile | | 41 to 60 | Travel from King George county to Cosner's corner in spotsylvania | Cosner's corner in Spotsylvania or Ladysmith in Caroline county | The quick change of the speed limits, yo can be driving the proper speed limit and other drivers get mad at you not going faster | speed limit the same from the bridge over the Rappahannock River to | | Not sure | The historic aspects, dont allow too much commercial companies | Keep it historical and a small community feel | 22485 | 22485 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3328520 | 28-11-2018 21:52:25 | Chrome70 | 162.210.27.2 | Mobile | | 41 to 60 | l travel through regularly. | with route 17 to go east for traveling towards the beach & we use west towards Spotsylvania for shopping/dining/campin g. | 301 heading south, at the 301/17 intersection. The left turn lane is too short for the amount of cars that head south on 301 and turn east onto | | | | Histoiry | | 22485 | 22485 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3328638 | 28-11-2018 23:09:40 | Mozilla | 174.226.24.108 | Mobile | | 41 to 60 | I live near Port Royal and go through light at intersection of 301 and 17 twice a day five days a week. | To go to and from home. | Speed limit on 301 crossing though AP Hill. | | Nothing. Like the slower limit. | | The speed limit. | | 22546 | 22546 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3328712 | 29-11-2018 00:04:56 | Mozilla | 73.147.77.108 | Mobile | | | I travel regularly through port Royal | Maryland | Speeding and the light can take forever when busy | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3328739 | 29-11-2018 00:24:56 | Mozilla | 64.134.102.32 | Mobile | | | I value this town travel from Caroline to king George every day . | 17 | | | Reduce speed | Cross walks in port royal slow down traffic | Small town | Make interstate from Carmel church all to Baltimore create toll | | | |
| old-010319- portroyalstudy.metroqu est.com | 3328782 | 29-11-2018 00:52:18 | Mozilla | 174.204.11.195 | | An engineer that works at Quantico, Pax River, and Aberdeen | | I live just outside Port Royal and drive through regularly for work and personal business. | King George, Dahlgren, and Fort AP Hill. I go to Horne's, Port Royal Pizza | traffic to stopnamd egress. | We need increased speed and less traffic stoppage for passthrough traffic but we also need local traffit to be able to stop and go. Maybe we need alternate routes in conjunction with an overpass for pass through traffic? | | The interesection of 17 and 301. | I want to preserve the local and historical aspects. | Increase in speed. Get rid of the speed trap dropping from 55 to 35. | 22514 | 22134 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3328843 | 29-11-2018 02:04:01 | Safari12 | 107.77.202.24 | Mobile | | 41 to 60 | I live close to Port Royal and drive through there, | | 35 MPH zone. This speed should be adjusted, up. | No | Increased speed limit | No | None | None | 22535 | 22448 | |
| old-010319- portroyalstudy.metroqu est.com | 3328850 | 29-11-2018 02:15:07 | Chrome70 | 162.223.181.213 | Web | | | I live in King George County but regularly travel through Port Royal on Route 301. | Route 301 from King George to I-95 or to North/South on Route 17. | , | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3328859 | 29-11-2018 02:32:53 | Mozilla | 74.214.55.123 | Mobile | | 41 to 60 | | Horne's, antique shops, | People drive too fast through there despite the limits. | No | 25 mph | Going from each shop is scary - getting out onto 301. | Old buildings. Horne's! | Sidewalks between the small businesses. | 22485 | 22486 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3328912 | 29-11-2018 03:46:57 | Chrome70 | 174.226.20.141 | Mobile | | | I drive through Port Royal 2 days a week | | The intersection of 301 and 17. Alot of driver's | | Lengthen the turn lanes | | | Center turn lane | | | |
| old-010319- portroyalstudy.metroqu est.com | 3328913 | 29-11-2018 03:49:34 | Mozilla | 172.56.2.84 | Mobile | | | I travel through port royal regularly | Dahlgren va | None | No | I do not have any issues with rt 301 through port royal | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3328930 | 29-11-2018 04:30:34 | Mozilla | 70.106.143.13 | Mobile | | | l regularly travel through Port Royal. | To frequent the businesses in Port Royal, to reach 17, to travel to Bowling Green, to travel to Carmel Church for access to 95 for traveling south | None | No | Nothing | No | The small town feel | Nothing | | | |

| old-010319- | 3328970 | 29-11-2018 09:46:29 | Safari12 | 100.7.204.40 | Mobile | | | I live in Port Royal | Every destination | Quantity of vehicles | Yes, divert it around the Divert i | t it around town. | Specifically near post | To be able to turn onto | Divert traffic around | | | |
|--|---------|---------------------|----------|----------------|--------|------------|----------|--|---------------------------|-----------------------------|------------------------------------|-------------------|--------------------------|----------------------------|---------------------------|-------|-------|-----------------------|
| portroyalstudy.metroqu | | | | | | | | | | driving through town | town. | ŀ | office. | rte 301 in either | town. | | | |
| est.com | | | | | | | | | | preventing residents | | | | direction, without havin | g | | | |
| | | | | | | | | | | from accessing and | | | | to go over the bridge to | | | | |
| | | | | | | | | | | walking along 301. | | | | travel south. | | | | |
| | | | | | | | | | | | | | | | | | | |
| old-010319- | 3329047 | 29-11-2018 13:20:57 | Chrome69 | 174.226.25.84 | Mobile | | 61 to 80 | Regular travel through | | Slowing to 35 MPH | | Į! | No | Historical buildings and | Bring back 45mph | 22427 | 20910 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | | | Port Royal | Neck areas | where 45 seems more | | | | markers | | | | anic |
| est.com | | | | | | | | | | reasonable | | | | | | | | |
| old-010319- | 3329072 | 29-11-2018 13:41:35 | Mozilla | 107.77.204.181 | Mobile | | 41 to 60 | I attend church in Port | Church, heading into | Speed limits and the | Yes |] | Yes | The history | A way to cross 301 safely | 22436 | 23436 | |
| portroyalstudy.metroqu | | | | | | | | Royal and regularly | | s light at the intersection | | | | | | | | |
| est.com | | | | | | | | travel through the area. | in King George | of 17 and 301, there | | | | | | | | |
| | | | | | | | | | | have been a few times | | | | | | | | |
| | | | | | | | | | | where it seemed as if | | | | | | | | |
| | | | | | | | | | | the light was not | | | | | | | | |
| | | | | | | | | | | operating correctly. | | | | | | | | |
| | | | | | | | | | | 1 | | | | | | | | |
| old-010319- | 3329107 | 29-11-2018 14:12:04 | Chrome70 | 205.174.113.61 | Web | | | I travel through Port | AP HILL, King George | Congestion and new | N/A | | | | | | | |
| portroyalstudy.metroqu | | | | | | | | Royal occasionally and | County, Spotsylvania | construction of | | | | | | | | |
| est.com | | | | | | | | value the historic | County | subdivisions or | | | | | | | | |
| | | | | | | | | resources | | commercial centers | | | | | | | | |
| | | | | | | | | | | ruining the rural | | | | | | | | |
| | | | | | | | | | | aesthetic of the area | | | | | | | | |
| old-010319- | 3329470 | 29-11-2018 18:50:11 | Chrome70 | 141.152.27.194 | Mobile | | | Travel thru and visit Por | t Maryland | The Harry Nice bridge | | | | | | | | |
| portroyalstudy.metroqu | | | | | | | | Royal | | | | | | | | | | |
| old-010319- | 3329567 | 29-11-2018 19:35:58 | Chrome70 | 174.64.53.75 | Web | | | I live in Portobago Bay | Work, schools, | speeding traffic | | | | | | | | |
| portroyalstudy.metroqu | | | | | | | | | | | | | | | | | | |
| old-010319- | 3329618 | 29-11-2018 20:33:35 | Chrome70 | 97.64.60.202 | Web | | 41 to 60 | | I travel to Bowling Green | | | | Absolutely. A crosswalk | Historic Preservation | Some way to control the | 22535 | 22427 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | | | Royal. I very much valu | | through as though the | | alks, flashing | from Back Street on to | | speed of traffic, speed | | | anic |
| est.com | | | | | | | | Virginia's historic | Sunday I travel to | devil is chasing them. | to alert that the fire and caution | | | | bumps, something. | | | |
| | | | | | | | | resources, and I am the | LaPlata MD to visit | The Post Office has | rescue vehicles are Depart | | beneficial to those who | | | | | |
| | | | | | | | | Town Clerk for the | family. (he is a 93 year | always been an issue as | entering the highway. | | walk daily to the Post | | | | | |
| | | | | | | | | Town. | old decorated Veteran). | we are on the opposite | | ŀ | Office. | | | | | |
| | | | | | | | | | | side of Rt. 301 and | It is just a very | | | | | | | |
| | | | | | | | | | | turning in to the Post | dangerous piece of | | | | | | | |
| | | | | | | | | | | Office is very dangerous. | highway. | | | | | | | |
| | | | | | | | | | | Folks run right up on | | | | | | | | |
| | | | | | | | | | | your bumper and whip | | | | | | | | |
| | | | | | | | | | | around you. It is | | | | | | | | |
| | | | | | | | | | | frighting to say the very | | | | | | | | |
| | | | | | | | | | | least. | | | | | | | | |
| | | | | | | | | | | icasti | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| old-010319- | 3329684 | 29-11-2018 21:25:58 | Safari11 | 107.77.203.145 | Mobile | | | My shop in portroyal | | | | | | | | | | |
| portroyalstudy.metroqu | | | | | | | | very slow traffic going s | 0 | | | | | | | | | |
| est.com | | | | | | | | fast need a way to slow | | | | | | | | | | |
| | | | | | | | | cars down and put | | | | | | | | | | |
| | | | | | | | | cameras like dc hads | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| old-010319- | 3329829 | 29-11-2018 23:19:37 | Mozilla | 107.77.202.141 | Web | | 61 to 80 | I live in Caroline County | | Speeding | | | | The reduced speed of 35 | | 22535 | | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | | | just South of Port Royal | | 1 | | | would be beneficial from | | crossing from the town | | | anic |
| est.com | | | | | | | | | the Nice Bridge. | | | | the town of Port Royal | | of Port Royal, across US | | | |
| | | | | | | | | | | | travel t | through Port | to the post office. | the bridge over the | 301, to the post office. | | | |
| | | | | | | | | | | | Royal | new signals and | | Rappahannock River. | | | | |
| | | | | | | | | | | | reduce | ed speed signs. | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | 1 | | | | | | | | 1. | | | |
| old-010319- | 3329914 | 30-11-2018 00:55:38 | Mozilla | 107.77.204.188 | Mobile | No comment | 61 to 80 | I live a mile from Port | I go over the bridge to | The incidents of crashes | This is a safe community Wider | | There are currently no | All of it. I love it here. | | 22538 | 22401 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | | | Royal | the King George Food | | normally and I hope we enforce | | sidewalks allowing | | would do. Honestly. We | | | anic |
| est.com | | | | | | | | | Lion and other | | get more business speed I | l limit | egress on any sides of | | have one traffic | | | |
| | | | | | | | | | businesses | | opportunities. And I'd | | 301 | | light/signal and proper | | | |
| | | | | | | | | | | İ | like to be able to get in | | | | turn lanes. | | | |
| | | | | | | | | | | 1 | and out of these | | | | | | | |
| | | | | | | | | | | | businesses safely | | | | | | | |
| | | | | | | | 1 | 1 | 1 | | 1 | | | | 1 | ſ | 1 | 1 |
| old 010210 | 2220050 | 20-11-2019 01-25-45 | Chromo70 | 24 245 107 222 | Mobile | | 1 | Llive in King Coores | Fradarickshura | | i i | i | | | | | | |
| old-010319- portrovalstudy.metrogu | 3329950 | 30-11-2018 01:35:45 | Chrome70 | 24.245.107.233 | Mobile | | | I live in King George and travel through Port Rov | | | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | | 30-11-2018 01:35:45 | Chrome70 | 24.245.107.233 | Mobile | | | I live in King George and travel through Port Roy daily. | | | | | | | | | | |

| old-010319- | 3329987 | 30-11-2018 02:45:19 | Mozilla | 173.72.244.125 | Mobile | | | I owned a business in | To go to the post office | Limiting access to areas | The speed limit needs t | o Speed limit | Pedestrian foot bridge | Keep it the way it is. | Better speed | | | |
|---|--|---|---|--|--------------------------------------|-----------------------------------|----------------------|---|--|---|--|--|--|--|--|-------|-------|--|
| portroyalstudy.metroqu | | | | | | | | Port Royal. | from rout 17. To go to | frequent, And more | be enforced better, | enforcement!!!!!! | over 301 so residence | Absolutely do not limit | enforcement! | | | |
| est.com | | | | | | | | | the bakery to pick up | important, making sure | | | can get their mail safely | access to left or right | | | | |
| | | | | | | | | | cookies for my | customers can get to my | speeders in front of my | | | turning. | | | | |
| | | | | | | | | | customers. To go to the | store conveniently. | store. When I put out m | у | | | | | | |
| | | | | | | | | | Trading post and the | | flags traffic is very | | | | | | | |
| | | | | | | | | | Minnow Bucket. We eat | | dangerous. I frequently | | | | | | | |
| | | | | | | | | | at Randolph's on the | | use the slow down hand | 1 | | | | | | |
| | | | | | | | | | River often and drive | | signals for oncoming | | | | | | | |
| | | | | | | | | | from the corner of | | traffic. | | | | | | | |
| | | | | | | | | | 17/301 Do not want to | | | | | | | | | |
| | | | | | | | | | spend all the extra time | | | | | | | | | |
| | | | | | | | | | running errands by | | | | | | | | | |
| | | | | | | | | | having to go over the | | | | | | | | | |
| | | | | | | | | | bridge turn around and | | | | | | | | | |
| | | | | | | | | | come back just to access | : | | | | | | | | |
| | | | | | | | | | the 3 most used places | | | | | | | | | |
| | | | | | | | | | in Port Royal. | | | | | | | | | |
| | | | | | | | | | Sometimes when I have | | | | | | | | | |
| | | | | | | | | | to run errands I close my | ' | | | | | | | | |
| | | | | | | | | | store for five minutes | | | | | | | | | |
| | | | | | | | | | and put a note on the | | | | | | | | | |
| | | | | | | | | | door and I am truly back | | | | | | | | | |
| | | | | | | | | | in five minutes. If I have | | | | | | | | | |
| | | | | | | | | | to go clear into King | | | | | | | | | |
| | | | | | | | | 1 | George County I won't | | | | | | 1 | 1 | 1 | |
| | | | | | | | | | be able to do this | | | | | 1 | 1 | 1 | | |
| old-010319- | 3330038 | 30-11-2018 04:28:34 | Mozilla | 141.152.24.93 | Mobile | | 41 to 60 | I live in Port Royal | Can't get anywhere | Too much traffic on 301 | | Bypass it | Everywhere. No space | Small, out of the way | Less traffic | 22535 | 1 | Other |
| portroyalstudy.metroqu | | | | | | | | | unless I use 301. I have | makes it hard to get | | 1." | for pedestrians | atmosphere | 1 | 1 | | |
| est.com | | | | | | | | 1 | to use to get out to go | onto 301 from our | | | | 1 | | 1 | | |
| | | | | | | | | | everywhere. | streets especially during | | | | 1 | 1 | 1 | | |
| | | | | | | | | 1 | 1 | holidays and weekends | | | | | 1 | 1 | 1 | |
| | | | | | | | | 1 | | in tge summer. | | | | | | 1 | | j |
| | | | | | | | | | 1 | | | | | 1 | 1 | 1 | | |
| old-010319- | 3330886 | 2-12-2018 16:11:52 | Safari12 | 74.214.42.65 | Web | Although I live in KG, I | 41 to 60 | I work approximately 3 | I travel through Port | That transportation | The speeders; they | Consistent speed limit | Mostly on the side of | The history; the old | Consistent speed limits | 22485 | 22485 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | frequent Port Royal | | miles north of Port | Royal on trips to and | needs will become more | | signs. The speed limit | 301 where the antique | houses and the small | between KGC and | | | anic |
| est.com | | | | | | often. | | Royal. I dine at | from Essex, Middlesex, | important than | from MD. Also, the | | shops are close together | | Tidewater Trail (speed | | | |
| | | | | | | | | Randolphs on the River | | | constant work on the | span of [what seems | | to see more money put | | | | |
| | | | | | | | | | in addition to Richmond. | | new bridge span going | | | into the small, historic | , | | | |
| | | | | | | | | shops. | | | into King George County | | parts of 301 are | part of Port Royal | | | | |
| | | | | | | | | | | the history and make it | what is wrong with it | ,, = , | | (where all the old houses | | | | |
| | | | | | | | | | | | that it needs constant | | traffic. | are) making that a little | | | | |
| | | | | | | | | | | owners to keep their | fixing? | | tranic. | bit of a "old town" like a | | | | |
| | | | | | | | | | | | | | | DIL OF A OIG LOWIT TIKE A | | | | |
| | | | | | | | | | | | 0. | | | smaller scale of | | | | |
| | | | | | | | | | | livelihoods | 0 | | | smaller scale of | | | | |
| | | | | | | | | | | | 0. | | | downtown | | | | |
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| old-010319- | 3331276 | 3-12-2018 19:27:17 | Chrome 70 | 74 214 46 99 | Weh | | | I regularly travel through | Richmond | | | | | downtown | | | | |
| old-010319- | 3331276 | 3-12-2018 19:27:17 | Chrome70 | 74.214.46.99 | Web | | | I regularly travel through | Richmond | | | | | downtown | | | | |
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| old-010319- portroyalstudy.metroqu est.com | 3332650 | 4-12-2018 23:59:47 | Chrome70 | 184.21.46.46 | Mobile | | | I live in central point and get my mail at post office in Port Royal. Plus I go to King George to visit my son. | King George and Maryland. | Speeding | No | Nothing | Leaving the post office parking lot needs a light. | Less car lots. | Nothing | | | |
|---|---------|--------------------|----------|----------------|--------|--|----------|--|---|--|--|---|--|---|--|-------|-------|-------------------------------|
| old-010319- portroyalstudy.metroqu est.com | 3332729 | 5-12-2018 03:19:40 | Mozilla | 216.10.186.155 | Mobile | | | I travel through Port Royal and live nearby. | Both | Volume within the community | Balance need for moving traffic with need to preserve town viability | Median separation between north and southbound traffic | Need improvement along entire path between 17 and king George county | History | Concrete median divider between north and southbound 301 | | | |
| old-010319- portroyalstudy.metroqu est.com | 3332752 | 5-12-2018 07:02:32 | Chrome70 | 174.226.6.6 | Web | | | l live in Port Royal. | Home, work, & shopping. | Thru traffic & Tractor Trailers-Garbage Trucks traveling at high speeds. | Horne's parking lot is an accident prone area. Travelers pulling in and | Historical Marker Signs. | Horne's | The Historic Value & Small Town Rural Feel. | Less traffic. | | | |
| old-010319- portroyalstudy.metroqu est.com | 3332795 | 5-12-2018 12:49:22 | Safari11 | 174.204.21.248 | | Thanks for considering Port Royal and asking for input!! | 41 to 60 | l live in Port Royal. | Dahlgren, Fredericksburg, Richmond, Yorktown. | Drivers speeding | l do not think crime is very high, but would like surveillance (cameras) if it is not already implemented. | | Cross walks with the button you push to activate it on 301 (parallel to Rt 17). | History and quaint shopping. | Safer turning (longer lanes). | 22535 | 22448 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | 3332886 | 5-12-2018 15:35:56 | Chrome70 | 174.226.13.13 | Mobile | | | Visit Port Royal and live nearby | Visit friends/travel thru to Tappahannock. | | | | | | | | | |
| est.com old-010319- portroyalstudy.metroqu est.com | 3333516 | 6-12-2018 05:13:51 | Mozilla | 71.171.84.40 | Web | | | Commute through it. | Tappahannock, bowling green, Fredericksburg, dahlgren | Being rear ended trying to turn onto 17north from 301 south. | Speed limit seems inappropriate. | dedicated turn lanes from 301 to 17. Longer storage for cars turning from 301 south to 17 south | | Historic sites. | Significant change would be a bypass. Minor change would be improved/longer or new turn lanes. | | | |
| old-010319- portroyalstudy.metroqu | 3333744 | 6-12-2018 16:06:08 | Chrome64 | 198.0.16.229 | Web | | | I value Virginia's mobility and small towns | King George, Bowling Green | Access Management, throughput | | Raised median with left turn lanes at appropriate | | lower speed limit | sidewalk on the northbound side only | | | |
| est.com old-010319- portroyalstudy.metroqu est.com | 3336101 | 7-12-2018 20:13:48 | Chrome70 | 50.246.114.209 | Web | | | Church officer (Memorial baptist) traveling 3-4 times a week | travel to Port Royal to Rt. 17 and in town | Safety maintained speed not accelerated | many off streets to destinations | locations. trees obstructing view up and down road | elderly are asking for pedestrian access to post office | small town | divert/reduce large truck traffic | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336103 | 7-12-2018 20:19:40 | Chrome70 | 50.246.114.209 | Web | | | Member of Memorial Baptist Church. I live in K.G. | | Making a left turn off of 301 onto Water Street | Where are "the barriers" going to be placed and what provisions to make left turns. | | ? | ? | ? | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336110 | 7-12-2018 20:22:31 | Chrome70 | 50.246.114.209 | Web | | | I live in Portobago Bay; Port Royal. I regularly travel through P.R. I am concerned about the historic museums, historic homes, and businesses and residences in P.R. | | That through traffic not overwhelm the town. People need access to businesses to keep them in business. Need access to the post office, historic museum, historic houses, library, churches, fire house. This should take precedence over travelers passing through. | | Speed signs be easily seen. Keep the radar posted speeds - very helpful. | To Post Office, to Town Center and Library and playground, to churches, museums and historic houses. | Preserve its history. | Make entrances more visible and easier to access to businesses etc. For example, it is hard now to turn into the post office. Hard to really determine entrance. | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336151 | 7-12-2018 21:17:20 | Chrome70 | 50.246.114.209 | Web | | | I'm very close to and involved in town and historic affairs | | Heavy traffic and access to post office and businesses | No - I have been well informed | Speed control, access to businesses and safety fo residents | | Historic homes and character | Reroute through traffic | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336162 | 7-12-2018 21:38:54 | Chrome70 | 50.246.114.209 | Web | | | Historical society member, visitor | Southern VA, Bowling Green | Speed of traffic passing through Port Royal, no pull offs for traffic entering businesses | - | Rumble strips, unmanned radar | The historic areas!!! | The historic areas!!! | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336163 | 7-12-2018 21:40:08 | Chrome70 | 50.246.114.209 | Web | | | I live in Port Royal and I value its historical resources. | visit family, go shopping and to other businesses. | traffic causing back ups | elongate existing turn lane (L) on 301 and onto | Turn lane down center of 301. So afraid 'I'll get rear ended when I try to turn into post office or Randolph's. | stoplight and perhaps | The Port Royal tavern and chimneys, historic homes | Maybe we need a commuter lot and commuter buses. | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336168 | 7-12-2018 21:50:26 | Chrome70 | 50.246.114.209 | Web | | | I do not live in Port Royal but I own businesses in Port Royal which I regularly visit. I also attend regularly Historic Port Royal events as well as antique shops. | travel to Richmond and | Extreme high speeds, no turn off lanes, no trees or other beautification projects. | - | Install high speed cameras; install turn off lanes for those businesses who need them and also for historical events | Speed cameras in middle of 301 and also before bridge | Port Royal is a historic gem which must be preserved while allowing access | install bumpers and high speed cameras and turn off lanes | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336170 | 7-12-2018 21:52:47 | Chrome70 | 50.246.114.209 | Web | | | I have a shop | I have a shop in Port Royal | Cars so fast | | Put camera in because cars are speeding more rev. | Town needs to open more than 2 hours one day at least three days a | Historical | Camera number 1 | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336175 | 7-12-2018 21:56:02 | Chrome70 | 50.246.114.209 | Web | | | 40 year resident, member of town council, president of port royal volunteer fire department | port royal volunteer fire | Too much traffic through town | | One more stop light to slow traffic | week In front of the post office | Peace and quiet | See #5 no engine breaking on tractor trailers | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336177 | 7-12-2018 21:59:03 | Chrome70 | 50.246.114.209 | Web | | | Firefighter EMT, training officer | | | vehicles can trip at | A traffic control light in the Town at Back Street or Cumberland | | | | | | |

| old-010319- portroyalstudy.metroqu est.com | 3336188 | 7-12-2018 22:07:53 | Chrome70 | 50.246.114.209 | Web | | | Love going to flea marts and Hornes! | Bowling Green, King George | Turning lanes | Need turning lanes | Turning lanes | Thru the town where the shops and dealers need turning lanes | The river and historical areas | Turning lanes, lower speed | | | |
|--|---------|---------------------|--------------------|----------------|--------|---|----------|---|---|---|---|--|--|--|--|-------|-------|-------------------------------|
| old-010319- portroyalstudy.metroqu | 3336195 | 7-12-2018 22:10:49 | Chrome70 | 50.246.114.209 | Web | | 41 to 60 | I was raised in Port Royal and love the historic's | King George | Stop lights need improvements | No | Nothing love the old buildings | Near Hornes should have a pedestrian walk way | The River | Turning lanes | 22546 | | WhiteCaucasianNonHisp anic |
| est.com old-010319- portroyalstudy.metroqu est.com | 3336717 | 8-12-2018 22:27:29 | Chrome70 | 173.44.65.138 | Web | Thank you for listening. | 61 to 80 | Resident of town since 1982; wife and three children. Chairman, planning commission for about 18+ years. Member Town Council about 2+ years. | Board of Supervisors and goes to Bowling Green often. We use Rt. 301 to Port Conway Road, | Rt. 301 being an arterial corridor to move traffic vs. Main Street (the real name of the street, Rt. 301. Shutting down left turns will hurt business, frustrate residents, and just move the turn movements to up or down the road, not eliminate the hazards. Speed limits are also a function of the conflict between Main Street vs. Arterial Corridor. 2) Near term increase of traffic as VDOT directs traffic from I-95 due to projects from Stafford tc Fredericksburg and long term impacts of opening | intensify to the detriment of all stakeholders. More accidents between cars and pedestrians will occur. Traffic is also a function of others, beyond town residents with linkages to the town. We have churches, a fire department and fire hall for social events, a fishing pier for the general public, a boat launch, and cultural assets such as the Port Royal Museum, signage | bypass proposed by Ale. Long. That paired bypass accomplishes many solutions, including addressing the left turn movements of people going east; IF a traffic circle is constructed on Rt. 17, allowing the southboun traffic to maneuver east without stopping. ALSO, it is necessary to have a linkage between the town and the two paired bypass routes; and Cumberland Street is best, and is where the fire department is located. A traffic circle should also be used at Cumberland and the | the town, sidewalks, I landscaping, SWM, and other improvements for vitality of the community and functioning of Route 301. Different speed limits for Main Street and the bypass; 35 and 45-55, respectively. | functioning Main Street as a transportation asse to the Virginia and the community. STATE OF THIS area include residents, nearby communities and residents, businesses, | Cumberland Street to the southbound bypas, using a traffic circle and a 'T' at the traffic circle, d opposite the Cumberland St. linkage, to access the large land f tracts. | 22535 | 22401 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3336769 | 9-12-2018 00:39:42 | Safari12 | 71.171.117.39 | Web | thanks for asking | 61 to 80 | we live in Fredericksburg and have friends in and near Port Royal. We greatly value its historic character | friends in PR and then or toward Colonial beach | we have never really had a problem in that area | please give great consideration and respect to the historic character of the area. | we didn't realize that it needed much | not really able to give a thoughtful answer | all of the older buildings the historic chimneys across the road, the open space | , slower traffic | 22401 | 22401 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3336812 | 9-12-2018 02:49:53 | Safari12 | 71.171.100.240 | Web | | | I value Port Royal's unique historic resources | | Over development and preservation of its unique historic nature. | Not really | Reduces speed and light to allow access to the community. | ts | The unique nature of its historic structures. | Lower speeds on 301 and lights allowing safe access to and from the town along 301 | | | |
| old-010319- portroyalstudy.metroqu est.com | 3336869 | 9-12-2018 12:05:51 | InternetExplorer11 | 74.214.49.217 | Web | Thank you for taking the time to listen to people who will be affected by the plan to funnel more traffic through this historic town1 | 61 to 80 | l live in the town of Port Royal. | I use 301 to go to King George, Richmond, Bowling Green, Washington DC, Fredericksburgeveryw here! | Increased traffic | Route 301 is Port Royal's Main Street! Especially on weekends, 301 is already clogged. I hate to think how even more traffic will impact our little town! | Speed limit enforcement! | Sidewalks and wider lanes with a median strip where pedestrians could find safety when crossing 301 within the town boundaries, | | | 22535 | 22401 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3336967 | 9-12-2018 18:21:55 | Safari12 | 172.243.128.62 | Web | | 61 to 80 | I live in the Port Royal area and go to/from Port Royal almost daily. I am also concerned about the historic buildings and roads in the area. The intersection at Hornes is dangerous because people turn into that parking lot with little or no notice all the time. Also people park on parking spaces right on the line of view from the traffic light toward Bowing Green. They should not be allowed to park there - only right next to the building. | George, Bowling Green, Tappahannock | | the bridge from the North and how to slow drivers through town/Main Street when going North. How to handle traffic better and safer at the 301/17 | | Mentioned previously. Approaching the bridge from the King George side going into Port Royal. Allowing drivers to be better able to turn left off of Route 301 in Port Royal when heading North: Post Office especially, museum, Randolph's, etc. Get the highway department vehicles and equipment out of Randolph's driveway area - unsightly and clogs up getting in and out of the restaurant. | | Speed cameras. | 22535 | 22535 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3337008 | 9-12-2018 20:34:26 | Mozilla | 74.214.48.66 | Mobile | | | I live here | Route 17 301 going to bowling green and king George | People not doing speed limit | People need to slow down I've got hit almost numerous times | Speed | Gas stations post office and the new restruant | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3337124 | 10-12-2018 01:29:30 | Safari11 | 69.142.201.218 | Mobile | | | I regularly travel through Port Royal and use to live here | From New Jersey via 301 to a bowling green | | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3337148 | 10-12-2018 02:39:15 | Chrome64 | 174.204.37.177 | Web | | | I regularly travel through Port Royal and live in | weekly post office trips, visits to Maryland, other businesses in Port Royal, Ymca in King George | commercial hauling | | find an alternative route for the heavy traffic. | e intersection of 301 and 17 is not at all conducive for crossing the intersection by bike or foot. | | Offer an alternative route for tractor trailers. | 22535 | | |

