# BOGGY CREEK ROAD PROJECT TRAFFIC ANALYSIS REPORT





Prepared for:
OSCEOLA COUNTY, FLORIDA



Prepared by: VHB



# Boggy Creek Road Widening Draft Project Traffic Analysis Report (PTAR)

This Final PTAR is prepared in support of the widening of Boggy Creek Road from Simpson Road to Narcoossee Road. The current report includes the development of existing base year traffic volumes, evaluation of existing operating conditions, development of design traffic characteristics, year 2019 model validation efforts, and development of growth rates for developing future traffic forecasts for No Build and Build conditions. In addition, this report includes the evaluation of operating conditions of the corridor as appropriate during the service life of the proposed roadway project.

Prepared for:

**▶** Osceola County

▶ 1/27/2021

Prepared by:

Vanasse Hangen Brustlin (VHB)

#### **CERTIFICATION BY**

#### VANASSE HANGEN BRUSTLIN, INC.

#### Financial Project ID: -NA-

I, Babuji Ambikapathy P.E. Number 50689, have prepared and reviewed the Project Traffic Analysis Report for the proposed Boggy Creek Road widening and Alternatives Evaluation study. I have specifically followed the guidelines "Project Traffic Forecasting Handbook (2019)" as adopted by the Florida Department of Transportation. Based on traffic count information, general data sources, privately generated data sources and other pertinent information, the Project Traffic Report has been prepared using current traffic engineering, transportation planning, and Florida Department of Transportation practices and procedures.

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1/27/2021

Date

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### **Executive Summary**

Osceola County is conducting an Alternative Evaluation Study followed by a development of design plans for the widening of Boggy Creek Road from Simpson Road to Narcoossee Road from a two-lane undivided roadway to a four-lane divided roadway. The purpose of this project traffic analysis report (PTAR) is to document the traffic analysis for a roadway and intersection analyses, for the study corridor of Boggy Creek Road from Simpson Road to Narcoossee Road located in Osceola County, Florida.

Boggy Creek Road is classified as a minor arterial that is primarily a north/south facility that begins from Narcoossee Road to the south in Osceola County and terminates to the north at the SR 528/Beachline Expressway in Orange County. Within the study corridor, Boggy Creek Road is partially an east/west facility & partially north/south facility and a two (2) lane undivided roadway that serves the travel demands of various residential developments, schools, and related businesses. The posted speed limit along the Boggy Creek Road varies from 45 miles per hour to 55 miles per hour.

The study analysis was conducted for existing year 2019, opening year 2025, mid-design year 2035 and design year 2045. For this study, Under the No Build scenario, the corridor operations are evaluated assuming the existing geometry and the Build Alternative improvements include widening Boggy Creek Road from 2 to 4 lanes throughout the project study corridor as well as required turn lane improvements at the study intersections to accommodate the projected traffic demand within the study corridor. The following planned improvements are assumed under both No Build and Build scenarios:

- the extension of Simpson Road, east of Boggy Creek Road, to the future extension of the Osceola
   Parkway and associated improvements at the intersection of Boggy Creek Road & Simpson Road;
- and, widening of Narcoossee Road to six lanes.

As part of the study analysis (existing and future), Boggy Creek Road corridor between Simpson Road and Narcoossee Road with nine (9) study intersections were evaluated based on the latest Highway Capacity Manual (HCM) 6<sup>th</sup> Edition methodologies within the Synchro software. The latest adopted Central Florida Regional Planning Model (CFRPM) v6.1 was developed for use in this PTAR. A subarea model was validated for base year 2019, and a future year (2040) subarea model scenario was then developed based on the calibration efforts to obtain future year volume forecasts. Recommended traffic growth rates for the study corridors were determined based on a comparison of historical traffic trends, travel demand model volumes, and population estimates.

Based on the existing operational analysis, all the study intersections along Boggy Creek Road were observed to be operating at or better than targeted FDOT Level of Service (LOS) E, except a couple of

unsignalized intersections. For the existing conditions, roadway LOS along Boggy Creek Road from Simpson Road to Springlake Village Boulevard is at LOS E or F.

Under 2025 No Build conditions, the roadway LOS along Boggy Creek Road from Simpson Road to Nele Road are anticipated to operate at LOS F during the AM and PM peak hours. The segment between Nele Road and Springlake Village Boulevard is expected to operate at LOS F during the PM peak only. Under both 2035 No Build Conditions & 2045 No Build Conditions, the segments from Simpson Road to Turnberry Boulevard are expected to operate at LOS F during AM and PM peak hours.

The signalized intersection with Simpson Road was anticipated to operate at LOS F from year 2025 No Build during AM peak hour. For all the unsignalized intersections the minor street movements were found to operate at LOS E (or LOS F) from Year 2025 No Build conditions. The signalized intersection at Nele Road and Narcoossee Road were anticipated to fail at LOS F by year 2045 No Build conditions.

Based on the No Build roadway and No Build intersection analysis, it can be clearly seen that the existing Boggy Creek Road from Simpson Road to Narcoossee Road needs to be widened to a four-lane divided roadway and make it safer for the traveling public.

Under Build conditions, operational analysis was performed for Boggy Creek Road corridor with the improvements mentioned in the **Table A**. All roadway segments and study intersections are anticipated to operate at LOS standard (E) or better during the AM and PM peak hours in Years 2025, 2035, and 2045. The improvements shown in **Table A** wee illustrated in **Figure A**. The overall intersection and roadway LOS results for the Build alternative show significant improvement over the No Build alternative.

Table A: Recommended Improvements - Build Alternative

Roadway/Intersection	Improvement
General	Provide appropriate corridor and intersection lighting
	Reconstruct roadway to a four-lane divided roadway with a 22' raised median (or 15.5' raised median in constrained areas), a shared use path on the south side of the road, and a sidewalk on the north side of the road
Simpson Road#	Coordinate geometric improvements with the upcoming Simpson Road extension project.
	The ultimate configuration of the intersection should include two through lanes and dual left turn lanes for all approaches. The eastbound and southbound approaches should have dual right turn lanes; the westbound and northbound should have single right turn lanes.
	Signal Phasing: Overlap all right turn movements with complementary left turn movements.
Nele Road	Add a northbound left turn lane
Springlake Village Boulevard	Signalize intersection by 2035*
Timber Lane/Creek Bank Drive	Signalize intersection by 2045*
Narcoossee Road	Add a second northbound left turn lane
	Add a second southbound right turn lane
	Add a second eastbound left turn lane
	Add a second eastbound right turn lane
	Signal Phasing: Overlap eastbound right turn with northbound left turn

<sup>\*</sup> Actual signalization should be based on a signal warrant analysis using observed turning movement counts.

<sup>#</sup> The intersection of Boggy Creek Road and Simpson Road was evaluated under "Simpson Road Improvements PD&E Services".

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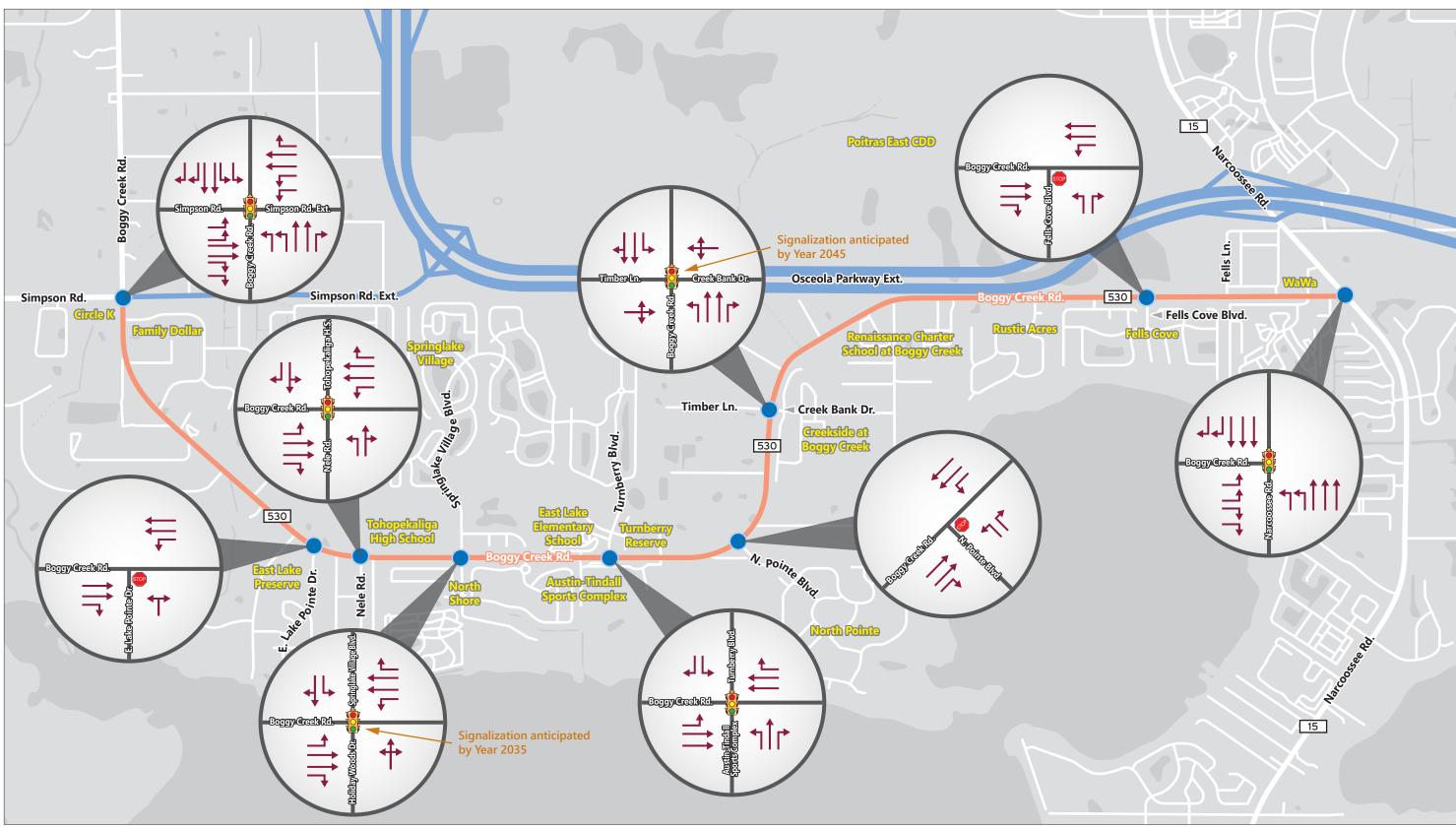






Figure A

Future Year Recommended Geometry
Boggy Creek Road Project Traffic
Analysis Report

Based on the safety analysis, portions of Boggy Creek Road from Simpson Road to East Lake Pointe Drive and from Fells Cove Boulevard to Narcoossee Road can be categorized as high crash segments. Review of the crash trends pointed to a need to focus on intersection crash trends at the signalized intersections at Narcoossee Road and Simpson Road. These two intersections alone accounted for 82% of the corridor's intersection crashes. As such the crash trends at each of these intersections were examined in further detail. Review of the five (5) fatal crashes along the study corridor within the last five years revealed a pattern of head-on collisions occurring at horizontal curves during nighttime, with dark unlighted conditions. Based on the crash review, the following safety challenges and opportunities were identified:

- Enhanced corridor and intersection lighting
- Installing a raised median
- Providing horizontal alignment warning signs on the corridor's curves, particularly at East Lake Pointe
   Drive and High Planes Lane.
- Protected only left turn phases during peak periods at Simpson Road and Narcoossee Road intersections.
- Adequate turn lane storage at Simpson Road
- Retroreflective backplates on signal heads at Narcoossee Road
- Recommended review of pavement conditions or drainage at Narcoossee Road that may be contributing to slippery roadway conditions
- Addition of a southbound U-turn lane at Narcoossee
- Elimination of the free flow movement for the southbound right turn lane at Narcoossee

The existing conditions operational (roadway and intersections) and safety analysis clearly shows that the existing Boggy Creek Road from Simpson Road to Narcoossee Road needs to be widened to a four-lane divided roadway and make it safer for the traveling public.

With the implementation of the improvements in the Build alternative, including addition of a raised median, roadway widening, and incorporation of turn lane improvements, the following safety outcomes are anticipated to result:

• The total number of crashes in the corridor is expected to increase only slightly from No Build (90.4 crashes/year) to Build conditions (93.8 crashes/year). However, it is important to note that the Build condition accommodates a substantial increase in corridor traffic volumes; thus, the actual crash rate for the corridor is expected to be lower under Build conditions.

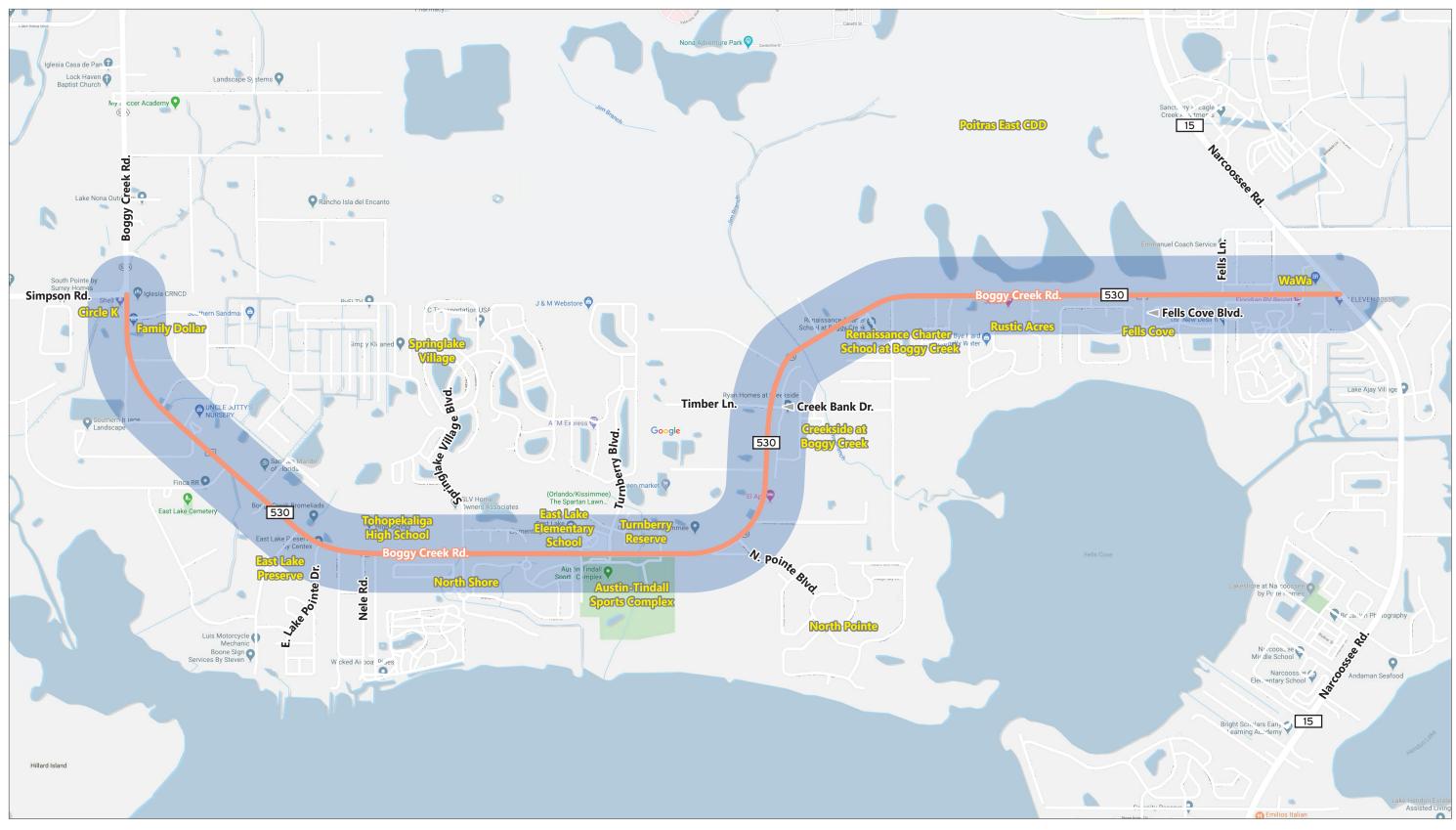
- The number of fatal and injury crashes are anticipated increase only slightly from the No Build (28.1 crashes/year) to Build alternative (28.9 crashes/year). Again, given that the Build alternative accommodates a much larger volume of traffic, the actual rate of crashes is expected to be lower in the Build alternative.
- Not inherently accounted for in this evaluation, but important to consider qualitatively, is the provision of bicycle facilities proposed in the Build alternative. The Build alternative is expected to provide an off road (shared use path) facility for cyclists throughout the entirety of the corridor. This will provide cyclists a greater separation from vehicular traffic.