| -14 010210 | 2220402 | 11 12 2010 01.41.21 | Manilla Manilla | 71 2 162 152 | 14/-b | ı | C | T- + | C-: f +b - + +- | The businesses alone the | | Milhingthan than tarring of Dont | The biskesis available and | Dt- 201d-th- | 1 | | |
|---|--|--|---|---|--------------------------|--------------|--|--|--|---|---|--|--|---|-------|-------|--|
| old-010319- portroyalstudy.metroqu | 3338102 | 11-12-2018 01:41:21 | Mozilla | 71.2.163.152 | Web | | Grew up in the area; travel through | or to travel to Washington, | Going from the town to turn left towards | 301 corridor are | interchange at 17 and | Royal perhaps it might | | Re-route 301 around the town to the east (again, | | | |
| est.com | | | | | | | occasionally; fan of | Green. | Bowling Green is always | | 301 would be nice, but I | | | not in the cards). Middle | | | |
| | | | | | | | Virginia history. | | an adventure. The | | | | 1950s neon light quality | position though? Find | | | |
| | | | | | | | | | interchange at Rt. 17 and | | | | of the strip. There really | | | | |
| | | | | | | | | | Rt. 301 get a bit trickier | | | town and then the ability | | turning from the town | | | |
| | | | | | | | | | every year. | seem to be as good as | | to "walk" the stores, but | | heading towards Bowling | | | |
| | | | | | | | | | | they are going to get | a net positive. | | enhance the latter while | Green. | | | |
| | | | | | | | | | | with traffic. | | probably more | protecting the former? | | | | |
| | | | | | | | | | | | | time/money intensive than the town can | Even better. | | | | |
| | | | | | | | | | | | | afford! | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| old-010319- | 3338931 | 11-12-2018 21:43:24 | Chrome70 | 99.113.165.180 | Web | 25 and under | | | | | | | none | | 30144 | | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | | | | | | | | | | | | anic |
| old-010319- | 3342645 | 16-12-2018 04:51:22 | Chrome71 | 70.186.206.114 | Web | 61 to 80 | I regularly travel to Port | | The speed limit between | | Speed control | Water St onto 301 | | Perhaps a signal midway | 23061 | | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu est.com | | | | | | | Royal to support their historic programs and | also occasionally travel through on my way to 95 | 17 and the bridge makes | | | | done such a heartfelt and dedicated job of | between the bridge and | | | anic |
| est.com | | | | | | | | and Spotsylvania, and | | | | | preserving the integrity | 17 | | | |
| | | | | | | | little jewel of a town. | seldom to Baltimore and | | | | | and history of this quaint | | | | |
| | | | | | | | - | points north. | opinion. | | | | piece of colonial history | | | | |
| | | | | | | | | | | | | | it would be a shame to | | | | |
| | | | | | | | | | | | | | see it imposed upon by | | | | |
| | | | | | | | | | | | | | any widening of 301 or forced removal of | | | | |
| | | | | | | | | | | | | | historic propertties | | | | |
| | | | | | | | | | | | | | matoric properties | | | | |
| | | | | | | | | | | | | | | | | | |
| old-010319- | 3343103 | 17-12-2018 17:57:13 | Mozilla | 174.204.22.52 | Mobile | 61 to 80 | We live in Dogue | Rt 17 to go to | People speeding | Need more cops to get | | | The old historic buildings | | 22485 | | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu | | | | | | | | Tappahannock or | | speeders | | | | | | | anic |
| est.com | | | | | | | | Cosner's Corner we also | | | | | | | | | |
| | | | | | | | | 301 to go to 460 east | | | | | | | | | |
| old-010319- | 3343125 | 17-12-2018 18:09:18 | Chrome71 | 174.204.39.204 | Mobile | | I regularly travel | I mainly use route 17 to | | Widen 17S at | + | 1 | | | | + | |
| portroyalstudy.metroqu | 3343123 | 17 12 2010 10.03.10 | chiome/1 | 174.204.33.204 | Wioblic | | through. | get to Essex and | | intersection. | | | | | | | |
| est.com | | | | | | | | Mathews county. | | | | | | | | | |
| old-010319- | 3343157 | 17-12-2018 18:24:22 | Chrome71 | 174.205.13.114 | Mobile | | None | None | | | | | | | | | |
| old-010319- | 3343191 | 17-12-2018 19:00:58 | Mozilla | 107.77.204.124 | Mobile | | I travel daily through | To trave to work | | | | | | | | | |
| portroyalstudy.metroqu | | | | | | | port royal | | | | | | | | | | |
| old-010319- | 3343265 | 17-12-2018 20:38:21 | Firefox64 | 76.120.249.229 | Web | 61 to 80 | I travel through Port | Driving to Raleigh NC | Heavy traffic and | No. | Frontage roads for local | NA | The old houses and | Rt 17 overpass. | 22556 | 22556 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu est.com | | | | | | | Royal and I vale it's historic importance. | and back from Stafford. (I hate I-95) | congestion making stops at historic sites and local | | traffic to keep the 301 through traffic out. | | historic sites on the West Side and the | | | | anic |
| est.com | | | | | | | mstoric importance. | | | | tinough traine out. | | Stuckeys to the East. | | | | |
| | | | | | | | | | restaurants difficult if | | | | | | | | |
| | | | | | | | | | restaurants difficult if not dangerous. | | | | Stuckeys to the East. | | | | |
| | | | | | | | | | | | | | Stuckeys to the East. | | | | |
| old-010319- | 3343371 | 17-12-2018 22:04:15 | Chrome71 | 70.106.140.79 | Mobile | | Travel through Port | To Richmond, Bowling | not dangerous. Speed limit signs need to | | | | It has many historic | | | | |
| portroyal study. metroqu | 3343371 | 17-12-2018 22:04:15 | Chrome71 | 70.106.140.79 | Mobile | | Royal several times a | To Richmond, Bowling Green, Fredericksburg | not dangerous. Speed limit signs need to | So far, it has been fine for me. No problems. | | | It has many historic buildings that need | | | | |
| | 3343371 | 17-12-2018 22:04:15 | Chrome71 | 70.106.140.79 | Mobile | | | To Richmond, Bowling | not dangerous. Speed limit signs need to | | | | It has many historic | | | | |
| portroyalstudy.metroqu est.com | | | | | | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. | not dangerous. Speed limit signs need to be more obvious. | for me. No problems. | Ditches cleaned out so | | It has many historic buildings that need money for preservation. | Cattle crossing at the | 22535 | | WhiteCaucasianNonHisn |
| portroyalstudy.metroqu est.com old-010319- | | 17-12-2018 22:04:15 17-12-2018 22:07:48 | Chrome71 Mozilla | 70.106.140.79 74.214.48.66 | Mobile Mobile | 61 to 80 | Royal several times a | To Richmond, Bowling Green, Fredericksburg | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the | for me. No problems. Need a bigger turning | Ditches cleaned out so | They need a flashing | It has many historic buildings that need money for preservation. | Cattle crossing at the traffic light and coming | 22535 | | WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu est.com | | | | | | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city | for me. No problems. Need a bigger turning | Ditches cleaned out so o there won't be no need for high water signs. | They need a flashing | It has many historic buildings that need money for preservation. All the historic houses to | Cattle crossing at the traffic light and coming over the bridge from | 22535 | | WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city | for me. No problems. Need a bigger turning lane at the traffic light to | there won't be no need for high water signs. State needs to put grave | They need a flashing crosswalk for people that go to the post | It has many historic buildings that need money for preservation. All the historic houses to to be restored not | traffic light and coming | 22535 | | White Caucasian Non Hispanic |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city | for me. No problems. Need a bigger turning lane at the traffic light to go toward | there won't be no need for high water signs. State needs to put grave on the side of the road | They need a flashing crosswalk for people that go to the post | It has many historic buildings that need money for preservation. All the historic houses to to be restored not | traffic light and coming over the bridge from | 22535 | | WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city | for me. No problems. Need a bigger turning lane at the traffic light to go toward | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to | They need a flashing crosswalk for people that go to the post | It has many historic buildings that need money for preservation. All the historic houses to to be restored not | traffic light and coming over the bridge from | 22535 | | WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city | for me. No problems. Need a bigger turning lane at the traffic light to go toward | o there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or | They need a flashing crosswalk for people that go to the post | It has many historic buildings that need money for preservation. All the historic houses to to be restored not | traffic light and coming over the bridge from | 22535 | | WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | | | | | | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city | for me. No problems. Need a bigger turning lane at the traffic light to go toward | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to | They need a flashing crosswalk for people that go to the post | It has many historic buildings that need money for preservation. All the historic houses to to be restored not | traffic light and coming over the bridge from | 22535 | | WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3343381 | 17-12-2018 22:07:48 | | 74.214.48.66 | | | Royal several times a year. I live in Port Royal | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city | for me. No problems. Need a bigger turning lane at the traffic light to go toward tappahanncok. | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or residential area. | They need a flashing crosswalk for people that go to the post office. | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. | traffic light and coming over the bridge from King George | | | anic . |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu | 3343381 | | Mozilla | | Mobile | 61 to 80 | Royal several times a year. | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city limits | for me. No problems. Need a bigger turning lane at the traffic light to go toward tappahanncok. | o there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or | They need a flashing crosswalk for people that go to the post office. Most notably the section | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. | traffic light and coming over the bridge from | | | WhiteCaucasianNonHisp anic WhiteCaucasianNonHisp anic |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3343381 | 17-12-2018 22:07:48 | Mozilla | 74.214.48.66 | Mobile | 41 to 60 | Royal several times a year. I live in Port Royal I work in Port Royal and | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green Mostly travel to the Town of Port Royal for | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city limits Traffic speeds in the area crossing the | for me. No problems. Need a bigger turning lane at the traffic light to go toward tappahanncok. It is a speed trap for | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or residential area. | They need a flashing crosswalk for people that go to the post office. Most notably the section of AP Hill Blvd from | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. | traffic light and coming over the bridge from King George | | | anic . |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3343381 | 17-12-2018 22:07:48 | Mozilla | 74.214.48.66 | Mobile | 41 to 60 | Royal several times a year. I live in Port Royal I work in Port Royal and am interested in seeing | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green Mostly travel to the Town of Port Royal for dining or antique shopping or travel | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city limits Traffic speeds in the area crossing the Rappahannock River Bridge mostly coming | Need a bigger turning lane at the traffic light to go toward tappahanncok. It is a speed trap for State Troopers where the speed drops so rapidly traveling both | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or residential area. Adding some nicer sidewalks, bike paths, cross walks and access to both sides of the | They need a flashing crosswalk for people that go to the post office. Most notably the section of AP Hill Blvd from Tidewater Trail to the Rappahannock River | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. The antique shops, family and seafood | traffic light and coming over the bridge from King George Safe pedestrian access with possible waterfront improvements so pedestrians can cross | | | anic . |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3343381 | 17-12-2018 22:07:48 | Mozilla | 74.214.48.66 | Mobile | 41 to 60 | Royal several times a year. I live in Port Royal I work in Port Royal and am interested in seeing the town experience | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green Mostly travel to the Town of Port Royal for dining or antique shopping or travel through Port Royal to | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city limits Traffic speeds in the area crossing the Rappahannock River | Need a bigger turning lane at the traffic light to go toward tappahanncok. It is a speed trap for State Troopers where the speed drops so rapidly traveling both north and South on 301. | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or residential area. Adding some nicer sidewalks, bike paths, cross walks and access to both sides of the route may help the town | They need a flashing crosswalk for people that go to the post office. Most notably the section of AP Hill Blvd from Tidewater Trail to the Rappahannock River Bridge. | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. The antique shops, family and seafood restaurants and | traffic light and coming over the bridge from King George Safe pedestrian access with possible waterfront improvements so pedestrians can cross under the bridge by the | | | anic . |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3343381 | 17-12-2018 22:07:48 | Mozilla | 74.214.48.66 | Mobile | 41 to 60 | Royal several times a year. I live in Port Royal I work in Port Royal and am interested in seeing the town experience | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green Mostly travel to the Town of Port Royal for dining or antique shopping or travel through Port Royal to travel to similar | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city limits Traffic speeds in the area crossing the Rappahannock River Bridge mostly coming | Need a bigger turning lane at the traffic light to go toward tappahanncok. It is a speed trap for State Troopers where the speed drops so rapidly traveling both north and South on 301. However, I believe this | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or residential area. Adding some nicer sidewalks, bike paths, cross walks and access to both sides of the route may help the town with growth and narrow | They need a flashing crosswalk for people that go to the post office. Most notably the section of AP Hill Blvd from Tidewater Trail to the Rappahannock River Bridge. | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. The antique shops, family and seafood restaurants and | traffic light and coming over the bridge from King George Safe pedestrian access with possible waterfront improvements so pedestrians can cross under the bridge by the river to access business | | | anic . |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3343381 | 17-12-2018 22:07:48 | Mozilla | 74.214.48.66 | Mobile | 41 to 60 | Royal several times a year. I live in Port Royal I work in Port Royal and am interested in seeing the town experience | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green Mostly travel to the Town of Port Royal for dining or antique shopping or travel through Port Royal to travel to similar destinations or National | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city limits Traffic speeds in the area crossing the Rappahannock River Bridge mostly coming from King George. | for me. No problems. Need a bigger turning lane at the traffic light to go toward tappahanncok. It is a speed trap for State Troopers where the speed drops so rapidly traveling both north and South on 301. However, I believe this has had little | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or residential area. Adding some nicer sidewalks, bike paths, cross walks and access to both sides of the route may help the town with growth and narrow the gap for the travel | They need a flashing crosswalk for people that go to the post office. Most notably the section of AP Hill Blvd from Tidewater Trail to the Rappahannock River Bridge. | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. The antique shops, family and seafood restaurants and | traffic light and coming over the bridge from King George Safe pedestrian access with possible waterfront improvements so pedestrians can cross under the bridge by the river to access business on either side. (Under | | | anic . |
| portroyalstudy.metroqu est.com old-010319- portroyalstudy.metroqu est.com | 3343381 | 17-12-2018 22:07:48 | Mozilla | 74.214.48.66 | Mobile | 41 to 60 | Royal several times a year. I live in Port Royal I work in Port Royal and am interested in seeing the town experience | To Richmond, Bowling Green, Fredericksburg via Rt 17. King George, Fredericksburg, Tappahannock, Bowling Green Mostly travel to the Town of Port Royal for dining or antique shopping or travel through Port Royal to travel to similar destinations or National Parks and Historical sites | not dangerous. Speed limit signs need to be more obvious. Traffic not obeying the speed limit in the city limits Traffic speeds in the area crossing the Rappahannock River Bridge mostly coming from King George. | Need a bigger turning lane at the traffic light to go toward tappahanncok. It is a speed trap for State Troopers where the speed drops so rapidly traveling both north and South on 301. However, I believe this has had little consequence on the | there won't be no need for high water signs. State needs to put grave on the side of the road the needs to be filled to go into a business or residential area. Adding some nicer sidewalks, bike paths, cross walks and access to both sides of the route may help the towr with growth and narrow the gap for the travel lanes to slow/calm the | They need a flashing crosswalk for people that go to the post office. Most notably the section of AP Hill Blvd from Tidewater Trail to the Rappahannock River Bridge. | It has many historic buildings that need money for preservation. All the historic houses to to be restored not removed. The antique shops, family and seafood restaurants and | traffic light and coming over the bridge from King George Safe pedestrian access with possible waterfront improvements so pedestrians can cross under the bridge by the river to access business | | | anic . |
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|--|---------|---------------------|--------------------|----------------|--------|---|----------|---|--|--|--|--|---|--|---|-------|-------|-------------------------------|
| old-010319- portroyalstudy.metroqu est.com | 3343627 | 18-12-2018 06:10:10 | Chrome71 | 69.161.111.57 | Web | | | Port Royal for business. | I often use Port Royal to go from Tappahannock to clients in King George, Colonial Beach, and to | | | | | | | | | |
| | | | | | | | | | meeting in Northern Virginia | | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346279 | 21-12-2018 11:56:23 | Chrome59 | 209.42.129.189 | Mobile | | | l travel through Port Royal | Traveling from King George to Richmond, and to visit my son who lives near Bowling Green. Also if we are going towards Virginia Beach. | People driving over the speed limit | | | Have seldom seen pedestrians | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346280 | 21-12-2018 11:57:32 | Chrome71 | 174.204.1.22 | Mobile | | | Travel regularly | Mechanicsville | Intersection of bypass and 301. | Improve access to 301 from AP Hill, seems traffic merges | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346281 | 21-12-2018 11:57:51 | Chrome71 | 107.77.204.219 | Mobile | I actually think the configuration of the area is in pretty good shape. | 41 to 60 | We occasionally travel through Port Royal | King's Dominion and RIC most often | Enforcement of the current speed limit to promote safety | dangerously. I would just like to see regular enforcement of the current speed limit. | • | No | Nothing comes to mind | Simply enforcing what's there. I think otherwise things are very good there. | 22485 | 22448 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3346285 | 21-12-2018 12:11:18 | Chrome71 | 174.204.38.220 | Mobile | | 26 to 40 | I travel through Port Royal | Fredericksburg and Dawn | Going over the new set speed limit | It is hard to stay at a consistent speed of 35 seems like it should be a little bit faster for that area | | | | Veer of lanes when turning on route 17 from both north and southbound of 301 | 22485 | 22485 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3346286 | 21-12-2018 12:14:54 | Mozilla | 204.148.24.254 | Mobile | | | I trace through Port Royal. | To go to Spotsylvania Regional Medical Centee; to shop in Spotsylvania; to do activities on Rt 17 farms. | to the hospital quickly. The speed limit is slow due to being in a town. | Need to be able to get to Rt 17 without delay when it's an emergency | to Be able to go faster and around the town so tongit Rt 17 without going into the town. A bypass | | | Bypass around the small town | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346291 | 21-12-2018 12:26:26 | Mozilla | 100.7.195.178 | Mobile | | 41 to 60 | Regularly travel through | Colonial Beach to RVA | Abrupt slowdown in the bridge and inattentive drivers. | | Reduce speed ahead signs going towards Port Royal from route 3. Distance to Port Royal signs when coming from I-95. | | Tiny town charm | Flashing sign before bridge to slow traffic down | 22443 | 22443 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | 3346292 | 21-12-2018 12:28:08 | Chrome68 | 107.77.203.36 | Mobile | | | Travel regularly threw area | Rt 2 new post | | | People doing speed limit | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346293 | 21-12-2018 12:31:20 | Chrome64 | 162.210.27.109 | Web | | 61 to 80 | l travel through Port Royal | Beyond Port Royal to Fredericksburg | The speed limit change as you come across bridge. Speed trap. It should stay 45 from bridge to 17 light. | | no | no | | | 22443 | 22443 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3346294 | 21-12-2018 12:32:38 | Chrome71 | 74.214.55.251 | Mobile | | | I travel regularly to and through as I live in King George. | I travel 301 from King George to Bowling green several times a week. Weekends I travel 301 into Port Royal to use the boat ramp and/or pier. | Out of town speeders, mostly consisting of Maryland plates. | I was happy to see the speed limit dropped to 35 through the entire area. | | Due to the lack of parking for the county pier, it would be nice to see a cross walk put in from the restaurant at the bridge over to Water Street. | The boat ramp | No suggestion | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346295 | 21-12-2018 12:38:02 | Chrome64 | 73.251.118.173 | Web | | 41 to 60 | I regularly travel through Port Royal | and Maryland | Seems a well traveled road. Most of the issues stem around an unrealistic 35 MPH Speed limit with limited business necessitating that slow a Speed. | | A turning lane median for left hand Turns. Round-abouts are a good way to slow traffic without impeding the flow. | helpful. | Not a Resident, but it needs more convenience areas. | Turn Median | 23831 | 23831 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3346296 | 21-12-2018 12:44:14 | InternetExplorer11 | 138.162.0.41 | Web | | 41 to 60 | I commute through Port Royal, 5-6 days a week. | | Southbound on 301 to turning westbound on Rt 17. Even with the lower speed limit, cars are hauling through there. Waiting to get rear ended while trying to make the turn. | lane where the closed | Need a separate turn lane where the closed paving/brick place is located. | Not for the area I drive through. | Love the antique places | Just a separate turn lane for westbound 17 from Southbound 301 | 22407 | 22448 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3346298 | 21-12-2018 12:45:17 | Chrome71 | 24.245.106.86 | Mobile | | | I travel through there weekly | | The fact that people don't slow down in the 35 mile zone | Not that I can think of. | It's a pretty straight shot | , | Nothing | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346302 | 21-12-2018 13:01:08 | Chrome71 | 65.99.124.6 | Mobile | | | I take drive through P.R to get I95 S. regularly. | To get to Work. | A volume of traffic. | | I like the idea of widening the roads but I would like to preserve the look of the small town. | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3346309 | 21-12-2018 13:28:31 | Firefox64 | 174.204.22.51 | Mobile | | | I live 3 miles away and regularly travel and eat in Port Royal. | Hornes, Fredericksburg, points South (AP Hill, Kings Dominion, Richmond, etc.) | I don't have any | No issues at this time | Nothing | Not that I can think of | I love the small town feel, the restaurants | | | | |
| old-010319- portroyalstudy.metroqu | 3346325 | 21-12-2018 13:58:56 | Chrome71 | 174.226.12.238 | Mobile | | 41 to 60 | Traveler, often pass thro | Richmond, doswel | None | None | Really strong road reflectors | No | Main street | Improved road reflectors | 22520 | 22520 | Other |

| old-010319- portroyalstudy.metroqu est.com | 3346326 | 21-12-2018 14:02:17 | Chrome71 | 71.63.117.210 | Mobile | | | Drive thru, appreciate the old buildings | Traveling to second home in Colonial Beach from Richmond | Keep the lower speed constant from 17 to Rapp bridge | | It's fine, as long as everything drives posted speed | | | | 23233 | | WhiteCaucasianNonHisp anic |
|--|---------|---------------------|----------|----------------|--------|---|----------|--|---|---|--|--|--|---|--|-------|-------|-------------------------------|
| old-010319- | 3346340 | 21-12-2018 14:15:39 | Chrome71 | 74.214.53.56 | Web | 4 | 11 to 60 | I travel through | Fredericksburg or King | It's set up as a speed | no | better signage for speed | | I don't stop so a bypass | Bypass town | 22485 | 22485 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu old-010319- | 3346361 | 21-12-2018 14:49:43 | Chrome71 | 96.247.193.198 | Mobile | | | Travel through Port | George Heading South and | trap. None | No | limit changes None | No | is a great idea. Historic sites | None | | | anic |
| portroyalstudy.metroqu old-010319- | 3346408 | 21-12-2018 15:31:37 | Mozilla | 174.254.70.101 | Mobile | | | Royal I regularly travel through | return King George | | | | | | | | | |
| portroyalstudy.metroqu | | | | | | | | port royal | | The second limit into AD | The Bales of a cold for | Turning lange | | Historia di com | | 22405 | 22405 | |
| old-010319- portroyalstudy.metroqu est.com | 3346799 | 21-12-2018 20:14:05 | Chrome71 | 173.44.67.166 | Mobile | | | I regularly travel through port royal | | The speed limit into AP Hill is too slow to get up the hill. | | Turning lanes | | Historic charm | | 22485 | 22485 | |
| old-010319- portroyalstudy.metroqu est.com | 3346865 | 21-12-2018 20:55:00 | Mozilla | 107.77.202.198 | Mobile | | | I live in king George and drive there 1 to 2 times a month | | The speed limit drop | | | | | | | | |
| old-010319- portroyalstudy.metroqu | 3347051 | 21-12-2018 23:38:51 | Chrome71 | 24.153.33.162 | Web | 4 | 11 to 60 | I regularly travel through Port Royal | Richmond to King George | Bottleneck when traveling south from | Speed limit is too low | Increase the speed limit, streamline the traffic | I don't see much pedistrian traffic but it | none specifically related to 301. most everything | increase the speed limit | 22815 | 22485 | WhiteCaucasianNonHisp |
| est.com | | | | | | | | ruit kuyai | | King George at the bridge. Bottleneck at the light traveling north at | | | should be considered as | | 011 301 | | | ant |
| old-010319- | 3347052 | 21-12-2018 23:49:47 | Mozilla | 173.44.66.127 | Mobile | 2 | 26 to 40 | Live in King George but | | Needs speed cameras or | | | Not that I can think. | | | 22485 | 22401 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu est.com | | | | | | | | travel to and through Port Royal regularly. | to head to Norfolk | a better way to enforce the lower speed limit. | South, to make the left on Rt 17 needs a longer turning lane to ease traffic from backing up. | buildings. | | | | | | anic |
| old-010319- | 3347098 | 22-12-2018 01:46:22 | Chrome71 | 146.168.153.5 | Mobile | | | Travel through Port | Richmond, Spotsylvania, | Speed traps by police | Speed limit drops seem | | N/A | | | | | |
| portroyalstudy.metroqu est.com | | | | | | | | Royal; enjoy some of the restaurants and shops in Port Royal | | | drastic and 35 mph zone seems unnecessary | | | | | | | |
| old-010319- | 3347103 | 22-12-2018 02:11:24 | Mozilla | 173.44.64.45 | Mobile | | | I travel through PR | When we go to | I have no concerns. | It's nice area | It's fine the way it is | Not sure | Not sure | Speed limit is confusing | | | |
| portroyalstudy.metroqu est.com | | | | | | | | | Fredericksburg we take Rt 17 from PR. Also pass through when we go to Florida | | | | | | | | | |
| old-010319- portroyalstudy.metroqu | 3347136 | 22-12-2018 03:01:43 | Chrome71 | 162.223.180.15 | Mobile | | | I travel through PR 5 days a week on my way | From Colonial Beach to Fredericksburg five days | | | | | | | | | |
| est.com | | | | | | | | to work. | a week. Occasionally from Colonial Beach to Richmond. | | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3347152 | 22-12-2018 03:30:34 | Chrome71 | 146.168.22.252 | Web | 4 | 11 to 60 | I travel through Port Royal often and have friends there | Richmond, Fredericksburg | congestion | It's a quaint little place | I would like to see the speed limit improved from Rt 17 to the Rappahannock River | all through town by the Fire Station and the museums | the historic buildings need to be repaired not demolished | a by pass that would essentially leave the town intact | 22485 | 22405 | WhiteCaucasianNonHisp anic |
| old-010319- | 3347161 | 22-12-2018 03:45:06 | Chrome71 | 209.42.129.74 | Mobile | | | Regularly travel through | Richmond | The area serves as a | There area many areas | | Perhaps a commuter lot | | Hyperloop to Richmond. | 22485 | 22485 | Hispanic |
| portroyalstudy.metroqu est.com | | | | | | | | Port Royal from king George | | bottle neck for commercial, military, and other travelers. The speed limit is inconsistent the other roads in the area. | that lack shoulders for disabled vehicles. | for South bound traffic at the intersections. | shelter for pedestrians | | | | | |
| old-010319- portroyalstudy.metroqu | 3347189 | 22-12-2018 04:39:22 | Chrome70 | 174.204.5.24 | Mobile | 4 | 11 to 60 | I live in KG and go thru Port Royal often. | Richmond, Tappahanock and Fredericksburg | Speeding and aggressive drivers | | Less traffic for citizens | The light | The old buildings | Re-route traffic | 22485 | 22448 | WhiteCaucasianNonHisp anic |
| est.com old-010319- | 3347193 | 22-12-2018 05:34:24 | Mozilla | 74.214.39.69 | Mobile | 2 | 26 to 40 | Travel through regularly | King George, | None | I think the current set up | Nothing | | The scenic river views | Unsure | 22443 | 22401 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu est.com | | | | | | | | | Fredericksburg, Richmond. | | works well. | | pedestrians so I can't say that any improvements are needed | | | | | anic |
| old-010319- portroyalstudy.metroqu est.com | 3347200 | 22-12-2018 09:12:57 | Chrome67 | 74.214.48.222 | Mobile | 4 | 11 to 60 | l live in Port Royal. | I travel 301 from Port Royal to both King George to the north and Bowling Green to the south. | Trying to turn left onto 301 from Back Street. | There are still too many | We need either more troopers and deputies patrolling for speeders, or Port Royal needs its own pd. | Turning southbound or northbound from the opposite side of the road. | The feel of a quiet fishing village. | Lower speed limit and increase police presence. | | 22405 | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu | 3347204 | 22-12-2018 12:39:42 | Chrome59 | 65.99.113.11 | Mobile | | | Travel to and from work everyday thru town of | Work | Lines not visible enough. Especially when it rains. | | Better visibility | There is not enough businesses to warrant a | Old buildings | | | | |
| est.com old-010319- | 3347218 | 22-12-2018 15:20:20 | Chrome71 | 24.245.105.131 | Mobile | 2 | 26 to 40 | port royal. I commute through Port | I drive through port royal | Speeders. The speed | | Faster speed limit. Or a | pedestrian crossing | | | 22443 | 22407 | WhiteCaucasianNonHisp |
| portroyalstudy.metroqu est.com | | | | | | | | Royal twice a day, everyday to work. | | limit is so low, very few people do the actual speed limit. The few that do, are slowing down the speeders and they weave dangerously around the slower cars. This is especially dangerous on the bridge. | | slower speed limit sooner | | | | | | anic |
| old-010319- | 3347224 | 22-12-2018 16:14:49 | Chrome71 | 65.99.124.195 | Mobile | | | Live nearby | Home, work | Cell phone usage | Add some fast food | Fewer speed limit | No. Not enough reasons | | Eliminate driver cell | | | |
| portroyalstudy.metroqu | | 11 12 1010 10.14.45 | | 55.55.124.155 | | | | ccy | | prioric asage | | changes | to stop | | phone usage | | | |

| old-010319- | 3347263 | 23-12-2018 00:00:57 | Chrome71 | 74.214.46.119 | hu-h | l lc1+ | to 80 | live in KC ivet arress | [A44] f4:4: | Malian area I and | ı | fewer placed where | Т | ald buildings | | 22485 | 22485 | WhiteCaucasianNonHisp |
|---|---------|---------------------|----------|----------------|--------|--------|-------------------------|---|---|---|--|---|--|--|---|-------|-------|-------------------------------|
| portroyalstudy.metroqu est.com | 334/203 | 23-12-2018 00:00:57 | Chrome/1 | 74.214.46.119 | Web | 611 | | ive in KG just across ne bridge from PR. | places S on Rt 17 and Sw on 301. | | | rewer placed where people can enter into the highway | | old buildings | ease of going to the fishing pier with parking | | 22465 | wntecaucasianivonnisp |
| old-010319- portroyalstudy.metroqu est.com | 3347289 | 23-12-2018 16:33:31 | Mozilla | 174.204.14.216 | Mobile | | a | use to live in Port Royal nd still travel through ort Toyal. | | | | | | | | | | |
| old-010319- portroyalstudy.metrogu | 3347294 | 23-12-2018 17:57:06 | Mozilla | 24.153.32.215 | Mobile | | Ti | ravel through it equently | Richmond or Fredericksburg | Slow to get through the stop light | | | | | | | | |
| old-010319- portroyalstudy.metroqu | 3347305 | 24-12-2018 00:34:52 | Chrome71 | 24.153.39.98 | Mobile | | l : | regularly travel nrough. | I go to Massaponx. | stop light | | | | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3347306 | 24-12-2018 00:41:18 | Mozilla | 174.223.147.10 | Mobile | | l i | regularly travel through ort Royal | King's Dominion, Richmond, Williamsburg, Belvedere Plantation, traveling to Alabama and other southern states | It's a speed trap. | | Not be a speed trap | I never see pedestrians in Port Royal | | | | | |
| old-010319- portroyalstudy.metroqu est.com | 3347308 | 24-12-2018 01:26:08 | Chrome70 | 146.168.22.45 | Mobile | 41 t | p | regularly travel through ort Royal, and visit orne's. | Horne's, Traveling through to Richmond | Rapid deceleration down hill when northbound. | | Increase to 45mph. Northbound start 55 at bridge. | Crosswalks at Horne's | | Improve Harry nice bridge so more people use the Eastern bypass | 22485 | 22485 | |
| old-010319- portroyalstudy.metroqu est.com | 3347314 | 24-12-2018 02:17:35 | Chrome71 | 174.204.3.98 | Mobile | 41 t | | egularly travel through ort Royal | Richmond primarily | None. | Speed signs are clear and the addition of the speed measuring sign was a good idea. | Seems ok to me. | Don't know where peds cross so those areas should be better marked. Add stop light with push button for pedestrian if need be. | Small town atmosphere | Sounds like pedestrians need a safer way/place to cross | 22485 | | WhiteCaucasianNonHisp anic |
| old-010319- portroyalstudy.metroqu est.com | 3347405 | 25-12-2018 13:07:31 | Chrome70 | 174.226.8.204 | Mobile | | 11 | travel through PR | Richmond and points south and southeast | Why the drastic speed enforcement | Road is good there, commerce not large | Nothing except bigger left turn lane heading south | Sidewalks in areas | IDont have any specific | Raise speed to 45 all through PR | | | |
| old-010319- portroyalstudy.metroqu est.com | 3347421 | 26-12-2018 01:40:58 | Chrome64 | 76.104.14.65 | Web | 61 t | Pi Pi ir to | s a member of Historic ort Royal and St. eter's Episcopal Church I Port Royal, I value the own's cul;tural, historic nd religious institutions | Royal. | | | entering a congested area and the drop in speed limits. I think I | Yes, driving into Port Royal from Port Conway and at Horne's restaurant at Routes 17 and 301. There should be warning of pedestrian crossings there. | its history. | Strong speed limit warning signs entering the town from both directions. | 22546 | 22546 | WhiteCaucasianNonHisp anic |
| old-010319- | 3347422 | 26-12-2018 03:48:40 | Chrome71 | 162.223.181.5 | Mobile | | | | To get to Masaponax | | | | | | | | | |
| portroyalstudy.metroqu portroyalstudy.metroqu est.com | 3350521 | 4-1-2019 14:45:10 | Mozilla | 174.226.3.186 | Mobile | | N ai w th W | ort Royal. Iy wife and I own a 60+ cre undeveloped tract ithin the town limits at ne western terminus of /ater Street. (Tax map arcel #13-A-8) | Hanover County and turn left onto Water Street to access our property where we are planning to build a | Since the only current access to our 60+ acre property is via Route 301 and Water Street, we feel it is vital that our access is not jeopardized. | valuable collection of | | time to offer informed suggestion for pedestrian improvement, etc. | Each of the 18th & 19th century buildings warrant preservation. Additionally, the original 18th century street grid system with broad rights of-way, along with the town green space should be preserved. Utilities serving the town should be placed underground. | doing, I would listen to the advice of the town's public spirited property owners. | | | |