# 1 Introduction

Osceola County is conducting an Alternative Evaluation Study followed by a development of design plans for the widening of Boggy Creek Road from Simpson Road to Narcoossee Road from a two-lane undivided roadway to a four-lane divided roadway. The purpose of this memorandum is to document the traffic analysis for a roadway and intersection analyses, for the study corridor of Boggy Creek Road from Simpson Road to Narcoossee Road located in Osceola County, Florida. This memorandum has been prepared based on the comments obtained from Osceola County on the Draft Phase 1 of the PTAR dated September 30, 2020, Draft Traffic Forecasts Memorandum dated October 30, 2020, and the Draft PTAR dated December 2020. The comments and responses are included in **Appendix A**.

VHB's role is to perform the Design Traffic Analysis to analyze the existing conditions and assess the need for future capacity and intersection improvements along Boggy Creek Road at the study intersections of East Lake Pointe Drive, Nele Road, Springlake Village Boulevard, Turnberry Boulevard, North Pointe Boulevard, Timber Lane, Fells Cove Boulevard, and Narcoossee Road. The intersection of Boggy Creek Road and Simpson Road was evaluated under "Simpson Road Improvements PD&E Services". The study corridor extends approximately 5.90 miles long and located within Osceola County's jurisdiction. The study area is shown in **Figure 1**.

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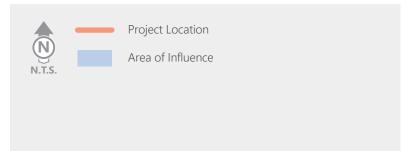




Figure 1

Study Area of Influence and Project Location Map
Boggy Creek Road Project Traffic Analysis Report

#### 1.1 Study Area

The primary study area of influence includes the intersections considered to be impacted by the widening improvements along the Boggy Creek Road study corridor as discussed with Osceola County staff and provided in the Traffic Analysis Methodology for the PTAR included in **Appendix B**.

The project study corridor includes a total of nine (9) study intersections, of which four (4) are signalized and the remaining five (5) are unsignalized. The study intersections to be evaluated per the approved Project Traffic Methodology and discussions with Osceola County staff are listed below:

- Simpson Road at Boggy Creek Road Signal Controlled
- East Lake Pointe Drive at Boggy Creek Road Stop Controlled
- Nele Road/Tohopekaliga High School at Boggy Creek Road Signal Controlled
- Springlake Village Boulevard at Boggy Creek Road Stop Controlled
- Turnberry Boulevard/Austin Tindall Park at Boggy Creek Road Signal Controlled
- North Pointe Boulevard at Boggy Creek Road Stop Controlled
- Timber Lane/Creek Bank Drive at Boggy Creek Road Stop Controlled
- Fells Cove Boulevard at Boggy Creek Road Stop Controlled
- Narcoossee Road at Boggy Creek Road Signal Controlled

#### 1.2 Objective

The overall objective of this PTAR is to provide Osceola County with the Annual Average Daily Traffic (AADT), peak hour volumes, intersection and roadway Level of Service (LOS) for the existing year 2019, and traffic forecasts for opening year 2025, mid-design year 2035 and design year 2045 for No Build and Build conditions. This report includes 5-year safety review, development of the design traffic characteristics including Standard K Factor, Directional Distribution Factor (D), and percentage of trucks for both the design hour and daily demand (DHT, T) for use in the operational analysis of future conditions. In addition, this report includes future operational analyses for opening year 2025, mid-design year 2035 and design year 2045 for No Build and Build conditions and recommended improvements based on the results.

#### 1.3 Methodology

The focus of this traffic study is to evaluate the traffic conditions at the surrounding intersections to be used by motorists and transit services traveling along the study corridor and the potential traffic impacts at these intersections. The methodology used for the development of this PTAR report is illustrated in **Figure 2**.

#### Figure 2: Boggy Creek Road PTAR Methodology

 Collect available traffic count information from the Florida Department of Transportation (FDOT)'s, Orange and Osceola County's historical traffic count records, and from actual field count data (StreetLinght data). Review previous studies, traffic characteristics and other relevant data for the study corridor. Based on the data collection, use the collected year 2019 peak hour turning movement counts for performing intersection and roadway segments LOS analyses for the project Step 2 corridor. Based on the data collection process, estimate the travel roadway characteristics of the corridor. These characteristics include Standard K factor, Directional Distribution Factor (D), Step 3 and Daily Truck factor and Design Hour Truck factor (T and DHT). Obtain the most recent available crash data for a minimum of five (5) years for the study corridor to evaluate the crash information, determine the crash types, crash severities, Step 4 associated time-periods, and contributing causes. Perform intersection and roadway Level of Service (LOS) for the existing year 2019 using Highway Capacity Manual (HCM) 6th edition methodologies within Synchro software. Step 5 Perform a sub-area travel demand model validation of the study area for the base year

- 2019 traffic conditions. Develop future year traffic volume forecasts for the corridor based on trends analysis of historical traffic counts, and/or travel demand models (Florida Standard Urban Transportation Modeling Structure - FSUTMS), previous studies, and Bureau of Economic and Business Research (BEBR) population projections for No Build and Build conditions.
- Develop the design hour turning movement volumes for the future years for the No Build and Build alternatives for Year 2025, Year 2035 and Year 2045 by applying the recommended factors to the future year AADTs using TURNS5 program.
- Provide LOS analysis for the intersections and roadway segments along the applicable study corridor for the No Build and Build alternatives for the future conditions using Step 8 Highway Capacity Manual (HCM) 6th edition methodologies within Synchro software.
- Based on the level of service analysis, provide recommendations for improvements to accommodate the anticipated travel demand. Step 9
  - Conduct a HSM Safety analysis for the No Build and Build alternatives using predictive crash methods in order to quantify and compare the potential future crashes.

Step 10

# Project Information

#### 2.1 Boggy Creek Road Project Information

#### 2.1.1 Boggy Creek Road

Boggy Creek Road is classified as a minor arterial that is primarily a north/south facility that begins from Narcoossee Road to the south in Osceola County and terminates to the north at the SR 528/Beachline Expressway in Orange County. Within the study corridor, Boggy Creek Road is partially an east/west facility & partially north/south facility and a two (2) lane undivided roadway that serves the travel demands of various residential developments, schools, and related businesses. The posted speed limit along the Boggy Creek Road varies from 45 miles per hour to 55 miles per hour. Based on field review conducted, the speed limit along Boggy Creek Road from Simpson Road to Springlake Village Boulevard was found to be posted at 45 miles per hour and from Springlake Village Boulevard to Narcoossee Road the posted speed limit was found to be 55 miles per hour.

#### 2.1.2 Boggy Creek Road Transit Service

The Central Florida Regional Transportation Authority (LYNX) provides public transportation services to Orange, Seminole and Osceola counties. In addition to the daily fixed route local bus service, LYNX also provides other services including LYMMO (a free downtown Orlando circulator), a commuter assistance Vanpool program, Neighbor Link service, ACCESS LYNX paratransit service, Knight LYNX service, Xpress Bus service, Fast Link service and the Road Rangers sponsored by State Farm roadside assistance program on Interstate 4 (I-4).

Based on review of the study corridor and the LYNX routing maps, currently LYNX does not provide any transit services along the Boggy Creek Road study corridor.

# 3 Existing Conditions

This section describes the analysis of traffic flow operating conditions for the existing year 2019 at the intersections and roadway segments along the study corridor. Due to COVID-19 pandemic, it was determined that traffic counts collected in the field will be low. In analyzing the year 2019 operating conditions of the intersections and roadway segments, traffic counts collected and obtained from StreetLight data for the year 2019 (pre COVID-19) were used along with the existing roadway and intersection geometry. The turning movement volumes collected were compared with previous studies, seasonally adjusted, balanced when required and used for the existing year 2019 LOS analysis for the intersections and roadway segments. The existing conditions intersection and roadway LOS analyses were performed using Synchro 10 software. The following sub-sections describe the overall process.

#### 3.1 Traffic Count Information

As mentioned in the methodology document, traffic volumes for the Boggy Creek Road study corridor for year 2019 were obtained from FDOT, Osceola County, Orange County, and StreetLight data. StreetLight data was used to collect turning movement counts for pre-COVID traffic conditions at study intersections. Figure 3 provides the location of turning movement count data collected for the study.

Copies of all traffic count data are provided in **Appendix C**.

Base Map Source: Google Maps



Fells Cove Blvd.

Narcoossee Rd.

Stop Control

Signal



**(Turning Movement Counts) Locations** Boggy Creek Road Project Traffic Analysis Report

#### 3.2 Existing Geometry

**Figure 4** provides the existing base year 2019 intersection geometry for all the intersections evaluated in this study. The existing base year 2019 intersection geometry information was obtained and verified based on field visits and aerial photographs.

The existing geometry plays a vital role in assessing the intersection level of service (LOS). LOS is a qualitative measure of how efficient a roadway or intersection operates. LOS A represents the highest traffic flow quality, while LOS E represents traffic flow at capacity. LOS F represents forced flow congested conditions. LOS B, C, and D represent a gradual degradation in traffic flow quality before reaching capacity. The existing geometry will be considered as one of the factors in determining potential intersection improvements to accommodate the travel demand.

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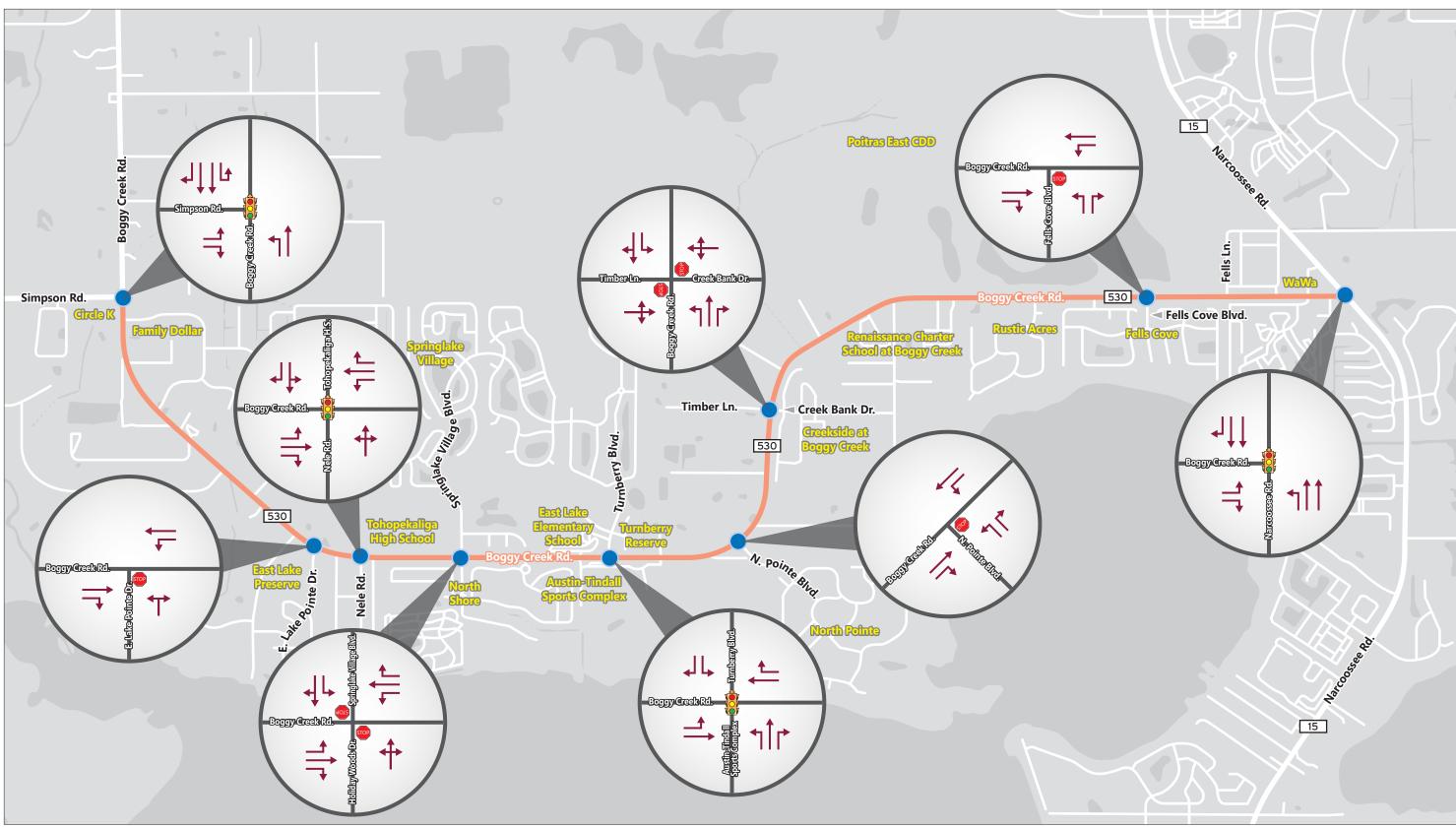






Figure 4

**Existing Base Year 2019 Geometry** Boggy Creek Road Project Traffic Analysis Report

#### 3.3 Existing Traffic Volumes

The available traffic count information from 2019 Orange County annual counts and 2019 Osceola County annual counts were used to develop existing traffic characteristics for the Boggy Creek Road study corridor and the intersecting side streets.

Based on the volume counts obtained peak hour traffic flow (K measured) and, directional split (D measured) for the roadways in the study area were derived and summarized in **Table 1**. These field-measured adjustment factors provide an indication of existing traffic flow characteristics (i.e., constrained or unconstrained flow) which will be compared against the recommended ranges that are acceptable to the FDOT's Project Traffic Forecasting Handbook.

Utilizing the turning movement volumes at each intersection and the existing measured characteristics based on the roadway traffic counts, the base year AADT volumes were derived at each study intersection. **Figure 5** provide the adjusted existing base year AADT's for the study corridor. Note that the AADT volumes for the existing base year 2019 conditions were derived by applying the K measured factor from traffic volume counts obtained from Osceola County and Orange County, to the adjusted existing turning movement volumes that were collected as part of this study.

Table 1: Traffic Volumes & Characteristics Summary (based on available 2019 traffic counts)

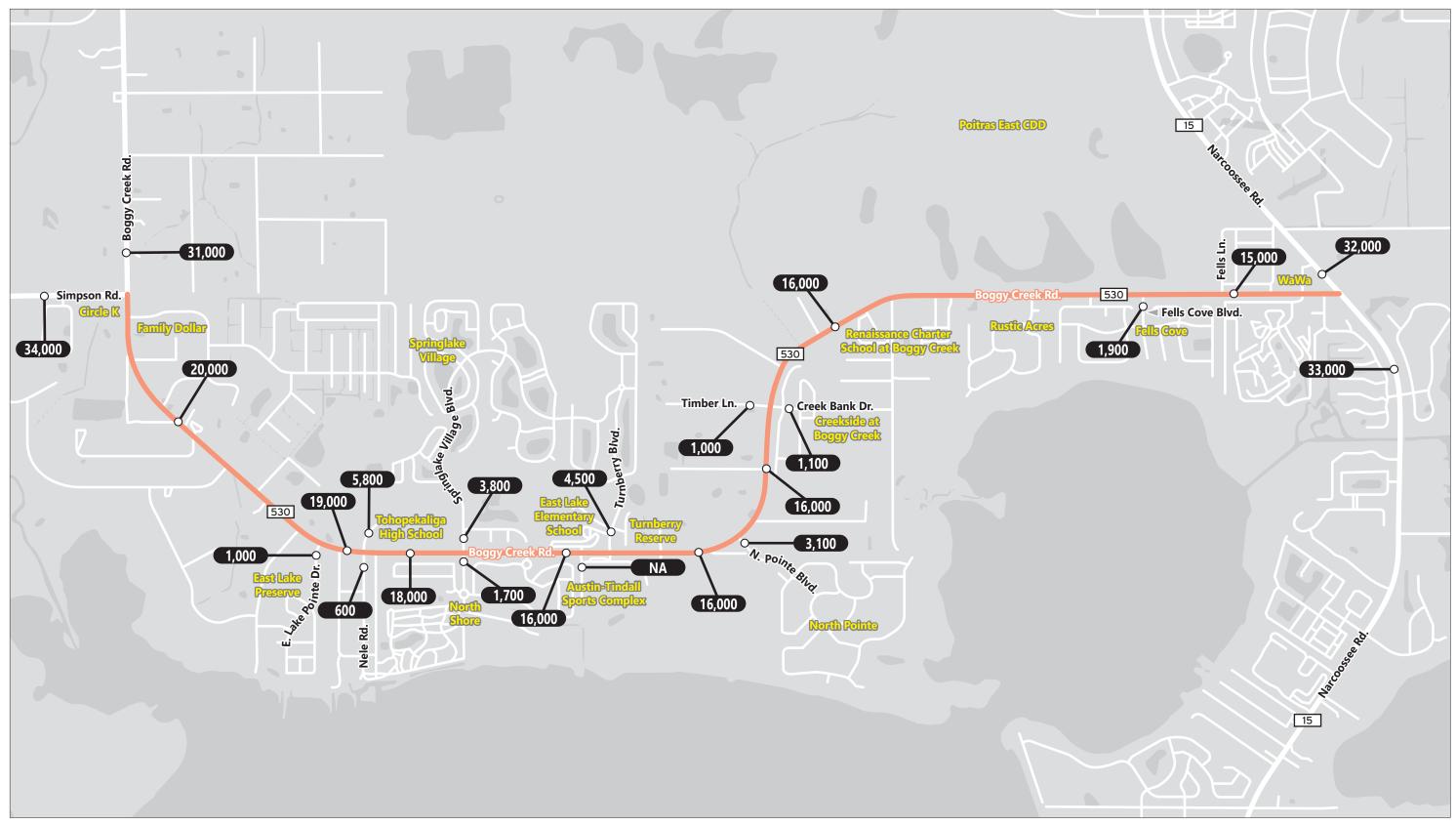
D	Data of Count	Measured Characteristics								
Roadway/Segment	Date of Count	ADT	Peak Hour	NB/EB	SB/WB	Peak Time	K Factor	D Factor	T Factor	
Boggy Creek Road										
North of Simpson Donall (Station 91.41)	11/12/2019-11/14/2019	31,712	1,941	1,225	716	7:00-8:00 AM	6.10%	63.10%	-NA-	
North of Simpson Road <sup>1</sup> (Station 8141)	11/12/2019-11/14/2019	31,/12	2,041	892	1,149	4:15-5:15 PM	6.40%	56.30%	-NA-	
Circum Bandan And Tadall Bad 2/Circle 474)	2/27/2010	10.501	1,489	620	869	7:30-8:30 AM	8.00%	58.40%	-NA-	
Simpson Road to Austin Tindall Park <sup>2</sup> (Station 474)	3/27/2019	18,581	1,409	787	622	4:45-5:45 PM	7.60%	55.90%	-NA-	
D 12/C (1 (75)	2/07/0010	15,334	1,138	737	401	7:30-8:30 AM	7.40%	64.80%	-NA-	
Austin Tindall Park to Narcoossee Road <sup>2</sup> (Station 475)	3/27/2019		1,169	458	711	4:15-5:15 PM	7.60%	60.80%	-NA-	
Narcoossee Road	·			1						
	10/1/0010 10/0/0010	2 10	2,375	1,832	543	6:30-7:30 AM	7.50%	77.10%	-NA-	
North of Boggy Creek Road <sup>1</sup> (Station 1686)	10/1/2019-10/3/2019	31,742	2,537	922	1,615	4:30-5:30 PM	8.00%	63.70%	-NA-	
	0 /07 /0010	0.5.000	2,959	2,142	817	7:30-8:30 AM	8.40%	72.40%	-NA-	
South of Boggy Creek Road <sup>2</sup> (Station 551)	3/27/2019	35,090	2,739	728	2,011	6:30-7:30 PM	7.80%	73.40%	-NA-	
Simpson Road	•	•	•				•			
)	2/12/2010	27.07.0	1,582	819	763	6:30-7:30 AM	5.70%	51.80%	-NA-	
West of Boggy Creek Road <sup>2</sup> (Station 479)	3/13/2019	27,868	1,528	673	855	5:45-6:45 PM	5.50%	56.00%	-NA-	

#### Notes:

<sup>1. 2019</sup> Orange County Annual Traffic Counts

<sup>2. 2019</sup> Osceola County Annual Traffic Counts

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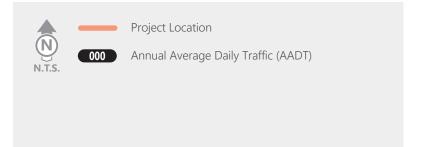




Figure 5

**Existing Base Year 2019 Annual Average Daily Traffic (AADT)**Boggy Creek Road Project Traffic
Analysis Report

#### 3.4 Year 2019 Turning Movement Counts

Turning movement counts were obtained for the AM and PM peak hour conditions for the nine (9) study intersections from StreetLight data, checked for reasonableness (with previous traffic studies) and balanced for upstream and downstream flows. The turning movement counts from the side streets were adjusted based on the previous projects and then through movements on Boggy Creek Road were adjusted for reasonableness based on engineering judgement. Raw data for the base year AM and PM peak hour turning movement volumes collected for September 2019 (represents both a pre-COVID and a non-holiday period) at the study intersections are available in **Appendix B**. The adjusted base year AM and PM peak hour turning movement volumes for the study corridor are shown in **Figure 6**.

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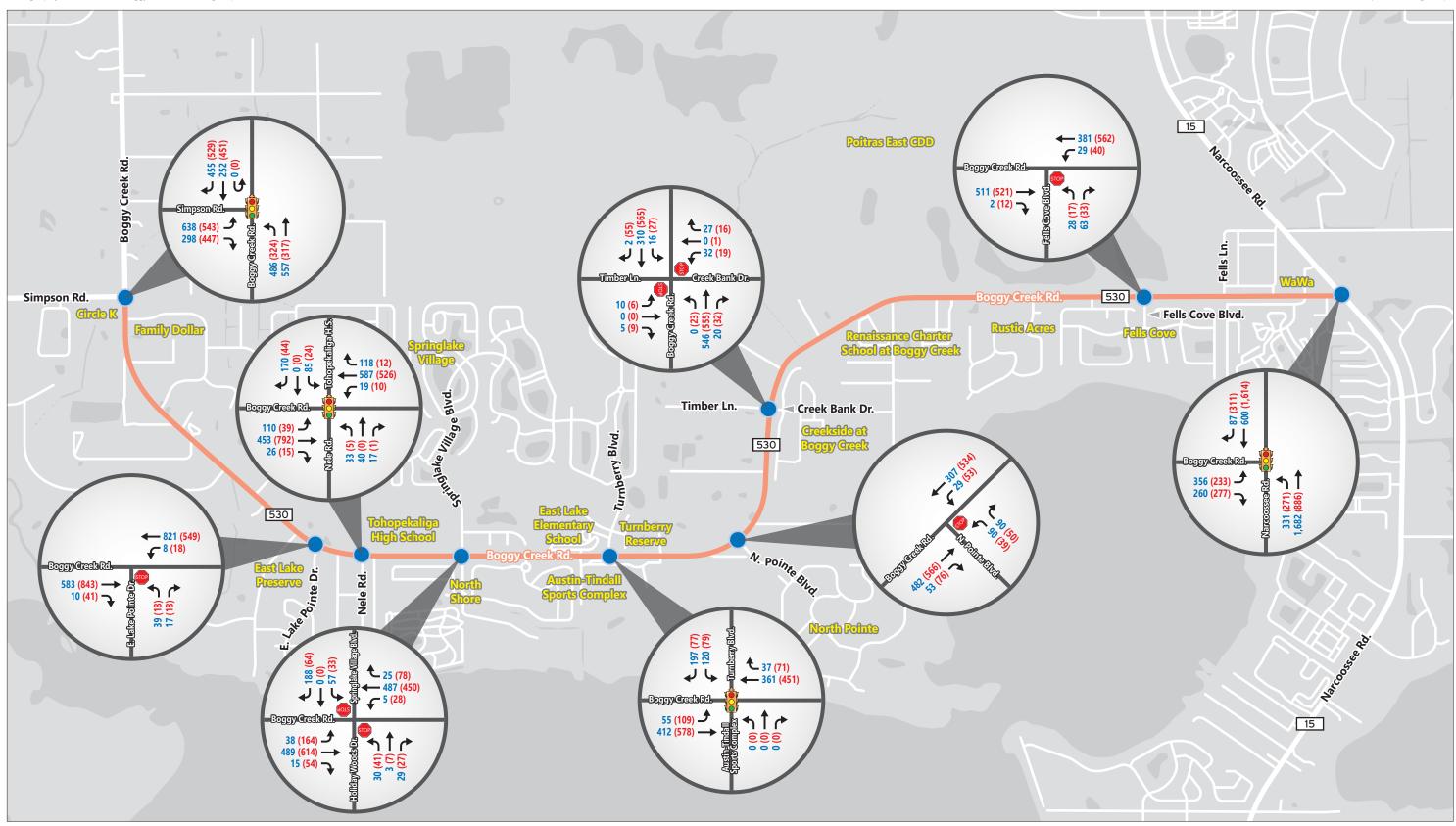






Figure 6

**Existing Base Year 2019 Turning Movement Volumes**Boggy Creek Road Project Traffic
Analysis Report

#### 3.5 2019 Year LOS Analysis

An analysis of the LOS performance based on existing geometry serves as one of the factors in identifying roadway and intersection improvements needed to accommodate existing and future travel demand.

Intersection levels of service were determined utilizing Highway Capacity Manual (HCM) 6th edition methodologies within Synchro 10.0 software. For the study roadway segments, LOS was determined using arterial speeds from Synchro 10.0. The signal timing data provided by the Osceola County were used in the intersection LOS analysis for all the signalized intersections.

Per Highway Capacity Manual (HCM 6<sup>th</sup> Exhibit 20-2), at an unsignalized intersection, an average control delay per vehicle from 35 seconds up to 50 seconds is considered LOS E condition and beyond 50 seconds is considered LOS F condition. For signalized intersections (HCM 6<sup>th</sup> Exhibit 19-8), an average control delay per vehicle from 55 seconds up to 80 seconds is considered LOS E condition and beyond 80 seconds is considered LOS F condition.

#### 3.5.1 Year 2019 Intersection LOS Analysis

The year 2019 AM and PM peak hour turning movement volumes along with existing intersection geometry and signal timings were used in the intersection LOS analysis. A summary of the traffic operations LOS analysis (Delays, v/c ratio and 95<sup>th</sup> percentile queues for each movement) for the study intersections are included in **Table 2.** 

As shown in **Table 2**, all the signalized intersections were found to operate at LOS D or better except Boggy Creek Road at Simpson Road intersection. As mentioned before, this intersection of Boggy Creek Road and Simpson Road was evaluated under "Simpson Road Improvements PD&E Services". For all the unsignalized intersections where the minor street movements operate under stop control, were found to operate at a LOS C or better except for the minor streets of Springlake Village Boulevard and East Lake Pointe Drive that were found to operate at LOS E (or LOS F).

The existing year 2019 AM and PM peak hour Synchro intersection analysis outputs are included in **Appendix D**.