APPENDIX G

Transportation Options:
Cost Estimates

Route 301 Arterial Preservation Study

Route 301: Intersection Modification

Project No. 23369



Engineer's Conceptual Estimate

| | pared by: Ed Myers, P.E., Kylie Caviness, & Meredyth Sanders | | | Date: September 2019 | | | | |
|-------|---|--------------------------------|---|--|---|--|--|--|
| | | This Estimate has a Rating of: | 2B | (See ratina scale au | See rating scale guide below.) | | | |
| | ITEM | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL COST | | | |
| | | | | | | | | |
| 100 | Mobilization | LS | ALL | \$105,000.00 | \$105,000.0 | | | |
| | Traffic Control | LS | ALL | \$159,000.00 | \$159,000.0 | | | |
| | Erosion Control | LS | ALL | \$7,000.00 | \$7,000.0 | | | |
| | Removal of Structures and Obstructions | LS | ALL | \$15,000.00 | \$15,000.0 | | | |
| | Clearing and Grubbing | LS | ALL | \$10,000.00 | \$10,000.0 | | | |
| 10628 | FLEXIBLE PAVE.PLANING 0"-2" | SY | 7,178 | \$11.00 | \$78,958. | | | |
| 120 | REGULAR EXCAVATION | CY | 1,100 | \$40.00 | \$44,000.0 | | | |
| 10100 | AGGR. MATL. NO. 21B | TON | 1,660 | \$40.00 | \$66,400.0 | | | |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 800 | \$257.00 | \$205,600.0 | | | |
| 12600 | STD COMB CURB & GUTTER CG-6 | LF | 1,500 | \$25.00 | \$37,500.0 | | | |
| 10417 | TACK COAT | GAL | 5,168 | \$2.00 | \$10,336.0 | | | |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 420 | \$257.00 | \$107,940.0 | | | |
| 10642 | ASPHALT CONC. BASE COURSE TY. BM-25.0A | TON | 630 | \$140.00 | \$88,200. | | | |
| 13220 | HYDR. CEMENT CONC. SIDEWALK 4" | SY | 370 | \$42.00 | \$15,540. | | | |
| 13108 | CG-12 DETECTABLE WARNING SURFACE | SY | 20 | \$226.00 | \$4,520. | | | |
| | New Signal Heads | LS | 2 | \$284.00 | \$568. | | | |
| | Storm Water System, Complete | LS | ALL | \$208,000.00 | \$208,000. | | | |
| | Pavement Markings, Complete | LS | ALL | \$ 10,050.00 | \$10,050.0 | | | |
| | Signage, Complete | LS | ALL | \$6,000.00 | \$6,000. | | | |
| | | | | | | | | |
| | Utility Relocations | LS | ALL | \$ 140,000.00 | \$140,000. | | | |
| | Utility Relocations | | | RUCTION COST | | | | |
| | | | | | | | | |
| | ENGINEERING SUPPORT | Т | OTAL CONSTR | RUCTION COST | \$ 1,319,61 | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) | T. | OTAL CONSTR | ** 1,319,612.00 | \$ 1,319,61 \$132,000. | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection | Т | OTAL CONSTR | RUCTION COST | \$ 1,319,61 \$132,000. \$264,000. | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL | T. | OTAL CONSTR | ** 1,319,612.00 | \$140,000. \$ 1,319,61 \$132,000. \$264,000. \$ 396,00 | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed | LS LS | OTAL CONSTR 10% 20% | \$ 1,319,612.00 \$ 1,319,612.00 | \$ 1,319,61 \$132,000. \$264,000. \$ 396,00 | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | T. | OTAL CONSTR | ** 1,319,612.00 | \$ 1,319,61 \$132,000. \$264,000. \$ 396,00 | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed | LS LS SF | 0TAL CONSTR 10% 20% | \$ 1,319,612.00 \$ 1,319,612.00 | \$ 1,319,61 \$132,000. \$264,000. \$ 396,00 \$191,000. | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | LS LS | 0TAL CONSTR 10% 20% | \$ 1,319,612.00 \$ 1,319,612.00 | \$ 1,319,61 \$132,000. \$264,000. \$ 396,00 \$191,000. | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | LS LS SF | 10% 20% 19,100 | \$ 1,319,612.00 \$ 1,319,612.00 \$ 10.00 | \$ 1,319,61 \$132,000 \$264,000. \$ 396,00 \$191,000. \$ 1,906,66 | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | LS LS SF | 10% 20% 19,100 ND CONSTRUC | \$ 1,319,612.00 \$ 1,319,612.00 \$ 11.00 \$ 10.00 | \$ 1,319,61 \$132,000 \$264,000 \$ 396,00 \$ 191,000 \$ 1,906,6 \$ 571,90 | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | LS LS SF | 10% 20% 19,100 ND CONSTRUC 3 (2% per yr 2018 | \$ 1,319,612.00 \$ 1,319,612.00 \$ 10.00 \$ 10.00 \$ 10.00 \$ 200,000 \$ 200,000 \$ 200,000 \$ 310,000 \$ | \$ 1,319,61 \$132,000. \$264,000. \$ 396,00 \$ 191,000. \$ 1,906,60 \$ 571,90 \$ 793,11 | | | |
| | ENGINEERING SUPPORT Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | LS LS LS TOTAL ENGINEERING A | 10% 20% 19,100 ND CONSTRUC 3 (2% per yr 2018 | \$ 1,319,612.00 \$ 1,319,612.00 \$ 10.00 \$ 10.00 \$ 10.00 \$ 200,000 \$ 200,000 \$ 200,000 \$ 310,000 \$ | \$ 1,319,61 \$132,000. \$264,000. \$ 396,00 \$ 191,000. \$ 1,906,61 \$ 571,99 \$ 793,11 \$ 3,271,75 | | | |

| PROPERTY IMPACTS | | |
|-----------------------------------|----|--------------------|
| Potential New Right-of-way Needed | SF | 19,100 approximate |
| | | |

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Level C: No engineering performed. Educated guesstimating. Limited technical information available and/or analysis performed. Project Development and Construction Contingencies should be selected appropriately by Project Manager. Contingency may range up to 50%.

Route 301 Arterial Preservation Study

Route 301 and Route 17 Quadrant Roadway

Project No. 23369



Engineer's Conceptual Estimate

| pared | d by: Ed Myers, P.E., Kylie Caviness, & Meredyth San | Date: September 2019 | | | | |
|-------|--|--------------------------------|-------------------|-----------------|-------------|--|
| | | This Estimate has a Rating of: | 2B | uide below.) | | |
| | ITEM | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL COST | |
| | | | | | | |
| 100 | Mobilization | LS | ALL | \$245,000.00 | \$245,000 | |
| | Traffic Control | LS | ALL | \$124,000.00 | \$124,000 | |
| | Erosion Control | LS | ALL | \$18,000.00 | \$18,000 | |
| | Removal of Structures and Obstructions | LS | ALL | \$34,000.00 | \$34,000 | |
| | Clearing and Grubbing | LS | ALL | \$23,000.00 | \$23,000 | |
| 0628 | FLEXIBLE PAVE.PLANING 0"-2" | SY | 12,489 | \$11.00 | \$137,379 | |
| 120 | REGULAR EXCAVATION | CY | 2,900 | \$40.00 | \$116,000 | |
| 0100 | AGGR. MATL. NO. 21B | TON | 3,685 | \$40.00 | \$147,400 | |
| 0635 | ASPHALT CONC.TY. SM-9.5A | TON | 1,390 | \$257.00 | \$357,230 | |
| | HYDR. CEMENT CONC. 7" | SY | 910 | \$75.00 | \$68,250 | |
| 2600 | STD COMB CURB & GUTTER CG-6 | LF | 2,500 | \$25.00 | \$62,500 | |
| 0417 | TACK COAT | GAL | 8,992 | \$2.00 | \$17,984 | |
| 0635 | ASPHALT CONC.TY. SM-9.5A | TON | 1,290 | \$257.00 | \$331,530 | |
| 0642 | ASPHALT CONC. BASE COURSE TY. BM-25.0A | TON | 1,935 | \$140.00 | \$270,900 | |
| 3220 | HYDR. CEMENT CONC. SIDEWALK 4" | SY | 560 | \$42.00 | \$23,520 | |
| 3108 | CG-12 DETECTABLE WARNING SURFACE | SY | 25 | \$226.00 | \$5,650 | |
| | Storm Water System, Complete | LS | ALL | \$355,000.00 | \$355,000 | |
| | Pavement Markings, Complete | LS | ALL | \$ 16,620.00 | \$16,620 | |
| | Signage, Complete | LS | ALL | \$ 18,000.00 | \$18,000 | |
| | Total Traffic Signal System | LS | ALL | \$ 141,462.10 | \$ 282,924 | |
| | Utility Relocations | LS | ALL | \$ 175,000.00 | \$ 175,000 | |
| | ENGINEERING SUPPORT | ТС | OTAL CONSTR | RUCTION COST | \$ 2,829,88 | |
| | Engineering (PS&E) | LS | 10% | \$ 2,829,887.20 | \$283,000 | |
| | Construction Management & Inspection | LS | 20% | \$ 2.829.887.20 | \$566,000 | |
| | ENGINEERING SUPPORT SUBTOTAL | 1 20 | 20,0 | ± 2,020,007.20 | \$ 849,0 | |
| | Potential New Right-of-way Needed | | | | ψ 0.7,0 | |
| | Potential New Right-of-way Needed | SF | 43,000 | \$10.00 | \$430,000 | |
| | ENGINEERING PERMITS SUBTOTAL | 5. | 10,000 | \$10.00 | \$ 430,0 | |
| | | TOTAL ENGINEERING A | ND CONSTRUC | TION SUBTOTAL | \$ 4,108,8 | |
| | | | 3 | 0% Contingency | \$ 1,232,6 | |
| | | \$ 1,709,2 | | | | |
| | TOTAL | \$ 7,050,9 | | | | |
| | | | | | | |
| _ | | | | 85% Estimate | \$ 5,993,30 | |

| Number of Commercial Properties | EA | 3 | approximate |
|----------------------------------|----|--------|-------------|
| Number of Residential Properties | EA | 1 | approximate |
| | | | |
| | SF | 43,000 | approximate |

Scope Accuracy:

Level 1: Project scope well understood and well defined.
Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Oriknown project conditions; limited knowledden of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining).

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information Level C: No engineering performed. Educated guesstimating. Limited technical information available and/or analysis performed. Project Development and

Route 301 Arterial Preservation Study

New Market Street

Project No. 23369



| epule | d by: Ed Myers, P.E., Kylie Caviness, & Meredyth Sanders | | Date: September 2019 | | | | |
|-------|---|--------------------------------|--|---|---|--|--|
| | | This Estimate has a Rating of: | 2B | (See rating scale guide below.) | | | |
| | ITEM | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL COST | | |
| | | | | | | | |
| 100 | Mobilization | LS | ALL | \$171,000.00 | \$171,000.0 | | |
| | Traffic Control | LS | ALL | \$87,000.00 | \$87,000.0 | | |
| | Erosion Control | LS | ALL | \$27,000.00 | \$27,000.0 | | |
| | Removal of Structures and Obstructions | LS | ALL | \$25,000.00 | \$25,000.0 | | |
| | Clearing and Grubbing | LS | ALL | \$17,000.00 | \$17,000.0 | | |
| 0628 | FLEXIBLE PAVE.PLANING 0"-2" | SY | 2,023 | \$11.00 | \$22,253.0 | | |
| 120 | REGULAR EXCAVATION | CY | 4,500 | \$40.00 | \$180,000.0 | | |
| 10100 | AGGR. MATL. NO. 21B | TON | 5,410 | \$40.00 | \$216,400.0 | | |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 225 | \$257.00 | \$57,825.0 | | |
| 12600 | STD COMB CURB & GUTTER CG-6 | LF | 200 | \$25.00 | \$5,000.0 | | |
| 10417 | TACK COAT | GAL | 1,456 | \$2.00 | \$2,912.0 | | |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 2,130 | \$257.00 | \$547,410.0 | | |
| 10642 | ASPHALT CONC. BASE COURSE TY. BM-25.0A | TON | 3,190 | \$140.00 | \$446,600.0 | | |
| 13108 | CG-12 DETECTABLE WARNING SURFACE | SY | 5 | \$226.00 | \$1,130.0 | | |
| | Storm Water System, Complete | LS | ALL | \$62,000.00 | \$62,000.0 | | |
| | Landscaping, Complete | LS | ALL | \$77,100.00 | \$77,100.0 | | |
| | Pavement Markings, Complete | LS | ALL | \$ 6,655.00 | \$6,655.0 | | |
| | Signage, Complete | LS | ALL | \$ 4,500.00 | \$4,500.0 | | |
| | Utility Relocations | LS | ALL | \$ 35,000.00 | \$ 35,000.0 | | |
| | | TO | DTAL CONSTR | RUCTION COST | \$ 1,991,785 | | |
| | ENGINEERING SUPPORT | | | | | | |
| | Engineering (PS&E) | LS | 10% | \$ 1,991,785.00 | £400,000,0 | | |
| | Engineening (Fode) | Lo | 1076 | φ 1,991,765.00 | \$199,200.0 | | |
| | Construction Management & Inspection | LS | 20% | \$ 1,991,785.00 | | | |
| | | | | | \$199,200.0 \$398,400.0 \$ 597,60 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed | LS | 20% | \$ 1,991,785.00 | \$398,400.0 \$ 597,60 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | | | | \$398,400.0 \$ 597,60 \$870,000.0 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed | LS SF | 20% 87,000 | \$ 1,991,785.00 \$10.00 | \$398,400.0 \$ 597,60 \$870,000.0 \$ 870,000 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | LS | 20% 87,000 | \$ 1,991,785.00 \$10.00 | \$398,400.0 \$ 597,60 \$870,000.0 \$ 870,000 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | LS SF | 20% 87,000 ND CONSTRUC | \$ 1,991,785.00 \$10.00 | \$398,400.0 \$ 597,60 \$870,000.0 \$ 870,000 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | SF TOTAL ENGINEERING A | 20% 87,000 ND CONSTRUC | \$ 1,991,785.00 \$10.00 | \$398,400.0 \$ 597,60 \$870,000.0 \$ 870,000 \$ 3,459,38 \$ 1,037,82 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | SF TOTAL ENGINEERING A | 20% 87,000 ND CONSTRUC 3 (2% per yr 2018 | \$ 1,991,785.00 \$10.00 TION SUBTOTAL 50% Contingency 3-2035) Inflation | \$398,400.0 \$ 597,60 \$870,000.0 \$ 870,000 \$ 3,459,38 \$ 1,037,82 \$ 1,439,10 | | |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | SF TOTAL ENGINEERING A | 20% 87,000 ND CONSTRUC 3 (2% per yr 2018 | \$ 1,991,785.00 \$10.00 TION SUBTOTAL 50% Contingency 3-2035) Inflation | \$398,400.0 \$597,60 \$870,000.0 \$870,000 \$3,459,38 \$1,037,82 \$1,439,10 \$5,936,30 | | |

| PROPERTY IMPACTS | | |
|-----------------------------------|----|--------------------|
| Potential New Right-of-way Needed | SF | 87,000 approximate |
| | | |

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Level C: No engineering performed. Educated guesstimating. Limited technical information available and/or analysis performed. Project Development and Construction Contingencies should be selected appropriately by Project Manager. Contingency may range up to 50%.

Route 301 and Route 17 Quadrant Roadway with New Market Street

Project No. 23369



| reparea | by: Ed Myers, P.E., Kylie Caviness, & Meredyth Sanders | | Date: September 2 | 2019 | |
|---------|--|--------------------------------|-------------------|----------------------|----------------------|
| | | This Estimate has a Rating of: | 2B | (See rating scale gu | iida halow l |
| | ITEM | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
| | | | | | |
| 100 | Mobilization | LS | ALL | \$338,000.00 | \$338,000. |
| | Traffic Control | LS | ALL | \$171,000.00 | \$171,000. |
| | Erosion Control | LS | ALL | \$32,000.00 | \$32,000. |
| | Removal of Structures and Obstructions | LS | ALL | \$48,000.00 | \$48,000. |
| | Clearing and Grubbing | LS | ALL | \$32,000.00 | \$32,000. |
| 0628 | FLEXIBLE PAVE.PLANING 0"-2" | SY | 12,489 | \$11.00 | \$137,379. |
| 120 | REGULAR EXCAVATION | CY | 5,300 | \$40.00 | \$212,000. |
| 10100 | AGGR. MATL. NO. 21B | TON | 7,150 | \$40.00 | \$286,000. |
| 0635 | ASPHALT CONC.TY. SM-9.5A | TON | 1,390 | \$257.00 | \$357,230. |
| | HYDR. CEMENT CONC. 7" | SY | 910 | \$75.00 | \$68,250. |
| 12600 | STD COMB CURB & GUTTER CG-6 | LF | 2,500 | \$25.00 | \$62,500. |
| 10417 | TACK COAT | GAL | 8,992 | \$2.00 | \$17,984. |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 2,640 | \$257.00 | \$678,480. |
| 10642 | ASPHALT CONC. BASE COURSE TY. BM-25.0A | TON | 3,960 | \$140.00 | \$554,400. |
| 13220 | HYDR. CEMENT CONC. SIDEWALK 4" | SY | 400 | \$42.00 | \$16,800. |
| 13108 | CG-12 DETECTABLE WARNING SURFACE | SY | 25 | \$226.00 | \$5,650. |
| | Storm Water System, Complete | LS | ALL | \$376,000.00 | \$376,000. |
| | Pavement Markings, Complete | LS | ALL | \$ 18,325.00 | \$18,325. |
| | Signage, Complete | LS | ALL | \$ 12,000.00 | \$12,000. |
| | Total Traffic Signal System | LS | ALL | \$ 141,462.10 | \$ 282,924. |
| | Utility Relocations | LS | ALL | \$ 210,000.00 | \$ 210,000. |
| | | Т | OTAL CONSTI | RUCTION COST | \$ 3,916,92 |
| | ENGINEERING SUPPORT | | | | |
| | Engineering (PS&E) | LS | 10% | \$ 3,916,922.20 | \$391,700. |
| | Construction Management & Inspection | LS | 20% | \$ 3,916,922.20 | \$783,400. |
| | ENGINEERING SUPPORT SUBTOTAL | | | | \$ 1,175,10 |
| | Potential New Right-of-way Needed | | | | |
| | Potential New Right-of-way Needed | SF | 113,000 | \$10.00 | \$1,130,000. |
| | ENGINEERING PERMITS SUBTOTAL | | | | \$ 1,130,00 |
| | | TOTAL ENGINEERING A | ND CONSTRUC | TION SUBTOTAL | \$ 6,222,02 |
| _ | | | | 30% Contingency | \$ 1,866,6 |
| | | | (2% per yr 201 | 8-2035) Inflation | \$ 2,588,36 |
| | TOTAL 5 | STIMATED ENGINEERING | C AND CONSTI | DUCTION COST | \$ 10,676,99 |
| | _ TOTAL ES | STIMATED ENGINEERING | 3 AND CONSTI | RUCTION CUST | \$ 10,6 <u>76,95</u> |
| | TOTALES | TIMATED ENGINEERING | AND CONSTI | 85% Estimate | |

| PROPERTY IMPACTS | | |
|-----------------------------------|----|---------------------|
| Potential New Right-of-way Needed | SF | 113,000 approximate |
| | | |

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Route 301: TWLTL Concept

Project No. 23369



Engineer's Conceptual Estimate

| repare | d by: Ed Myers, P.E., Kylie Caviness, & Meredyth Sand | ders | Date: Septembe | r 2019 | |
|--------|---|--------------------------------|-------------------|---------------------------------------|---|
| | | This Estimate has a Rating of: | 2B | (See rating scale gu | ide below.) |
| | ITEM | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
| | | | | | |
| 100 | Mobilization | LS | ALL | \$352,000.00 | \$352,000.00 |
| | Traffic Control | LS | ALL | \$531,000.00 | \$531,000.00 |
| | Erosion Control | LS | ALL | \$23,000.00 | \$23,000.00 |
| | Removal of Structures and Obstructions | LS | ALL | \$49,000.00 | \$49,000.00 |
| | Clearing and Grubbing | LS | ALL | \$33,000.00 | \$33,000.00 |
| 10628 | FLEXIBLE PAVE.PLANING 0"-2" | SY | 15,134 | \$11.00 | \$166,474.00 |
| 120 | REGULAR EXCAVATION | CY | 3,700 | \$40.00 | \$148,000.00 |
| 10100 | AGGR. MATL. NO. 21B | TON | 5,535 | \$40.00 | \$221,400.00 |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 1,685 | \$257.00 | \$433,045.00 |
| | HYDR. CEMENT CONC. 7" | SY | 240 | \$75.00 | \$18,000.00 |
| 12600 | STD COMB CURB & GUTTER CG-6 | LF | 5.850 | \$25.00 | \$146,250.00 |
| 10417 | TACK COAT | GAL | 10,896 | \$2.00 | \$21,792.00 |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 1,400 | \$257.00 | \$359,800.00 |
| 10642 | ASPHALT CONC. BASE COURSE TY. BM-25.0A | TON | 2,095 | \$140.00 | \$293,300.00 |
| | HYDR. CEMENT CONC. SIDEWALK 4" | SY | 180 | \$42.00 | \$7,560.00 |
| | CG-12 DETECTABLE WARNING SURFACE | SY | 85 | \$226.00 | \$19,210.00 |
| 13100 | Storm Water System, Complete | LS | ALL | \$1,158,000.00 | \$1,158,000.00 |
| | Landscaping, Complete | LS | ALL | \$149,600.00 | \$149,600.00 |
| | Pavement Markings, Complete | LS | ALL | \$ 22,865.00 | \$22,865.00 |
| | Signage, Complete | LS | ALL | \$ 4,500.00 | \$4,500.00 |
| | Rectangular Rapid Flashing Beacon | LS | ALL 4 | \$ 4,500.00 | \$4,500.00 |
| | | LS | ALL | | |
| | Utility Relocations | LS | ALL | \$ 245,000.00 | \$245,000.00 |
| | | To | OTAL CONST | RUCTION COST | \$ 4,420,796 |
| | ENGINEERING SUPPORT | | | | |
| | Engineering (PS&E) | LS | 10% | \$ 4,420,796.00 | \$442,100.00 |
| | Construction Management & Inspection | LS | 20% | \$ 4,420,796.00 | \$884,200.00 |
| | ENGINEERING SUPPORT SUBTOTAL | | | | \$ 1,326,300 |
| | Potential New Right-of-way Needed | | | | |
| | Potential New Right-of-way Needed | SF | 25,000 | \$10.00 | \$250,000.00 |
| | , | | | | # 250 000 |
| | ENGINEERING PERMITS SUBTOTAL | | | | \$ 250,000 |
| | ENGINEERING PERMITS SUBTOTAL | TOTAL ENGINEERING A | ND CONSTRU | CTION SUBTOTAL | \$ 5,997,096 |
| | ENGINEERING PERMITS SUBTOTAL | TOTAL ENGINEERING A | ND CONSTRU | | \$ 5,997,096 |
| | ENGINEERING PERMITS SUBTOTAL | TOTAL ENGINEERING A | | 30% Contingency | \$ 5,997,096 \$ 1,799,130 |
| | | TOTAL ENGINEERING A | (2% per yr 20 | 30% Contingency 18-2035) Inflation | \$ 5,997,096 \$ 1,799,130 |
| | | | (2% per yr 20 | 30% Contingency 18-2035) Inflation | \$ 5,997,096 \$ 1,799,130 \$ 2,494,792 \$ 10,291,018 |

| PROPERTY IMPACTS | | |
|-----------------------------------|----|--------------------|
| Potential New Right-of-way Needed | SF | 25,000 approximate |
| | | |

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions;

limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Route 301: Raised Median Concept

Project No. 23369



| | d by: Ed Myers, P.E., Kylie Caviness, & Meredyth Sander | s | Date: September | 2019 | |
|-------|--|--------------------------------|--|---|---|
| | | This Estimate has a Rating of: | 2B | (See rating scale gu | vida halaw l |
| | ITEM | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
| | | | | | |
| 100 | Mobilization | LS | ALL | \$445,000.00 | \$445,000.00 |
| | Traffic Control | LS | ALL | \$674,000.00 | \$674,000.00 |
| | Erosion Control | LS | ALL | \$45,000.00 | \$45,000.00 |
| | Removal of Structures and Obstructions | LS | ALL | \$63,000.00 | \$63,000.00 |
| | Clearing and Grubbing | LS | ALL | \$42,000.00 | \$42,000.00 |
| 10628 | FLEXIBLE PAVE.PLANING 0"-2" | SY | 15,134 | \$11.00 | \$166,474.00 |
| 120 | REGULAR EXCAVATION | CY | 7,500 | \$40.00 | \$300,000.00 |
| 10100 | AGGR. MATL. NO. 21B | TON | 10,505 | \$40.00 | \$420,200.00 |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 1,685 | \$257.00 | \$433,045.00 |
| | HYDR. CEMENT CONC. 7" | SY | 690 | \$75.00 | \$51,750.00 |
| 12600 | STD COMB CURB & GUTTER CG-6 | LF | 25,200 | \$25.00 | \$630,000.00 |
| 10417 | TACK COAT | GAL | 10,896 | \$2.00 | \$21,792.00 |
| 10635 | ASPHALT CONC.TY. SM-9.5A | TON | 1,400 | \$257.00 | \$359,800.00 |
| 10642 | ASPHALT CONC. BASE COURSE TY, BM-25.0A | TON | 2,095 | \$140.00 | \$293,300.00 |
| 13220 | HYDR. CEMENT CONC. SIDEWALK 4" | SY | 180 | \$42.00 | \$7,560.00 |
| 13108 | CG-12 DETECTABLE WARNING SURFACE | SY | 85 | \$226.00 | \$19,210.00 |
| 10100 | Storm Water System, Complete | LS | ALL | \$1,158,000.00 | \$1,158,000.00 |
| | Landscaping, Complete | LS | ALL | \$193,100.00 | \$193,100.00 |
| | Pavement Markings, Complete | LS | ALL | \$ 20,465.00 | \$20,465.00 |
| | Signage, Complete | LS | ALL | \$ 4,500.00 | \$4,500.00 |
| | Rectangular Rapid Flashing Beacon | LS | 4 | \$4,500.00 | \$18.000.00 |
| | Utility Relocations | LS | ALL | \$ 245,000.00 | \$245,000.00 |
| | 7 | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | ENGINEERING SUPPORT | Т | OTAL CONST | RUCTION COST | \$ 5,611,196 |
| | Engineering (PS&E) | LS | 10% | \$ 5,611,196.00 | \$561,200.00 |
| | | 1 | | | |
| | Construction Management & Inspection | LS | 20% | \$ 5.611.196.00 | \$1,122,300,00 |
| | Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL | LS | 20% | \$ 5,611,196.00 | \$1,122,300.00 \$ 1,683,500 |
| | ENGINEERING SUPPORT SUBTOTAL | LS | 20% | \$ 5,611,196.00 | |
| | ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed | | | | \$ 1,683,500 |
| | ENGINEERING SUPPORT SUBTOTAL | LS | 25,000 | \$ 5,611,196.00 | |
| | ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | | 25,000 | \$10.00 | \$ 1,683,500 \$250,000.00 \$ 250,000 |
| | ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | SF | 25,000 | \$10.00 | \$ 1,683,500 \$250,000.00 \$ 250,000 \$ 7,544,696 |
| | ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | SF | 25,000 | \$10.00 | \$ 1,683,500 \$250,000.00 \$ 250,000 |
| | ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | SF | 25,000 AND CONSTRUC (2% per yr 201 | \$10.00 ETION SUBTOTAL 30% Contingency 8-2035) Inflation | \$ 1,683,500 \$250,000.00 \$ 250,000 \$ 7,544,696 \$ 2,263,410 |
| | ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | SF TOTAL ENGINEERING A | 25,000 AND CONSTRUC (2% per yr 201 | \$10.00 ETION SUBTOTAL 30% Contingency 8-2035) Inflation | \$ 1,683,500 \$250,000.00 \$ 250,000 \$ 7,544,696 \$ 2,263,410 \$ 3,138,594 \$ 12,946,700 |

| PROPERTY IMPACTS | | |
|-----------------------------------|----|--------------------|
| Potential New Right-of-way Needed | SF | 25,000 approximate |
| | | |

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions;

limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Route 301: Couplet

Project No. 23369



Fnaineer's Concentual Estimate

| | d by: Ed Myers, P.E., Kylie Caviness, & Meredyth Sanders | | | Date: September 2 | 019 | |
|-------|---|---------------------|----------------------|---|---|---|
| | | | | | | |
| | | This Estimate has a | Rating of: | 2B | (See rating scale gu | iide below.) |
| | ITEM | | UNIT | TOTAL QUANTITY | UNIT PRICE | TOTAL COST |
| | | | | | | |
| 100 | Mobilization | | LS | ALL | \$680,000.00 | \$680,000.0 |
| | Traffic Control | | LS | ALL | \$344,000.00 | \$344,000.0 |
| | Erosion Control | | LS | ALL | \$71,000.00 | \$71,000.0 |
| | Removal of Structures and Obstructions | | LS | ALL | \$97,000.00 | \$97,000.0 |
| | Clearing and Grubbing | | LS | ALL | \$65,000.00 | \$65,000.0 |
| 10628 | FLEXIBLE PAVE.PLANING 0"-2" | | SY | 18,012 | \$11.00 | \$198,132.0 |
| 120 | REGULAR EXCAVATION | | CY | 11,700 | \$40.00 | \$468,000.0 |
| 10100 | AGGR. MATL. NO. 21B | | TON | 16,045 | \$40.00 | \$641,800.0 |
| 10635 | ASPHALT CONC.TY. SM-9.5A | | TON | 2,005 | \$257.00 | \$515,285.0 |
| 12600 | STD COMB CURB & GUTTER CG-6 | | LF | 10,200 | \$25.00 | \$255,000.0 |
| 10417 | TACK COAT | | GAL | 12,968 | \$2.00 | \$25,936.0 |
| 10635 | ASPHALT CONC.TY. SM-9.5A | | TON | 5,330 | \$257.00 | \$1,369,810.0 |
| 10642 | ASPHALT CONC. BASE COURSE TY. BM-25.0A | | TON | 7,995 | \$140.00 | \$1,119,300.0 |
| 13108 | CG-12 DETECTABLE WARNING SURFACE | | SY | 65 | \$226.00 | \$14,690.0 |
| | Storm Water System, Complete | | LS | ALL | \$1,432,000.00 | \$1,432,000.0 |
| | Landscaping, Complete | | LS | ALL | \$302,000.00 | \$302,000.0 |
| | Pavement Markings, Complete | | LS | ALL | \$ 38,180.00 | \$38,180.0 |
| | Signage, Complete | | LS | ALL | \$ 7,500.00 | \$7,500.0 |
| | Utility Relocations | | LS | ALL | \$ 245,000.00 | \$245,000.0 |
| | | | TO | OTAL CONSTR | UCTION COST | \$ 7,889,63 |
| | | | | 317 (E 0011311) | 0011011 0031 | |
| | ENGINEERING SUPPORT | | | | | ¥ 7,007,03 |
| | ENGINEERING SUPPORT | | LS | 10% | \$ 7,889,633,00 | |
| | Engineering (PS&E) | | LS LS | 10% 20% | \$ 7,889,633.00 \$ 7,889,633.00 | \$789,000.0 |
| | | | LS LS | 10% 20% | \$ 7,889,633.00 \$ 7,889,633.00 | \$789,000.6 \$1,578,000.6 \$2,367,00 |
| | Engineering (PS&E) Construction Management & Inspection | | | | | \$789,000.0 \$1,578,000.0 |
| | Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL | | | | | \$789,000.0 \$1,578,000.0 |
| | Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed | | LS | 20% | \$ 7,889,633.00 | \$789,000.0 \$1,578,000.0 \$ 2,367,00 |
| | Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | TOTAL ENGINI | LS SF | 20% 300,000 | \$ 7,889,633.00 | \$789,000. \$1,578,000. \$ 2,367,00 \$3,000,000. \$ 3,000,00 |
| | Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | TOTAL ENGINI | LS SF | 20% 300,000 ND CONSTRUCT | \$ 7,889,633.00 \$10.00 | \$789,000. \$1,578,000. \$ 2,367,00 \$3,000,000. \$ 3,000,00 |
| | Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed | TOTAL ENGINI | LS SF EERING A | 20% 300,000 ND CONSTRUCT | \$ 7,889,633.00 \$10.00 FION SUBTOTAL 20% Contingency | \$789,000. \$1,578,000. \$ 2,367,000. \$ 3,000,000. \$ 3,000,000. \$ 13,256,63. |
| | Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | TOTAL ENGINI | LS SF EERING A | 20% 300,000 ND CONSTRUCT 30 (2% per yr 2018 | \$ 7,889,633.00 \$10.00 TION SUBTOTAL D% Contingency -2035) Inflation | \$789,000. \$1,578,000. \$ 2,367,00 \$ 3,000,000. \$ 3,000,000. \$ 13,256,60 \$ 3,976,99 \$ 5,514,75 |
| | Engineering (PS&E) Construction Management & Inspection ENGINEERING SUPPORT SUBTOTAL Potential New Right-of-way Needed Potential New Right-of-way Needed ENGINEERING PERMITS SUBTOTAL | | LS SF EERING A | 20% 300,000 ND CONSTRUCT 30 (2% per yr 2018 | \$ 7,889,633.00 \$10.00 TION SUBTOTAL D% Contingency -2035) Inflation | \$789,000. \$1,578,000. \$ 2,367,00 \$ 3,000,000. \$ 3,000,000. \$ 3,000,000. \$ 13,256,63 \$ 3,976,95 \$ 5,514,75 \$ 22,748,38 |

| PROPERTY IMPACTS | | |
|-----------------------------------|----|---------------------|
| Potential New Right-of-way Needed | SF | 300,000 approximate |
| | | |