Table 2: Year 2019 Peak Intersection Analysis Summary

Study Intersections along Boggy	Control Type	Movement		Year 2019 A	M Peak Hour			Year 2019 P	M Peak Hour	
Creek Road			95% Queue	v/c ratio	Delay (s)	LOS	95% Queue	v/c ratio	Delay (s)	LOS
		Overall			135.7	F			73.5	E
		EBL	1,375	1.100	132.1	F	1,025	0.970	91.2	F
		EBR	475	0.580	53.3	D	800	0.890	78.0	E
Simpson Road	Signal	NBL	1,700	1.940	490.2	F	950	1.380	253.7	F
		NBT	600	0.550	27.2	С	300	0.310	20.8	С
		SBT	175	0.170	31.9	С	300	0.290	33.2	С
		SBR	225	0.380	6.4	Α	275	0.450	<i>7</i> .1	Α
East Lake Pointe	Stop	WBL	0	0.010	8.8	Α	0	0.030	10.1	В
Drive	3.34	NBL/R	25	0.340	36.2	E	25	0.200	28.6	D
		Overall			35.9	D			10.4	В
		EBL	50	0.320	10.9	В	0	0.060	4.1	Α
		EBT	300	0.440	11.5	В	325	0.600	8.7	Α
		EBR	25	0.030	7.5	Α	0	0.010	3.8	Α
Nele Road/		WBL	0	0.040	7.9	Α	0	0.020	5.9	Α
Tohopekaliga	Signal	WBT	450	0.600	15.9	В	225	0.410	7.6	Α
High School		WBR	75	0.140	9.5	Α	0	0.010	4.7	Α
		NBL	325	1.240	232.9	F	0	0.050	54.5	D
		NBT/R	0	0.000	0.0	Α	0	0.000	0.0	Α
		SBL/T	175	0.650	65.6	E	25	0.170	55.1	E
		SBR	350	0.900	92.0	F	75	0.480     57.1       0.170     9.3       0.030     9.2	E	
	Stop	EBL	0	0.040	8.7	Α	25	0.170	9.3	Α
Springlake		WBL	0	0.010	8.5	Α	0	0.030	9.2	Α
Springlake Village		NBL/T/R	50	0.400	41.1	E	100	0.810	124.1	F
Boulevard		SBL	50	0.380	40.4	E	50	0.520	106.2	F
		SBR	50	0.350	14.9	В	0	0.110	11.9	В
		Overall			21.1	С			12.1	В
	Signal	EBL	25	0.090	6.7	Α	25	0.180	5.3	Α
		EBT	125	0.320	6.0	Α	125	0.420	4.5	Α
Turnberry Boulevard		WBT	200	0.340	12.5	В	225	0.400	10.8	В
		WBR	25	0.040	9.6	Α	25	0.080	7.7	Α
		SBL	150	0.460	47.5	D	100	0.520	50.3	D
		SBR	275	0.850	58.8	Е	100	0.570	51.4	D
North Pointe		NWL	25	0.310	22.3	С	25	0.240	32.0	D
Boulevard	Stop	NWR	25	0.170	12.6	В	0	0.100	13.0	В
		SWL	0	0.030	8.7	Α	0	0.060	9.2	Α
<del></del>		WBL/T/R	25	0.200	19.1	С	25	0.200		D
Timber Lane/ Creek Bank	Stop	EBL/T/R	0	0.060	18.3	С	0	0.070		С
Drive		NBL	0	0.000	0.0	Α .	0	0.030		Α .
		SBL	0	0.020	8.8	A .	0	0.030	73.5 91.2 78.0 253.7 20.8 33.2 7.1 10.1 28.6 10.4 4.1 8.7 3.8 5.9 7.6 4.7 54.5 0.0 55.1 57.1 9.3 9.2 124.1 106.2 11.9 12.1 5.3 4.5 10.8 7.7 50.3 51.4 32.0 13.0	A .
Fells Cove	_	WBL	0	0.030	8.6	A	0	0.040		A
Boulevard	Stop	NBL	0	0.110	20.5	С	0	0.090		D
		NBR	0	0.120	12.6	В	0	0.070	73.5 91.2 78.0 253.7 20.8 33.2 7.1 10.1 28.6 10.4 4.1 8.7 3.8 5.9 7.6 4.7 54.5 0.0 55.1 57.1 9.3 9.2 124.1 106.2 11.9 12.1 5.3 4.5 10.8 7.7 50.3 51.4 32.0 13.0 9.2 28.6 22.7 9.0 8.9 8.8 25.9 12.2 40.3 63.2 139.6 35.9 0.0 55.4	В
		Overall	750	1.000	40.7	D	200	0.040		D
		EBL	750	1.290	197.9	F	300	0.840		E
Narcoossee	C:	EBR	450	1.060	117.2	F	525	1.130		F
Road	Signal	SET	175	0.330	14.3	В	725	0.940		D
		SER	0	0.000	0.0 9.3	A	0	0.000		A
		NWL NWT	125 375	0.580 0.710		A	350 150	0.910		E
		IN AA I	3/3	0./10	11.1	В	130	0.380	0./	Α

#### 3.5.2 Year 2019 Roadway Operational Analysis

The existing year roadway segment LOS analysis was performed for AM and PM peak hours based on generalized capacities obtained from 2020 FDOT Generalized Service Volume Tables.

As shown in **Table 3**, all roadway segments along Boggy Creek Road were found to operate with an acceptable level of service (LOS) C or better condition except for the roadway segments from north of Simpson Road to Nele Road that were found to operate at an LOS F/LOS E condition during year 2019 AM peak hour conditions. During 2019 PM peak hour conditions, all roadway segments along Boggy Creek Road were found currently operating at LOS C condition or better except the roadway segments from north of Simpson Road to Springlake Village Boulevard that were found operating at LOS F/LOS E condition.

Based on the results shown in **Table 3** it can be clearly seen that the existing Boggy Creek Road from Simpson Road to Narcoossee Road needs to be widened to a four-lane divided roadway and make it safer for the traveling public.

Table 3: Year 2019 Roadway Operational Analysis Summary

	Number	Target LOS Standard	Capacity	A۸	1 Peak Ho	ur	PM Peak Design Hour		
Roadway Segments along Boggy Creek Road	of Lanes			Volume	V/C Ratio	LOS	Volume	V/C Ratio	LOS
North of Simpson Road	2 Ln	Е	880	1,195	1.360	F	980	1.110	F
Simpson Road to East Lake Pointe Drive	2 Ln	Е	880	1,043	1.190	F	898	1.020	F
East Lake Pointe Drive to Nele Road	2 Ln	E	880	829	0.940	E	861	0.980	E
Nele Road to Springlake Village Boulevard	2 Ln	E	880	724	0.820	С	832	0.950	E
Springlake Village Boulevard to Turnberry Boulevard	2 Ln	Е	880	575	0.650	С	714	0.810	С
Turnberry Boulevard to North Pointe Boulevard	2 Ln	Е	1,610	549	0.340	С	665	0.410	С
North Pointe Boulevard to Timber Lane	2 Ln	E	1,610	572	0.360	С	616	0.380	С
Timber Lane to Fells Cove Boulevard	2 Ln	E	1,610	583	0.360	С	647	0.400	С
Fells Cove Boulevard to Narcoossee Road	2 Ln	E	1,610	616	0.380	С	602	0.370	С

# 4 Crash Data Review

As part of this Alternative Evaluation Study, a safety analysis was conducted based on the approved Traffic Analysis Methodology that follows the criteria contained in the Highway Safety Manual (HSM). The safety analysis is based on the latest available five (5) years of crash data from (January 1, 2015 to December 31, 2019). The safety analysis will be based on the following methodology:

- Identifying the Crash Severity & Conditions
- Identifying the Crash Type
- Identifying the Number of Crashes by Study Intersections
- Overview of Fatal crashes
- Development of Roadway Segment Crash Frequency and Crash Rates
- Conduct Comparison of Crash Rate to FDOT Districtwide and Statewide Statistics

#### 4.1 Existing Crash Data Statistics

Crash data for nine (9) intersections on Boggy Creek Road, from Simpson Road to Narcoossee Road, were collected from Signal Four Analytics. The data covers crashes occurring between the dates of January 1, 2015 to December 31, 2019 (latest available five (5) years of data). A total of 509 crashes occurred within the study corridor during the five (5) year analysis period. **Tables 4 and 5** summarize the crash severity and conditions along the Boggy Creek Road study corridor for each year from January 2015 to December 2019.

As shown in **Table 4**, out of the 509 total crashes that occurred over the five (5) year period, there were a total of 5 fatal crashes (0.98%), 220 injury crashes (43.22%), and 284 (55.80%) property damage only crashes. In addition, a total of 7 crashes (1.38%) occurred during the five (5) year study period that involved being under the influence of Alcohol and Drugs.

Based on **Table 5**, out of the 509 total crashes that occurred, there were a total of 313 (61.5%) crashes occurred during the daylight hours, 156 crashes (30.7%) during dark conditions, 25 crashes (4.9%) during dawn conditions, and 15 (2.9%) crashes were reported to have occurred during dusk conditions. In addition, a total of 455 (89.4%) crashes occurred during dry roadway conditions with the remaining 54 (10.6%) occurring during wet and slippery roadway conditions.

Table 4: Crash Summary by Year and Severity

Year	Total Number of Crashes	Fatal Crashes	Injury Crashes	Property Damage Only Crashes	Under the Influence of Alcohol	Under the Influence of Drugs
2015	70	0	35	35	0	0
2016	75	2	30	43	1	1
2017	88	1	36	51	2	0
2018	151	0	67	84	3	0
2019	125	2	52	71	0	0
2015-2019	509	5	220	284	6	1
Average per Year	101.8	1.0	44.0	56.8	1.2	0.2
Percent		0.98%	43.22%	55.80%	1.17%	0.20%

Table 5: Crash Summary by Year and Conditions

Year	Total Number of Crashes	Dry Conditions	Wet Conditions	Daylight Conditions	Dawn Conditions	Dusk Conditions	Dark Conditions
2015	70	66	8	33	3	2	32
2016	75	66	9	40	5	2	28
2017	88	78	10	59	3	2	24
2018	151	136	15	105	6	5	35
2019	125	113	12	76	8	4	37
2015-2019	509	455	54	313	25	15	156
Average Per Year	101.8	91.0	10.8	62.6	5.0	3.0	31.2
Percent		89.4%	10.6%	61.5%	4.9%	2.9%	30.7%

#### 4.2 Existing Crash Data by Crash Type

**Table 6** shows the summary of the crashes by crash types. Per the summary, Rear End crashes accounted for most crashes (41.26% of total) within the study corridor followed by Left Turn crashes (26.13% of total), Off Road crashes (7.86% of total), and Other crashes (11.00% of total). As shown in **Table 6**, there were a total of 4 crashes (0.79% of total) that involved pedestrian and bicycles that were reported in the last five (5) years.

Table 6: Crash Summary by Year and Crash Type

Crash Type	2015	2016	2017	2018	2019	Total	Average per Year	Percent
Rear End	19	28	41	64	58	210	42.0	41.26%
Head On	1	1	1	1	2	6	1.2	1.18%
Sideswipe	1	4	8	2	9	24	4.8	4.72%
Roll-Over	4	1	3	2	0	10	2.0	1.96%
Angle	1	0	3	4	1	9	1.8	1.77%
Left Turn	23	22	21	37	30	133	26.6	26.13%
Right Turn	4	2	3	3	0	12	2.4	2.36%
Off Road	8	6	2	14	10	40	8.0	7.86%
Pedestrian & Bicycle	1	1	0	1	1	4	0.8	0.79%
Animal	1	1	1	1	1	5	1	0.98%
Other	7	9	5	22	13	56	11.2	11.00%
Total	70	75	88	151	125	509	101.8	100.00%

Note: "Other" is defined as types of crashes not presented in the table or categorized as "other" in the crash report

#### 4.3 Existing Crash Data by Intersections

For this PTAR study, a review was performed for the crash data over the five (5) year study period at the study intersections. **Tables 7** and **8** summarizes the crash severity and conditions at the study intersections along the Boggy Creek Road study corridor for each year from January 2015 to December 2019.

As shown in **Table 7**, out of the 360 total intersections crashes that occurred over the five (5) year period at the study intersections, there was a total of 1 fatal crash (0.28%), 159 injury crashes (44.12%), and 200 (55.60%) property damage only crashes.

Based on **Table 8**, out of the 360 total intersection crashes that occurred, there were a total of 212 (58.9%) crashes occurred during the daylight hours, 120 crashes (33.4%) during dark conditions, 16 crashes (4.4%) during dawn conditions, and 12 (3.3%) crashes were reported to have occurred during dusk conditions. In addition, a total of 320 (88.9%) crashes occurred during dry roadway conditions with the remaining 40 (11.1%) occurring during wet and slippery roadway conditions

In addition, as shown in **Tables 7 and 8**, it was found that the signalized intersection of Simpson Road had the highest number of crashes at a total of 172. The signalized intersection of Narcoossee Road was found to have the next highest number of crashes with 123 crashes. The third highest number of crashes was found to occur at the signalized intersection of Turnberry Boulevard/Austin Tindall Park at 23 crashes. The remaining study intersections were found to have less than 15 crashes that occurred over the five (5) year study period. The two highest-crash intersections, the signalized intersections at Simpson Road and Narcoossee Road, accounted for 82% of the corridor's intersection crashes. As such the crash trends at each of these intersections were examined in further detail.

#### 4.3.1 Simpson Road

At the intersection with Simpson Road, the leading crash types are rear end and left turn crashes. These crash types are also slightly overrepresented when compared to the averages at intersections along the corridor. Rear end crashes account for 47% of crashes at this intersection, but only 41% of the crashes at other intersections on the corridor. Left turn crashes make up 35% of crashes at this intersection, but only 27% of crashes at other intersections on the corridor.

Generally, lighting conditions appear to be contributing to the occurrence of crashes in the corridor. The statewide average for crashes occurring in non-daylight (dark, dawn, and dusk) conditions over the past four years has hovered around 27%; the average percentage of crashes occurring in such conditions at intersections in this corridor is 41%. At this intersection, non-daylight crashes accounted for 48% of crashes,

indicating an overrepresentation of crashes occurring during dark, dawn, and dusk conditions. Intersection lighting does not appear to be provided at this intersection.

Potential contributing factors to the occurrence of crashes at this intersection are listed below:

- Intersection lighting does not appear to be provided.
- Gaps for the northbound left may be difficult to find or judge in the peak periods when the movement is permitted.
- The NB and SB outside through lanes merges with the inside through lane just beyond the intersection.
- The storage for the eastbound left turn lane does not appear to be adequate.

### 4.3.2 Narcoossee Road

At the intersection with Narcoossee, rear end and left turn crashes are the leading crash types, although neither are overrepresented when compared to the other intersections along the corridor. Though accounting for a relatively small percentage of intersection crashes, both sideswipe crashes and "other" crashes are overrepresented at this intersection. Sideswipe crashes account for 7% of crashes at this intersection, but only 2% of the crashes at other intersections on the corridor. Other crashes make up 12% of crashes at this intersection, but only 8% of crashes at other intersections on the corridor.

A number of the sideswipe crashes appear to be caused by improper lane changing on Narcoossee, though a couple crashes appear to be related to the free-flow southbound right turn lane that feeds into the right turn only lane on westbound Boggy Creek Road. No clear trends were gleaned from the "other" crash types other than a couple crashes involving an illegal southbound U-turn at the intersection. Crashes occurring with wet pavement conditions are also overrepresented when comparing to the other corridor intersections (15% versus 10%). At this intersection, non-daylight crashes accounted for 35% of crashes, indicating an overrepresentation of crashes occurring during dark, dawn, and dusk conditions. Intersection lighting is provided in one corner of this intersection.

Potential contributing factors to the occurrence of crashes at this intersection are listed below:

- Intersection lighting may not be adequate.
- Retroreflective backplates are not installed on NB and SB approaches.
- The southbound right turn lane free flows into a drop lane.
- Southbound u-turns are restricted, and no turn lane is provided, though crash history indicates drivers
  are attempting this maneuver from the inside through lane.

- The pavement at this intersection may be slippery when wet due to inadequate drainage or worn pavement.
- Gaps for the northbound left may be difficult to find or judge in the peak periods when the movement is permitted.

Table 7: Intersection Crash Summary by Severity

No.	Intersection	Control Type	Total Number of Crashes	Fatal Crashes	Injury Crashes	Property Damage Only Crashes
1	Simpson Road	Signal	172	0	82	90
2	East Lake Pointe Drive	Stop	2	0	1	1
3	Nele Road/Tohopekaliga High School	Signal	8	0	1	7
4	Springlake Village Boulevard/Holiday Woods Drive	Stop	15	0	6	9
5	Turnberry Boulevard/Austin Tindall Park	Signal	23	1	9	13
6	North Pointe Boulevard	Stop	7	0	3	4
7	Timber Lane/Creek Bank Drive	Stop	5	0	1	4
8	Fells Cove Boulevard	Stop	5	0	3	2
9	Narcoossee Road	Signal	123	0	53	70
	Total		360	1	159	200

**Table 8: Intersection Crash Summary by Conditions** 

No.	Intersection	section Number Cond		way itions	Lighting Conditions			
		of Crashes	Dry	Wet	Daylight	Dawn	Dusk 6 0 0 0 0 0 0 12	Dark
1	Simpson Road	172	156	16	89	8	6	69
2	East Lake Pointe Drive	2	2	0	1	0	0	1
3	Nele Road/Tohopekaliga High School	8	7	1	4	3	0	1
4	Springlake Village Boulevard/Holiday Woods Drive	15	12	3	9	0	0	6
5	Turnberry Boulevard/Austin Tindall Park	23	22	1	1 <i>7</i>	2	0	4
6	North Pointe Boulevard	7	6	1	6	0	0	1
7	Timber Lane/Creek Bank Drive	5	5	0	3	0	0	2
8	Fells Cove Boulevard	5	5	0	3	0	0	2
9	Narcoossee Road	123	105	18	80	3	6	34
	Total	360	320	40	212	16	12	120

### 4.4 Existing Crash Data by Segments

**Tables 9** and **10** summarizes the crash severity and conditions at the study segments along the Boggy Creek Road study corridor from January 2015 to December 2019.

As shown in **Table 9**, out of the 149 total crashes that occurred over the five (5) year period at the study segments there was a total of 4 fatal crash (2.68%), 62 injury crashes (41.61%), and 83 (55.70%) property damage only crashes.

Based on **Table 10**, out of the 149 total segment crashes that occurred, there were a total of 100 (67.11%) crashes occurred during the daylight hours, 36 crashes (24.16%) during dark conditions, and remaining crashes during dawn or dusk conditions. In addition, a total of 135 (90.60%) crashes occurred during dry roadway conditions with the remaining 14 (9.40%) occurring during wet and slippery roadway conditions.

**Table 9: Segment Crash Summary by Severity** 

Segments along Boggy Creek Road	Total Number of Crashes	Fatal Crashes	Injury Crashes	Property Damage Only Crashes
Simpson Road to East Lake Pointe Drive	68	0	27	41
East Lake Pointe Drive to Nele Road/Tohopekaliga High School	14	2	3	9
Nele Road/Tohopekaliga High School to Springlake Village Boulevard/Holiday Woods Drive	12	0	4	8
Springlake Village Boulevard/Holiday Woods Drive to Turnberry Boulevard/Austin Tindall Park	4	0	1	3
Turnberry Boulevard/Austin Tindall Park to North Pointe Boulevard	1	0	0	1
North Pointe Boulevard to Timber Lane/Creek Bank Drive	11	0	7	4
Timber Lane/Creek Bank Drive to Fells Cove Boulevard	27	2	14	11
Fells Cove Boulevard to Narcoossee Road	12	0	6	6

**Table 10: Segment Crash Summary by Conditions** 

Segments along Boggy Creek Road		lway itions	Lighting Conditions			
	Dry	Wet	Daylight	Dawn         Dusk           2         3           0         0           2         1           0         0           0         0           0         0           5         0	Dark	
Simpson Road to East Lake Pointe Drive	61	7	51	2	3	12
East Lake Pointe Drive to Nele Road/Tohopekaliga High School	12	2	10	0	0	4
Nele Road/Tohopekaliga High School to Springlake Village Boulevard/Holiday Woods Drive	10	2	7	2	1	2
Springlake Village Boulevard/Holiday Woods Drive to Turnberry Boulevard/Austin Tindall Park	4	0	3	0	0	1
Turnberry Boulevard/Austin Tindall Park to North Pointe Boulevard	1	0	0	0	0	1
North Pointe Boulevard to Timber Lane/Creek Bank Drive	11	0	6	0	0	5
Timber Lane/Creek Bank Drive to Fells Cove Boulevard	24	3	15	5	0	7
Fells Cove Boulevard to Narcoossee Road	12	0	8	0	0	4

### 4.5 Overview of Fatal Crashes

The following provides more details on the cause of five (5) fatal accidents occurred over the five (5) year study period from January 2015 to December 2019 based on the crash reports obtained from Signal Four Analytics:

- 1. The first fatality crash occurred during August 2016 and involved the motorist driving under the influence of alcohol and drugs. Based on the crash report, this was a single vehicle accident that included a driver and one passenger. The vehicle was travelling east along Boggy Creek Road near the intersection of East Lake Pointe Road and as the driver of the vehicle failed to maintain control of the vehicle, the vehicle ran off the roadway and collided with a tree. The crash occurred in dark (unlighted) and dry conditions.
- 2. The second fatality involved improper vehicle operation and occurred during September 2016. While travelling east along Boggy Creek Road approaching the intersection of High Plains Lane, the driver failed to safely navigate the curvature of the roadway and crossed into the westbound travel lanes causing a head-on collision with another vehicle. The crash occurred in dark (unlighted), and dry conditions.
- 3. The third fatality occurred during July 2017, with the driver heading east along Boggy Creek Road approaching the intersection of East Lake Pointe Road within the roadway curvature. The driver at fault failed to navigate the curve and crossed over in the westbound travel lanes into oncoming traffic for a head-on collision. The crash occurred in daytime, and dry conditions.
- 4. The fourth fatality occurred during October 2019, involved a motorcyclist travelling east along Boggy Creek Road after passing the intersection of High Plains Lane. The motorcyclist attempted to overtake and pass a vehicle and collided with another vehicle approaching in the westbound travel lanes. This resulted in a 4-vehicle crash due to improper lane change and passing. The crash occurred in dark (unlighted), in slippery, wet conditions.
- 5. The final fatality occurred during October 2019. The driver at fault was travelling east along Boggy Creek Road failed to stay within the appropriate travel lane while negotiating the curvature of the roadway resulting in a head-on collision. The crash occurred in dark (unlighted), and dry conditions.

Overall, the fatal crashes are similar in that four out of five fatalities were head-on collisions, and four out of five occurred during nighttime, dark unlighted conditions. Potential countermeasures to incorporate into the roadway design include providing corridor lighting, installing a raised median, and providing horizontal alignment warning signs on the corridor's curves, particularly at East Lake Pointe Drive and High Planes Lane.

### 4.6 Crash Frequency & Crash Rate Development

Based on the Boggy Creek Road Traffic Methodology, crash rates and frequencies along the study corridor were developed based on the five (5) year crash information obtained from Signal Four Analytics.

**Table 11** shows the summary of the crash rate compared to the latest available statewide average crash rates for the segment types. The latest 5-year statewide crash rates were available are for 2014-2018, and are provided in **Appendix E**. The crash rates are expressed in the number of crashes per million vehicles traveled, based on the following equation:

$$Crash \ Rate \ of \ Segment = \frac{Total \ Number \ of \ Crashes \ x \ 1,000,000}{AADT \ x \ 365 \ x \ Number \ of \ Years \ x \ Length \ of \ Roadway \ Segment}$$

As shown in **Table 11**, along the Boggy Creek Road study corridor, the roadway segment from Fells Cove Boulevard to Narcoossee Road was found to have the highest crash rate at 6.58 per million vehicle miles traveled with a total of 137 crashes. The second and third highest crash rates of 5.08 (239 crashes) and 2.53 (50 crashes) per million vehicle miles traveled were found to be along the roadway segments from Simpson Road to East Lake Pointe Drive, and East Lake Pointe Drive to Springlake Village Boulevard/Holiday Woods Drive, respectively. The roadway segment from Springlake Village Boulevard/Holiday Woods Drive was found to have the lowest crash rate at 0.87 per million vehicle miles traveled with a total of 83 crash occurrences.

It is to be noted that FDOT District Five and FDOT statewide crash rates for a similar facility is 3.10 and 3.65, respectively. Based on this information portions of Boggy Creek Road from Simpson Road to East Lake Pointe Drive and from Fells Cove Boulevard to Narcoossee Road can be categorized as high crash segments. Also, there were five (5) fatalities (explained in Section 4.4) along the study corridor within the last five years. This clearly shows that the existing Boggy Creek Road from Simpson Road to Narcoossee Road needs to be widened to a four-lane divided roadway and make it safer for the traveling public.

Table 11: Crash Frequency & Crash Rate Summary

Roadway Segment	AADT	Number of Crashes	Segment Length	Crash Frequency	Crash Rate
Simpson Road to East Lake Pointe Drive	20,000	239	1.29	47.8	5.08
East Lake Pointe Drive to Springlake Village Boulevard/Holiday Woods Drive	19,000	50	0.57	10	2.53
Springlake Village Boulevard/Holiday Woods Drive to Fells Cove Boulevard	16,000	83	3.28	16.6	0.87
Fells Cove Boulevard to Narcoossee Road	15,000	137	0.76	27.4	6.58

As requested by Osceola County, the year 2020 crash data was obtained from Signal Four analytics and provided in the **Appendix E**. A total of 77 crashes occurred within the study corridor during the year 2020 (till November). Out of the 77 total crashes that occurred, there were a total of 59 (77%) crashes occurred during the daylight hours and 18 (23%) crashes were reported to have occurred during dark conditions. In addition, a total of 70 (91%) crashes occurred during dry roadway conditions with the remaining 7 (9%) occurring during wet and slippery roadway conditions. Rear End crashes accounted for most crashes (45% of total) within the study corridor followed by Left Turn crashes (22% of total), Off Road crashes (10% of total), and Other crashes (9% of total). There was a total of 2 crashes (3% of total) related to pedestrian and bicycles that were reported during the year 2020 (till November).

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### Development of Design Characteristics

The design traffic characteristics established in this section will be used in developing the Annual Average Daily Traffic (AADT) projections for the roadway segments in the future year conditions. These characteristics are determined based on the procedures outlined in the FDOT's Project Traffic Forecasting Handbook, dated January 2019.

### 5.1 Standard K Factor

The existing measured traffic characteristics for the study corridor are shown in **Table 1** for the mainline segments and major minor streets based on existing base year traffic counts. Based on the evaluation of the existing measured characteristics and the FDOT recommended Standard K value of 9.0%, a standard K Factor of 9.0% is recommended to be used for Boggy Creek Road per the Boggy Creek Road Traffic Analysis Methodology.

### 5.2 D Factor

The peak hour directional percent factor (D) represents the percentage of traffic during the peak hour that travels in the roadway's peak direction. This directional distribution factor, D factor, is based on the median value of the directional factors for the highest 200 hours of volumes for each continuous count station. In determining this factor for the study corridor and side streets, statewide guidelines obtained from the 2019 FDOT Project Traffic Forecasting Handbook for D factor were compared to D factors obtained from the field collected traffic counts.

The measured D for the study area roadways is shown in **Table 1**, respectively. The average of the measured D factors for the major streets of Boggy Creek Road, Narcoossee Road, and Simpson Road were found to be at 59.9%, 71.7%, and 53.2%, respectively.

**Table 12** provides the current recommended range of D values from the FDOT Project Traffic Forecasting Handbook (2019) for an urbanized and rural arterial roadway.

Table 12: Recommended Range of D Values

Area &	Value	Source
Highway Type	value	FDOT <sup>1</sup>
	Low	50.8%
Urban Arterial	Medium	57.9%
	High	67.1%
	Low	51.1%
Rural Arterial	Medium	58.1%
	High	79.6%

#### Notes:

(1) Source: Table 2-2: FDOT Project Traffic Forecasting Handbook, January 2019

For this PTAR study, a D factor of 58.9% is recommended for Boggy Creek Road based on the average of the FDOT medium recommended and measured characteristics. Similarly, for Simpson Road a D factor of 55.6% is recommended based on the average of the existing measured characteristics and FDOT medium recommended D factor. For Narcoossee Road the existing measured D Factor was found to be an average value of 71.7%. However, as growth in this area is anticipated a D factor of 64.8% is recommended for Narcoossee Road based on the average of measured D factor and FDOT recommended medium value.

### 5.3 T & DHT Factors

The daily truck factor, T factor represents the percentage composition of medium sized and heavy trucks occurring in the traffic stream for a 24-hour period. The design hour truck, DHT, is the percentage of truck traffic during the peak hour and is recommended as one-half of the T factor in the Project Traffic Forecasting Handbook.

For this study, a T factor of 7.5% and DHT factor of 4.0% is recommended along the Boggy Creek Road (CoSite 927050) study corridor based on the Florida Traffic Online information and various other studies conducted along or in the vicinity of the study corridor. For Simpson Road (CoSite 927049) and Narcoossee Road (CoSite 927045) a T factor of 8.7% and 6.9% and DHT factor of 4.5% and 3.5% are recommended respectively. For the remaining minor side streets due based on the land uses being more residential, it is recommended to use a T factor of 2.0%.

### **5.4** Recommended Design Traffic Characteristics

Based on the afore- mentioned discussions and information, **Table 13** provides a summary of the recommended design traffic characteristics within the study corridor to be utilized for this PTAR.

**Table 13: Recommended Design Traffic Characteristics** 

	Recommended Design Characteristics						
Roadway	K	D	T	DHT			
	Factor	Factor	Factor	Factor			
Boggy Creek Road	9.0%	58.9%	7.5%	4.0%			
Narcoossee Road	9.0%	64.8%	6.9%	3.5%			
Simpson Road	9.0%	55.6%	8.7%	4.5%			
Other Side Streets	Existing	Existing	2.0%	Existing			

# 6 Sub-Area Model Validation

### 6.1 Introduction

The traffic model applied for this study is based on the latest adopted Central Florida Regional Planning Model (CFRPM) version 6.1 with Cost Feasible Network for the year 2020 and future year 2040. The CFRPM model is an evaluation tool that represents land use and transportation interaction to assess the capability of the region's highway and transit networks to support anticipated growth. A sub-area validation was performed for the CFRPM year 2019 in support of this PTAR. The sub-area validation model revisions for the validated base year 2019 model will then be applied to the future year 2040 CFRPM model that will be utilized for this study. The sub-area model validation study area map is illustrated in Figure 7.