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

APPENDIX H

Transportation Options:
Operational Analysis

APPENDIX H1

Transportation Options:
Operational Analysis –
Intersection Modification

Weekday AM Peak

| | ʹ | → | • | • | • | • | † | \ | Ţ | |
|-------------------------|------|----------|------|------|------|------|----------|----------|------|--|
| Lana Craun | EBL | EBT | WBL | WBT | WBR | NBL | NBT | SBL | SBT | |
| Lane Group | | | | | | | | | | |
| Lane Group Flow (vph) | 201 | 105 | 50 | 129 | 150 | 12 | 488 | 101 | 515 | |
| v/c Ratio | 0.44 | 0.25 | 0.15 | 0.49 | 0.25 | 0.10 | 0.59 | 0.28 | 0.36 | |
| Control Delay | 20.6 | 22.4 | 18.1 | 40.1 | 5.3 | 41.6 | 28.7 | 37.8 | 16.2 | |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total Delay | 20.6 | 22.4 | 18.1 | 40.1 | 5.3 | 41.6 | 28.7 | 37.8 | 16.2 | |
| Queue Length 50th (ft) | 63 | 34 | 14 | 57 | 0 | 5 | 102 | 23 | 72 | |
| Queue Length 95th (ft) | 132 | 83 | 41 | 132 | 42 | 25 | 187 | 56 | 169 | |
| Internal Link Dist (ft) | | 118 | | 2711 | | | 1025 | | 2313 | |
| Turn Bay Length (ft) | | | | | 250 | 200 | | 450 | | |
| Base Capacity (vph) | 574 | 783 | 343 | 575 | 682 | 135 | 1617 | 572 | 2050 | |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced v/c Ratio | 0.35 | 0.13 | 0.15 | 0.22 | 0.22 | 0.09 | 0.30 | 0.18 | 0.25 | |
| Intersection Summary | | | | | | | | | | |

Synchro 9 Report Page 1 Baseline

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|-------------------------------|------------|----------|-------|-------|----------|-------------|---------|------------|------|-------------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ħ | f) | | ħ | † | 7 | Ť | ∱ ∱ | | 77 | ∱ ∱ | |
| Traffic Volume (vph) | 181 | 69 | 25 | 45 | 116 | 135 | 11 | 412 | 27 | 91 | 361 | 103 |
| Future Volume (vph) | 181 | 69 | 25 | 45 | 116 | 135 | 11 | 412 | 27 | 91 | 361 | 103 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 5.8 | | 4.5 | 5.8 | 6.1 | 4.5 | 6.5 | | 6.1 | 6.5 | |
| Lane Util. Factor | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | | 0.97 | 0.95 | |
| Frt | 1.00 | 0.96 | | 1.00 | 1.00 | 0.85 | 1.00 | 0.99 | | 1.00 | 0.97 | |
| Flt Protected | 0.95 | 1.00 | | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1736 | 1580 | | 1719 | 1881 | 1482 | 1583 | 3100 | | 3127 | 3185 | |
| Flt Permitted | 0.48 | 1.00 | | 0.69 | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | 872 | 1580 | | 1247 | 1881 | 1482 | 1583 | 3100 | | 3127 | 3185 | |
| Peak-hour factor, PHF | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| Adj. Flow (vph) | 201 | 77 | 28 | 50 | 129 | 150 | 12 | 458 | 30 | 101 | 401 | 114 |
| RTOR Reduction (vph) | 0 | 12 | 0 | 0 | 0 | 113 | 0 | 4 | 0 | 0 | 21 | 0 |
| Lane Group Flow (vph) | 201 | 93 | 0 | 50 | 129 | 37 | 12 | 484 | 0 | 101 | 494 | 0 |
| Heavy Vehicles (%) | 4% | 16% | 14% | 5% | 1% | 9% | 14% | 16% | 6% | 12% | 12% | 1% |
| Turn Type | pm+pt | NA | | pm+pt | NA | pm+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 7 | 4 | | 3 | 8 | 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | 4 | | | 8 | | 8 | | | | | | |
| Actuated Green, G (s) | 29.4 | 21.3 | | 14.5 | 10.9 | 19.8 | 1.0 | 24.6 | | 8.9 | 34.1 | |
| Effective Green, g (s) | 29.4 | 21.3 | | 14.5 | 10.9 | 19.8 | 1.0 | 24.6 | | 8.9 | 34.1 | |
| Actuated g/C Ratio | 0.36 | 0.26 | | 0.18 | 0.13 | 0.24 | 0.01 | 0.30 | | 0.11 | 0.42 | |
| Clearance Time (s) | 4.5 | 5.8 | | 4.5 | 5.8 | 6.1 | 4.5 | 6.5 | | 6.1 | 6.5 | |
| Vehicle Extension (s) | 3.0 | 3.0 | | 3.0 | 3.0 | 3.0 | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | 464 | 413 | | 243 | 252 | 360 | 19 | 938 | | 342 | 1335 | |
| v/s Ratio Prot | c0.07 | 0.06 | | 0.01 | 0.07 | 0.01 | 0.01 | c0.16 | | c0.03 | c0.15 | |
| v/s Ratio Perm | c0.08 | | | 0.03 | | 0.01 | | | | | | |
| v/c Ratio | 0.43 | 0.23 | | 0.21 | 0.51 | 0.10 | 0.63 | 0.52 | | 0.30 | 0.37 | |
| Uniform Delay, d1 | 18.9 | 23.5 | | 28.3 | 32.7 | 23.9 | 40.0 | 23.4 | | 33.3 | 16.2 | |
| Progression Factor | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | 0.7 | 0.3 | | 0.4 | 1.8 | 0.1 | 52.7 | 1.1 | | 0.5 | 0.4 | |
| Delay (s) | 19.5 | 23.8 | | 28.7 | 34.5 | 24.0 | 92.7 | 24.5 | | 33.8 | 16.6 | |
| Level of Service | В | С | | С | С | С | F | С | | С | В | |
| Approach Delay (s) | | 21.0 | | | 28.8 | | | 26.2 | | | 19.5 | |
| Approach LOS | | С | | | С | | | С | | | В | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 23.4 | H | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.49 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 81.3 | | | st time (s) | | | 22.9 | | | |
| Intersection Capacity Utiliza | ation | | 50.9% | IC | U Level | of Service | | | А | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 9 Report Page 2

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | B14 | WB | WB | WB | NB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|------|------|------|-----|-----|------|------|-----|-----|------|
| Directions Served | L | TR | T | L | Т | R | L | T | TR | L | L | T |
| Maximum Queue (ft) | 198 | 177 | 88 | 53 | 133 | 115 | 46 | 223 | 210 | 94 | 93 | 164 |
| Average Queue (ft) | 106 | 63 | 9 | 21 | 69 | 41 | 5 | 117 | 60 | 23 | 51 | 74 |
| 95th Queue (ft) | 180 | 129 | 44 | 47 | 121 | 73 | 25 | 179 | 134 | 61 | 86 | 136 |
| Link Distance (ft) | 117 | 117 | 2207 | 2737 | 2737 | | | 1052 | 1052 | | | 2314 |
| Upstream Blk Time (%) | 8 | 3 | | | | | | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | | | | | | |
| Storage Bay Dist (ft) | | | | | | 250 | 200 | | | 450 | 450 | |
| Storage Blk Time (%) | | | | | | | | 0 | | | | |
| Queuing Penalty (veh) | | | | | | | | 0 | | | | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | SB |
|-----------------------|------|
| Directions Served | TR |
| Maximum Queue (ft) | 203 |
| Average Queue (ft) | 89 |
| 95th Queue (ft) | 169 |
| Link Distance (ft) | 2314 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 2: US 301 & Back St

| Movement | WB | SB |
|-----------------------|------|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 31 | 29 |
| Average Queue (ft) | 5 | 1 |
| 95th Queue (ft) | 24 | 10 |
| Link Distance (ft) | 1114 | 1146 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 3: US 301 & Caroline St

| Movement |
|-----------------------|
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (%) |
| Queuing Penalty (veh) |
| |

Intersection: 4: US 301 & Walsingham Rd

| Movement | WB |
|-----------------------|------|
| Directions Served | LTR |
| Maximum Queue (ft) | 31 |
| Average Queue (ft) | 1 |
| 95th Queue (ft) | 10 |
| Link Distance (ft) | 1936 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Network Summary

Network wide Queuing Penalty: 0

Weekday PM Peak

| | • | → | • | — | 4 | • | † | \ | Ţ | |
|-------------------------|------|----------|------|----------|------|------|----------|----------|------|--|
| Long Croup | EDI | EDT | MDI | WDT | WDD | NDI | NDT | CDI | SBT | |
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | SBL | | |
| Lane Group Flow (vph) | 109 | 161 | 23 | 111 | 104 | 14 | 553 | 333 | 972 | |
| v/c Ratio | 0.30 | 0.38 | 0.07 | 0.46 | 0.31 | 0.10 | 0.57 | 0.57 | 0.56 | |
| Control Delay | 24.5 | 31.4 | 22.7 | 41.5 | 4.3 | 42.8 | 26.0 | 35.8 | 13.8 | |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total Delay | 24.5 | 31.4 | 22.7 | 41.5 | 4.3 | 42.8 | 26.0 | 35.8 | 13.8 | |
| Queue Length 50th (ft) | 38 | 57 | 8 | 51 | 0 | 7 | 120 | 78 | 141 | |
| Queue Length 95th (ft) | 96 | 157 | 29 | 121 | 16 | 29 | 202 | 147 | 286 | |
| Internal Link Dist (ft) | | 118 | | 2711 | | | 1025 | | 2313 | |
| Turn Bay Length (ft) | | | | | 250 | 200 | | 450 | | |
| Base Capacity (vph) | 377 | 617 | 316 | 495 | 532 | 159 | 1844 | 1046 | 2505 | |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced v/c Ratio | 0.29 | 0.26 | 0.07 | 0.22 | 0.20 | 0.09 | 0.30 | 0.32 | 0.39 | |
| Interception Cummers | | | | | | | | | | |
| Intersection Summary | | | | | | | | | | |

Synchro 9 Report Page 1 Baseline

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|-------------------------------|------------|----------|-------|-------|------------|------------|----------|------------|------|-------------|------------|----------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | £ | | Ť | ^ | 7 | 7 | ∱ β | | 77 | ∱ β | |
| Traffic Volume (vph) | 107 | 141 | 17 | 23 | 109 | 102 | 14 | 507 | 35 | 326 | 641 | 312 |
| Future Volume (vph) | 107 | 141 | 17 | 23 | 109 | 102 | 14 | 507 | 35 | 326 | 641 | 312 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 5.8 | | 4.5 | 5.8 | 5.8 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Lane Util. Factor | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | | 0.97 | 0.95 | |
| Frt | 1.00 | 0.98 | | 1.00 | 1.00 | 0.85 | 1.00 | 0.99 | | 1.00 | 0.95 | |
| Flt Protected | 0.95 | 1.00 | | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1736 | 1793 | | 1719 | 1638 | 1404 | 1805 | 3112 | | 3273 | 3187 | |
| Flt Permitted | 0.51 | 1.00 | | 0.66 | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | 936 | 1793 | | 1185 | 1638 | 1404 | 1805 | 3112 | | 3273 | 3187 | |
| Peak-hour factor, PHF | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Adj. Flow (vph) | 109 | 144 | 17 | 23 | 111 | 104 | 14 | 517 | 36 | 333 | 654 | 318 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 0 | 88 | 0 | 5 | 0 | 0 | 50 | 0 |
| Lane Group Flow (vph) | 109 | 158 | 0 | 23 | 111 | 16 | 14 | 548 | 0 | 333 | 922 | 0 |
| Heavy Vehicles (%) | 4% | 4% | 7% | 5% | 16% | 15% | 0% | 15% | 13% | 7% | 11% | 1% |
| Turn Type | pm+pt | NA | | pm+pt | NA | Perm | Prot | NA | | Prot | NA | |
| Protected Phases | 7 | 4 | | 3 | 8 | | 5 | 2 | | 1 | 6 | |
| Permitted Phases | 4 | | | 8 | | 8 | | | | | | |
| Actuated Green, G (s) | 24.7 | 18.1 | | 15.4 | 13.3 | 13.3 | 1.0 | 28.5 | | 14.0 | 41.5 | |
| Effective Green, g (s) | 24.7 | 18.1 | | 15.4 | 13.3 | 13.3 | 1.0 | 28.5 | | 14.0 | 41.5 | |
| Actuated g/C Ratio | 0.29 | 0.22 | | 0.18 | 0.16 | 0.16 | 0.01 | 0.34 | | 0.17 | 0.49 | |
| Clearance Time (s) | 4.5 | 5.8 | | 4.5 | 5.8 | 5.8 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Vehicle Extension (s) | 3.0 | 3.0 | | 3.0 | 3.0 | 3.0 | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | 340 | 386 | | 230 | 259 | 222 | 21 | 1055 | | 545 | 1574 | |
| v/s Ratio Prot | c0.03 | c0.09 | | 0.00 | 0.07 | | 0.01 | 0.18 | | c0.10 | c0.29 | |
| v/s Ratio Perm | 0.07 | | | 0.02 | | 0.01 | | | | | | |
| v/c Ratio | 0.32 | 0.41 | | 0.10 | 0.43 | 0.07 | 0.67 | 0.52 | | 0.61 | 0.59 | |
| Uniform Delay, d1 | 22.5 | 28.3 | | 28.4 | 31.9 | 30.1 | 41.3 | 22.3 | | 32.5 | 15.1 | |
| Progression Factor | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | 0.5 | 0.7 | | 0.2 | 1.1 | 0.1 | 58.7 | 1.0 | | 2.0 | 1.0 | |
| Delay (s) | 23.0 | 29.1 | | 28.6 | 33.1 | 30.2 | 100.0 | 23.3 | | 34.5 | 16.1 | |
| Level of Service | С | C | | С | C | С | F | C | | С | В | |
| Approach LOS | | 26.6 | | | 31.4 | | | 25.2 | | | 20.8 | |
| Approach LOS | | С | | | С | | | С | | | С | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 23.6 | H | CM 2000 | Level of | Service | | С | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.57 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 84.0 | | um of lost | | | | 21.3 | | | |
| Intersection Capacity Utiliza | ition | | 62.2% | IC | U Level | of Service | ; | | В | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 9 Report Page 2

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | B14 | WB | WB | WB | NB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|------|------|------|-----|-----|------|------|-----|-----|------|
| Directions Served | L | TR | T | L | T | R | L | Т | TR | L | L | T |
| Maximum Queue (ft) | 93 | 190 | 84 | 70 | 152 | 114 | 46 | 214 | 200 | 172 | 188 | 263 |
| Average Queue (ft) | 59 | 92 | 5 | 19 | 82 | 35 | 10 | 142 | 120 | 98 | 110 | 131 |
| 95th Queue (ft) | 98 | 166 | 33 | 51 | 138 | 70 | 30 | 214 | 199 | 155 | 166 | 225 |
| Link Distance (ft) | 117 | 117 | 2207 | 2737 | 2737 | | | 1052 | 1052 | | | 2314 |
| Upstream Blk Time (%) | | 6 | | | | | | | | | | |
| Queuing Penalty (veh) | | 0 | | | | | | | | | | |
| Storage Bay Dist (ft) | | | | | | 250 | 200 | | | 450 | 450 | |
| Storage Blk Time (%) | | | | | | | | 2 | | | | |
| Queuing Penalty (veh) | | | | | | | | 0 | | | | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | SB | |
|-----------------------|------|--|
| Directions Served | TR | |
| Maximum Queue (ft) | 289 | |
| Average Queue (ft) | 167 | |
| 95th Queue (ft) | 277 | |
| Link Distance (ft) | 2314 | |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 2: US 301 & Back St

| Movement | WB | SB |
|-----------------------|------|------|
| Directions Served | LR | LT |
| Maximum Queue (ft) | 31 | 28 |
| Average Queue (ft) | 5 | 1 |
| 95th Queue (ft) | 23 | 9 |
| Link Distance (ft) | 1114 | 1146 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 3: US 301 & Caroline St

| Movement | WB |
|-----------------------|------|
| Directions Served | LR |
| Maximum Queue (ft) | 31 |
| Average Queue (ft) | 2 |
| 95th Queue (ft) | 15 |
| Link Distance (ft) | 1181 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 4: US 301 & Walsingham Rd

| Movement | WB | NB | SB |
|-----------------------|------|------|-----|
| Directions Served | LTR | LT | UL |
| Maximum Queue (ft) | 30 | 50 | 24 |
| Average Queue (ft) | 1 | 3 | 1 |
| 95th Queue (ft) | 10 | 21 | 8 |
| Link Distance (ft) | 1936 | 1070 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 315 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Network Summary

Network wide Queuing Penalty: 0

Sunday Worst-Case Scenario

1: US 301 & US 17 (Tidewater Trail)

| | → | → | • | ← | • | • | † | - | Ţ |
|-------------------------|----------|----------|------|------|------|------|----------|------|------|
| Lane Group | EBL | EBT | WBL | WBT | WBR | NBL | NBT | SBL | SBT |
| | | | | | | | | | |
| Lane Group Flow (vph) | 81 | 207 | 24 | 162 | 372 | 28 | 1823 | 511 | 1290 |
| v/c Ratio | 0.39 | 0.72 | 0.13 | 0.64 | 0.63 | 0.33 | 1.04 | 0.97 | 0.58 |
| Control Delay | 42.6 | 62.0 | 36.6 | 60.0 | 31.4 | 65.7 | 60.9 | 82.6 | 14.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 42.6 | 62.0 | 36.6 | 60.0 | 31.4 | 65.7 | 60.9 | 82.6 | 14.9 |
| Queue Length 50th (ft) | 50 | 153 | 14 | 118 | 192 | 22 | ~830 | ~209 | 330 |
| Queue Length 95th (ft) | 93 | #258 | 37 | 191 | 300 | 53 | #972 | #325 | 403 |
| Internal Link Dist (ft) | | 118 | | 2711 | | | 1025 | | 2313 |
| Turn Bay Length (ft) | | | | | 250 | 200 | | 450 | |
| Base Capacity (vph) | 210 | 311 | 186 | 294 | 588 | 86 | 1761 | 526 | 2227 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.39 | 0.67 | 0.13 | 0.55 | 0.63 | 0.33 | 1.04 | 0.97 | 0.58 |
| | | | | | | | | | |

Intersection Summary

Volume exceeds capacity, queue is theoretically infinite.

Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

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|-------------------------------|------------|----------|-------|-------|----------|-------------|---------|------------|------|----------|------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | f) | | Ť | † | 7 | Ť | ∱ ∱ | | ሻሻ | ħβ | |
| Traffic Volume (vph) | 77 | 184 | 12 | 23 | 154 | 353 | 27 | 1706 | 26 | 485 | 1137 | 88 |
| Future Volume (vph) | 77 | 184 | 12 | 23 | 154 | 353 | 27 | 1706 | 26 | 485 | 1137 | 88 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 4.5 | 5.8 | | 4.5 | 5.8 | 4.5 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Lane Util. Factor | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | | 0.97 | 0.95 | |
| Frt | 1.00 | 0.99 | | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | | 1.00 | 0.99 | |
| Flt Protected | 0.95 | 1.00 | | 0.95 | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (prot) | 1805 | 1865 | | 1805 | 1863 | 1599 | 1805 | 3526 | | 3467 | 3474 | |
| Flt Permitted | 0.45 | 1.00 | | 0.39 | 1.00 | 1.00 | 0.95 | 1.00 | | 0.95 | 1.00 | |
| Satd. Flow (perm) | 859 | 1865 | | 739 | 1863 | 1599 | 1805 | 3526 | | 3467 | 3474 | |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 81 | 194 | 13 | 24 | 162 | 372 | 28 | 1796 | 27 | 511 | 1197 | 93 |
| RTOR Reduction (vph) | 0 | 2 | 0 | 0 | 0 | 52 | 0 | 1 | 0 | 0 | 4 | 0 |
| Lane Group Flow (vph) | 81 | 205 | 0 | 24 | 162 | 320 | 28 | 1822 | 0 | 511 | 1286 | 0 |
| Heavy Vehicles (%) | 0% | 1% | 0% | 0% | 2% | 1% | 0% | 2% | 12% | 1% | 3% | 0% |
| Turn Type | pm+pt | NA | | pm+pt | NA | pm+ov | Prot | NA | | Prot | NA | |
| Protected Phases | 7 | 4 | | 3 | 8 | 1 | 5 | 2 | | 1 | 6 | |
| Permitted Phases | 4 | | | 8 | | 8 | | | | | | |
| Actuated Green, G (s) | 22.0 | 17.7 | | 19.8 | 16.6 | 34.2 | 3.2 | 59.6 | | 17.6 | 74.0 | |
| Effective Green, g (s) | 22.0 | 17.7 | | 19.8 | 16.6 | 34.2 | 3.2 | 59.6 | | 17.6 | 74.0 | |
| Actuated g/C Ratio | 0.18 | 0.15 | | 0.17 | 0.14 | 0.29 | 0.03 | 0.50 | | 0.15 | 0.62 | |
| Clearance Time (s) | 4.5 | 5.8 | | 4.5 | 5.8 | 4.5 | 4.5 | 6.5 | | 4.5 | 6.5 | |
| Vehicle Extension (s) | 3.0 | 3.0 | | 3.0 | 3.0 | 3.0 | 3.0 | 5.5 | | 3.0 | 5.5 | |
| Lane Grp Cap (vph) | 192 | 276 | | 151 | 259 | 458 | 48 | 1760 | | 511 | 2153 | |
| v/s Ratio Prot | c0.02 | c0.11 | | 0.00 | 0.09 | 0.10 | 0.02 | c0.52 | | c0.15 | 0.37 | |
| v/s Ratio Perm | 0.06 | | | 0.02 | | 0.10 | | | | | | |
| v/c Ratio | 0.42 | 0.74 | | 0.16 | 0.63 | 0.70 | 0.58 | 1.04 | | 1.00 | 0.60 | |
| Uniform Delay, d1 | 42.0 | 48.7 | | 42.3 | 48.5 | 38.0 | 57.4 | 29.9 | | 50.9 | 13.7 | |
| Progression Factor | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Incremental Delay, d2 | 1.5 | 10.4 | | 0.5 | 4.7 | 4.6 | 16.8 | 31.1 | | 39.8 | 0.8 | |
| Delay (s) | 43.5 | 59.0 | | 42.8 | 53.1 | 42.6 | 74.2 | 61.0 | | 90.7 | 14.5 | |
| Level of Service | D | E | | D | D | D | Е | (1.2 | | F | B | |
| Approach LOS | | 54.7 | | | 45.7 | | | 61.2 | | | 36.1 | |
| Approach LOS | | D | | | D | | | E | | | D | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 48.8 | H | CM 2000 | Level of S | Service | | D | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.96 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 119.4 | | | st time (s) | | | 21.3 | | | |
| Intersection Capacity Utiliza | ition | | 94.1% | IC | CU Level | of Service | | | F | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | EB | EB | B14 | WB | WB | WB | NB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|------|------|------|-----|-----|------|------|-----|-----|------|
| Directions Served | L | TR | T | L | Т | R | L | T | TR | L | L | T |
| Maximum Queue (ft) | 186 | 191 | 123 | 73 | 272 | 250 | 199 | 1091 | 1104 | 336 | 345 | 332 |
| Average Queue (ft) | 58 | 126 | 13 | 18 | 110 | 146 | 53 | 995 | 980 | 200 | 215 | 195 |
| 95th Queue (ft) | 126 | 199 | 61 | 49 | 176 | 234 | 154 | 1331 | 1354 | 300 | 314 | 299 |
| Link Distance (ft) | 117 | 117 | 2207 | 2737 | 2737 | | | 1052 | 1052 | | | 2314 |
| Upstream Blk Time (%) | 3 | 23 | | | | | | 56 | 55 | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | | 0 | 0 | | | |
| Storage Bay Dist (ft) | | | | | | 250 | 200 | | | 450 | 450 | |
| Storage Blk Time (%) | | | | | 0 | 0 | 0 | 51 | | | | |
| Queuing Penalty (veh) | | | | | 0 | 1 | 0 | 14 | | | | |

Intersection: 1: US 301 & US 17 (Tidewater Trail)

| Movement | SB |
|-----------------------|------|
| Directions Served | TR |
| Maximum Queue (ft) | 314 |
| Average Queue (ft) | 208 |
| 95th Queue (ft) | 303 |
| Link Distance (ft) | 2314 |
| Upstream Blk Time (%) | |
| Queuing Penalty (veh) | |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 2: US 301 & Back St

| Movement | WB | NB | SB |
|-----------------------|------|------|------|
| Directions Served | LR | TR | LT |
| Maximum Queue (ft) | 72 | 30 | 43 |
| Average Queue (ft) | 23 | 1 | 1 |
| 95th Queue (ft) | 57 | 10 | 14 |
| Link Distance (ft) | 1114 | 2314 | 1146 |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Intersection: 3: US 301 & Caroline St

| Movement | WB | NB |
|-----------------------|------|------|
| Directions Served | LR | T |
| Maximum Queue (ft) | 32 | 39 |
| Average Queue (ft) | 2 | 1 |
| 95th Queue (ft) | 15 | 13 |
| Link Distance (ft) | 1181 | 1146 |
| Upstream Blk Time (%) | | |
| Queuing Penalty (veh) | | |
| Storage Bay Dist (ft) | | |
| Storage Blk Time (%) | | |
| Queuing Penalty (veh) | | |

Intersection: 4: US 301 & Walsingham Rd

| Movement | WB | NB | SB |
|-----------------------|------|------|-----|
| Directions Served | LTR | LT | UL |
| Maximum Queue (ft) | 30 | 28 | 23 |
| Average Queue (ft) | 3 | 1 | 1 |
| 95th Queue (ft) | 15 | 9 | 8 |
| Link Distance (ft) | 1936 | 1070 | |
| Upstream Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |
| Storage Bay Dist (ft) | | | 315 |
| Storage Blk Time (%) | | | |
| Queuing Penalty (veh) | | | |

Network Summary

Network wide Queuing Penalty: 15

APPENDIX H2

Transportation Options:
Operational Analysis –
Quadrant Roadway

Weekday AM Peak

| | ۶ | → | • | • | — | • | 1 | † | <i>></i> | / | + | ✓ |
|-----------------------------------|--------|-----------|------------|-----------|------------|------------|---------|----------|-------------|----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | | 41₽ | | | ħβ | | | ∱ ∱ | |
| Traffic Volume (vph) | 181 | 69 | 25 | 45 | 127 | 0 | 0 | 423 | 27 | 0 | 361 | 103 |
| Future Volume (vph) | 181 | 69 | 25 | 45 | 127 | 0 | 0 | 423 | 27 | 0 | 361 | 103 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.8 | | | 5.8 | | | 6.5 | | | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 0.95 | | | 0.95 | | | 0.95 | |
| Frt | | 0.99 | | | 1.00 | | | 0.99 | | | 0.97 | |
| Flt Protected | | 0.97 | | | 0.99 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 3439 | | | 3512 | | | 3488 | | | 3410 | |
| FIt Permitted | | 0.71 | | | 0.74 | | | 1.00 | | | 1.00 | |
| Satd. Flow (perm) | | 2514 | | | 2634 | | | 3488 | | | 3410 | |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 191 | 73 | 26 | 47 | 134 | 0 | 0 | 445 | 28 | 0 | 380 | 108 |
| RTOR Reduction (vph) | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 14 | 0 |
| Lane Group Flow (vph) | 0 | 279 | 0 | 0 | 181 | 0 | 0 | 470 | 0 | 0 | 474 | 0 |
| Heavy Vehicles (%) | 0% | 1% | 0% | 0% | 2% | 1% | 0% | 2% | 12% | 1% | 3% | 0% |
| Turn Type | Perm | NA | | Perm | NA | | | NA | | | NA | |
| Protected Phases | | 4 | | | 8 | | | 2 | | | 6 | |
| Permitted Phases | 4 | | | 8 | | | | | | | | |
| Actuated Green, G (s) | | 16.8 | | | 16.8 | | | 70.9 | | | 70.9 | |
| Effective Green, g (s) | | 16.8 | | | 16.8 | | | 70.9 | | | 70.9 | |
| Actuated g/C Ratio | | 0.17 | | | 0.17 | | | 0.71 | | | 0.71 | |
| Clearance Time (s) | | 5.8 | | | 5.8 | | | 6.5 | | | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 422 | | | 442 | | | 2472 | | | 2417 | |
| v/s Ratio Prot | | | | | | | | 0.13 | | | c0.14 | |
| v/s Ratio Perm | | c0.11 | | | 0.07 | | | | | | | |
| v/c Ratio | | 0.89dl | | | 0.41 | | | 0.19 | | | 0.20 | |
| Uniform Delay, d1 | | 38.9 | | | 37.2 | | | 4.9 | | | 4.9 | |
| Progression Factor | | 1.00 | | | 0.92 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 3.9 | | | 0.6 | | | 0.2 | | | 0.2 | |
| Delay (s) | | 42.8 | | | 34.9 | | | 5.1 | | | 5.1 | |
| Level of Service | | D | | | С | | | Α | | | Α | |
| Approach Delay (s) | | 42.8 | | | 34.9 | | | 5.1 | | | 5.1 | |
| Approach LOS | | D | | | С | | | Α | | | Α | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 16.5 | Н | CM 2000 | Level of S | Service | | В | | | |
| HCM 2000 Volume to Capacity I | ratio | | 0.29 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 100.0 | | um of lost | | | | 12.3 | | | |
| Intersection Capacity Utilization | | | 43.4% | IC | U Level of | of Service | | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| dl Defacto Left Lane. Recode | with 1 | though la | ne as a le | eft lane. | | | | | | | | |

Synchro 10 Report Page 1 Baseline

| | • | • | † | / | \ | ↓ | | | |
|-----------------------------------|---------|-------|------------|------|------------|----------------|----|-----|--|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
| Lane Configurations | | 7 | ↑ ↑ | | ሻሻ | ^ | | | |
| Traffic Volume (vph) | 0 | 135 | 593 | 11 | 91 | 464 | | | |
| Future Volume (vph) | 0 | 135 | 593 | 11 | 91 | 464 | | | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | | |
| Total Lost time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Lane Util. Factor | | 1.00 | 0.95 | | 0.97 | 0.95 | | | |
| Frt | | 0.86 | 1.00 | | 1.00 | 1.00 | | | |
| Flt Protected | | 1.00 | 1.00 | | 0.95 | 1.00 | | | |
| Satd. Flow (prot) | | 1611 | 3530 | | 3433 | 3539 | | | |
| FIt Permitted | | 1.00 | 1.00 | | 0.38 | 1.00 | | | |
| Satd. Flow (perm) | | 1611 | 3530 | | 1381 | 3539 | | | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | |
| Adj. Flow (vph) | 0 | 147 | 645 | 12 | 99 | 504 | | | |
| RTOR Reduction (vph) | 0 | 0 | 1 | 0 | 0 | 0 | | | |
| Lane Group Flow (vph) | 0 | 147 | 656 | 0 | 99 | 504 | | | |
| Turn Type | | Perm | NA | | pm+pt | NA | | | |
| Protected Phases | | | 2 | | 1 | 6 | | | |
| Permitted Phases | | 6 | | | 6 | | | | |
| Actuated Green, G (s) | | 100.0 | 86.6 | | 95.5 | 100.0 | | | |
| Effective Green, g (s) | | 100.0 | 86.6 | | 95.5 | 100.0 | | | |
| Actuated g/C Ratio | | 1.00 | 0.87 | | 0.96 | 1.00 | | | |
| Clearance Time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Vehicle Extension (s) | | 3.0 | 3.0 | | 3.0 | 3.0 | | | |
| _ane Grp Cap (vph) | | 1611 | 3056 | | 1409 | 3539 | | | |
| v/s Ratio Prot | | | c0.19 | | 0.00 | c0.14 | | | |
| v/s Ratio Perm | | 0.09 | | | 0.06 | | | | |
| //c Ratio | | 0.09 | 0.21 | | 0.07 | 0.14 | | | |
| Uniform Delay, d1 | | 0.0 | 1.1 | | 0.2 | 0.0 | | | |
| Progression Factor | | 1.00 | 0.52 | | 1.00 | 1.00 | | | |
| Incremental Delay, d2 | | 0.1 | 0.2 | | 0.0 | 0.1 | | | |
| Delay (s) | | 0.1 | 0.7 | | 0.2 | 0.1 | | | |
| _evel of Service | | Α | Α | | Α | Α | | | |
| Approach Delay (s) | 0.1 | | 0.7 | | | 0.1 | | | |
| Approach LOS | Α | | Α | | | Α | | | |
| Intersection Summary | | | | | | | | | |
| HCM 2000 Control Delay | | | 0.4 | Н | CM 2000 | Level of Servi | ce | Α | |
| HCM 2000 Volume to Capacit | y ratio | | 0.22 | | | | | | |
| Actuated Cycle Length (s) | • | | 100.0 | Sı | um of lost | t time (s) | | 9.0 | |
| Intersection Capacity Utilization | on | | 32.6% | | | of Service | | Α | |
| Analysis Period (min) | | | 15 | | | | | | |
| 0.111 0 | | | | | | | | | |