### 6.2 Base Year 2019 Model Validation

The model validation for the Boggy Creek Road Alternative Evaluation Study was performed to achieve better results in forecasting the future year traffic projections for the roadways within the study corridor. The model refinement was performed by fine tuning the network and land uses using the guidelines identified in the Travel Model Validation and Reasonable Checking Manual Second Edition provided by the Federal Highway Administration and FSUTMS-Cube Framework Phase II, Model Calibration and Validation Standards prepared by the FDOT System Planning Office.

In general, model validation is performed to ensure that the model is accurate enough to forecast the number of lanes required to handle the future project volumes. Validation criteria including volume over count (v/c) ratios and root mean square error (RMSE) were used to assess the accuracy of the base year model.



Figure 7: Sub-Area Model Validation Study Area

### 6.2.1 Base Year 2019 Model Adjustments

The validation base year 2019 model for the Boggy Creek Road is based on CFRPM6.1 Cost Feasible 2020 network. The Socio-Economic (SE) data for the base year 2019 model was initially developed by interpolating between the CFRPM Year 2010 SE data and CFRPM Year 2040 SE data. The 2019 SE data for the land use traffic analysis zones (TAZ's) within the vicinity of the sub-area model study area was developed based on review and comparison of land use intensity data information available from the Osceola and Orange County Property Appraisers website.

The validation base year 2019 model network in the sub-area study limits were checked and compared with all improvements and roadway conditions within the study corridor. The following summarizes the model network changes that were adjusted for validation purposes:

- Adjusted and modified the TAZ centroid connections for TAZ 974, TAZ 982, TAZ 986, TAZ 988, TAZ 989, TAZ 994, TAZ 1072, TAZ 1077, TAZ 1130, TAZ 1131, TAZ 1132, TAZ 1300, and TAZ 1301.
- Modified Boggy Creek Road between Simpson Road and Lake Nona Boulevard from 4 Lanes to 2 Lanes
- Modified Simpson Road between Osceola Parkway and Boggy Creek Road from 4 Lanes to 2 Lanes
- Modified Simpson Road between Osceola Parkway and Royal Palm Drive from 6 Lanes to 2 Lanes
- Modified Simpson Road between Royal Palm Drive and Buenaventura Boulevard from 6 Lanes to 4 lanes
- Modified Tavistock Lake Boulevard between Lake Nona Boulevard and Narcoossee Road from 4 Lanes to 2 Lanes
- Modified J. Lawson Boulevard to reflect the correct roadway alignment and to include a roadway connection with Boggy Creek Road
- Changed the facility type of Boggy Creek Road from Narcoossee Road to Simpson Road from 43 to 41
- Changed the facility type of Boggy Creek Road from Simpson Road to SR 417 (Central Florida Greeneway) from 46 to 41
- Changed the facility type of East Osceola Parkway from Buenaventura Boulevard to Simpson Road from 23 to 21
- Coded Lake Nona Boulevard between Boggy Creek Road and Medical City Drive as a 4-lane roadway with facility type 26 and facility type 46

- Changed the speed on Tavistock Lake Boulevard between Lake Nona Boulevard and Narcoossee
   Road from 45 miles per hour to 35 miles per hour
- Changed the SR 417 Toll Rates at the Lake Nona NB on ramp and SB off ramp from \$0.75 to \$0.50 and the at the Boggy Creek Road Mainline Toll Plaza from \$1.25 to \$0.75

### 6.2.2 Base year 2019 Model Validation Results

The validation of a traffic model involves verifying various statistics, most of which are related to actual ground counts that have been taken on various links throughout the highway network. Measures of effectiveness including the ratio of assigned volume-over-count volume on links, Percent Error by Facility Type, Percent Error by Volume Group, and Percent RMSE have been used in this study to evaluate whether the base year 2019 model has been validated within the allowable limits.

### 6.2.3 Base Year 2019 Volumes and Model Volumes

Traffic Online, 2019 Orange County counts, 2019 Osceola County counts, and the 2019 CFX Traffic Data and Statistics Manual. The Peak Season Weekly Average Daily Traffic (PSWADT) obtained from CFRPM was converted to AADT using the 2019 Model Output Conversion Factor MOCF (from Florida Traffic Online 2019) of 0.97 for Osceola County and 0.98 for Orange County. The summary of the traffic count information and MOCF factors are included in **Appendix F**.

### 6.2.4 Model Measures of Effectiveness

To determine the accuracy of the validated sub-area model, Volume-Over-Count (V/C) ratios statistics were compared against the thresholds set by FDOT. For this study, nineteen (19) roadway segments were used to evaluate and compare the assigned volumes to counts within the study area. **Tables 14** and **15** summarizes the percent deviation error for facility types and volume groups for the before and after model validation scenarios along the Boggy Creek Road study corridor.

The percent deviation error is defined as ((Year 2019 model assignment in AADT – Year 2019 actual count in AADT)/(Year 2019 actual count in AADT)). Based on the results shown in **Tables 14 and 15**, the facility types and volume groups are within the acceptable and preferable FDOT standards.

Table 14: Volume-over-Count Ratio and Percent Error by Facility Type

Empilitus Turno	FDOT S	tandards	Base Year 2019 Model Validation		
Facility Type	Acceptable	Preferable	Before	After	
Freeway (FT1X, FT8X, FT9X)	+/- 7%	+/- 6%	-41.51%	4.35%	
Divided Arterial (FT2X)	+/- 15%	+/- 10%	21.48%	4.34%	
Undivided Arterial (FT3X)	+/- 15%	+/- 10%	N/A	N/A	
Collector (FT 4X)	+/- 25%	+/- 20%	-9.82%	-2.81%	
One Way (FT6X)	+/- 25%	+/- 20%	N/A	N/A	

Table 15: Percent Error by Volume Group

Valuus Cusuus	FDOT St	andards	Base Year 2019 Model Validation		
Volume Group	Acceptable	Preferable	Before	After	
< 10,000 Volume	50%	25%	5.61%	-7.51%	
10,000 - 30,000	30%	20%	-5.83%	-4.35%	
30,000 - 50,000	25%	15%	4.56%	3.53%	
50,000 - 65,000	20%	10%	NA	NA	
65,000 - 75,000	15%	10%	-31.43	8.32	
> 75,000	10%	5%	-76.89%	-2.09%	

### 6.2.5 Root Mean Square Error (RMSE)

The percent RMSE is another aggregate measure of how well the model has been validated against ground counts and a commonly reported statistic in model validation. RMSE, is a measure of dispersion, tends to normalize model error better than volume-over-count ratios that allow for high ratios to offset low ratios.

Table 16 summarizes the RMSE statistic for the validated model and the acceptable and preferable thresholds set by FDOT. As shown in Table 16, the % RMSE values for all the volume groups are well within the acceptable percentages set by FDOT and well within the preferable percentage set by FDOT. In addition, the RMSE values shown show that the adjusted network has been fine-tuned to replicate the ground counts within the sub-are model study area.

Table 16: Percent Root Mean Square Error by Volume Group

Volume Group	% RMSE	Acceptable % RMSE	Preferable % RMSE
1 - 5,000:	N/A	100%	45%
5,000 - 10,000:	9.12%	45%	35%
10,000 - 15,000:	24.60%	35%	27%
15,000 - 20,000:	10.71%	30%	25%
20,000 - 30,000:	3.74%	27%	15%
30,000 - 50,000:	4.92%	25%	15%
50,000 - 60,000:	N/A	20%	10%
> 60,000	4.58%	19%	10%
Areawide	2.87%	45%	35%

### 6.3 Base Year 2019 Model Validation Conclusion

The validation results show that the adjusted network has been fine-tuned to replicate the ground counts within the Boggy Creek Road study corridor. Based on the validation efforts, the sub-area model is considered acceptable to be utilized in projecting and/or estimating future travel demands within the study area.

The base year 2019 Model plots for the before and after validation are shown in Appendix F.

### **7** Future Traffic Forecasts

The development of traffic projections for the Boggy Creek Road study corridor required the examination of historical growth, proposed development levels within the corridor vicinity, and a basic understanding of local traffic circulation patterns and travel characteristics of the corridor. As such, the following sources were used to derive reasonable future traffic forecasts for the study corridor.

- Travel Demand Model: The CFRPM version 6.1 model was used in the traffic forecasting process.
- Population Projections: The population estimates obtained from the most current Bureau of Economic and Business Research (BEBR), Florida Population Studies, Volume 53 Bulletin 186, dated January 2020 was used.
- Historical Traffic Trends Analysis: Historical traffic trends analysis based on least squares regression analysis was conducted for the study roadways using traffic data from the 2019 Florida Traffic Online (FTO) and the 2019 Osceola County and Orange County Traffic Count Programs.

### 7.1 Study Alternatives

For this study, a No-Build alternative and a Build alternative will be evaluated. The No-Build alternative evaluates the existing two-lane configuration of Boggy Creek Road, whereas the Build alternative evaluates a four-lane configuration of Boggy Creek Road within the study limits. Both the No-Build and Build alternatives included all the programmed and planned improvements near the study area as described below.

### 7.2 Travel Demand Model

The year 2040 CFRPM version 6.1 model is the appropriate travel-forecasting tool for generating future daily traffic volume projections during a typical weekday in the predefined project sub-area based on the FSUTMS-Cube Framework Phase II – Model Calibration Standards. The base year model (the year 2019) was validated to meet all the applicable performance criteria. As the first step, the validation adjustments that were applied to the base year 2019 model were carried over to the future year 2040 model.

### 7.2.1 Socio-Economic (SE) Data

For future conditions, two model runs were conducted, 1) a year 2040 No-Build alternative and 2) a year 2040 Build alternative. Based on the input from Osceola County and FDOT, the 2040 Socio-Economic (SE) data for the model subarea was based on the CFRPM version 7 SE data. CFRPM version 7 is the upcoming update to version 6 and was used to develop the 2045 MetroPlan Orlando Long Range Transportation Plan (LRTP).

CFRPM version 7 is currently under development, but the SE data is available for corridor studies. The year 2040 SE data from CFRPM version 7 was developed for the model subarea by interpolating between the latest 2015 and 2045 SE data in CFRPM version 7 (that was provided by FDOT District 5 in September 2020). The SE data for the rest of the CFRPM version 6.1 model for the year 2040 was not changed and is based on the approved 2040 SE data that is available for CFRPM version 6.1.

### 7.2.2 Nearby Developments

The following developments near the Boggy Creek Study corridor provided by Osceola County were reviewed and included as part of the travel demand model effort. The following provides a list of Traffic Impact Analysis (TIA) Reports provided by Osceola County for this study.

- Boggy Creek Property Subdivision Plan
- East Lake Preserve and the Austin Tindall Sports Complex Expansion
- Boggy Creek Fish Camp Redevelopment
- Creekside Residential Development and Osprey Ridge
- Split Oak Estates
- Poitras N-7

### 7.2.3 Programmed & Planned Improvements

Before conducting the year 2040 model run, the future year travel demand model network was reviewed and adjusted accordingly based on coordination with the stakeholders including Osceola County, FDOT, and Central Florida Expressway Authority (CFX). The future year travel demand model considered all the programmed and planned improvements in the vicinity of the study area that are consistent with regional transportation plans including the following:

- FDOT Five Year Work Program
- FDOT Strategic Intermodal System (SIS) plans
- Committed improvements from local and private sources

- Adopted LRTPs and Comprehensive Plans
- CFX Five Year Work Plan
- CFX 2040 Master Plan

The following **Table 17** illustrates the programmed and planned improvements and was developed in coordination with the project stakeholders. As part of the coordination process, CFX provided the proposed toll rates for Osceola Parkway Extension. The base year 2019 and horizon year 2040 model plots are included in **Appendix F.** 

**Table 17: Programmed and Planned Improvements List** 

CFX Sk 417 Norcosee Road Sk 528 Widen to 6 Lanes with Auxiliary Lones Design & CST ICST anticipated 2023)  FTE Florida's Tumpike Osceola Parkway US 192/US 441 Widen to 8 Lanes CST ICST anticipated 2023 (Proposed 2024/25)  FTE Florida's Tumpike Kistimmee Park Road US 192 Widen to 8 Lanes CST ICST funds till 2024/25)  Osceola County CR 530/Simpson Road Meyers Road Beggy Creek Road Widen to 4 Lanes CST omticipated FY 2022 (Standispared FY 2022)  Osceola County Bill Beek Boulevard Woodcrest Boulevard Osceola Parkway Nev 2 Lane Roadway CST amticipated FY 2023 (Standispared FY 2024 (Standispared FY 2024))  Osceola County Partin Settlement Road Neptune Road E. Lokeshore Boulevard Widen to 4 Lanes CST amticipated FY 2024 (Standispared FY 2024)  Orange County Partin Settlement Road Neptune Road E. Lokeshore Boulevard Widen to 4 Lanes CST amticipated FY 2024 (CST amticipated FY 2024)  Orange County Beggy Creek Road Beacon Park Boulevard Widen to 4 Lanes CST amticipated FY 2024 (CST amticipated FY 2024)  Orange County Beggy Creek Road Beacon Park Boulevard Widen to 4 Lanes CST amticipated FY 2024 (CST amticipated FY 2024)  Orange County Beggy Creek Road Beacon Park Boulevard Widen to 4 Lanes (CST amticipated FY 2024)  Orange County Beggy Creek Road Orange/Osceola County Line Beacon Park Boulevard Widen to 4 Lanes (CST amticipated FY 2021)  Orange County Beggy Creek Road Orange/Osceola County Line Beacon Park Boulevard Widen to 4 Lanes (CST amticipated FY 2021)  Orange County Beggy Creek Road Orange/Osceola County Line Beacon Park Boulevard Widen to 4 Lanes (CST amticipated FY 2021)  Orange County Beggy Creek Road Orange/Osceola County Line Beacon Park Boulevard New Expressivery PD&E, Design & CST (CST amticipated FY 2021)  Orange County Descenda Parkway Estension County Line Sea Sea Widen to 6 Lanes (Inches Planning, Design, CST (Inded by 2030)  Orange/Osceola County Osceola Parkway Beans or Sea Sea Sea Orange/Osceola County Line Widen to 6 Lanes (Indeed by 2040)  Orange/Osceola County Line Widen to 6 Lanes Planning, Desi	Agency	Roadway	From	То	Improvement	Phase	Source
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Notes: FY- Fiscal Year, TIP – Transportation Improvement Program, LRTP – Long Range Transportation Plan, CFX – Central Florida Expressway Authority, ROW – Right-of-Way, CST - Construction

### 7.2.4 Model Based Growth Rates

**Table 18** summarizes the growth rates derived using the 2019 base year and the horizon year 2040 model volumes for the No-Build and Build alternatives.