Synchro 10 Report Page 2 Baseline

| | ۶ | - | • | • | - | ✓ | | |
|-----------------------------|-----------|------------|----------|---------|------------|------------------|-----|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | | |
| ane Configurations | | † † | † | # | ħ₩ | | | |
| affic Volume (vph) | 0 | 96 | 161 | 135 | 91 | 11 | | |
| re Volume (vph) | 0 | 96 | 161 | 135 | 91 | 11 | | |
| I Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | |
| al Lost time (s) | 1000 | 4.5 | 4.5 | 4.5 | 4.5 | 1000 | | |
| e Util. Factor | | 0.95 | 1.00 | 1.00 | 0.97 | | | |
| 5 5 till 1 45tol | | 1.00 | 1.00 | 0.85 | 0.98 | | | |
| rotected | | 1.00 | 1.00 | 1.00 | 0.96 | | | |
| I. Flow (prot) | | 3539 | 1863 | 1583 | 3403 | | | |
| Permitted | | 1.00 | 1.00 | 1.00 | 0.96 | | | |
| I. Flow (perm) | | 3539 | 1863 | 1583 | 3403 | | | |
| k-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | |
| Flow (vph) | 0.32 | 104 | 175 | 147 | 99 | 12 | | |
| R Reduction (vph) | 0 | 0 | 0 | 25 | 11 | 0 | | |
| e Group Flow (vph) | 0 | 104 | 175 | 122 | 100 | 0 | | |
| Type | | NA | NA | Perm | Prot | <u> </u> | | |
| ected Phases | | 4 | 8 | i Giiii | 1 | | | |
| itted Phases | | | U | 8 | | | | |
| ted Green, G (s) | | 82.7 | 82.7 | 82.7 | 8.3 | | | |
| tive Green, g (s) | | 82.7 | 82.7 | 82.7 | 8.3 | | | |
| ted g/C Ratio | | 0.83 | 0.83 | 0.83 | 0.08 | | | |
| rance Time (s) | | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| cle Extension (s) | | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| Grp Cap (vph) | | 2926 | 1540 | 1309 | 282 | | | |
| atio Prot | | 0.03 | c0.09 | 1000 | c0.03 | | | |
| atio Perm | | 0.00 | 00.00 | 0.08 | 00.00 | | | |
| atio | | 0.04 | 0.11 | 0.09 | 0.35 | | | |
| orm Delay, d1 | | 1.5 | 1.7 | 1.6 | 43.3 | | | |
| ression Factor | | 0.32 | 1.00 | 1.00 | 0.98 | | | |
| mental Delay, d2 | | 0.02 | 0.1 | 0.1 | 0.8 | | | |
| y (s) | | 0.5 | 1.8 | 1.8 | 43.3 | | | |
| of Service | | A | Α | Α | D | | | |
| pach Delay (s) | | 0.5 | 1.8 | | 43.3 | | | |
| oach LOS | | A | A | | D | | | |
| rsection Summary | | | | | | | | |
| 1 2000 Control Delay | | | 10.1 | Н | CM 2000 | Level of Service | В | |
| 1 2000 Volume to Capac | ity ratio | | 0.14 | | | | | |
| ated Cycle Length (s) | · | | 100.0 | S | um of lost | time (s) | 9.0 | |
| rsection Capacity Utilizati | ion | | 20.1% | | CU Level o | | Α | |
| lysis Period (min) | | | 15 | | | | | |
| Critical Lane Group | | | | | | | | |

Synchro 10 Report Baseline

1: US 301 & Route 17 Performance by movement

| Movement | EBL | EBT | EBR | WBL | WBT | NBT | NBR | SBT | SBR | All | |
|--------------------|------|------|-----|------|------|-----|-----|-----|-----|------|--|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | |
| Total Del/Veh (s) | 34.7 | 28.7 | 9.3 | 30.9 | 32.8 | 9.1 | 3.5 | 8.5 | 4.2 | 15.8 | |

2: US 301 & Back St Performance by movement

| Movement | NBT | All |
|--------------------|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 |
| Total Del/Veh (s) | 0.6 | 0.6 |

16: US 301 & Quadrant Roadway Performance by movement

| Movement | WBR | NBT | NBR | SBL | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.0 | 3.2 | 0.2 | 0.3 |
| Total Del/Veh (s) | 1.2 | 1.5 | 1.0 | 5.3 | 0.3 | 1.3 |

17: Route 17/US 17 (Tidewater Trail) & Quadrant Roadway Performance by movement

| Movement | EBT | WBT | WBR | SBL | SBR | All |
|--------------------|-----|-----|-----|------|------|------|
| Denied Del/Veh (s) | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 |
| Total Del/Veh (s) | 2.6 | 1.8 | 1.3 | 45.5 | 26.5 | 10.6 |

Total Network Performance

| Denied Del/Veh (s) | 0.3 |
|--------------------|------|
| Total Del/Veh (s) | 19.6 |

Intersection: 1: US 301 & Route 17

| Movement | EB | EB | B14 | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|------|-----|------|------|-----|-----|--|
| Directions Served | LT | TR | Т | LT | Т | TR | T | TR | |
| Maximum Queue (ft) | 189 | 130 | 67 | 174 | 153 | 116 | 144 | 131 | |
| Average Queue (ft) | 111 | 38 | 4 | 86 | 70 | 36 | 61 | 55 | |
| 95th Queue (ft) | 175 | 89 | 35 | 149 | 129 | 87 | 117 | 110 | |
| Link Distance (ft) | 121 | 121 | 2207 | 498 | 1062 | 1062 | 504 | 504 | |
| Upstream Blk Time (%) | 11 | 0 | | | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | | | |
| Storage Bay Dist (ft) | | | | | | | | | |
| Storage Blk Time (%) | | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | | |

Intersection: 2: US 301 & Back St

| Movement | NB |
|-----------------------|------|
| Directions Served | TR |
| Maximum Queue (ft) | 179 |
| Average Queue (ft) | 6 |
| 95th Queue (ft) | 183 |
| Link Distance (ft) | 1746 |
| Upstream Blk Time (%) | 0 |
| Queuing Penalty (veh) | 0 |
| Storage Bay Dist (ft) | |
| Storage Blk Time (%) | |
| Queuing Penalty (veh) | |

Intersection: 3: US 301 & Caroline St

| Movement |
|-----------------------|
| Directions Served |
| Maximum Queue (ft) |
| Average Queue (ft) |
| 95th Queue (ft) |
| Link Distance (ft) |
| Upstream Blk Time (%) |
| Queuing Penalty (veh) |
| Storage Bay Dist (ft) |
| Storage Blk Time (%) |
| Queuing Penalty (veh) |

Intersection: 4: US 301 & Walsingham Rd

Movement
Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 16: US 301 & Quadrant Roadway

| Movement | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|-----|-----|-----|--|
| Directions Served | R | T | TR | L | L | |
| Maximum Queue (ft) | 54 | 34 | 21 | 26 | 67 | |
| Average Queue (ft) | 13 | 2 | 1 | 2 | 28 | |
| 95th Queue (ft) | 40 | 14 | 12 | 17 | 58 | |
| Link Distance (ft) | 911 | 504 | 504 | | | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | | 250 | 250 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

Intersection: 17: Route 17/US 17 (Tidewater Trail) & Quadrant Roadway

| Movement | EB | EB | WB | WB | SB | SB |
|-----------------------|-----|-----|------|------|-----|-----|
| Directions Served | T | T | Т | R | L | LR |
| Maximum Queue (ft) | 18 | 27 | 61 | 53 | 80 | 98 |
| Average Queue (ft) | 1 | 1 | 14 | 15 | 26 | 58 |
| 95th Queue (ft) | 7 | 12 | 45 | 43 | 63 | 93 |
| Link Distance (ft) | 498 | 498 | 2174 | 2174 | 911 | 911 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Ray Dist (ft) | | | | | | |

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

Weekday PM Peak

| | ۶ | → | • | • | — | • | 1 | † | ~ | / | Ţ | ✓ |
|-----------------------------------|---------|----------|-------|------|-------------|------------|---------|------------|------|----------|------------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | | 414 | | | ∱ } | | | ↑ ↑ | |
| Traffic Volume (vph) | 107 | 141 | 17 | 23 | 123 | 0 | 0 | 521 | 35 | 0 | 641 | 312 |
| Future Volume (vph) | 107 | 141 | 17 | 23 | 123 | 0 | 0 | 521 | 35 | 0 | 641 | 312 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.8 | | | 5.8 | | | 6.5 | | | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 0.95 | | | 0.95 | | | 0.95 | |
| Frt | | 0.99 | | | 1.00 | | | 0.99 | | | 0.95 | |
| FIt Protected | | 0.98 | | | 0.99 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 3486 | | | 3523 | | | 3484 | | | 3365 | |
| FIt Permitted | | 0.78 | | | 0.86 | | | 1.00 | | | 1.00 | |
| Satd. Flow (perm) | | 2771 | | | 3045 | | | 3484 | | | 3365 | |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 113 | 148 | 18 | 24 | 129 | 0 | 0 | 548 | 37 | 0 | 675 | 328 |
| RTOR Reduction (vph) | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 41 | 0 |
| Lane Group Flow (vph) | 0 | 273 | 0 | 0 | 153 | 0 | 0 | 582 | 0 | 0 | 962 | 0 |
| Heavy Vehicles (%) | 0% | 1% | 0% | 0% | 2% | 1% | 0% | 2% | 12% | 1% | 3% | 0% |
| Turn Type | Perm | NA | | Perm | NA | | | NA | | | NA | |
| Protected Phases | | 4 | | | 8 | | | 2 | | | 6 | |
| Permitted Phases | 4 | | | 8 | | | | | | | | |
| Actuated Green, G (s) | | 15.3 | | | 15.3 | | | 72.4 | | | 72.4 | |
| Effective Green, g (s) | | 15.3 | | | 15.3 | | | 72.4 | | | 72.4 | |
| Actuated g/C Ratio | | 0.15 | | | 0.15 | | | 0.72 | | | 0.72 | |
| Clearance Time (s) | | 5.8 | | | 5.8 | | | 6.5 | | | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 423 | | | 465 | | | 2522 | | | 2436 | |
| v/s Ratio Prot | | | | | | | | 0.17 | | | c0.29 | |
| v/s Ratio Perm | | c0.10 | | | 0.05 | | | | | | | |
| v/c Ratio | | 0.65 | | | 0.33 | | | 0.23 | | | 0.39 | |
| Uniform Delay, d1 | | 39.8 | | | 37.8 | | | 4.6 | | | 5.3 | |
| Progression Factor | | 1.00 | | | 0.87 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 3.4 | | | 0.4 | | | 0.2 | | | 0.5 | |
| Delay (s) | | 43.2 | | | 33.1 | | | 4.8 | | | 5.8 | |
| Level of Service | | D | | | С | | | Α | | | Α | |
| Approach Delay (s) | | 43.2 | | | 33.1 | | | 4.8 | | | 5.8 | |
| Approach LOS | | D | | | С | | | Α | | | Α | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 12.7 | H | CM 2000 | Level of S | Service | | В | | | |
| HCM 2000 Volume to Capacity | / ratio | | 0.44 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 100.0 | | um of lost | | | | 12.3 | | | |
| Intersection Capacity Utilization | n | | 55.3% | IC | CU Level of | of Service | | | В | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 10 Report Page 1

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|----------------------------------|---------|-------|------------|------|-----------|------------------|----|-----|--|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
| Lane Configurations | | 7 | ↑ ↑ | | ሻሻ | ^ | | | |
| Traffic Volume (vph) | 0 | 102 | 614 | 14 | 326 | 953 | | | |
| Future Volume (vph) | 0 | 102 | 614 | 14 | 326 | 953 | | | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | | |
| Total Lost time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Lane Util. Factor | | 1.00 | 0.95 | | 0.97 | 0.95 | | | |
| Frt | | 0.86 | 1.00 | | 1.00 | 1.00 | | | |
| Flt Protected | | 1.00 | 1.00 | | 0.95 | 1.00 | | | |
| Satd. Flow (prot) | | 1611 | 3528 | | 3433 | 3539 | | | |
| FIt Permitted | | 1.00 | 1.00 | | 0.37 | 1.00 | | | |
| Satd. Flow (perm) | | 1611 | 3528 | | 1347 | 3539 | | | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | |
| Adj. Flow (vph) | 0 | 111 | 667 | 15 | 354 | 1036 | | | |
| RTOR Reduction (vph) | 0 | 0 | 1 | 0 | 0 | 0 | | | |
| Lane Group Flow (vph) | 0 | 111 | 681 | 0 | 354 | 1036 | | | |
| Turn Type | | Perm | NA | | pm+pt | NA | | | |
| Protected Phases | | | 2 | | 1 | 6 | | | |
| Permitted Phases | | 6 | | | 6 | | | | |
| Actuated Green, G (s) | | 100.0 | 85.5 | | 95.5 | 100.0 | | | |
| Effective Green, g (s) | | 100.0 | 85.5 | | 95.5 | 100.0 | | | |
| Actuated g/C Ratio | | 1.00 | 0.86 | | 0.96 | 1.00 | | | |
| Clearance Time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Vehicle Extension (s) | | 3.0 | 3.0 | | 3.0 | 3.0 | | | |
| Lane Grp Cap (vph) | | 1611 | 3016 | | 1401 | 3539 | | | |
| v/s Ratio Prot | | | 0.19 | | 0.01 | c0.29 | | | |
| v/s Ratio Perm | | 0.07 | | | 0.23 | | | | |
| v/c Ratio | | 0.07 | 0.23 | | 0.25 | 0.29 | | | |
| Uniform Delay, d1 | | 0.0 | 1.3 | | 0.2 | 0.0 | | | |
| Progression Factor | | 1.00 | 0.57 | | 1.00 | 1.00 | | | |
| Incremental Delay, d2 | | 0.1 | 0.2 | | 0.1 | 0.2 | | | |
| Delay (s) | | 0.1 | 0.9 | | 0.3 | 0.2 | | | |
| Level of Service | | Α | Α | | Α | A | | | |
| Approach Delay (s) | 0.1 | | 0.9 | | | 0.2 | | | |
| Approach LOS | Α | | Α | | | Α | | | |
| Intersection Summary | | | | | | | | | |
| HCM 2000 Control Delay | | | 0.4 | Н | CM 2000 | Level of Service | ce | A | |
| HCM 2000 Volume to Capacity | v ratio | | 0.32 | | | 3.2.3.007 | | | |
| Actuated Cycle Length (s) | , | | 100.0 | S | um of los | t time (s) | | 9.0 | |
| Intersection Capacity Utilizatio | n | | 34.2% | | | of Service | | A | |
| Analysis Period (min) | | | 15 | | | | | | |

Baseline Synchro 10 Report Page 2

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|---------------------------------|-----------|------|----------|------|-------------|------------------|-----|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | | |
| Lane Configurations | | 414 | † | 7 | ሻሻ | | | |
| Traffic Volume (vph) | 0 | 176 | 132 | 102 | 326 | 14 | | |
| Future Volume (vph) | 0 | 176 | 132 | 102 | 326 | 14 | | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | |
| Total Lost time (s) | | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.97 | | | |
| Frt | | 1.00 | 1.00 | 0.85 | 0.99 | | | |
| Flt Protected | | 1.00 | 1.00 | 1.00 | 0.95 | | | |
| Satd. Flow (prot) | | 3539 | 1863 | 1583 | 3427 | | | |
| FIt Permitted | | 1.00 | 1.00 | 1.00 | 0.95 | | | |
| Satd. Flow (perm) | | 3539 | 1863 | 1583 | 3427 | | | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | |
| Adj. Flow (vph) | 0 | 191 | 143 | 111 | 354 | 15 | | |
| RTOR Reduction (vph) | 0 | 0 | 0 | 28 | 5 | 0 | | |
| Lane Group Flow (vph) | 0 | 191 | 143 | 83 | 364 | 0 | | |
| Turn Type | | NA | NA | Perm | Prot | | | |
| Protected Phases | | 4 | 8 | . • | 1 | | | |
| Permitted Phases | 4 | • | | 8 | • | | | |
| Actuated Green, G (s) | | 74.8 | 74.8 | 74.8 | 16.2 | | | |
| Effective Green, g (s) | | 74.8 | 74.8 | 74.8 | 16.2 | | | |
| Actuated g/C Ratio | | 0.75 | 0.75 | 0.75 | 0.16 | | | |
| Clearance Time (s) | | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| Vehicle Extension (s) | | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| Lane Grp Cap (vph) | | 2647 | 1393 | 1184 | 555 | | | |
| v/s Ratio Prot | | 0.05 | c0.08 | | c0.11 | | | |
| v/s Ratio Perm | | | | 0.05 | | | | |
| v/c Ratio | | 0.07 | 0.10 | 0.07 | 0.66 | | | |
| Uniform Delay, d1 | | 3.4 | 3.4 | 3.4 | 39.3 | | | |
| Progression Factor | | 0.23 | 1.00 | 1.00 | 0.99 | | | |
| Incremental Delay, d2 | | 0.1 | 0.1 | 0.1 | 2.8 | | | |
| Delay (s) | | 0.8 | 3.6 | 3.5 | 41.7 | | | |
| Level of Service | | Α | Α | Α | D | | | |
| Approach Delay (s) | | 0.8 | 3.5 | | 41.7 | | | |
| Approach LOS | | Α | Α | | D | | | |
| Intersection Summary | | | | | | | | |
| HCM 2000 Control Delay | | | 20.2 | H | CM 2000 | Level of Service | С | |
| HCM 2000 Volume to Capac | ity ratio | | 0.20 | | | | | |
| Actuated Cycle Length (s) | | | 100.0 | Sı | um of lost | time (s) | 9.0 | |
| Intersection Capacity Utilizati | ion | | 24.2% | | U Level c | | Α | |
| Analysis Period (min) | | | 15 | | | | | |
| a Critical Lana Craus | | | | | | | | |

Baseline Synchro 10 Report Page 3

1: US 301 & Route 17 Performance by movement

| Movement | EBL | EBT | EBR | WBL | WBT | NBT | NBR | SBT | SBR | All | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Denied Delay (hr) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Total Delay (hr) | 1.2 | 1.2 | 0.1 | 0.2 | 1.2 | 1.1 | 0.0 | 1.4 | 0.6 | 7.0 | |

2: US 301 & Back St Performance by movement

| Movement | NBT | All |
|-------------------|-----|-----|
| Denied Delay (hr) | 0.0 | 0.0 |
| • • • | 0.0 | 0.0 |
| Total Delay (hr) | 0.1 | 0.1 |

16: US 301 & Quadrant Roadway Performance by movement

| Movement | WBR | NBT | NBR | SBL | SBT | All |
|-------------------|-----|-----|-----|-----|-----|-----|
| Denied Delay (hr) | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.3 |
| Total Delay (hr) | 0.0 | 0.3 | 0.0 | 0.8 | 0.2 | 1.3 |

17: Route 17/US 17 (Tidewater Trail) & Quadrant Roadway Performance by movement

| Movement | EBT | WBT | WBR | SBL | SBR | All |
|-------------------|-----|-----|-----|-----|-----|-----|
| Denied Delay (hr) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (hr) | 0.2 | 0.1 | 0.0 | 3.7 | 0.1 | 4.2 |

Total Network Performance

Intersection: 1: US 301 & Route 17

| Movement | EB | EB | B14 | WB | NB | NB | SB | SB |
|-----------------------|-----|-----|------|-----|------|------|-----|-----|
| Directions Served | LT | TR | T | LT | Т | TR | T | TR |
| Maximum Queue (ft) | 165 | 137 | 16 | 161 | 143 | 120 | 201 | 222 |
| Average Queue (ft) | 92 | 60 | 1 | 77 | 72 | 39 | 89 | 110 |
| 95th Queue (ft) | 144 | 112 | 11 | 138 | 130 | 91 | 158 | 193 |
| Link Distance (ft) | 121 | 121 | 2207 | 498 | 1062 | 1062 | 504 | 504 |
| Upstream Blk Time (%) | 5 | 1 | | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | | | | | |
| Storage Bay Dist (ft) | | | | | | | | |
| Storage Blk Time (%) | | | | | | | | |
| Queuing Penalty (veh) | | | | | | | | |

Intersection: 2: US 301 & Back St

| Movement | |
|-------------------|--|
| Directions Served | |

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 3: US 301 & Caroline St

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 4: US 301 & Walsingham Rd

Movement **Directions Served**

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 16: US 301 & Quadrant Roadway

| Movement | WB | NB | NB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|----|
| Directions Served | R | T | TR | L | L | T |
| Maximum Queue (ft) | 59 | 49 | 52 | 111 | 149 | 86 |
| Average Queue (ft) | 9 | 9 | 6 | 22 | 63 | 3 |
| 95th Queue (ft) | 36 | 34 | 29 | 69 | 113 | 88 |
| Link Distance (ft) | 911 | 504 | 504 | | | |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Bay Dist (ft) | | | | 250 | 250 | |
| Storage Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

Intersection: 17: Route 17/US 17 (Tidewater Trail) & Quadrant Roadway

| Movement | EB | EB | WB | WB | SB | SB |
|-----------------------|-----|-----|------|------|-----|-----|
| Directions Served | LT | Т | Т | R | L | LR |
| Maximum Queue (ft) | 24 | 43 | 78 | 53 | 191 | 203 |
| Average Queue (ft) | 2 | 5 | 19 | 16 | 100 | 119 |
| 95th Queue (ft) | 13 | 24 | 57 | 45 | 162 | 175 |
| Link Distance (ft) | 498 | 498 | 2174 | 2174 | 911 | 911 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |
| Storage Ray Dist (ft) | | | | | | |

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 0

Sunday Worst-Case Scenario

| | ۶ | → | • | • | + | • | • | † | / | / | + | ✓ |
|-----------------------------------|-------|----------|-------|------|------------|------------|---------|------------|----------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | 414 | | | 41₽ | | | ∱ β | | | ħβ | |
| Traffic Volume (vph) | 77 | 184 | 12 | 23 | 181 | 0 | 0 | 1733 | 26 | 0 | 1137 | 88 |
| Future Volume (vph) | 77 | 184 | 12 | 23 | 181 | 0 | 0 | 1733 | 26 | 0 | 1137 | 88 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | | 5.8 | | | 5.8 | | | 6.5 | | | 6.5 | |
| Lane Util. Factor | | 0.95 | | | 0.95 | | | 0.95 | | | 0.95 | |
| Frt | | 0.99 | | | 1.00 | | | 1.00 | | | 0.99 | |
| Flt Protected | | 0.99 | | | 0.99 | | | 1.00 | | | 1.00 | |
| Satd. Flow (prot) | | 3512 | | | 3527 | | | 3526 | | | 3474 | |
| FIt Permitted | | 0.80 | | | 0.86 | | | 1.00 | | | 1.00 | |
| Satd. Flow (perm) | | 2848 | | | 3060 | | | 3526 | | | 3474 | |
| Peak-hour factor, PHF | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Adj. Flow (vph) | 81 | 194 | 13 | 24 | 191 | 0 | 0 | 1824 | 27 | 0 | 1197 | 93 |
| RTOR Reduction (vph) | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 |
| Lane Group Flow (vph) | 0 | 285 | 0 | 0 | 215 | 0 | 0 | 1850 | 0 | 0 | 1285 | 0 |
| Heavy Vehicles (%) | 0% | 1% | 0% | 0% | 2% | 1% | 0% | 2% | 12% | 1% | 3% | 0% |
| Turn Type | Perm | NA | | Perm | NA | | | NA | | | NA | |
| Protected Phases | | 4 | | | 8 | | | 2 | | | 6 | |
| Permitted Phases | 4 | | | 8 | | | | | | | 6 | |
| Actuated Green, G (s) | | 14.3 | | | 14.3 | | | 73.4 | | | 73.4 | |
| Effective Green, g (s) | | 14.3 | | | 14.3 | | | 73.4 | | | 73.4 | |
| Actuated g/C Ratio | | 0.14 | | | 0.14 | | | 0.73 | | | 0.73 | |
| Clearance Time (s) | | 5.8 | | | 5.8 | | | 6.5 | | | 6.5 | |
| Vehicle Extension (s) | | 3.0 | | | 3.0 | | | 3.0 | | | 3.0 | |
| Lane Grp Cap (vph) | | 407 | | | 437 | | | 2588 | | | 2549 | |
| v/s Ratio Prot | | | | | | | | c0.52 | | | 0.37 | |
| v/s Ratio Perm | | c0.10 | | | 0.07 | | | | | | | |
| v/c Ratio | | 0.70 | | | 0.49 | | | 0.71 | | | 0.50 | |
| Uniform Delay, d1 | | 40.8 | | | 39.5 | | | 7.4 | | | 5.6 | |
| Progression Factor | | 1.00 | | | 0.93 | | | 1.00 | | | 1.00 | |
| Incremental Delay, d2 | | 5.2 | | | 0.9 | | | 1.7 | | | 0.7 | |
| Delay (s) | | 46.0 | | | 37.6 | | | 9.2 | | | 6.3 | |
| Level of Service | | D | | | D | | | Α | | | Α | |
| Approach Delay (s) | | 46.0 | | | 37.6 | | | 9.2 | | | 6.3 | |
| Approach LOS | | D | | | D | | | Α | | | Α | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 12.7 | Н | CM 2000 | Level of S | Service | | В | | | |
| HCM 2000 Volume to Capacity | ratio | | 0.71 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 100.0 | | um of lost | | | | 12.3 | | | |
| Intersection Capacity Utilization | | | 77.2% | IC | CU Level | of Service | | | D | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 10 Report Page 1

| | • | • | † | / | - | ↓ | | | |
|-----------------------------------|---------|---------|----------|------|-------------|------------------|---|-----|--|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | | |
| Lane Configurations | | # | ħβ | | ሻሻ | ^ | | | |
| Traffic Volume (vph) | 0 | 353 | 1783 | 27 | 485 | 1225 | | | |
| Future Volume (vph) | 0 | 353 | 1783 | 27 | 485 | 1225 | | | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | | |
| Total Lost time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Lane Util. Factor | | 1.00 | 0.95 | | 0.97 | 0.95 | | | |
| Frt | | 0.86 | 1.00 | | 1.00 | 1.00 | | | |
| Flt Protected | | 1.00 | 1.00 | | 0.95 | 1.00 | | | |
| Satd. Flow (prot) | | 1611 | 3531 | | 3433 | 3539 | | | |
| Flt Permitted | | 1.00 | 1.00 | | 0.06 | 1.00 | | | |
| Satd. Flow (perm) | | 1611 | 3531 | | 228 | 3539 | | | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | |
| Adj. Flow (vph) | 0 | 384 | 1938 | 29 | 527 | 1332 | | | |
| RTOR Reduction (vph) | 0 | 0 | 1 | 0 | 0 | 0 | | | |
| Lane Group Flow (vph) | 0 | 384 | 1966 | 0 | 527 | 1332 | | | |
| Turn Type | | Perm | NA | | pm+pt | NA NA | | | |
| Protected Phases | | 1 01111 | 2 | | 1 | 6 | | | |
| Permitted Phases | | 6 | | | 6 | | | | |
| Actuated Green, G (s) | | 100.0 | 75.6 | | 95.5 | 100.0 | | | |
| Effective Green, g (s) | | 100.0 | 75.6 | | 95.5 | 100.0 | | | |
| Actuated g/C Ratio | | 1.00 | 0.76 | | 0.96 | 1.00 | | | |
| Clearance Time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Vehicle Extension (s) | | 3.0 | 3.0 | | 3.0 | 3.0 | | | |
| Lane Grp Cap (vph) | | 1611 | 2669 | | 711 | 3539 | | | |
| v/s Ratio Prot | | 1011 | 0.56 | | c0.11 | 0.38 | | | |
| v/s Ratio Perm | | 0.24 | 0.00 | | c0.59 | 0.00 | | | |
| v/c Ratio | | 0.24 | 0.74 | | 0.74 | 0.38 | | | |
| Uniform Delay, d1 | | 0.0 | 6.7 | | 28.3 | 0.0 | | | |
| Progression Factor | | 1.00 | 0.21 | | 1.00 | 1.00 | | | |
| Incremental Delay, d2 | | 0.3 | 1.3 | | 4.2 | 0.3 | | | |
| Delay (s) | | 0.3 | 2.7 | | 32.5 | 0.3 | | | |
| Level of Service | | Α | Α | | C | A | | | |
| Approach Delay (s) | 0.3 | | 2.7 | | | 9.4 | | | |
| Approach LOS | Α. | | Α. | | | A | | | |
| | ,, | | / \ | | | - 1 | | | |
| Intersection Summary | | | | | 1014 000 | | | | |
| HCM 2000 Control Delay | | | 5.5 | F | ICM 2000 | Level of Service | e | Α | |
| HCM 2000 Volume to Capacit | y ratio | | 0.76 | _ | | | | 0.0 | |
| Actuated Cycle Length (s) | | | 100.0 | | Sum of lost | | | 9.0 | |
| Intersection Capacity Utilization | n | | 79.5% | IC | JU Level (| of Service | | D | |
| Analysis Period (min) | | | 15 | | | | | | |

c Critical Lane Group

Baseline Synchro 10 Report Page 2

| | • | → | ← | • | > | ✓ | | |
|-----------------------------------|----------|----------|----------|-------|-------------|------------------|-----|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | | |
| Lane Configurations | | 41∱ | † | 7 | NY | | | |
| Traffic Volume (vph) | 0 | 210 | 177 | 353 | 485 | 27 | | |
| Future Volume (vph) | 0 | 210 | 177 | 353 | 485 | 27 | | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | |
| Total Lost time (s) | | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| Lane Util. Factor | | 0.95 | 1.00 | 1.00 | 0.97 | | | |
| Frt | | 1.00 | 1.00 | 0.85 | 0.99 | | | |
| Flt Protected | | 1.00 | 1.00 | 1.00 | 0.95 | | | |
| Satd. Flow (prot) | | 3539 | 1863 | 1583 | 3423 | | | |
| FIt Permitted | | 1.00 | 1.00 | 1.00 | 0.95 | | | |
| Satd. Flow (perm) | | 3539 | 1863 | 1583 | 3423 | | | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | |
| Adj. Flow (vph) | 0 | 228 | 192 | 384 | 527 | 29 | | |
| RTOR Reduction (vph) | 0 | 0 | 0 | 118 | 5 | 0 | | |
| Lane Group Flow (vph) | 0 | 228 | 192 | 266 | 551 | 0 | | |
| Turn Type | | NA | NA | Perm | Prot | | | |
| Protected Phases | | 4 | 8 | | 1 | | | |
| Permitted Phases | 4 | | | 8 | | | | |
| Actuated Green, G (s) | | 69.2 | 69.2 | 69.2 | 21.8 | | | |
| Effective Green, g (s) | | 69.2 | 69.2 | 69.2 | 21.8 | | | |
| Actuated g/C Ratio | | 0.69 | 0.69 | 0.69 | 0.22 | | | |
| Clearance Time (s) | | 4.5 | 4.5 | 4.5 | 4.5 | | | |
| Vehicle Extension (s) | | 3.0 | 3.0 | 3.0 | 3.0 | | | |
| Lane Grp Cap (vph) | | 2448 | 1289 | 1095 | 746 | | | |
| v/s Ratio Prot | | 0.06 | 0.10 | | c0.16 | | | |
| v/s Ratio Perm | | | | c0.17 | | | | |
| v/c Ratio | | 0.09 | 0.15 | 0.24 | 0.74 | | | |
| Uniform Delay, d1 | | 5.1 | 5.3 | 5.7 | 36.4 | | | |
| Progression Factor | | 0.23 | 1.00 | 1.00 | 0.44 | | | |
| Incremental Delay, d2 | | 0.1 | 0.2 | 0.5 | 3.0 | | | |
| Delay (s) | | 1.2 | 5.5 | 6.2 | 19.1 | | | |
| Level of Service | | Α | Α | Α | В | | | |
| Approach Delay (s) | | 1.2 | 6.0 | | 19.1 | | | |
| Approach LOS | | Α | Α | | В | | | |
| Intersection Summary | | | | | | | | |
| HCM 2000 Control Delay | | | 10.5 | H | CM 2000 | Level of Service | В | |
| HCM 2000 Volume to Capaci | ty ratio | | 0.36 | | | | | |
| Actuated Cycle Length (s) | | | 100.0 | Sı | um of lost | time (s) | 9.0 | |
| Intersection Capacity Utilization | on | | 35.2% | | U Level c | | Α | |
| Analysis Period (min) | | | 15 | | | | | |
| a Critical Lana Craun | | | | | | | | |

c Critical Lane Group

Baseline Synchro 10 Report Page 3

1: US 301 & Route 17 Performance by movement

| Movement | EBL | EBT | EBR | WBL | WBT | NBT | NBR | SBT | SBR | All | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| Denied Delay (hr) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | |
| Total Delay (hr) | 1.6 | 2.4 | 0.1 | 0.5 | 4.0 | 5.5 | 0.1 | 2.1 | 0.1 | 16.4 | |

2: US 301 & Back St Performance by movement

| Movement | NBT | All |
|-------------------|-----|-----|
| Denied Delay (hr) | 0.0 | 0.0 |
| Total Delay (hr) | 1.3 | 1.3 |

16: US 301 & Quadrant Roadway Performance by movement

| Movement | WBR | NBT | NBR | SBL | SBT | All |
|-------------------|-----|-----|-----|-----|-----|------|
| Denied Delay (hr) | 0.0 | 0.0 | 0.0 | 0.3 | 0.2 | 0.5 |
| Total Delay (hr) | 1.8 | 3.5 | 0.1 | 4.6 | 0.6 | 10.6 |

17: Route 17/US 17 (Tidewater Trail) & Quadrant Roadway Performance by movement

| Movement | EBT | WBT | WBR | SBL | SBR | All |
|-------------------|-----|-----|-----|-----|-----|-----|
| Denied Delay (hr) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay (hr) | 0.4 | 0.4 | 0.4 | 4.7 | 0.2 | 6.1 |

Total Network Performance

| Denied Delay (hr) | 0.7 |
|-------------------|------|
| Total Delay (hr) | 36.8 |

Intersection: 1: US 301 & Route 17

| Movement | EB | EB | B14 | WB | WB | NB | NB | SB | SB | |
|-----------------------|-----|-----|------|-----|-----|------|------|-----|-----|--|
| Directions Served | LT | TR | T | LT | T | T | TR | Т | TR | |
| Maximum Queue (ft) | 186 | 183 | 135 | 375 | 52 | 239 | 257 | 195 | 214 | |
| Average Queue (ft) | 106 | 89 | 15 | 177 | 3 | 149 | 152 | 107 | 121 | |
| 95th Queue (ft) | 169 | 159 | 100 | 330 | 64 | 225 | 234 | 178 | 192 | |
| Link Distance (ft) | 121 | 121 | 2207 | 498 | 498 | 1956 | 1956 | 504 | 504 | |
| Upstream Blk Time (%) | 14 | 5 | | 0 | 0 | | | | | |
| Queuing Penalty (veh) | 0 | 0 | | 0 | 0 | | | | | |
| Storage Bay Dist (ft) | | | | | | | | | | |

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 2: US 301 & Back St

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 3: US 301 & Caroline St

Movement

Directions Served

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 4: US 301 & Walsingham Rd

Movement **Directions Served**

Maximum Queue (ft)

Average Queue (ft)

95th Queue (ft)

Link Distance (ft)

Upstream Blk Time (%)

Queuing Penalty (veh)

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Intersection: 16: US 301 & Quadrant Roadway

| Movement | WB | NB | NB | SB | SB | SB | SB |
|-----------------------|-----|-----|-----|-----|-----|-----|----|
| Directions Served | R | Т | TR | L | L | T | T |
| Maximum Queue (ft) | 300 | 213 | 208 | 235 | 243 | 163 | 76 |
| Average Queue (ft) | 131 | 59 | 69 | 136 | 173 | 14 | 5 |
| 95th Queue (ft) | 241 | 144 | 155 | 221 | 245 | 135 | 78 |
| Link Distance (ft) | 911 | 504 | 504 | | | | |
| Upstream Blk Time (%) | | | | | | | |
| Queuing Penalty (veh) | | | | | | | |
| Storage Bay Dist (ft) | | | | 250 | 250 | | |
| Storage Blk Time (%) | | | | 0 | 1 | 0 | |
| Queuing Penalty (veh) | | | | 0 | 4 | 1 | |

Intersection: 17: Route 17/US 17 (Tidewater Trail) & Quadrant Roadway

| Movement | EB | EB | WB | WB | SB | SB |
|-----------------------|-----|-----|------|------|-----|-----|
| Directions Served | LT | Т | Т | R | L | LR |
| Maximum Queue (ft) | 68 | 70 | 127 | 115 | 270 | 291 |
| Average Queue (ft) | 12 | 19 | 42 | 49 | 119 | 139 |
| 95th Queue (ft) | 44 | 53 | 99 | 92 | 231 | 251 |
| Link Distance (ft) | 498 | 498 | 2174 | 2174 | 911 | 911 |
| Upstream Blk Time (%) | | | | | | |
| Queuing Penalty (veh) | | | | | | |

Storage Bay Dist (ft)

Storage Blk Time (%)

Queuing Penalty (veh)

Network Summary

Network wide Queuing Penalty: 5

APPENDIX H3

Transportation Options:
Operational Analysis –
Couplet

Weekday AM Peak

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|-------------------------|------|----------|------|----------|------|----------|
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT |
| Lane Group Flow (vph) | 215 | 526 | 46 | 256 | 11 | 448 |
| v/c Ratio | 0.61 | 0.47 | 0.18 | 0.80 | 0.01 | 0.27 |
| Control Delay | 30.0 | 12.2 | 23.5 | 53.7 | 18.2 | 17.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 30.0 | 12.2 | 23.5 | 53.7 | 18.2 | 17.8 |
| Queue Length 50th (ft) | 148 | 84 | 23 | 153 | 4 | 96 |
| Queue Length 95th (ft) | 160 | 115 | 40 | 228 | 17 | 163 |
| Internal Link Dist (ft) | | 573 | | 2711 | | 1025 |
| Turn Bay Length (ft) | 175 | | | | 200 | |
| Base Capacity (vph) | 413 | 1600 | 270 | 553 | 951 | 1643 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.52 | 0.33 | 0.17 | 0.46 | 0.01 | 0.27 |
| Intersection Summary | | | | | | |

Synchro 9 Report Page 1 Baseline

| | ٠ | → | • | € | — | • | • | † | <i>></i> | / | + | ✓ |
|-------------------------------|------------|------------|-------|-------|------------|------------|---------|----------|-------------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | 7 | ↑ ↑ | | 7 | ĵ. | | , N | ħβ | | | | |
| Traffic Volume (vph) | 211 | 160 | 356 | 45 | 116 | 135 | 11 | 412 | 27 | 0 | 0 | 0 |
| Future Volume (vph) | 211 | 160 | 356 | 45 | 116 | 135 | 11 | 412 | 27 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.8 | 5.7 | | 5.8 | 5.8 | | 6.5 | 6.5 | | | | |
| Lane Util. Factor | 1.00 | 0.95 | | 1.00 | 1.00 | | 1.00 | 0.95 | | | | |
| Frt | 1.00 | 0.90 | | 1.00 | 0.92 | | 1.00 | 0.99 | | | | |
| Flt Protected | 0.95 | 1.00 | | 0.95 | 1.00 | | 0.95 | 1.00 | | | | |
| Satd. Flow (prot) | 1736 | 3051 | | 1719 | 1513 | | 1805 | 3113 | | | | |
| Flt Permitted | 0.27 | 1.00 | | 0.46 | 1.00 | | 0.95 | 1.00 | | | | |
| Satd. Flow (perm) | 498 | 3051 | | 827 | 1513 | | 1805 | 3113 | | | | |
| Peak-hour factor, PHF | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Adj. Flow (vph) | 215 | 163 | 363 | 46 | 118 | 138 | 11 | 420 | 28 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 261 | 0 | 0 | 43 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 215 | 265 | 0 | 46 | 213 | 0 | 11 | 445 | 0 | 0 | 0 | 0 |
| Heavy Vehicles (%) | 4% | 4% | 7% | 5% | 16% | 15% | 0% | 15% | 13% | 7% | 11% | 1% |
| Turn Type | pm+pt | NA | | pm+pt | NA | | Split | NA | | | | |
| Protected Phases | 3 | 8 | | 7 | 4 | | 2 | 2 | | | | |
| Permitted Phases | 8 | | | 4 | | | | | | | | |
| Actuated Green, G (s) | 45.7 | 33.8 | | 29.5 | 23.4 | | 62.1 | 62.1 | | | | |
| Effective Green, g (s) | 45.7 | 33.8 | | 29.5 | 23.4 | | 62.1 | 62.1 | | | | |
| Actuated g/C Ratio | 0.38 | 0.28 | | 0.25 | 0.19 | | 0.52 | 0.52 | | | | |
| Clearance Time (s) | 5.8 | 5.7 | | 5.8 | 5.8 | | 6.5 | 6.5 | | | | |
| Vehicle Extension (s) | 3.0 | 3.0 | | 3.0 | 3.0 | | 5.5 | 5.5 | | | | |
| Lane Grp Cap (vph) | 358 | 859 | | 248 | 295 | | 934 | 1610 | | | | |
| v/s Ratio Prot | c0.08 | 0.09 | | 0.01 | c0.14 | | 0.01 | c0.14 | | | | |
| v/s Ratio Perm | 0.15 | | | 0.04 | | | | | | | | |
| v/c Ratio | 0.60 | 0.31 | | 0.19 | 0.72 | | 0.01 | 0.28 | | | | |
| Uniform Delay, d1 | 27.6 | 33.9 | | 35.1 | 45.3 | | 14.1 | 16.3 | | | | |
| Progression Factor | 0.89 | 1.11 | | 1.00 | 1.00 | | 1.00 | 1.00 | | | | |
| Incremental Delay, d2 | 2.7 | 0.2 | | 0.4 | 8.5 | | 0.0 | 0.4 | | | | |
| Delay (s) | 27.3 | 37.9 | | 35.4 | 53.7 | | 14.1 | 16.7 | | | | |
| Level of Service | С | D | | D | D | | В | В | | | | |
| Approach Delay (s) | | 34.8 | | | 51.0 | | | 16.7 | | | 0.0 | |
| Approach LOS | | С | | | D | | | В | | | Α | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 32.5 | Н | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.44 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 120.0 | | um of lost | ٠, | | | 18.1 | | | |
| Intersection Capacity Utiliza | ation | | 53.4% | IC | CU Level | of Service | | | Α | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 9 Report Page 2

| | _ | • | 6 | 1 |
|-------------------------|------|------|-------|------|
| | | WDT | 014/1 | OWD |
| Lane Group | EBT | WBT | SWL | SWR |
| Lane Group Flow (vph) | 299 | 135 | 491 | 112 |
| v/c Ratio | 0.32 | 0.15 | 0.33 | 0.15 |
| Control Delay | 19.4 | 5.6 | 23.6 | 4.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 19.4 | 5.6 | 23.6 | 4.2 |
| Queue Length 50th (ft) | 135 | 14 | 128 | 0 |
| Queue Length 95th (ft) | 199 | 19 | 170 | 34 |
| Internal Link Dist (ft) | 1702 | 573 | 620 | |
| Turn Bay Length (ft) | | | | |
| Base Capacity (vph) | 923 | 923 | 1473 | 743 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.32 | 0.15 | 0.33 | 0.15 |
| Interception Cummery | | | | |
| Intersection Summary | | | | |

Synchro 9 Report Page 3 Baseline

| Movement EBL EBT WBT WBR SWL SWR Lane Configurations ↑ |
|--|
| Lane Configurations ↑ |
| Traffic Volume (vph) 0 275 124 0 452 103 Future Volume (vph) 0 275 124 0 452 103 Ideal Flow (vphpl) 1900 1900 1900 1900 Total Lost time (s) 4.5 4.5 4.5 Lane Util. Factor 1.00 1.00 0.97 1.00 Frt 1.00 1.00 0.95 1.00 Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Future Volume (vph) 0 275 124 0 452 103 Ideal Flow (vphpl) 1900 1900 1900 1900 1900 Total Lost time (s) 4.5 4.5 4.5 4.5 Lane Util. Factor 1.00 1.00 0.97 1.00 Frt 1.00 1.00 0.85 Flt Protected 1.00 1.00 0.95 1.00 Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Ideal Flow (vphpl) 1900 1900 1900 1900 1900 Total Lost time (s) 4.5 4.5 4.5 4.5 Lane Util. Factor 1.00 1.00 0.97 1.00 Frt 1.00 1.00 0.85 Flt Protected 1.00 1.00 0.95 1.00 Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Total Lost time (s) 4.5 4.5 4.5 4.5 Lane Util. Factor 1.00 1.00 0.97 1.00 Frt 1.00 1.00 0.85 Flt Protected 1.00 1.00 0.95 1.00 Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Lane Util. Factor 1.00 1.00 0.97 1.00 Frt 1.00 1.00 0.85 Flt Protected 1.00 1.00 0.95 1.00 Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Frt 1.00 1.00 0.85 Flt Protected 1.00 1.00 0.95 1.00 Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Flt Protected 1.00 1.00 0.95 1.00 Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Satd. Flow (prot) 1863 1863 3433 1583 Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Flt Permitted 1.00 1.00 0.95 1.00 Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 0 0 0 64 Lane Group Flow (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Satd. Flow (perm) 1863 1863 3433 1583 Peak-hour factor, PHF 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 0 0 0 64 Lane Group Flow (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Peak-hour factor, PHF 0.92 0.92 0.92 0.92 0.92 Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 0 0 0 64 Lane Group Flow (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Adj. Flow (vph) 0 299 135 0 491 112 RTOR Reduction (vph) 0 0 0 0 64 Lane Group Flow (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| RTOR Reduction (vph) 0 0 0 0 64 Lane Group Flow (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Lane Group Flow (vph) 0 299 135 0 491 48 Turn Type NA NA Prot Perm |
| Turn Type NA NA Prot Perm |
| |
| |
| Permitted Phases 2 |
| Actuated Green, G (s) 59.5 59.5 51.5 51.5 |
| Effective Green, g (s) 59.5 59.5 51.5 |
| Actuated g/C Ratio 0.50 0.50 0.43 0.43 |
| Clearance Time (s) 4.5 4.5 4.5 |
| Vehicle Extension (s) 3.0 3.0 3.0 3.0 |
| Lane Grp Cap (vph) 923 923 1473 679 |
| v/s Ratio Prot c0.16 0.07 c0.14 |
| v/s Ratio Perm 0.03 |
| v/c Ratio 0.32 0.15 0.33 0.07 |
| Uniform Delay, d1 18.2 16.4 22.8 20.2 |
| Progression Factor 1.00 0.32 1.00 1.00 |
| Incremental Delay, d2 0.2 0.3 0.6 0.2 |
| Delay (s) 18.4 5.5 23.4 20.4 |
| Level of Service B A C C |
| Approach Delay (s) 18.4 5.5 22.9 |
| Approach LOS B A C |
| |
| Intersection Summary |
| HCM 2000 Control Delay 19.3 HCM 2000 Level of Service B |
| HCM 2000 Volume to Capacity ratio 0.33 |
| Actuated Cycle Length (s) 120.0 Sum of lost time (s) 9.0 |
| Intersection Capacity Utilization 34.9% ICU Level of Service A |
| Analysis Period (min) 15 |

c Critical Lane Group

Baseline Synchro 9 Report Page 4

Weekday PM Peak

| | ۶ | → | • | ← | 4 | † |
|-------------------------|------|----------|------|----------|------|----------|
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT |
| Lane Group Flow (vph) | 126 | 1130 | 23 | 215 | 14 | 553 |
| v/c Ratio | 0.30 | 0.83 | 0.15 | 0.43 | 0.02 | 0.37 |
| Control Delay | 16.8 | 25.2 | 17.3 | 24.5 | 23.8 | 23.8 |
| Queue Delay | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 16.8 | 25.3 | 17.3 | 24.5 | 23.8 | 23.8 |
| Queue Length 50th (ft) | 58 | 342 | 9 | 92 | 6 | 151 |
| Queue Length 95th (ft) | 96 | 388 | 20 | 135 | 22 | 235 |
| Internal Link Dist (ft) | | 573 | | 2711 | | 1025 |
| Turn Bay Length (ft) | 175 | | | | 200 | |
| Base Capacity (vph) | 416 | 1688 | 159 | 742 | 856 | 1478 |
| Starvation Cap Reductn | 0 | 33 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.30 | 0.68 | 0.14 | 0.29 | 0.02 | 0.37 |
| Intersection Summary | | | | | | |

Synchro 9 Report Page 1 Baseline

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|-------------------------------|------------|------------|-------|-------|-------------|------------|---------|----------|-------------|-------------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ሻ | ∱ } | | ሻ | ĵ» | | ሻ | ħβ | | | | |
| Traffic Volume (vph) | 123 | 480 | 627 | 23 | 109 | 102 | 14 | 507 | 35 | 0 | 0 | 0 |
| Future Volume (vph) | 123 | 480 | 627 | 23 | 109 | 102 | 14 | 507 | 35 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.8 | 5.7 | | 5.8 | 5.8 | | 6.5 | 6.5 | | | | |
| Lane Util. Factor | 1.00 | 0.95 | | 1.00 | 1.00 | | 1.00 | 0.95 | | | | |
| Frt | 1.00 | 0.92 | | 1.00 | 0.93 | | 1.00 | 0.99 | | | | |
| Flt Protected | 0.95 | 1.00 | | 0.95 | 1.00 | | 0.95 | 1.00 | | | | |
| Satd. Flow (prot) | 1736 | 3125 | | 1719 | 1525 | | 1805 | 3112 | | | | |
| Flt Permitted | 0.49 | 1.00 | | 0.10 | 1.00 | | 0.95 | 1.00 | | | | |
| Satd. Flow (perm) | 897 | 3125 | | 185 | 1525 | | 1805 | 3112 | | | | |
| Peak-hour factor, PHF | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Adj. Flow (vph) | 126 | 490 | 640 | 23 | 111 | 104 | 14 | 517 | 36 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 240 | 0 | 0 | 36 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 126 | 890 | 0 | 23 | 179 | 0 | 14 | 550 | 0 | 0 | 0 | 0 |
| Heavy Vehicles (%) | 4% | 4% | 7% | 5% | 16% | 15% | 0% | 15% | 13% | 7% | 11% | 1% |
| Turn Type | pm+pt | NA | | pm+pt | NA | | Split | NA | | | | |
| Protected Phases | 3 | 8 | | 7 | 4 | | 2 | 2 | | | | |
| Permitted Phases | 8 | | | 4 | | | | | | | | |
| Actuated Green, G (s) | 51.4 | 43.2 | | 43.3 | 39.1 | | 54.6 | 54.6 | | | | |
| Effective Green, g (s) | 51.4 | 43.2 | | 43.3 | 39.1 | | 54.6 | 54.6 | | | | |
| Actuated g/C Ratio | 0.43 | 0.36 | | 0.36 | 0.33 | | 0.46 | 0.46 | | | | |
| Clearance Time (s) | 5.8 | 5.7 | | 5.8 | 5.8 | | 6.5 | 6.5 | | | | |
| Vehicle Extension (s) | 3.0 | 3.0 | | 3.0 | 3.0 | | 5.5 | 5.5 | | | | |
| Lane Grp Cap (vph) | 441 | 1125 | | 120 | 496 | | 821 | 1415 | | | | |
| v/s Ratio Prot | c0.02 | c0.28 | | 0.01 | 0.12 | | 0.01 | c0.18 | | | | |
| v/s Ratio Perm | 0.10 | | | 0.06 | | | | | | | | |
| v/c Ratio | 0.29 | 0.79 | | 0.19 | 0.36 | | 0.02 | 0.39 | | | | |
| Uniform Delay, d1 | 21.5 | 34.4 | | 28.3 | 30.9 | | 18.0 | 21.6 | | | | |
| Progression Factor | 0.80 | 0.91 | | 1.00 | 1.00 | | 1.00 | 1.00 | | | | |
| Incremental Delay, d2 | 0.3 | 3.4 | | 0.8 | 0.5 | | 0.0 | 8.0 | | | | |
| Delay (s) | 17.6 | 34.6 | | 29.1 | 31.4 | | 18.0 | 22.5 | | | | |
| Level of Service | В | С | | С | С | | В | С | | | | |
| Approach Delay (s) | | 32.9 | | | 31.1 | | | 22.3 | | | 0.0 | |
| Approach LOS | | С | | | С | | | С | | | Α | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 29.8 | H | CM 2000 | Level of S | Service | | С | | | |
| HCM 2000 Volume to Capa | city ratio | | 0.56 | | | | | | | | | |
| Actuated Cycle Length (s) | | | 120.0 | | um of lost | | | | 18.1 | | | |
| Intersection Capacity Utiliza | ition | | 68.6% | IC | CU Level of | of Service | | | С | | | |
| Analysis Period (min) | | | 15 | | | | | | | | | |
| c Critical Lane Group | | | | | | | | | | | | |

Baseline Synchro 9 Report Page 2

5: 09/12/2019

| | | • | (| -/ |
|-------------------------|------|------|------|------|
| | - | - | 4 | • |
| Lane Group | EBT | WBT | SWL | SWR |
| Lane Group Flow (vph) | 287 | 265 | 1050 | 339 |
| v/c Ratio | 0.44 | 0.40 | 0.54 | 0.32 |
| Control Delay | 32.2 | 27.9 | 17.2 | 2.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 32.2 | 27.9 | 17.2 | 2.1 |
| Queue Length 50th (ft) | 169 | 163 | 246 | 0 |
| Queue Length 95th (ft) | 250 | 236 | 303 | 40 |
| Internal Link Dist (ft) | 1702 | 573 | 588 | |
| Turn Bay Length (ft) | | | | |
| Base Capacity (vph) | 659 | 659 | 1959 | 1049 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.44 | 0.40 | 0.54 | 0.32 |
| Intersection Summary | | | | |
| intersection Summary | | | | |

Synchro 9 Report Page 3 Baseline

| | _# | → | ← | ٤ | 6 | ✓ | | | |
|-----------------------------------|-------|----------|----------|------|------------|---------------|-----|-----|--|
| Movement | EBL | EBT | WBT | WBR | SWL | SWR | | | |
| Lane Configurations | | ^ | • | | ሻሻ | 7 | | | |
| Traffic Volume (vph) | 0 | 264 | 244 | 0 | 966 | 312 | | | |
| Future Volume (vph) | 0 | 264 | 244 | 0 | 966 | 312 | | | |
| | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | | |
| Total Lost time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Lane Util. Factor | | 1.00 | 1.00 | | 0.97 | 1.00 | | | |
| Frt | | 1.00 | 1.00 | | 1.00 | 0.85 | | | |
| Flt Protected | | 1.00 | 1.00 | | 0.95 | 1.00 | | | |
| Satd. Flow (prot) | | 1863 | 1863 | | 3433 | 1583 | | | |
| Flt Permitted | | 1.00 | 1.00 | | 0.95 | 1.00 | | | |
| Satd. Flow (perm) | | 1863 | 1863 | | 3433 | 1583 | | | |
| 3 . | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | |
| Adj. Flow (vph) | 0 | 287 | 265 | 0 | 1050 | 339 | | | |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 145 | | | |
| Lane Group Flow (vph) | 0 | 287 | 265 | 0 | 1050 | 194 | | | |
| Turn Type | | NA | NA | | Prot | Perm | | | |
| Protected Phases | | 4 | 8 | | 2 | | | | |
| Permitted Phases | | | | | | 2 | | | |
| Actuated Green, G (s) | | 42.5 | 42.5 | | 68.5 | 68.5 | | | |
| Effective Green, g (s) | | 42.5 | 42.5 | | 68.5 | 68.5 | | | |
| Actuated g/C Ratio | | 0.35 | 0.35 | | 0.57 | 0.57 | | | |
| Clearance Time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Vehicle Extension (s) | | 3.0 | 3.0 | | 3.0 | 3.0 | | | |
| Lane Grp Cap (vph) | | 659 | 659 | | 1959 | 903 | | | |
| v/s Ratio Prot | | c0.15 | 0.14 | | c0.31 | | | | |
| v/s Ratio Perm | | | | | | 0.12 | | | |
| v/c Ratio | | 0.44 | 0.40 | | 0.54 | 0.21 | | | |
| Uniform Delay, d1 | | 29.6 | 29.2 | | 15.9 | 12.6 | | | |
| Progression Factor | | 1.00 | 0.88 | | 1.00 | 1.00 | | | |
| Incremental Delay, d2 | | 0.5 | 1.8 | | 1.1 | 0.5 | | | |
| Delay (s) | | 30.1 | 27.5 | | 17.0 | 13.1 | | | |
| Level of Service | | С | С | | В | В | | | |
| Approach Delay (s) | | 30.1 | 27.5 | | 16.0 | | | | |
| Approach LOS | | С | С | | В | | | | |
| Intersection Summary | | | | | | | | | |
| HCM 2000 Control Delay | | | 19.7 | H | CM 2000 | Level of Serv | ice | В | |
| HCM 2000 Volume to Capacity r | ratio | | 0.50 | | | | | | |
| Actuated Cycle Length (s) | | | 120.0 | Sı | um of lost | time (s) | | 9.0 | |
| Intersection Capacity Utilization | | | 49.0% | | | of Service | | А | |
| Analysis Period (min) | | | 15 | | | | | | |
| c Critical Lane Group | | | | | | | | | |

Baseline Synchro 9 Report Page 4

Sunday Worst-Case Scenario

| | • | - | • | • | | † |
|-------------------------|------|--------|------|------|------|----------|
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT |
| Lane Group Flow (vph) | 97 | 1835 | 23 | 517 | 28 | 1768 |
| v/c Ratio | 0.44 | 1.37dr | 0.16 | 0.95 | 0.03 | 1.26 |
| Control Delay | 22.5 | 156.8 | 20.1 | 63.0 | 19.9 | 151.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 22.5 | 156.8 | 20.1 | 63.0 | 19.9 | 151.5 |
| Queue Length 50th (ft) | 50 | ~882 | 9 | 350 | 12 | ~932 |
| Queue Length 95th (ft) | m63 | #1016 | 25 | #566 | 31 | #1073 |
| Internal Link Dist (ft) | | 573 | | 2711 | | 1025 |
| Turn Bay Length (ft) | 175 | | | | 200 | |
| Base Capacity (vph) | 221 | 1436 | 143 | 570 | 810 | 1408 |
| Starvation Cap Reductn | 0 | 14 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.44 | 1.29 | 0.16 | 0.91 | 0.03 | 1.26 |

Intersection Summary

- Volume exceeds capacity, queue is theoretically infinite.
 Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.
- m Volume for 95th percentile queue is metered by upstream signal.
- dr Defacto Right Lane. Recode with 1 though lane as a right lane.

Baseline Synchro 9 Report
Page 1

| | ۶ | → | • | • | — | • | 1 | † | <i>></i> | / | + | ✓ |
|-------------------------------|-----------------|-------------|------------|--------------|----------|------------|---------|------------|-------------|----------|----------|------|
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | * | ∱ } | | ¥ | ĵ» | | ¥ | ♦ ₽ | | | | |
| Traffic Volume (vph) | 95 | 700 | 1099 | 23 | 154 | 353 | 27 | 1706 | 26 | 0 | 0 | 0 |
| Future Volume (vph) | 95 | 700 | 1099 | 23 | 154 | 353 | 27 | 1706 | 26 | 0 | 0 | 0 |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) | 5.8 | 5.7 | | 5.8 | 5.8 | | 6.5 | 6.5 | | | | |
| Lane Util. Factor | 1.00 | 0.95 | | 1.00 | 1.00 | | 1.00 | 0.95 | | | | |
| Frt | 1.00 | 0.91 | | 1.00 | 0.90 | | 1.00 | 1.00 | | | | |
| Flt Protected | 0.95 | 1.00 | | 0.95 | 1.00 | | 0.95 | 1.00 | | | | |
| Satd. Flow (prot) | 1736 | 3098 | | 1719 | 1476 | | 1805 | 3133 | | | | |
| Flt Permitted | 0.20 | 1.00 | | 0.09 | 1.00 | | 0.95 | 1.00 | | | | |
| Satd. Flow (perm) | 358 | 3098 | | 164 | 1476 | | 1805 | 3133 | | | | |
| Peak-hour factor, PHF | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Adj. Flow (vph) | 97 | 714 | 1121 | 23 | 157 | 360 | 28 | 1741 | 27 | 0 | 0 | 0 |
| RTOR Reduction (vph) | 0 | 229 | 0 | 0 | 29 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Lane Group Flow (vph) | 97 | 1606 | 0 | 23 | 488 | 0 | 28 | 1767 | 0 | 0 | 0 | 0 |
| Heavy Vehicles (%) | 4% | 4% | 7% | 5% | 16% | 15% | 0% | 15% | 13% | 7% | 11% | 1% |
| Turn Type | pm+pt | NA | | pm+pt | NA | | Split | NA | | | | |
| Protected Phases | 3 | 8 | | 7 | 4 | | 2 | 2 | | | | |
| Permitted Phases | 8 | | | 4 | | | | | | | | |
| Actuated Green, G (s) | 53.0 | 46.8 | | 47.7 | 44.1 | | 51.6 | 51.6 | | | | |
| Effective Green, g (s) | 53.0 | 46.8 | | 47.7 | 44.1 | | 51.6 | 51.6 | | | | |
| Actuated g/C Ratio | 0.44 | 0.39 | | 0.40 | 0.37 | | 0.43 | 0.43 | | | | |
| Clearance Time (s) | 5.8 | 5.7 | | 5.8 | 5.8 | | 6.5 | 6.5 | | | | |
| Vehicle Extension (s) | 3.0 | 3.0 | | 3.0 | 3.0 | | 5.5 | 5.5 | | | | |
| Lane Grp Cap (vph) | 229 | 1208 | | 111 | 542 | | 776 | 1347 | | | | |
| v/s Ratio Prot | c0.02 | c0.52 | | 0.01 | 0.33 | | 0.02 | c0.56 | | | | |
| v/s Ratio Perm | 0.16 | | | 0.08 | | | | | | | | |
| v/c Ratio | 0.42 | 1.37dr | | 0.21 | 0.90 | | 0.04 | 1.31 | | | | |
| Uniform Delay, d1 | 23.3 | 36.6 | | 28.9 | 35.9 | | 19.8 | 34.2 | | | | |
| Progression Factor | 0.96 | 1.09 | | 1.00 | 1.00 | | 1.00 | 1.00 | | | | |
| Incremental Delay, d2 | 0.8 | 152.1 | | 0.9 | 18.0 | | 0.1 | 145.7 | | | | |
| Delay (s) | 23.3 | 192.1 | | 29.8 | 53.8 | | 19.9 | 179.9 | | | | |
| Level of Service | С | F | | С | D | | В | F | | | | |
| Approach Delay (s) | | 183.6 | | | 52.8 | | | 177.4 | | | 0.0 | |
| Approach LOS | | F | | | D | | | F | | | Α | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 2000 Control Delay | | | 164.4 | Н | CM 2000 | Level of S | Service | | F | | | |
| HCM 2000 Volume to Capa | 1.30 | | | | | | | | | | | |
| Actuated Cycle Length (s) | 120.0 122.7% | | um of lost | | | | 18.1 | | | | | |
| Intersection Capacity Utiliza | IC | CU Level of | of Service | | | Н | | | | | | |
| Analysis Period (min) | 15 | | | | | | | | | | | |
| dr Defacto Right Lane. R | ecode with | 1 though | lane as a | a right land | Э. | | | | | | | |

c Critical Lane Group

Synchro 9 Report Page 2 Baseline

| | → | ← | 6 | ✓ |
|-------------------------|----------|----------|------|------|
| Lane Group | EBT | WBT | SWL | SWR |
| Lane Group Flow (vph) | 296 | 190 | 1763 | 96 |
| v/c Ratio | 0.61 | 0.39 | 0.78 | 0.09 |
| Control Delay | 44.9 | 22.4 | 17.1 | 1.6 |
| Queue Delay | 70.5 | 0.0 | 1.6 | 0.0 |
| Total Delay | 115.5 | 22.4 | 18.7 | 1.6 |
| Queue Length 50th (ft) | 202 | 54 | 448 | 0 |
| Queue Length 95th (ft) | 297 | m81 | 543 | 18 |
| Internal Link Dist (ft) | 1702 | 573 | 587 | |
| Turn Bay Length (ft) | | | | |
| Base Capacity (vph) | 489 | 489 | 2274 | 1081 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 353 | 0 | 318 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 2.18 | 0.39 | 0.90 | 0.09 |
| Intersection Summary | | | | |

m Volume for 95th percentile queue is metered by upstream signal.