Table 18: Model-Based Growth Rate Summary

	Base	Year 204	0 No Build	Year 2040 Build	
Study Segments	Year 2019 Model	Model Volume	Annual Growth Rate	Model Volume	Annual Growth Rate
Boggy Creek Road					
SR 417 to Simpson Road	35,687	36,579	0.12%	41,001	0.71%
Simpson Road to Springlake Village Boulevard	16,489	22,400	1.71%	41,754	7.30%
Springlake Village Boulevard to Fells Cove Boulevard	12,757	16,248	1.30%	34,188	8.00%
Fells Cove Boulevard to Narcoossee Road	14,434	22,613	2.70%	37,001	7.45%
Springlake Village Boulevard to Narcoossee Road (Average)			2.00%		7.72%
Narcoossee Road					
North of Boggy Creek Road	39,797	79,660	4.77%	72,226	3.88%
South of Boggy Creek Road	43,988	78,725	3.76%	88,1 <i>57</i>	4.78%
Simpson Road/Simpson Road Extension					
West of Boggy Creek Road	28,410	47,732	3.24%	47,956	3.28%
East of Boggy Creek Road	-	34,630	-	31,802	-

The following observations were made based on Table 18.

- Based on existing volumes, the year 2045 model volumes, and the anticipated future capacity along Boggy Creek Road, the model-based growth rates are derived for three separate sections of Boggy Creek Road.
  - North of Simpson Road
  - O Simpson Road to Springlake Village Boulevard
  - Springlake Village Boulevard to Narcoossee Road
- Within the study limits (for widening), Boggy Creek Road has annual model-based growth rates ranging from 1.30 percent to 2.70 percent in the No-Build alternative. In the Build alternative, the model-based growth rates range from 7.30 percent to 8.00 percent. The Build alternative shows a significantly higher growth rate compared to the No-Build alternative. The most likely reason is that a four-lane Boggy Creek Road attracts a higher percentage of through traffic from Narcoossee Road, Simpson Road Extension, and Boggy Creek Road north of Simpson Road.
- For Narcoossee Road, the No-Build alternative shows similar traffic volumes north and south of Boggy Creek Road. Under the Build alternative, the added capacity on Boggy Creek Road is

- observed to attract additional traffic. Because of this reason, the traffic volume south of Boggy Creek Road is significantly higher compared to the No-Build alternative.
- The proposed Simpson Road Extension to Osceola Parkway Extension has a higher traffic volume in the No-Build alternative compared to the Build alternative. The constrained roadway condition on Boggy Creek Road in the No-Build alternative is observed to send more traffic onto Simpson Road Extension.

### 7.2.5 BEBR Growth Rates

The University of Florida's latest BEBR projections were obtained for both Orange and Osceola Counties since the study corridor is near the Osceola/Orange County line. The BEBR projections show an estimate for 2019 and projections for 2045. The low, medium and high projections for 2045 are summarized in **Table 19**. The growth rates between 2019 and 2045 range from approximately 0.62 percent to 2.66 percent for Orange County, and 1.44 percent to 4.29 percent for Osceola County. BEBR population study data is included in **Appendix G**.

Future Year 2045 2019 Annual **Population Projection** County **Population** Growth **Estimate** Type **Projection** Rate 370,552 Low 508,900 1.44% 370,552 Medium 2.82% Osceola 642,600 370,552 4.29% High 783,900 1,386,080 Low 1,610,900 0.62% 1,386,080 Medium 1,972,200 1.63% **Orange** 1,386,080 High 2,344,100 2.66%

Table 19: BEBR Population-Based Growth Rates

### 7.3 Historical Traffic Trends

Based on the historical count information obtained from the 2019 Osceola and Orange County Annual Traffic Count Programs, linear regression trends analyses were performed. To account for the last recession, all the available AADTs from 2012 to 2019 were used in the Trends Analysis Sheets. The analysis results are summarized in **Table 20**. R-squared values denote the goodness-of-fit of a linear regression model to the existing data points. As shown in **Table 20**, the r-squared values generally denote a favorable goodness-of-fit. The trends analysis sheets are provided in **Appendix H**.

**Table 20: Trends-Based Growth Rates** 

			Trends Analysis	
Study Segments	2019 Trends Volume	2045 Trends Volume	R-Squared Value	Annual Growth Rate
Boggy Creek Road				
North of Simpson Road	33,500	79,300	88.91%	5.26%
Simpson Road to Austin Tindall Park	19,700	44,200	83.37%	4.78%
Austin Tindall Park to Narcoossee Road	14,800	41,700	92.38%	6.99%
Narcoossee Road				
North of Boggy Creek Road	33,600	101,800	84.75%	7.81%
South of Boggy Creek Road	34,700	85,400	87.95%	5.62%
Simpson Road	•			
West of Boggy Creek Road	27,400	41,500	97.04%	2.48%

### 7.4 Recommended Traffic Forecasts

Based on a comparison of annual growth rates from the three primary sources (CFRPM models, BEBR population estimates, and historical trends analysis), **Table 21** shows the recommended linear annual growth rates that are used to forecast the future Annual Average Daily Traffic (AADT) volumes for this study. The following provides a discussion on the recommended growth rates.

The following provides a discussion on the recommended growth rates.

- The recommended growth rates for the study corridors including Boggy Creek Road, Simpson Road, and Narcoossee Road are derived based on a review of the existing volumes, the year 2045 model volumes for the No-Build and Build alternatives, existing capacity of the two-lane Boggy Creek Road, anticipated capacity of the proposed four-lane Boggy Creek Road, and engineering judgment.
- The recommended growth rates are derived for the following three separate sections of Boggy
   Creek Road.
  - North of Simpson Road
  - Simpson Road to Springlake Village Boulevard
  - Springlake Village Boulevard to Narcoossee Road
- In general, both Orange and Osceola BEBR population projections were used to derive the growth rates because of the proximity of the study corridor to both Counties.
- Since Simpson Road Extension from Boggy Creek Road to Osceola Parkway Extension is a new four-lane roadway, 2040 model volumes were first converted to AADTs using a Model Output Conversion Factor (MOCF) of 0.97 (Osceola Countywide MOCF from the 2019 FTO) and then grew using a minimum growth rate 0.5% to derive the 2045 AADTs.

- For East Lake Pointe Drive, Nele Road, Springlake Village Boulevard/Holiday Woods Drive, and Timber Lane/Creek Bank Drive, the future volumes will be based on build-out project trip estimates shown in TIA reports (refer to Section 7.2.2). Therefore, future AADTs will be not be derived for these roadways. Instead, build-out turning movement volumes as shown in these TIA reports will be used for all future years.
- For other minor side streets, a minimum growth rate of 0.5 percent is used to derive the future volumes.

**Figures 8 and 9** illustrate the opening year 2025, mid-design year 2035, and design year 2045 AADT volumes based on the recommended growth rates for the No-Build and Build alternatives, respectively.

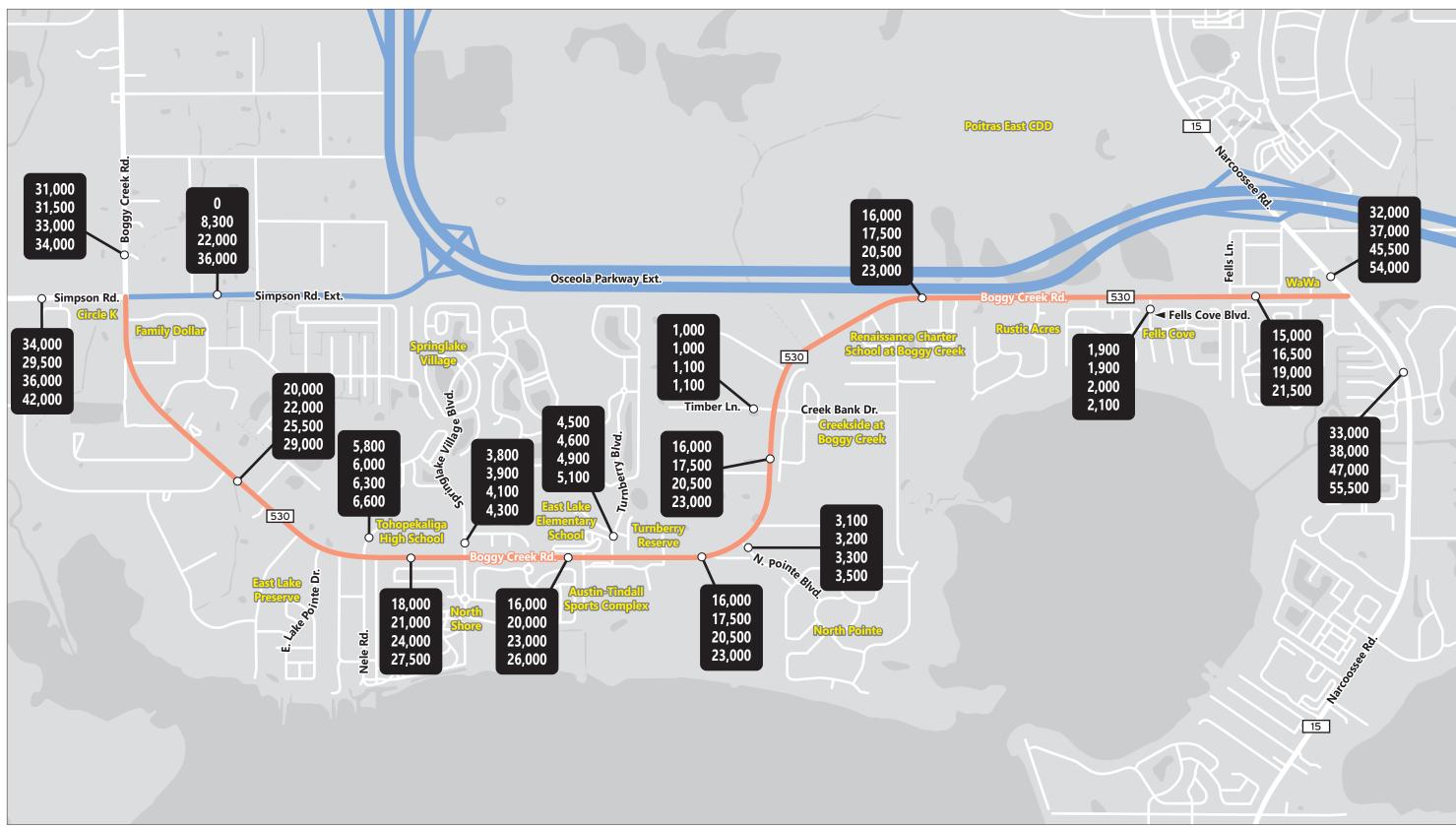
**Table 21: Recommended Growth Rates** 

Study Segment	Annual Growth Rate (No-Build)	Source	Annual Growth Rate (Build)	Source
Boggy Creek Road				
North of Simpson Road	0.37%	Average of Model & Orange Low BEBR	1.07%	Average of Model & Osceola Low BEBR
Simpson Road to Springlake Village Road	1.71%	CFRPM Model	4.16%	Average of Model, Osceola Low BEBR & Orange Low BEBR
Springlake Village Road to Narcoossee Road	2.00%	CFRPM Model	5.49%	Average of Model, Osceola Low BEBR & Orange Low BEBR
Narcoossee Road				
North of Boggy Creek Road	2.65%	Average of Model (north & south of Boggy Creek Road), Osceola Low BEBR & Orange Low BEBR	2.46%	Average of Model, Osceola Low BEBR & Orange Low BEBR
South of Boggy Creek Road	2.65%	Average of Model (north & south of Boggy Creek Road), Osceola Low BEBR & Orange Low BEBR	2.91%	Average of Model, Osceola Low BEBR & Orange Low BEBR
Simpson Road				
West of Boggy Creek Road	2.34%	Average of Model & Osceola Low BEBR	2.36%	Average of Model & Osceola Low BEBR
East of Boggy Creek Road	-	2040 Model Volume plus minimum growth rate of 0.5% from 2040 to 2045	-	2040 Model Volume plus minimum growth rate of 0.5% from 2040 to 2045
Other Side streets				
East Lake Pointe Drive, Nele Road, Springlake Village Boulevard/Holiday Woods Drive, & Timber Lane/Creek Bank Drive	-	*TIA Reports	-	*TIA Reports
Other Side Streets	0.5%*	#Minimum growth rate	0.5%*	#Minimum growth rate

### Notes:

<sup>\*</sup> Buildout turning movement volumes provided in the TIAs will be used for all the analysis years starting from 2025

<sup>#</sup> A minimum growth rate of 0.5% is assumed for all other side streets because of the build-out nature of the land use







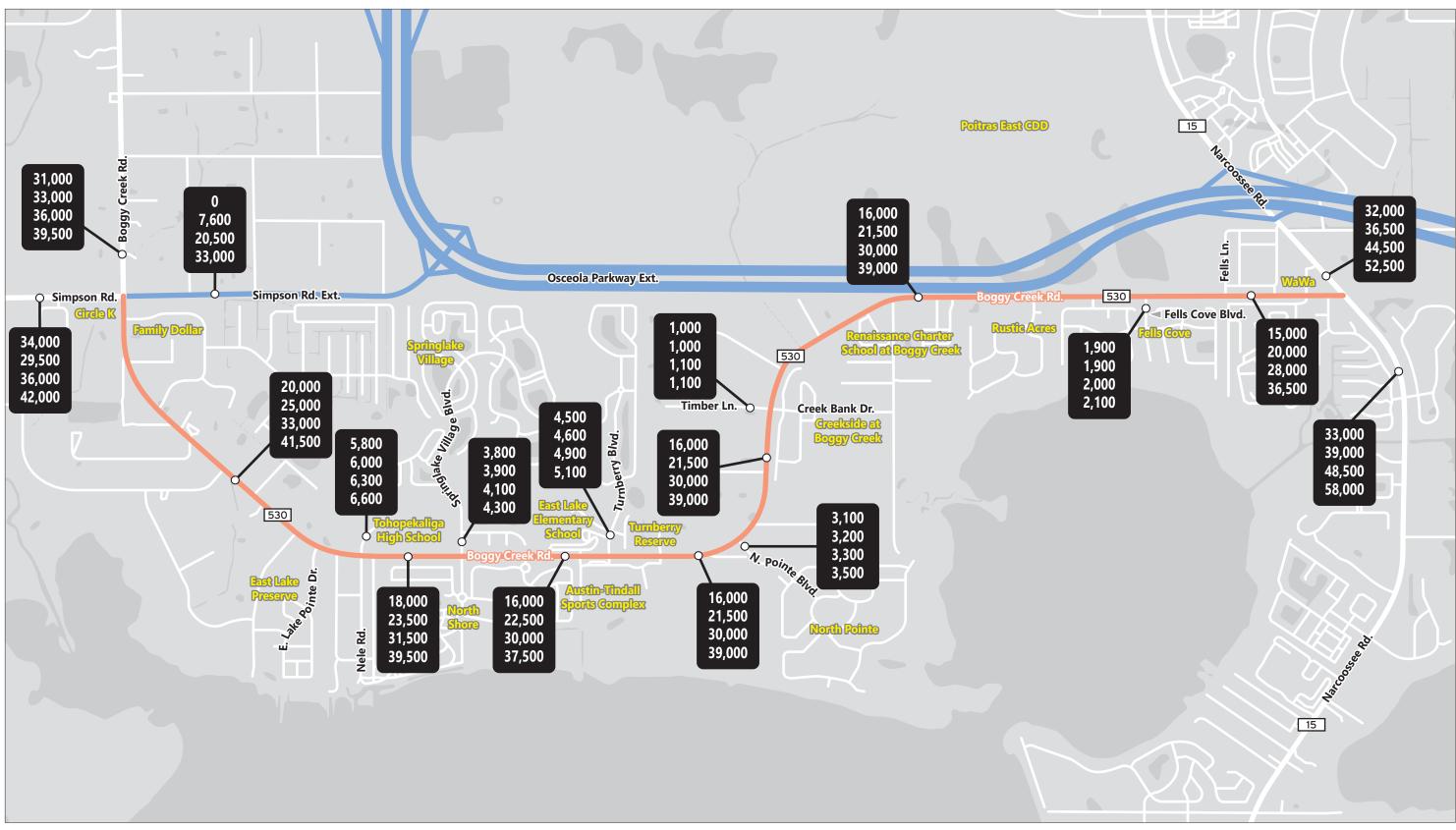
Project Location

Annual Average Daily Traffic (AADT)



### Figure 8

**Future Year Annual Average Daily Traffic (AADT) No Build**Boggy Creek Road Project Traffic
Analysis Report







Project Location

Annual Average Daily Traffic (AADT)



Figure 9

**Future Year Annual Average Daily Traffic (AADT) Build**Boggy Creek Road Project Traffic
Analysis Report

### 7.5 Intersection Design Hour Volumes

The existing AADT counts, future year (2045) AADT forecasts, existing turning movement counts, and recommended traffic characteristics (K and D factors) were used to develop the design hour volumes (DHVs) for both the AM and PM design hours at the intersections for the opening (2025), mid (2035), and design (2045) years.