Synchro 9 Report Page 3 Baseline

| | _# | - | • | ٤ | 6 | 4 | | | |
|-----------------------------------|-------|----------|----------|------|-----------|------------------|---|-----|--|
| Movement | EBL | EBT | WBT | WBR | SWL | SWR | | | |
| Lane Configurations | | * | * | | ሻሻ | 7 | | | |
| Traffic Volume (vph) | 0 | 272 | 175 | 0 | 1622 | 88 | | | |
| Future Volume (vph) | 0 | 272 | 175 | 0 | 1622 | 88 | | | |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | | | |
| Total Lost time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Lane Util. Factor | | 1.00 | 1.00 | | 0.97 | 1.00 | | | |
| Frt | | 1.00 | 1.00 | | 1.00 | 0.85 | | | |
| Flt Protected | | 1.00 | 1.00 | | 0.95 | 1.00 | | | |
| Satd. Flow (prot) | | 1863 | 1863 | | 3433 | 1583 | | | |
| Flt Permitted | | 1.00 | 1.00 | | 0.95 | 1.00 | | | |
| Satd. Flow (perm) | | 1863 | 1863 | | 3433 | 1583 | | | |
| Peak-hour factor, PHF | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | | | |
| Adj. Flow (vph) | 0 | 296 | 190 | 0 | 1763 | 96 | | | |
| RTOR Reduction (vph) | 0 | 0 | 0 | 0 | 0 | 32 | | | |
| Lane Group Flow (vph) | 0 | 296 | 190 | 0 | 1763 | 64 | | | |
| Turn Type | | NA | NA | | Prot | Perm | | | |
| Protected Phases | | 4 | 8 | | 2 | | | | |
| Permitted Phases | | | | | | 2 | | | |
| Actuated Green, G (s) | | 31.5 | 31.5 | | 79.5 | 79.5 | | | |
| Effective Green, g (s) | | 31.5 | 31.5 | | 79.5 | 79.5 | | | |
| Actuated g/C Ratio | | 0.26 | 0.26 | | 0.66 | 0.66 | | | |
| Clearance Time (s) | | 4.5 | 4.5 | | 4.5 | 4.5 | | | |
| Vehicle Extension (s) | | 3.0 | 3.0 | | 3.0 | 3.0 | | | |
| Lane Grp Cap (vph) | | 489 | 489 | | 2274 | 1048 | | | |
| v/s Ratio Prot | | c0.16 | 0.10 | | c0.51 | | | | |
| v/s Ratio Perm | | | | | | 0.04 | | | |
| v/c Ratio | | 0.61 | 0.39 | | 0.78 | 0.06 | | | |
| Uniform Delay, d1 | | 38.8 | 36.3 | | 14.1 | 7.1 | | | |
| Progression Factor | | 1.00 | 0.57 | | 1.00 | 1.00 | | | |
| Incremental Delay, d2 | | 2.1 | 1.5 | | 2.7 | 0.1 | | | |
| Delay (s) | | 40.9 | 22.1 | | 16.7 | 7.2 | | | |
| Level of Service | | D | С | | В | А | | | |
| Approach Delay (s) | | 40.9 | 22.1 | | 16.2 | | | | |
| Approach LOS | | D | С | | В | | | | |
| Intersection Summary | | | | | | | | | |
| HCM 2000 Control Delay | | | 19.8 | Н | CM 2000 | Level of Service | e | В | |
| HCM 2000 Volume to Capacity | ratio | | 0.73 | | | | | | |
| Actuated Cycle Length (s) | | | 120.0 | S | um of los | t time (s) | | 9.0 | |
| Intersection Capacity Utilization | | | 68.1% | | | of Service | | С | |
| Analysis Period (min) | | | 15 | | | | | | |

c Critical Lane Group

Synchro 9 Report Page 4 Baseline

APPENDIX I

Transportation Options:
Public Outreach Data



Sign-in sheet

Route 301 Corridor Study - Town of Port Royal Community Meeting Caroline County

Wednesday, August 28, 2019 Fredericksburg District

| | of Net | | | | Š | | | Мо | | |
|---------------|---------------------------------------|--|------------------|-----------------|-----------------------------------|--------------------|---------------|---------------------------------|-------------------------------------|-----------------------|
| Email Address | 85T B. G. FRENSIGM & COM CAST DET NOT | cookie j F de gmail. com | ALONG @ GOIM-NET | SBFØS@aol, con | e River Ware Lueak RJ@ Jahous Com | | | townof Burroyal 1744 Comail, am | eheimbach@402.com 5HB 3HEIMBACH COM | TIPPA C CHOUNE M. US |
| Affiliation | PORT ROYAL TRAISING POST | WST. Potex's Church PHISTOTIC POT ROYAL | Jour Port Royal | n n | Rundolphs on the River | 25710 AP Hill Blud | 808/32 Freya | Town Clerk | 913 Water St. | SHERIFF OF CHROUNE |
| Name | 1306 Green | , r | | 4 Sharon Farmer | 5 Bruce Lee | 6 Magnet Rybug | - garan Maria | 8 Terri Harnson | 9 Jima Elizabeth Heimbach | 10 TONY LIPPA |



Sign-in Sheet Route 301 Corridor Study - Town of Port Royal Community Meeting Caroline County

| | Wednesday, August 28, 2019 | st 28, 2019 Fredericksburg District |
|---|----------------------------|-------------------------------------|
| Name | Affiliation | Email Address |
| 1 Cerrolly Davis | Historic Pathoyal | costiej fd @ gmail , com |
| 2 Winne Book | LAM Cherran | ChETZU in Bookean (A) Gray, i. Com |
| 3 Device Ladam | 1 ordann | WARRECREEK Rd @ CAA hoo. COM |
| 4 Phys. D. Carpenter Landowner / plasning wegrender @ msn.com | Lantennes/planning | wearpender @ msn.com |
| 5 Donna Wilkerson | tour Council | duproblagmail.com |
| e CL Flora | Bus ownth | WA 710RA 01 @ 404.00m |
| 7 BERN MAHON | property owner | bern, mahen erdymondjames. co |
| 8 Mark McCaskiu | mccuskill@gwregion.ors | FAMES/GURC |
| 9 TATIVIS QUESENDEM | to bikes @ adlicy | Part Raya |
| 10 Jane V. Robinson | Land auren | tobins-prva@phoo.com |



Sign-in sheet

Route 301 Corridor Study - Town of Port Royal Community Meeting
Caroline County

Wednesday, August 28, 2019

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| Name | Affiliation | Email Address |
|--------------------|------------------------|----------------------------------|
| 1 David Carpenter | gert Hoyal Resident | W Carpenterii @msn.com |
| 2 Kerri Bellon | Historic Porthoyal | Commence of the second |
| 3 Reb Rebinson | Laur ownor | robins - pural hotmail. com |
| 4 Tandla Lockeen | Dune | |
| 5 Holly [an] lok | | |
| 6 WILLAM H-BOKER | DUNCEL HOUSE | 13,11 Boskeremmen com |
| 7 Tarmy B. Goldman | Land Owner | |
| 8 Linda Millsaps | GWRC | Millsaps@qwreqion.og |
| 9 ChrisMuja | Resident | |
| 10 Linda LaSut | VDOT-FIDNE | linda, Bashtavdot. vinginia. gor |
| | | |



Sign-in sheet

Fredericksburg District Route 301 Corridor Study - Town of Port Royal Community Meeting
Caroline County Email Address Wednesday, August 28, 2019

| Name | Affliation | Email Address |
|--------------------|----------------|--------------------------------------|
| dows wew golf mag. | 24 Ni gons | JUNK CANSH BLACK-COM |
| 2 Tim Lexkler | Live in PR | |
| 3 llancy Long | Live w PB | Lorg Thomas as 1.00 m |
| 4 Denller Polte | ~ | Town cours! O'Train 6209106-101 |
| 5 Bonnia Canus | Historic Portr | Historic Port Ruya / Museum Concerus |
| 6 M. M. ttt | Land Owner | Igouldman a y mail.com |
| Marcie Purtic | | |
| 8 state Hannon | | |
| 3 | | |
| 10 Peter Franke | | |
| | | |



Route 301 - Port Royal Arterial **Management Study Comment Form**

Please consider the options shown below for proposed changes to the intersection of Route 301 and Route 17 and thru town. You may use the space provided to share any impressions, concerns, and suggestions. Each option has the ability to advance into more detailed planning to be refined and pursue construction funding. Thank you for sharing your thoughts and suggestions!

Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



Participant Information & Comm Your Business or Neighborhood: Ways you travel/use the corridor: Your Name: Your Email or phone: Wish to stay involved (check all that apply) Willing to participate in steering committee Want to be informed of planning meetings Will track progress through website and public media Dislike Like No Preference Why/Why not: Like Dislike No Preference Why/Why not:

| 84.5 | | |
|---------|---------|-----------------|
| | | |
| | | |
| | | |
| Like | Dislike | ☐ No Preference |
| Why/Why | not: | |
| | · | |



Market Street Extended



Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| Participar Like | nt Comment Dislike | S No Pref | ference |
|------------------|---------------------|-----------|---------|
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| anyt | hing | | |
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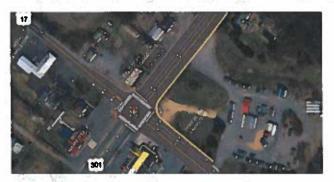
| Like | Dislike | ☐ No Preference |
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| Why/Why n | ot: | |



Route 301 – Port Royal Arterial Management Study Comment Form

Please consider the options shown below for proposed changes to the intersection of Route 301 and Route 17 and thru town. You may use the space provided to share any impressions, concerns, and suggestions. Each option has the ability to advance into more detailed planning to be refined and pursue construction funding. Thank you for sharing your thoughts and suggestions!

Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| Coundy (| low Syn | art sal | e |
|--|---|---|------------------------------|
| Participar | | on & Comm | |
| Ways you tra | avel/use the co | rridor: | |
| Your Name: | 100 | e la land | |
| Your Email o | r phone: | | |
| Willin Wan Will | ng to participat t to be informe track progress t ic media | tk all that apply) te in steering co th of planning m through website | mmittee neetings e and |
| Kasta | want, A | orts busined a steel | VAS |
| | | ☐ No Prefe | |
| COSIN | ess. Tour | a relies | rom on |
| Acceptance of the Control of the Con | | | |





Market Street Extended



| Participant | Comments |
|--------------------|------------|
| | 5 7 |

| Like | Pislike | ☐ No Preference |
|------------|-----------|-----------------|
| Why/Why no | t: 5 alos | |

| Route | 301 | through | Town |
|-------|-----|----------|--------|
| NOULC | JOI | UIIOUKII | I OTTI |

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Like Dislike No Preference

Why/Why not: Why lest stuck in

It gatron very invasive

Negative impact to existing bisinesse.

Negative inpact to water from thomat bisiness and It is to pack Resources (identifical unidentifical archaeology)

Like Dislike No Preference

Why/Why not: First Choice. Least invasive; however impult to historic resources (NRHP-listed) needs to be minimized.

| Like | Dislike | No Preference |
|-----------|---------|---------------|
| Why/Why n | ot: | |

But limits where torns are permitted

Additional comments you wish to share:

Speed inforcement via troad side camera, digital.

Speed radar on North + South Bound, Be autiliant and and to environment change + inconchouse speed reduction



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



Participant Information & Comments Your Business or Neighborhood: Ways you travel/use the corridor: Your Name: Your Email or phone: Wish to stay involved (check all that apply) Willing to participate in steering committee Want to be informed of planning meetings Will track progress through website and public media Llike Dislike No Preference Why/Why not: Like Dislike No Preference Why/Why not: No Preference

Why/Why not:



Market Street Extended



Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| Participa | nt Comment | S | |
|--------------------|-----------------|---------------------|--|
| Like | Dislike | ☐ No Preference | |
| Why/Why n | ot: | | |
| Accompl | lishes Lin | 418 | |
| Like | ☐ Dislike | ☐ No Preference | |
| Why/Why not: | | | |
| to af. Also Fid | 301 Sou | | |
| AND | cheapest | Solution | |
| Like | Qislike | ☐ No Preference | |
| Why/Why n | ot: | | |
| do | es Liftle Vo | to Aldress Cumes | |
| Like | Dislike | ☐ No Preference | |
| Why/Why r | ot: | | |
| | | | |



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| • | nt Informations or Neighborh | on & Comments ood: |
|-----------------------------|--|--|
| Ways you tr | avel/use the co | rridor: |
| Your Name: | | |
| Your Email | or phone: | Standard Standard |
| Willi War Will pub | nt to be informed track progress t lic media | e in steering committe d of planning meetings hrough website and |
| Like | Dislike Dislike | ☐ No Preference |
| Why/Why r | be plan | |
| drivew | not: Comes i | ool. Very ok into a road |
| | | |



Market Street Extended



Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

Participant Comments

Like Dislike No Preference
Why/Why not: boes not allow
right turk

Why/Why not: d: verts traffic out of town, esp. tractor trailors

Like Dislike D No Preference
Why/Why not: too bangerous



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



Participant Information & Comments Your Business or Neighborhood: Ways you travel/use the corridor: Your Name: Your Email or phone: Wish to stay involved (check all that apply) Willing to participate in steering committee Want to be informed of planning meetings Will track progress through website and public media Dislike No Preference Why/Why not: Willhelp w/ traffic backups Dislike D No Preference _ Like Why/Why not: Confusing to drivers Dislike No Preference Why/Why not:

Too expensive





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

Participant Comments

☐ Like ☐ Dislike ☐ No Preference
Why/Why not:

☐ Like ☐ Dislike ☐ No Preference

Why/Why not:

☐ Like ☐ Dislike ☐ No Preference

Why/Why not:

Like Dislike No Preference

Why/Why not:



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| | ss or Neighborh | water and the second se |
|----------------------|--|--|
| Ways you tr | avel/use the co | ridor: |
| Your Name: | | |
| Your Email o | or phone: | |
| Willi Wan Will | t to be informed track progress t ic media | k all that apply) e in steering committee d of planning meetings hrough website and No Preference |
| Why/Why n | ot: ET Does Bussins: | nt Hwrt Commer vaox |
| Like | ☐ Dislike | ☐ No Preference |
| Why/Why n | ot: | |
| Like Why/Why r | Dislike | No Preference |





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| Participan | t Comments | 5 | |
|------------|------------|----------|----------|
| Like | Dislike | No Pre | eference |
| Why/Why no | t: | | |
| | | | |
| | | | |
| | | - | |
| Like | Dislike | □ No Pre | eference |
| Why/Why no | | | |
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| | | | |
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| m | <u></u> | | |
| Like | Dislike | | |
| Why/Why no | t: Helps | LOCAL | Bussines |
| | | | |
| | | | |
| Like | Dislike | □ No Pre | eference |
| Why/Why no | t: Holas | LOCAL | Bussines |



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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| • | | on & Comments ood: Coreoline Co | a |
|--|---|---|----------|
| Ways you tra Your Name: Your Email of You Wish to stay Willin | or phone: dezu - H35-9610 involved (checking to participate t to be informed | rridor: 17 TO 30) H Booker, Jrc Wid Booker (Dqmm) k all that apply) e in steering committe d of planning meetings | i |
| | track progress tl ic media | hrough website and | |
| Like | Dislike | ☐ No Preference | |
| Why/Why n | ot: Lemest, | c) (sturesponent, Expensive | |
| ⊠ Like | Dislike | ☐ No Preference | |
| Why/Why n | | O The reason from | |
| | | | |
| Like Why/Why n | Dislike | No Preference | |





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

Participant Comments

Like Dislike No Preference

WHTY/Why not:
Frayzmuria o passinae

| Like | Dislike | ☐ No Preference |
|-----------|-------------|-----------------|
| Why/Why r | , | |
| ì | - Aremung c | PERENTIN |

| Like | Dislike | No Preference |
|-----------|---------|---------------|
| Why/Why n | ot: | |

| Like | ☐ Dislike | No Preference |
|------------|-----------|---------------|
| Why/Why no | t: | |



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| • | | ood: Neigh borhood |
|---|---|--|
| | | 2016-01 |
| Your Name: | Tammy E | 3. Gowanium |
| Your Email o | r phone: 804 | rridor: B. Gowldman t-761-2465 |
| Wish to stay Willin Wan Will t | involved (check ng to participate t to be informe | k all that apply) e in steering committee d of planning meetings hrough website and No Preference |
| | | No Preference |
| Why/Why n | | |
| Like | ☑ Dislike | ☐ No Preference |
| Why/Why n | ot: | |
| | | |
| | / | |
| Like | Dislike | No Preference |
| Why/Why n | ot: | |
| | | |





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| Like Why/Why n | Dislike ot: | No Preference |
|----------------|------------------|-----------------|
| Like Why/Why n | Dislike | ☐ No Preference |
| Like Why/Why n | ☐ Dislike ot: | ☐ No Preference |
| Like | ☐ Dislike | ☐ No Preference |

Why/Why not:



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| Participant | Information & | Comments |
|-----------------|------------------|------------------|
| Your Business o | or Neighborhood: | Corner of 301+1; |

Ways you travel/use the corridor: Live here

Your Name: James E. Govidmen III

Your Email or phone: 804-761-2466

Wish to stay involved (check all that apply)

Willing to participate in steering committee
Want to be informed of planning meetings
Will track progress through website and
public media

Like

Dislike

No Preference

Why/Why not:

Like

☐ Dislike

No Preference

Why/Why not:

مانا [

☐ Dislike

No Preference

Why/Why not:





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| Participant Comments Like Dislike No Preference | | | |
|--|-----------|-----------------|--|
| Like | ☐ Dislike | ☐ No Preference | |
| Why/Why no | ot: | | |
| Why | not | | |

Dislike Do No Preference

| Why/Why not: | |
|------------------|--------|
| It will directly | effect |
| my home my | |
| and my Life | |

Like

| Like | Dislike | No Preference |
|------------|---------|---------------|
| Why/Why no | t: | |

| Like | Dislike | ☐ No Preference |
|-----------|---------|-----------------|
| Why/Why r | not: | |
| M | ote Mai | ntaince |



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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



Participant Information & Comments Your Business or Neighborhood: Ways you travel/use the corridor: Your Name: Lauren Gouldman Your Email or phone: (804) 994-8127 Wish to stay involved (check all that apply) Willing to participate in steering committee Want to be informed of planning meetings Will track progress through website and public media ☐ Dislike Why/Why not: Dislike _ Like Why/Why not:

| Like | Dislike | No Preference |
|-----------|---------|---------------|
| Why/Why r | ot: | |
| | | |





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

Participant Comments

Like Dislike No Preference
Why/Why not:

Like Dislike D No Preference
Why/Why not:

Like Dislike No Preference
Why/Why not:

Like Dislike Do No Preference
Why/Why not:



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| Participar Your Busines | nt Informations or Neighborh | on & Comments | / |
|-------------------------------------|--|---|----|
| Ways you tra | Jin Hein | on & Comments ood: Port Roya rridor: Comments | |
| Your Email o | r phone: JHO | G THEI MBACH | - |
| Wish to stay Willin Want Will to | involved (checl ng to participate t to be informed | k all that apply) e in steering committe d of planning meeting hrough website and | ee |
| Like | Dislike | ☐ No Preference | |
| Why/Why n | ot: | | |
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| Like | Dislike | ☐ No Preference | |
| Why/Why n | ot: | | |
| | | | |
| | | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | |
| Like Why/Why n | Dislike ot: | ☐ No Preference | 4 |





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| Participa Like Why/Why | | No Preference |
|------------------------|---------|-----------------|
| | | |
| Like | Dislike | ☐ No Preference |

Why/Why not:

| Like | Dislike | ☐ No Preference |
|-----------|---------|-----------------|
| Why/Why n | ot: | |



case return to Linua Labut, YDO1, by Sept 11, 2013

email: linda.lasut@vdot.virginia.gov

Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17

Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| Your Business or Neighborhood: Co-owner of landeres Port Royal Landowner - Farmer Ways you travel/use the corridor: |
|---|
| Ways you travel/use the corridor: |
| Koute 361 + R+ 17 |
| CiB. Hollow HT |
| Your Email or phone: 307-382-895/ |
| Wish to stay involved (check all that apply) |
| Wish to stay involved (check all that apply), Willing to participate in steering committee |
| ➤ Want to be informed of planning meetings |
| □ Will track progress through website and |
| public media |
| Like Dislike No Preference |
| Why/Why not: Any time you improve |
| n existing an intersection traffic flows |
| etter and Safer. This plan would |
| ost less, it is safer and is best possible |
| odution. |
| Like Dislike No Preference |
| Why/Why not: |
| This plan slows traffic |
| and stops traffic with 2 |
| additional Traffic lights |
| If suct does not work and |
| 15 ungate because the improvement |
| If sust does not work and Is unsafe because of Backup- on Rt. 301, Cost more than improvement at existing intersection plan. |
| |
| Like Dislike No Preference |
| Why/Why not: |
| This plan is too complex |
| with stopped Trafic with 2 addition |
| Traffic lights. |
| May cause Back up on 1x+501 |
| May cause Back up on R+301 which would be un safe. |
| Cost More than improvement |
| at existing intersection pear. |
| |

Participant Information & Comments





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional Comments you wish to share:

Participant Comments

☐ Dislike ■ No Preference Why/Why not: This Plan would work andwould take some of the congestion away from the cross Roads and could be used if in an emerging if 3 of was blocked by an accident.

> Like Dislike No Preference

Why/Why not: This the most costly and it takes in the most Private hand This plan should not be part of VDOT Study Plan. This plan would hurt the most people and seperate crop and farm land. County and Town would Have to apply for funding with High cost. ☐ Dislike ■ No Preference

(Why/Why not: The Double 1est fur a house is the most needed. This would Solver noblem area the quickest. Also this is the Low cost sol

This would qualify for VOOTS marts cale funding this is a serie way projecting Like Dislike Do No Preference

Why/Why not: This plan Also would qualify for VDOT smart scale funding. This is a Low sost solution and would solve the problem and the pest for safety

For future plans or For Right now, you did not consider using the South Side of 301. There is a large tract of Federal Landowned by U.S. Fish and Wildlife Service This is a vacant field that could connect from the Port Royal Bridge down Please return to Linda LaSut, VDOT, by Sept 11, 2019

water Street to this existing field and Connected to Route 17 south of forthor similar to the proposed Market Streetextended plan. But the road extention would star sooner. Ear Citure now Restourse Sooner, For future needs this road could go through A.P. Hill Land behind thornes Redourant and be the the main North Bound hand of 301 whenter Traffic exceeds the Limits. Going through 2 Trads & Frederal Landwould Not infere with Private Land and reduce County Cot.



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



Participant Information & Comments Your Business or Neighborhood: Ways you travel/use the corridor:

Your Name: Tim Lockleek

Your Email or phone:

Wish to stay involved (check all that apply)

Willing to participate in steering committee

Want to be informed of planning meetings

Will track progress through website and
public media

| Like | C media Dislike | ☐ No Prefere | ence |
|-------|------------------|---------------------------|------|
| | | | |
| - Dos | stou le | est effected the property | 4 |
| 100 | 1 Priva | te prop | et |
| | | | |
| Like | Dislike | No Prefere | ence |
| | | | |

| 1 | |
|-------------------------|--------------|
| Why/Why not: | 11 |
| -Aganst | new cut |
| - Agenst through "to | King private |
| property | J 1 |

| Like | Dislike | □ No I | Preference |
|------|---------|--------|------------|
| Pro | perty | | |

Why/Why not:

- Do not wat Cut

trough, Increased

traffic in Town

Residential Asa





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| Like | Dislike Dislike | ■ No Preference |
|----------------|------------------------------------|--|
| to C | het St. | Extended due rough/Increased Residential Area No Preference |
| - Pont | wort culture wort Dislike | to lose lands hance of clapant No Preference |
| Like Why/Why n | ☐ Dislike ot: | ☐ No Preference |

Participant Comments

- Do not see new for sidewalks along
301 (will just take more private property)
- No one way streets in town
- would like lower snew 1. Is shall it

Locklerr Po Box 22 Rappahannock Academy, VA 22538



Stephen Haynes VDOT Fredericksburg District Planning Manager 87 Opacon Rd

22405\$2503 CO17 Fredericks burg, VA 22405



Route 301 – Port Royal Arterial Management Study Comment Form

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Intersection of Route 301 and Route 17 Improvements to Existing Intersection



Quadrant Intersection



Quadrant Intersection with Market Street Extension



| Participant Information & Comments | | |
|--|--|--|
| Your Business or Neighborhood 251/0 A | | |
| Ways you travel/use the corridor: Your Name: Ways aret Meberg | | |
| Your Email or phone: 340 - 4500 | | |
| Wish to stay involved (check all that apply) | | |
| Willing to participate in steering committee Want to be informed of planning meetings | | |
| Will track progress through website and public media | | |
| ☐ Like ☐ Dislike ☐ No Preference | | |
| Why/Why not: | | |
| It would keep. The | | |
| It would keep. We trefie does as it please | | |
| Like Dislike D No Preference | | |
| Why/Why not: | | |
| Not a good ideal, crossing Dis way. | | |
| | | |
| ☐ Like ☐ Dislike ☐ No Preference | | |
| Why/Why not: | | |
| Don't thisk you all | | |
| Should new with, | | |
| The historic tous | | |





Route 301 through Town

One-Way Pair "Couplet"



Two-Way Left-Turn Lane



Full Raised Median



Additional comments you wish to share:

| | nt Comment | No Preference |
|-----------------------|------------|-----------------|
| Why/Why no Leave town | ot: as is | touie |
| Why/Why n | | □ No Preference |
| | - | |

| Like | Dislike | ☐ No Preference |
|---------|---------|-----------------|
| Why/Why | not: | 1 |
| 1-1 | 1101:00 | |

| Like | Dislike | No Preference | | |
|-----------|---------|---------------|--|--|
| Why/Why r | not: | | | |
| | lights | to ciso | | |
| to su | a to go | et office. | | |

Much ditches on 30 cleaned so work will flow & not feil up & get on main wood. also gravel show division meets blacktop.

Town Council

Town of Port Royal, VIRGINIA

RESOLUTION

MEMBERS: VOTE:

At a regular meeting of the Town of Port Royal Town Council (Town Council) held in the Port Royal Town Hall, 419 King Street, Port Royal, VA, on this the 10th day of September 2019

| Alex Long, Mayor | Yes |
|---------------------------|-----|
| Sharon Farmer, Vice Mayor | Ves |
| Bill Henderson | Yes |

VOTE

Bill Henderson

Gladys Fortune

J.P. Wilkerson

Jeff Isaac

Donna Wilkerson

Yes

Yes

Yes

| On motion of Jeff | Isaacs | , seconded by , | Bill | Hendenz | _which carried by |
|----------------------|--------------|-------------------|------|---------|-------------------|
| a vote of <u>\@/</u> | , the follow | ving was adopted: | | | |

A RESOLUTION to adopt and communicate to the Virginia Department of Transportation (VDOT) the attached document "Comments to VDOT Route 301 – Port Royal Arterial Management Study"; and

WHEREAS, the study "US 301 / Route 207 Arterial Preservation Plan, King George & Caroline Counties; June 15, 2018; Prepared for: Virginia Department of Transportation; Prepared by: Michael Baker International" presents compelling facts and analysis as to the Route 301 corridor becoming an 'Eastern Bypass' for I-95, north/south traffic; coupled with higher traffic volumes and impacts of an enlarged and modern Route 301 bridge over the Potomac River; and

WHEREAS, VDOT has presented materials and information featuring various scenarios of changes to Routes 301 (Main Street) and 17 in terms of (i) through traffic; and (ii) intersection improvements; and

WHEREAS, the Port Royal Town Council and Port Royal Planning Commission have studied the VDOT proposals, and other concepts; and have taken under consideration comments and

testimony of citizens of Port Royal and the surrounding area, and other stakeholders; and

WHEREAS, Route 301 is "Main Street" for its entire length in the Town of Port Royal, and

as such functions as much a means of local travel and commerce as an arterial for through traffic;

and

WHEREAS, negative impacts from solutions proposed by VDOT are overwhelmingly

deleterious to this community as well as the through traffic of local, regional, state, and interstate

origins/destinations; and

WHEREAS, to promote the health, safety, and general welfare of the Town of Port Royal

and related stakeholders to this corridor study; and

NOW, THEREFORE, BE IT RESOLVED by the Town Council of the Town of Port Royal on

this the 10th day of September, 2019, that the attached document, "Comments to VDOT Route

301 – Port Royal Arterial Management Study" is hereby adopted as a general guide and basis to

move forward in collaboration and cooperation with VDOT; and to be communicated to VDOT

and entered into the formal VDOT record as an official comment from the Town of Port Royal to

the VDOT "Route 301 – Port Royal Arterial Management Study".

ATTEST

M. Therese Harrison, Town Clerk,

Town of Port Royal, Virginia



GOALS

VDOT

Perceived goals of Virginia Department of Transportation (VDOT) are the safe and efficient movement of traffic at reasonable cost. Maintaining integrity of a network of arterial highways is a necessity to achieve efficiency and safety of traffic movements.

TOWN of PORT ROYAL

Safety is critical: reasonable access and movement (including left turns) of local vehicular, pedestrian and bicycle traffic is a major goal of the Town of Port Royal (Town). Equally important is the goal of *Main Street* (Town name for Route 301) which functions in its historical role as a gathering area for various public purposes such as post office, museums, historical context for structures and events, and commerce. Ability to perform traffic movements such as left turns is essential. Respecting the historic resources of the Town is essential.

COLLALBORATION/COOPERATION

Recognizing shared interests between the parties is the first step to generate mutual benefits and arrive at a common solution. Differences must be resolved through the hard work of arriving at new concepts, built using portions of the VDOT study of the Rt. 301 corridor in a framework of mutual respect. Caroline County will also be a major stakeholder in creating functioning solutions.

SUMMARY

NEED AND IMPETUS

• Traffic volumes will increase as a result of the new Rt. 301 bridge over the Potomac River; from two lanes to four lanes with shoulders;

- Traffic volumes will increase as a result of traffic seeking a north/south alternative to Interstate 95 and promotion of the Route 301 corridor as an 'Eastern Bypass' for Washington, D.C.;
- Traffic volumes will increase as a result of organic growth of the background traffic volumes;
- Tables of anticipated traffic flows, follow; table data from US 301 / Route 207
 Arterial Preservation Plan King George & Caroline Counties; June 15, 2018;
 Prepared by: Michael Baker International.

<u>Travel volume across the bridge is expected to more than double from 2006 levels.</u>

| Average Summer Weekend Day Daily Traffic Volumes at the Nice Bridge | | | | | | |
|---|------------------------------|--|---------------|------------------------------|------------------------------|---------------|
| | 2006 (June through August) | | | <u>2030</u> | | |
| <u>Day</u> | <u>North</u> <u>bound</u> | Committee of the commit | <u>Total</u> | <u>Northbo</u> <u>und</u> | <u>Southbo</u> <u>und</u> | Total |
| <u>Satur</u> <u>day</u> | <u>10,024</u> | <u>10,776</u> | <u>20,800</u> | <u>20,528</u> | <u>22,072</u> | <u>42,600</u> |
| <u>Sund</u> ay | <u>11,674</u> | <u>8,426</u> | <u>20,100</u> | <u>23,870</u> | <u>17,230</u> | <u>41,100</u> |

| Average | Weekday at the | e Nice Bridge | | | |
|----------------|----------------|---------------|---------------|---------------|---------------|
| <u>2004 (O</u> | <u>ctober)</u> | | <u>2030</u> | | |
| <u>8,670</u> | <u>8,430</u> | <u>17,100</u> | <u>17,745</u> | <u>17,255</u> | <u>35,000</u> |

Source: Governor Harry W. Nice Memorial Bridge Improvement Project Environmental

| Segment | From | <u>To</u> | 2017 | 2040 |
|--|-------------------------------------|--|---------------|--------|
| VA 207 | US 1 Jefferson Davis Hwy | 1-95 | 8,100 | 15,900 |
| | I- <u>95</u> | Route 601 S, Penola Rd | 10,000 | 19,600 |
| | Route 601 S, Penola Rd | Route 722 Milford | 13,000 | 25,500 |
| | Route 722 Milford | Bus SR 207 | 12,000 | 23,500 |
| | Bus SR 207 | US 301 Richmond Tpke | 9,200 | 18,000 |
| | SR 207 | Bus US 301, Bus SR 207 Broaddus Ave | 10,000 | 19,600 |
| <u>US 301</u> | Bus US 301, Bus SR 207 Broaddus Ave | NCL Bowling Green; Route 608 Lakewood Rd | 11,000 | 21,600 |
| | Route 608 Lakewood Rd | US 17 Tidewater Trail | 9,300 | 18,200 |
| | US 17 Tidewater Trail | SCL Port Royal | 15,000 | 29,400 |
| Bus US 301, | SCL Port Royal | NCL Port Royal | <u>15,000</u> | 29,400 |
| <u>VA 2</u> | NCL Port Royal | King George County Line | 15,000 | 29,400 |
| | Caroline County Line | Route 623 Jersey Rd | 14,000 | 27,400 |
| <u>US 301</u> | Route 623 Jersey Rd | SR 3 Kings Hwy | 14,000 | 27,400 |
| Security of the security of th | SR 3 Kings Hwy | SR 205 Ridge Rd | 14,000 | 27,400 |
| The state of the s | SR 205 Ridge Rd | SR 218 Windsor Dr | 16,000 | 31,400 |
| Name and American Control of the Con | SR 218 Windsor Dr | SR 206 Dahlgren Rd | 21,000 | 41,200 |
| NAME OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER | SR 206 Dahlgren Rd | Maryland State Line | 26,000 | 51,000 |

Source, above and below: US 301 / Route 207 Arterial Preservation Plan King George & Caroline Counties; June 15, 2018

1.1.1. WHAT IS THE ARTERIAL PRESERVATION PROGRAM?

VDOT's Arterial Preservation Program is designed to preserve and enhance the capacity and safety of the critical transportation highways included in the Arterial Preservation Network. These major highways accommodate long-distance mobility of people and goods throughout the Commonwealth. Preserving mobility on these corridors is critical to the current and future economy. The Arterial Preservation Network includes segments of selected major highways that are part of the Corridors of Statewide Significance (CoSS) system or are functionally classified as principal or other principal arterials.

Within the framework of the Arterial Preservation Program, VDOT is developing methodologies to consistently and programmatically evaluate the corridors, creating a toolbox of preservation and enhancement strategies and identifying opportunities to implement these strategies. As an alternative to widening major highways to add capacity, preservation and enhancement strategies promote the use of innovative transportation solutions, minimizing delays for through traffic and improving safety, while incorporating local economic development goals. Developed in partnership with localities, the strategies will be used as tools to plan for infrastructure that supports future land use and development.

Town of Port Royal and its Main Street (Route 301) are unique and do not fit a cookie-cutter approach. The Town was there first, established in 1744.

A POSTIVE PATH FORWARD

Port Royal Town Council and Planning Commission joined in work sessions, each of which was

open to the public. Stakeholders were provided the VDOT PowerPoint presentation and exhibits

for the Rt. 301 study. Testimony of the public was received and considered by the Town Council

and Planning Commission. The following are points which most, but not necessarily all, of the

members agree to and/or can generate a general consensus:

A BYPASS SOLUTION

The most economical and comprehensive long term solution to the Town of Port Royal

chokepoint on Route 301, Main Street, is a bypass for all four lanes of north/south traffic

and all through truck traffic.

Existing Main Street would retain a lane of north and a lane of southbound traffic and a

center turn lane. Fourth existing lane of Main Street would become sidewalks and

landscaping.

Two very Different Stakeholder Groups

Two very different Stakeholder Groups: Those who want to be in classic Main Street local

traffic pattern and those who just want to drive through as soon as possible.

Main Street in Port Royal will become a livable venue for citizens and a destination for

travelers who want to experience an historic town on the Rappahannock River which is

bounded by an outstanding United States Fish and Wildlife Refuge.

Stakeholders desiring or needing a fast, safe, and effective means of travel around the

Town will have the bypass.

Page 4 of 11

- 1. A rough sketch of the bypass ('Holloway Boulevard' from Point "A" to Route 17) is attached and made a part of this report;
 - a. Point "A" on the graphic is just north of Water Street to the west of Main Street.
 - i. The 'restaurant tract' at Main Street and the Rappahannock River is one of the very few public-commercial interactions on the river available and must be kept intact as much as possible in terms of keeping as much land as possible and access as immediate and easy as possible;
 - ii. The 'Roy' chimneys are historic and iconic of Port Royal history and must be preserved;
 - iii. A residence (Myers) on the Rappahannock River and Main Street and the small commercial lot next to that residence must have safe and easy access;
 - iv. The 61 acres fronting upon the Rappahannock River to the immediate west of the restaurant tract must retain an access which is as immediate and easy as possible;
 - a) The 61 acres might be master planned as a mixed-use development, as an Urban Development Area (UDA) to help with comporting this project to requirements necessary for funding in the STARS program and as a result of the transportation improvements;
 - b) The 61 acres would also be accessed from the 'T' boulevard which will provide access to the three major land bays through which the bypass will traverse;

- b. Point "C" on the graphic denotes an extension of Cumberland Street to a roundabout which then links to the 'T' road, 'Robinson Boulevard' which will access the three major land bays as cited, above;
- c. Point "D" is the location of a **traffic signal to be** <u>erected prior to the bypass</u> at the intersection of Cumberland and Main Street;
 - The traffic signal will function at a cycle of demand peak time periods (flashing yellow at non-peak; motion or sensors);
 - ii. The traffic signal will function at any time at the behest of the Fire and Rescue Department off Cumberland Street;
 - iii. Arguments of "no traffic signals" are superfluous due to the proposal of two (2) additional traffic signals for the proposed quadrant proposal by VDOT for the Rt. 301/17 intersection;
- d. A leg of the bypass from Route 17 to Point "E" is Gouldin Boulevard and requires immediate and easy access to land bays on either side of Carpenter Boulevard. The area bounded by Route 17 and Main Street will probably be master planned for mixed use development, and as an UDA.
- e. Land bays between the bypass, Holloway Boulevard and Main Street, will be accessed by Main Street. Larger land bay on the Holloway tract will be accessed by Route 17 and the new Robinson Boulevard. The large land bay and especially the area between Main Street and Holloway Boulevard will probably be master planned mixed-use development and an UDA.
- **2. Existing Rt. 301, Main Street** will become a classic main street with one lane of southbound traffic, one lane of northbound traffic, a center lane for turn movements, and the fourth lane converted to sidewalks and landscaping.

- a. Grants will be sought for as much of this component of the project as possible.
- b. Storm water management issues found at antiquated ditch and piping along Main Street which deliver waters directly to the Rappahannock will be addressed in an attempt to garner funds from mitigation of projects negatively impacting waters of the United States and/or water quality;
- c. Main Street in Port Royal will become a desirable destination rather than a constricted funnel attempting to move high volumes of traffic with little opportunity for turn movements during peak demand.
- 3. Pedestrian and bicycle pathways and dedicated lanes are essential for the new Main Street and Cumberland Street extended as well as Robinson Boulevard. Interconnections between Main Street and other road networks are also essential. It is the Bypass which allows for Main Street to function as a multimodal transportation asset, by removing most of the through traffic and allowing local and destination traffic to dominate.

4. Costs

- a. Negative impacts of the bypass to citizens, businesses, historic and environmental resources are expected to be less than the other solutions proposed by VDOT which focus upon a combination of expansion of the existing Main Street rights of way and interchange 'improvements';
- b. A combination of planning and zoning is designed to generate some of the rights of way for the bypass through proffers, as land areas are increased in value through a public/private partnership. Transportation improvements will become the impetus for 'Smart Growth'.

- c. A tract of land at Office Hall in King George County of 145 acres fronting upon both Route 3 and Route 301 sold for \$750,000 cash in 2018. In contrast, a small lot of a half-acre on Route 301 sold for \$40,000.
- d. Acquisition of rights of way on Main Street for VDOT proposals will become very expensive as a consequence of the shallow lots and proximity of structures to Route 301 which are negative impacted by the combination of more traffic volumes and less buffer and/or usable lands along Main Street.
- e. Costs of utility relocation along Main Street will be greater.
- **5. Probably minimize need for intersection 'improvements'** as found in the VDOT presentation. Radical solutions proposed by VDOT would be unnecessary.
 - a. The bypass essentially moves traffic around the existing Rt. 301/17 intersection:
 - b. Drivers will have an opportunity to see Hornes and other businesses and take the existing Main Street or, if they desire. to go around the Town, take the bypass;
 - c. Negating costs of major or radical intersection "improvements" should feed-back as savings allocated to the bypass solution.

6. Implementation

a. <u>VDOT</u>

- Town will work with VDOT to flesh out a more specific proposal and details;
- ii. Another goal of this plan is to arrive not at just a solution but a superlative example of how to accomplish a complex project

benefiting a wide range of stakeholders through a collaboration of many.

iii. Seek out other partners to help with costs and support;

b. Caroline County Board of Supervisor and Planning Commission

- Work with Caroline County to create a joint planning area for land use planning, future utilities, and revenue sharing to be applied to the land bays contiguous to the Town and impacted by the bypass;
- ii. Insert into the Capital Improvement Plan for the Town and Caroline
 County the bypass and link to proffer requirements;
- iii. Work with Caroline County to present the bypass project to various regional, state, and federal agencies/departments for funding and support within a matrix of land use, utilities, and revenue sharing between the Town and Caroline County.

7. Fort AP Hill

- a. Existing Main Street as a thorough fare, arterial highway, does not have any shoulders and is susceptible to failure if an accident occurs;
 - i. A text message was sent from Fort AP Hill, 05 September 2019, which stated: "Fort AP Hill has been designated a staging area in support of recovery operations for area impacted by hurricane Dorian. Motorist should expect delays over the next several days on Route 301 and when accessing Fort AP Hill as FEMA trucks will be entering and exiting the facility."
 - ii. Safe, efficient, and reliable traffic movements on Main Street and Route 301 are essential to the many varied missions of Fort AP Hill.
 A bypass will negate the existing chokepoint found at a dysfunctional Main Street with no shoulders and propensity for traffic hazards:

8. NOISE

- a. Actions to accommodate greater traffic volumes on Main Street in Port Royal will negatively impact citizens and stakeholders, especially noise;
- b. Compliance with VDOT's "State Noise Abatement Policy", effective July 13, 2011, and updated July 2014 is sought if any other solutions are attempted by VDOT as a replacement for the bypass. VDOT guidelines are based on Title 23 of the Code of Federal Regulations, Part 772 and the Procedures for Abatement of Highway Traffic Noise and Construction Noise, (23 CFR 772).
- c. The bypass will be engineered and built to mitigate noise externalities.

9. Historic Resources

- a. Port Royal, 'old town' is listed on both the State and National Registers of Historic Places;
- b. That Register Nomination form is in the process of updating. Field work has been completed resulting in a change in geography (expanded) and an expansion of the time periods (expanded from 17th and 18th century to within about 50 years of age and greater provided other requirements are met;
- c. Beyond tangible physical assets are found intangible resources of landscape, function, and culture which collectively comprise a very real historic resource. Pursuit of other options as outlined by VDOT with regards its 'through traffic' and 'intersection improvements' will have a very real negative impact upon those cultural features, which are in and of themselves resources.

THANKSGIVING

Town of Port Royal is thankful to VDOT and its consultants for the time, energy and efforts to find solutions for the Main Street corridor in the Town. It is a complicated set of problems. Staff and consultants have been very professional and good to work with. We might disagree on some issues. We shall rely upon professionalism and good intentions to move us all forward.

ERRORS AND DEFICENCIES

"RATING CRITERIA"

- a) The Town takes exception to and strongly disagrees with statements and conclusions as found in the documents providing a color-coded statement of conclusions as to various observations of effectiveness applied to the 'through' and 'intersection' plans. Time and lack of more information presently preclude amplification of this response. An opportunity for a more robust rebuttal is reserved by the Town.
- b) A request to formally presented to VDOT for data and analysis applied thereto used to arrive at the conclusions found in the RATING CRITERIA. As of 06 September, no response has been tendered forth.

MOVING FORWARD

The Town will earnestly work with VDOT, Caroline County, and others. The Town will actually rely upon VDOT for much help in developing the plans, documentation, and other actions necessary to perfect a bypass plan acceptable to the stakeholders and move expeditiously towards funding for a superlative solution.

Caroline County, Virginia Board of Supervisors

Jeffrey S. Black
Western Caroline District

Clayton T. Forehand Madison District

Nancy L. Long Port Royal District

Jeffery M. Sili Bowling Green District

Floyd W. Thomas Mattaponi District

Reginald L. Underwood Reedy Church District

Charles M. Culley, Jr. County Administrator



September 25, 2019

Mr. Stephen Haynes District Planning Manager VDOT Fredericksburg District 87 Deacon Road Fredericksburg, Virginia 22405

Dear Mr. Haynes,

The Caroline County Board of Supervisors has been requested to provide comments to the recommendations from the Virginia Department of Transportation (VDOT) for improvements to the Route 301 corridor in the Town of Port Royal. The Board is well aware of the additional traffic anticipated on Route 301 once the Harry Nice Bridge improvements are completed. Route 301 already serves as a bypass to I-95 and usage of this route will only increase, as VDOT studies have validated. The Board is appreciative of the efforts by VDOT staff to work with the Town and its citizens to address their concerns about this additional traffic and identify ways to mitigate impacts without altering the Town's character.

VDOT provided four alternatives for consideration by the Town, with a cost-benefit analysis for each option. Several of the options provide a Main Street effect for Route 301 through Town. Town officials remain concerned about accommodating additional traffic increases along Route 301, while retaining a "Main Street" atmosphere. To that end, Town Council proposed an additional alternative for a two-way bypass to the west of the Town by resolution dated September 10, 2019.

There are pros and cons to a bypass around any town and care must be taken to ensure such a design does not negatively affect the economic viability of Port

"Committed To Service, Dedicated To The People"

212 North Main Street, P. O. Box 447, Bowling Green, Virginia 22427

(804)633-5380 – Telephone (804)633-4970 – Fax

www.co.caroline.va.us

Mr. Stephen Haynes September 25, 2019 Page Two

Royal. Neither should such a concept serve as a road to open more land for speculative development, thereby defeating the intended purpose of a bypass.

While the Board of Supervisors is not yet ready to commit its support for a bypass through that portion of the County around the Town of Port Royal, the County does support further analysis of this option relative to the other alternatives identified.

Sincerely,

Clayton T. Forehand, Chairman Caroline County Board of Supervisors

A J Jaho

APPENDIX J

Transportation Options: SMART SCALE Summary Sheets

Intersection of Route 301/Route 17 Intersection Modification

Likely Benefit-Cost Ratio: **High**

Project Map Washington, D.C Fredericksburg [17] Submitting Entity: Caroline County and/or GWRC, in cooperation with the Town of Port Royal **Project Extents Typical VDOT Project Development Process ROW and Utility Preliminary** Construction Relocation **Engineering** Short Term (< 4 Years)

Project Overview

Add the following enhancements to Route 301/Route 17: optimize signal, provide additional southbound left-turn lane on Route 301, provide a dedicated westbound left-turn lane on Route 17, and add pedestrian accommodations.

SMART SCALE Scoring Criteria

| Congestion Mitigation | Increase Person Throughput | + |
|--------------------------|---|---|
| | Reduce Delay | + |
| Safato | Reduce Fatal and Injury Crashes | / |
| Safety | Reduce Fatal and Injury Crash Rate | / |
| | Increase Access to Jobs | / |
| Accessibility | Increase Access to Jobs for Disadvantaged Populations | / |
| | Increase Access to Multimodal Travel Choices | + |
| | Square Feet of Commercial/Industrial Uses | / |
| Economic Development | Tons of Freight Goods Impacted | + |
| | Improvement to Travel Time Reliability | + |
| Environment | Potential to Improve Air Quality | / |
| | Potential Natural and Cultural Acreage Impacted | / |
| | | |

Likely Project Influence on Scoring Criteria

+ Improve / No Change - Worse

Right-of-Way Needed? Moderate (10K – 50K SF)

Planning Level Cost Estimate

Moderate (2.78M - 3.93M)



Intersection of Route 301/Route 17 Intersection Modification

Likely Benefit-Cost Ratio: **High**



| Congestion Mitigation | This project will increase the capacity of Route 301 and Route 17 (currently a bottleneck on the otherwise free-flowing Route 301 corridor), so it is likely to increase person throughput and reduce delay . |
|--------------------------|---|
| Safety | This project will not reduce the need for motorists to turn into and out of the Town of Port Royal from Route 301. This project is unlikely to reduce fatal and injury crashes and unlikely to reduce the fatal and injury crash rate . |
| Accessibility | This project will optimize operations at one intersection, which is unlikely to increase access to jobs or to increase access to jobs for disadvantaged populations . Since this project will add limited pedestrian accommodations, it is likely to increase access to multimodal travel choices . |
| Economic Development | Based on the existing land use plan for the Town of Port Royal, this project is unlikely to induce the construction of additional square feet of commercial/industrial uses. By reducing delay at Route 301/Route 17, this project will likely improve travel time reliability and have a positive impact on freight goods traveling along Route 301. |
| Environment | Since this project does not include alternate modes of transportation, it is unlikely to improve air quality . This project involves changes to an existing intersection within existing right-of-way and is unlikely to impact natural and cultural acreage. |



Intersection of Route 301/Route 17 **Quadrant Intersection**



Project Map Washington, D.C Fredericksburg [17] Submitting Entity: Caroline County and/or GWRC, in cooperation with the Town of Port Royal **Project Extents** Typical VDOT Project Development Process **ROW** and Utility **Preliminary** Construction Relocation **Engineering** Moderate Term (4-7 Years)

Project Overview

Build new connector "quadrant roadway" in the northeast corner of the Route 301/17 intersection to serve northbound and southbound left-turns. This project diverts heavy southbound left-turn volumes prior to Route 301/17, reduces the number of signal phases and cycle length at Route 301/17, and provides two new coordinated signals at the secondary connections. It also adds pedestrian accommodations.

SMART SCALE Scoring Criteria

| Congestion Mitigation | Increase Person Throughput | + |
|--------------------------|---|---|
| | Reduce Delay | + |
| Safaty | Reduce Fatal and Injury Crashes | / |
| Safety | Reduce Fatal and Injury Crash Rate | / |
| | Increase Access to Jobs | / |
| Accessibility | Increase Access to Jobs for Disadvantaged Populations | / |
| | Increase Access to Multimodal Travel Choices | + |
| | Square Feet of Commercial/Industrial Uses | / |
| Economic Development | Tons of Freight Goods Impacted | + |
| | Improvement to Travel Time Reliability | + |
| Environment | Potential to Improve Air Quality | / |
| | Potential Natural and Cultural Acreage Impacted | - |

Likely Project Influence on Scoring Criteria

+ Improve / No Change - Worse

Planning Level Cost Estimate

High (5.99M - 8.46M)

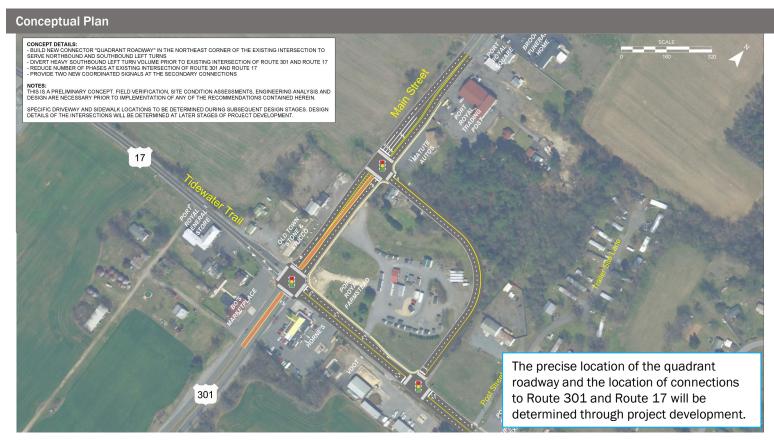
Right-of-Way Needed?

Moderate (10K - 50K SF)



Intersection of Route 301/Route 17 **Quadrant Intersection**

Likely Benefit-Cost Ratio: Moderate



| Congestion Mitigation | This project will increase the capacity of Route 301 and Route 17 (currently a bottleneck on the otherwise free-flowing Route 301 corridor), so it is likely to increase person throughput and reduce delay . |
|--------------------------|--|
| Safety | This project will not reduce the need for motorists to turn into and out of the Town of Port Royal from Route 301. This project is unlikely to reduce fatal and injury crashes and unlikely to reduce the fatal and injury crash rate . |
| Accessibility | This project will operations at one intersection, which is unlikely to increase access to jobs or to increase access to jobs for disadvantaged populations . Since this project will add limited pedestrian accommodations, it is likely to increase access to multimodal travel choices. |
| Economic Development | Based on the existing land use plan for the Town of Port Royal, this project is unlikely to induce the construction of additional square feet of commercial/industrial uses . It will improve access for the property located in the NE quadrant of the Route 301 and Route 17 intersection. By reducing delay at Route 301/Route 17, this project will likely improve travel time reliability and have a positive impact on freight goods traveling along Route 301. |
| Environment | Since this project does not include alternate modes of transportation, it is unlikely to improve air quality . This project will build a new road through previously undeveloped parcels and is likely to impact natural and cultural acreage . |



Intersection of Route 301/Route 17 Market Street Extension



Project Map Washington, D.C Fredericksburg [17] Submitting Entity: Caroline County and/or GWRC, in cooperation with the Town of Port Royal **Project Extents Typical VDOT Project Development Process ROW and Utility Preliminary** Construction Relocation **Engineering** Moderate Term (4-7 Years)

Project Overview

Extend Market Street south to Route 17, providing increased connectivity to the Town of Port Royal. This option may be combined with the quadrant roadway option or may stand alone, connecting directly to Route 17.

SMART SCALE Scoring Criteria

| Congestion Mitigation | Increase Person Throughput | 1 |
|--------------------------|---|---|
| | Reduce Delay | + |
| Sofoty | Reduce Fatal and Injury Crashes | + |
| Safety | Reduce Fatal and Injury Crash Rate | + |
| | Increase Access to Jobs | / |
| Accessibility | Increase Access to Jobs for Disadvantaged Populations | / |
| | Increase Access to Multimodal Travel Choices | / |
| | Square Feet of Commercial/Industrial Uses | / |
| Economic Development | Tons of Freight Goods Impacted | + |
| | Improvement to Travel Time Reliability | + |
| Environment | Potential to Improve Air Quality | / |
| | Potential Natural and Cultural Acreage Impacted | - |
| | | |

Likely Project Influence on Scoring Criteria

+ Improve / No Change - Worse

Planning Level Cost Estimate

High (5.05M - 7.12M)

Right-of-Way Needed?

High (> 50K SF)

Intersection of Route 301/Route 17 Market Street Extension

Likely Benefit-Cost Ratio: Moderate



| Congestion Mitigation | This project will increase local roadway network connectivity, so it is unlikely to increase person throughput . By providing local travelers with a means to circumvent the intersection of Route 301/Route 17, this project is likely to reduce delay . |
|--------------------------|---|
| Safety | This project will reduce the need for motorists to turn into and out of the Town of Port Royal from Route 301. By reducing the potential for crashes related to turning movements and differences in vehicle speeds, this project is likely to reduce fatal and injury crashes and to reduce the fatal and injury crash rate. |
| Accessibility | This project will increase local roadway network connectivity, which is unlikely to increase access to jobs or to increase access to jobs for disadvantaged populations . This project is unlikely to increase access to multimodal travel choices. |
| Economic Development | Based on the existing land use plan for the Town of Port Royal, this project is unlikely to induce the construction of additional square feet of commercial/industrial uses. By reducing delay at Route 301/Route 17, this project will likely improve travel time reliability and have a positive impact on freight goods traveling along Route 301. |
| Environment | Since this project does not include alternate modes of transportation, it is unlikely to improve air quality . This project will build a new road through previously undeveloped parcels and is likely to impact natural and cultural acreage . |



Route 301 Through Town **Two-Way Left-Turn Lane**



Project Map Washington, D.C Fredericksburg [17] Submitting Entity: Caroline County and/or GWRC, in cooperation with the Town of Port Royal **Project Extents** Typical VDOT Project Development Process **ROW** and Utility **Preliminary** Construction Relocation **Engineering**

Project Overview

Provides a center turning lane for northbound and southbound left-turning movements on Route 301. Adds pedestrian accommodations with "spotmedian" locations for crossing Route 301 and landscaping as a visual cue for motorists passing through Town. Includes two pedestrian crossings at Back Street and Caroline Street to facilitate pedestrian travel across Route 301.

SMART SCALE Scoring Criteria

| Congestion Mitigation | Increase Person Throughput | / |
|--------------------------|---|---|
| | Reduce Delay | + |
| Safato | Reduce Fatal and Injury Crashes | + |
| Safety | Reduce Fatal and Injury Crash Rate | + |
| | Increase Access to Jobs | / |
| Accessibility | Increase Access to Jobs for Disadvantaged Populations | / |
| | Increase Access to Multimodal Travel Choices | + |
| Economic Development | Square Feet of Commercial/Industrial Uses | / |
| | Tons of Freight Goods Impacted | + |
| | Improvement to Travel Time Reliability | + |
| Environment | Potential to Improve Air Quality | + |
| | Potential Natural and Cultural Acreage Impacted | - |

Likely Project Influence on Scoring Criteria

+ Improve / No Change - Worse

Right-of-Way Needed?

Moderate (10K - 50K SF)

Planning Level Cost Estimate

Moderate (8.75M - 12.35M)

Moderate Term (4-7 Years)

Route 301 Through Town **Two-Way Left-Turn Lane**

Likely Benefit-Cost Ratio: Moderate



| Congestion Mitigation | This project does not influence the capacity of Route 301 and Route 17, so it is unlikely to increase person throughput . This project makes it easier for vehicles to turn onto and off Route 301, so it may reduce delay for vehicles traveling through and to the Town of Port Royal on Route 301. |
|--------------------------|---|
| Safety | This project will make it easier for for motorists to turn into and out of the Town of Port Royal from Route 301. By reducing the potential for crashes related to turning movements and differences in vehicle speeds, this project is likely to reduce fatal and injury crashes and to reduce the fatal and injury crash rate . |
| Accessibility | This project will add turn-lanes to an existing corridor, which is unlikely to increase access to jobs or to increase access to jobs for disadvantaged populations . This project adds continuous pedestrian accommodations on the east side of Route 301, increasing access to multimodal travel choices . |
| Economic Development | Based on the existing land use plan for the Town of Port Royal, this project is unlikely to induce the construction of additional square feet of commercial/industrial uses . By reducing delay along Route 301, this project will likely improve travel time reliability and have a positive impact on freight goods traveling along Route 301. |
| Environment | Since this project adds accommodations for non-motorized modes of transportation, it is likely to improve air quality . This project involves changes to an existing roadway with some construction occurring outside of existing right-of-way and is likely to impact natural and cultural acreage . |



Route 301 Through Town Full Raised Median



Project Map Washington, D.C Fredericksburg [17] Submitting Entity: Caroline County and/or GWRC, in cooperation with the Town of Port Royal **Project Extents** Typical VDOT Project Development Process **ROW** and Utility **Preliminary** Construction Relocation **Engineering**

Project Overview

Provides a full raised median along Route 301 to reduce the number of turning conflict points and provide protected left-turns on Route 301. Provides an acceleration lane on Route 301 SB from Caroline Street. Adds pedestrian accommodation with crosswalk locations, including median refuge areas. Median landscaping may be added as a visual cue through Town.

SMART SCALE Scoring Criteria

| Congestion Mitigation | Increase Person Throughput | / |
|--------------------------|---|---|
| | Reduce Delay | + |
| Safatu | Reduce Fatal and Injury Crashes | + |
| Safety | Reduce Fatal and Injury Crash Rate | + |
| | Increase Access to Jobs | / |
| Accessibility | Increase Access to Jobs for Disadvantaged Populations | / |
| | Increase Access to Multimodal Travel Choices | + |
| | Square Feet of Commercial/Industrial Uses | / |
| Economic Development | Tons of Freight Goods Impacted | + |
| | Improvement to Travel Time Reliability | + |
| Environment | Potential to Improve Air Quality | + |
| | Potential Natural and Cultural Acreage Impacted | - |

Likely Project Influence on Scoring Criteria

+ Improve / No Change - Worse

Planning Level Cost Estimate

Moderate (11M - 15.54M)

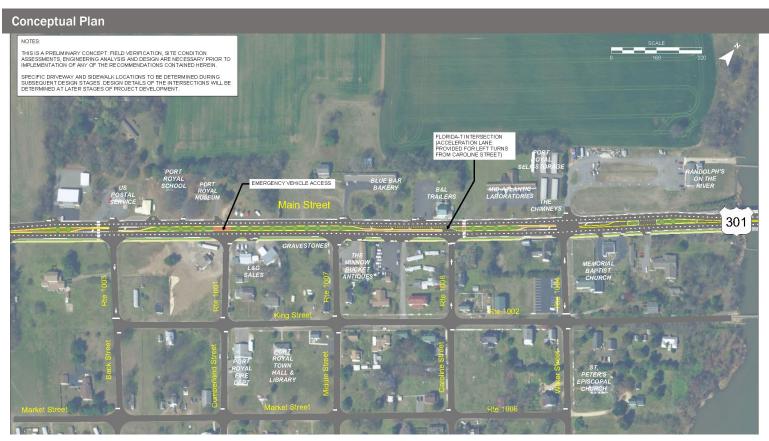
Moderate Term (4-7 Years)

Right-of-Way Needed?

Moderate (10K - 50K SF)

Route 301 Through Town **Full Raised Median**

Likely Benefit-Cost Ratio: Moderate



| Congestion Mitigation | This project does not influence the capacity of Route 301 and Route 17, so it is unlikely to increase person throughput . This project limits the number of locations where vehicles can to turn onto and off Route 301, so it is likely to reduce delay for vehicles traveling through the Town of Port Royal on Route 301. |
|--------------------------|---|
| Safety | This project will make it easier for for motorists to turn into and out of the Town of Port Royal from Route 301. By reducing the potential for crashes related to turning movements and differences in vehicle speeds, this project is likely to reduce fatal and injury crashes and to reduce the fatal and injury crash rate. |
| Accessibility | This project will add turn-lanes to an existing corridor, which is unlikely to increase access to jobs or to increase access to jobs for disadvantaged populations . This project adds continuous pedestrian accommodations on the east side of Route 301, increasing access to multimodal travel choices . |
| Economic Development | Based on the existing land use plan for the Town of Port Royal, this project is unlikely to induce the construction of additional square feet of commercial/industrial uses. By reducing delay along Route 301, this project will likely improve travel time reliability and have a positive impact on freight goods traveling along Route 301. |
| Environment | Since this project adds accommodations for non-motorized modes of transportation, it is likely to improve air quality . This project involves changes to an existing roadway with some construction occurring outside of existing right-of-way and is likely to impact natural and cultural acreage . |



Route 301 Through Town One-Way Pair "Couplet"

Likely Benefit-Cost Ratio: LOW

Project Map Washington, D.C Fredericksburg [17] Submitting Entity: Caroline County and/or GWRC, in cooperation with the Town of Port Royal **Project Extents** Typical VDOT Project Development Process **ROW** and Utility **Preliminary** Construction Relocation **Engineering** Long Term (7+ Years)

Project Overview

Construct new two-lane roadway, paralleling Route 301 to the west, for southbound traffic. Convert existing Route 301 to a two-lane roadway for northbound traffic. Provides future opportunity to expand grid pattern to west side of Route 301. The current cost estimate and concept does not provide pedestrian accommodation, but it could be provided for a higher cost.

SMART SCALE Scoring Criteria

| Congestion Mitigation | Increase Person Throughput | / |
|--------------------------|---|---|
| | Reduce Delay | / |
| Cafaba | Reduce Fatal and Injury Crashes | + |
| Safety | Reduce Fatal and Injury Crash Rate | + |
| | Increase Access to Jobs | / |
| Accessibility | Increase Access to Jobs for Disadvantaged Populations | / |
| | Increase Access to Multimodal Travel Choices | / |
| | Square Feet of Commercial/Industrial Uses | + |
| Economic Development | Tons of Freight Goods Impacted | - |
| | Improvement to Travel Time Reliability | - |
| Environment | Potential to Improve Air Quality | / |
| | Potential Natural and Cultural Acreage Impacted | - |

Likely Project Influence on Scoring Criteria

+ Improve / No Change - Worse

Planning Level Cost Estimate

High (19.34M - 27.3M)

Right-of-Way Needed?

High (> 50K SF)



Route 301 Through Town **One-Way Pair "Couplet"**

Likely Benefit-Cost Ratio:



| Congestion Mitigation | This project does not influence the capacity of Route 301 and Route 17, so it is unlikely to increase person throughput . This project increases out of direction travel for southbound motorists on Route 301 and for motorists trying to access businesses on the west side of Route 301, so it is unlikely to reduce delay . |
|--------------------------|--|
| Safety | This project will reduce turning conflicts for motorists turning into and out of the Town of Port Royal. By reducing the potential for crashes related to turning movements and differences in vehicle speeds, this project is likely to reduce fatal and injury crashes and to reduce the fatal and injury crash rate. |
| Accessibility | This project will convert an existing two-way facility to a one-way couplet, which is unlikely to increase access to jobs or to increase access to jobs for disadvantaged populations . Since this project will not add pedestrian accommodations, it is unlikely to increase access to multimodal travel choices . |
| Economic Development | Based on the existing land use plan for the Town of Port Royal, this project may induce the construction of additional square feet of commercial/industrial uses . By routing southbound motorists through two signalized intersections this project will likely reduce travel time reliability and have a negative impact on freight goods . |
| Environment | Since this project does not include alternate modes of transportation, it is unlikely to improve air quality . This project will build a new road through previously undeveloped parcels and is likely to impact natural and cultural acreage . |