As documented in **Section 5.1**, a standard K factor, 9.0% (urban area), was used for all the study corridors and the intersecting study roadways. As documented in **Section 5.2**, the following D factors were used in this analysis:

Boggy Creek Road: 58.9%

Narcoossee Road: 64.8%

• Simpson Road: 55.6%

Other Side Streets: Existing

The DHVs for the study intersections were developed by inputting the parameters discussed above into the TURNS5 program. The TURNS5 program balances AADTs and calculates DHVs based on these inputs: existing AADTs (counts), model forecasted AADTs, existing turning movement counts (when available), and K and D factors. The estimated design hour volumes for the AM and PM design hours from TURNS5 spreadsheet were assessed and balanced for reasonableness. Adjustments were made and are reported in the TURNS5 output sheets included in **Appendix I.** Generally, when TURNS5 outputs indicated that Year 2025 and Year 2045 design hour volumes were lower than or equal to the existing peak hour volumes, volumes were adjusted to reflect modest growth. These adjustments are necessary because accepting an estimated volume that is unrealistically large may lead to overdesign and accepting an estimated volume that is too small may result in an inadequate design. Turning movement volumes were also adjusted to resolve any volume balancing inconsistencies between adjacent intersections.

The future year AM and PM design hour volumes used in the evaluation of No Build and Build conditions are shown in the figures that follow. **Figures 10**, **11**, and **12** present the No Build turning movement volumes (AM and PM) in Years 2025, 2035, and 2045, respectively. **Figures 13**, **14**, and **15** present the Build turning movement volumes (AM and PM) in Years 2025, 2035, and 2045, respectively.

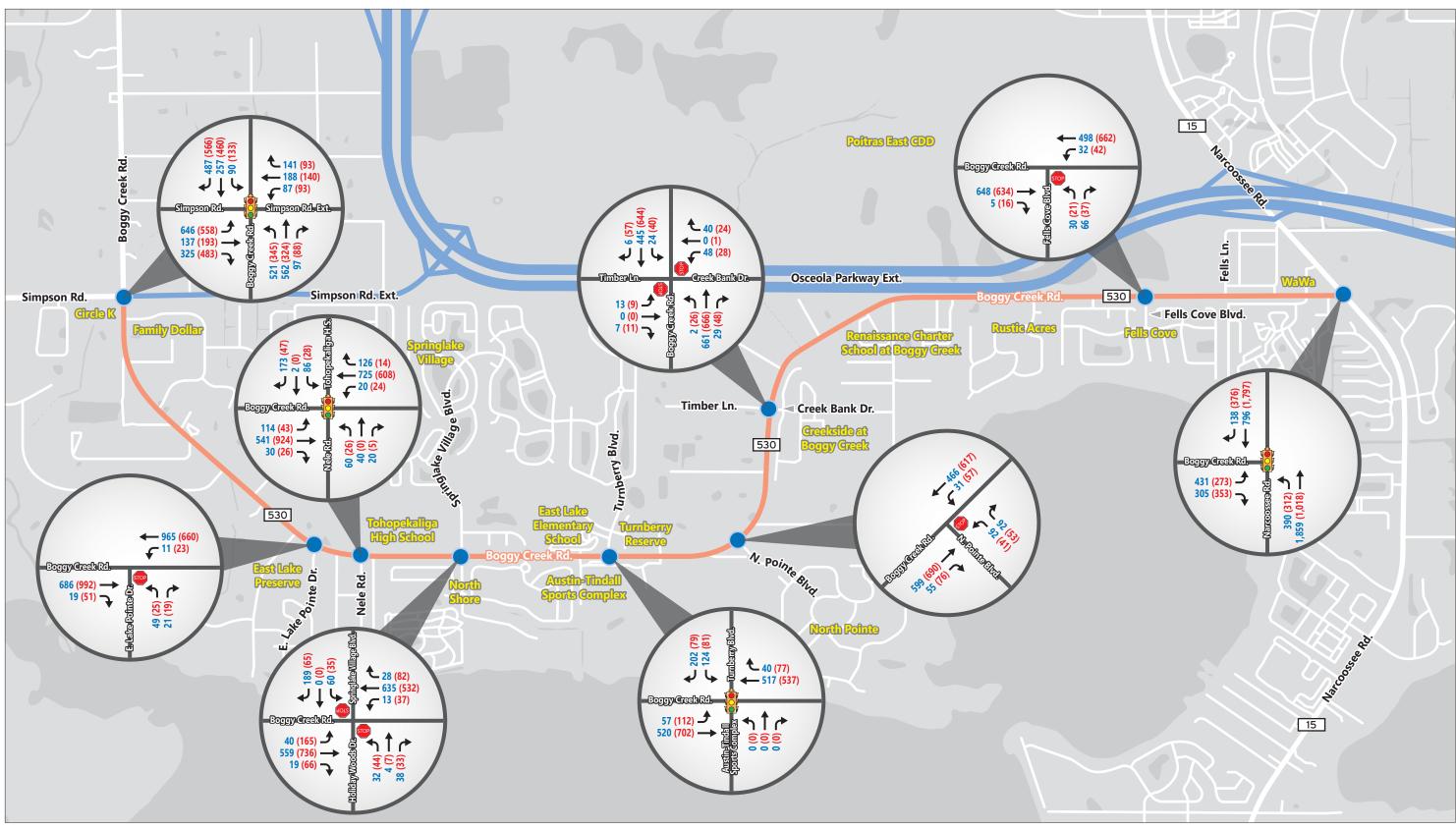






Figure 10

**Future Year 2025 No Build Turning Movement Volumes**Boggy Creek Road Project Traffic
Analysis Report

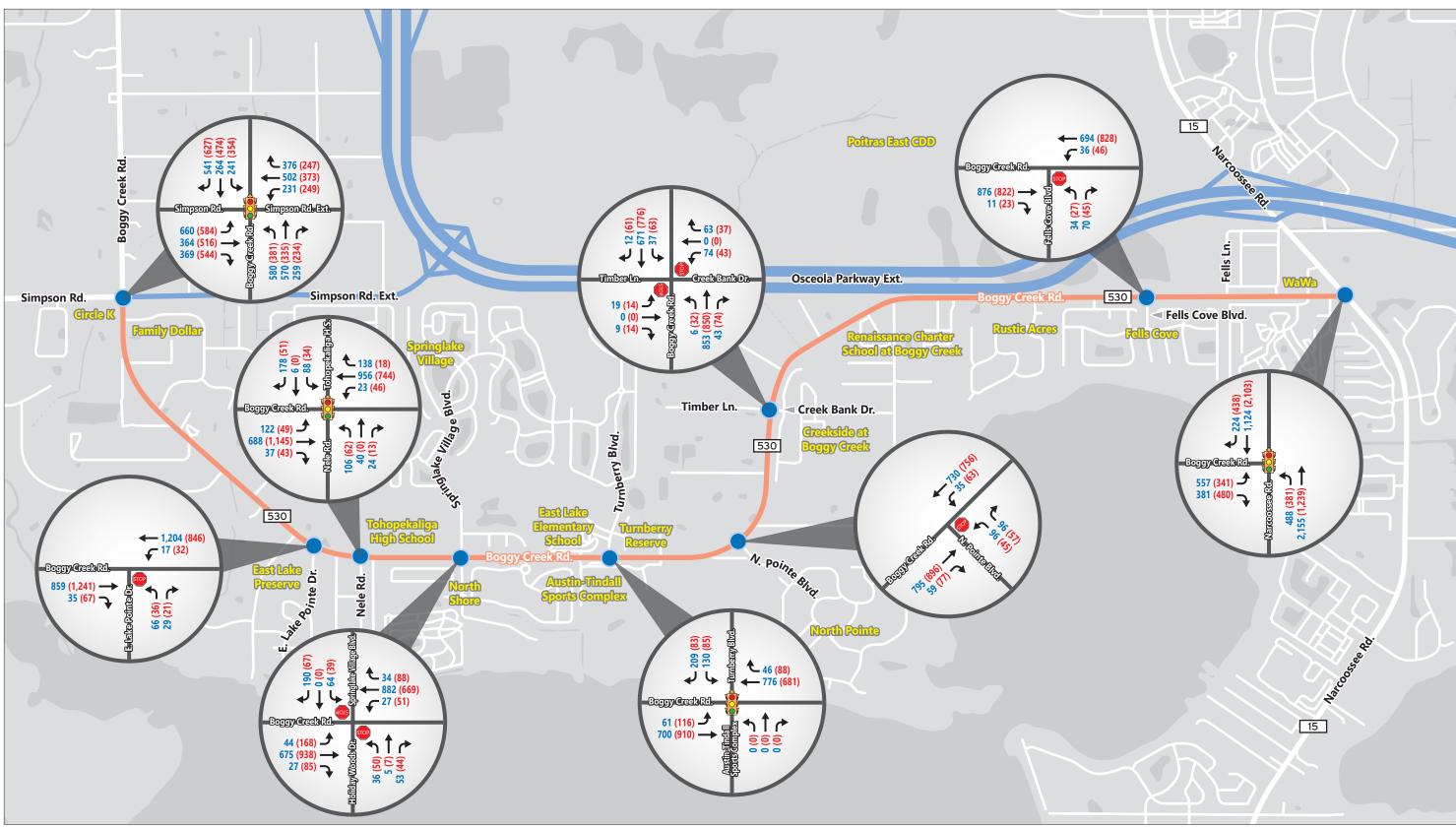






Figure 11

**Future Year 2035 No Build Turning Movement Volumes**Boggy Creek Road Project Traffic
Analysis Report

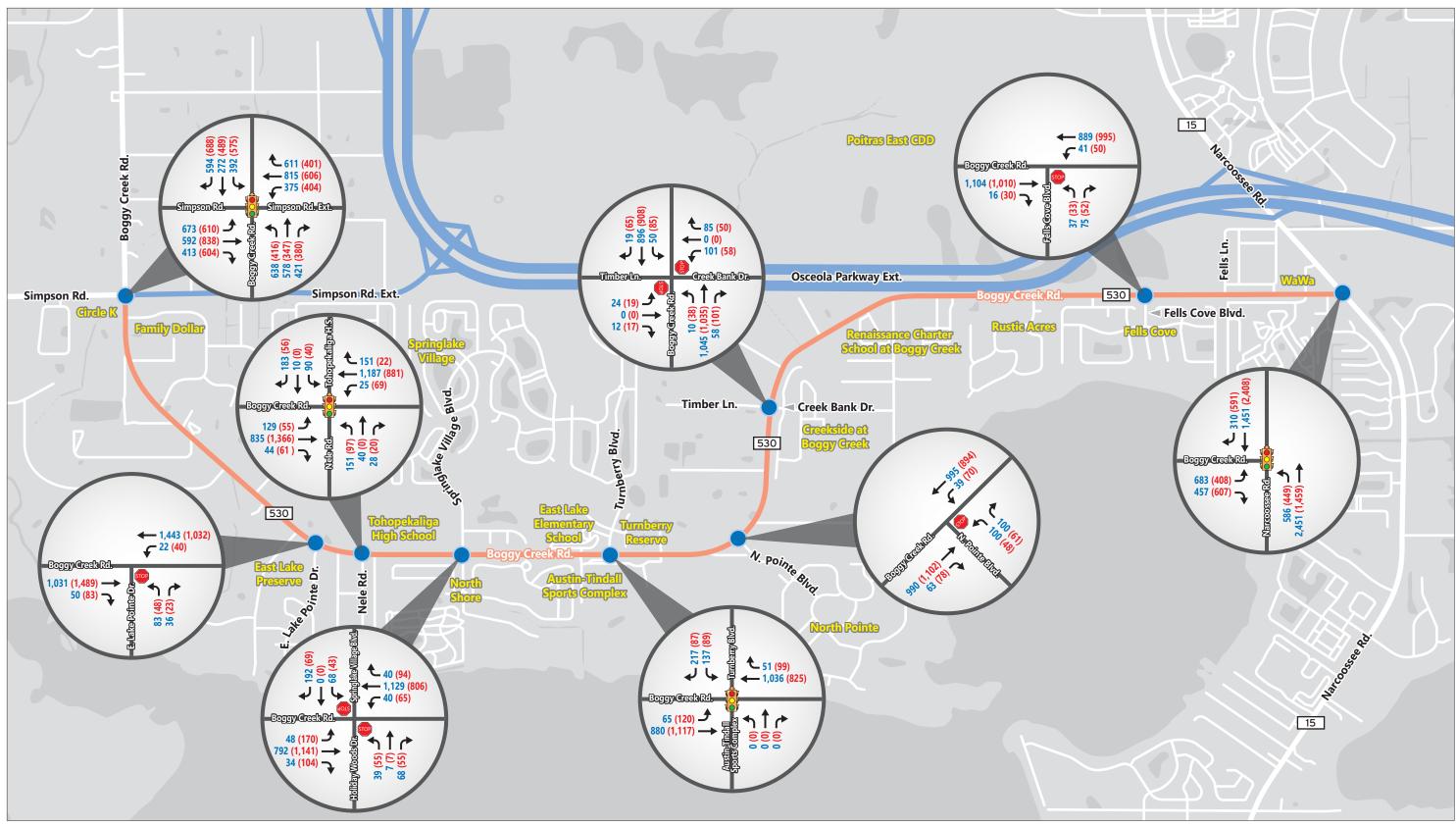






Figure 12
Future Year 2045 No Build

**Turning Movement Volumes**Boggy Creek Road Project Traffic
Analysis Report

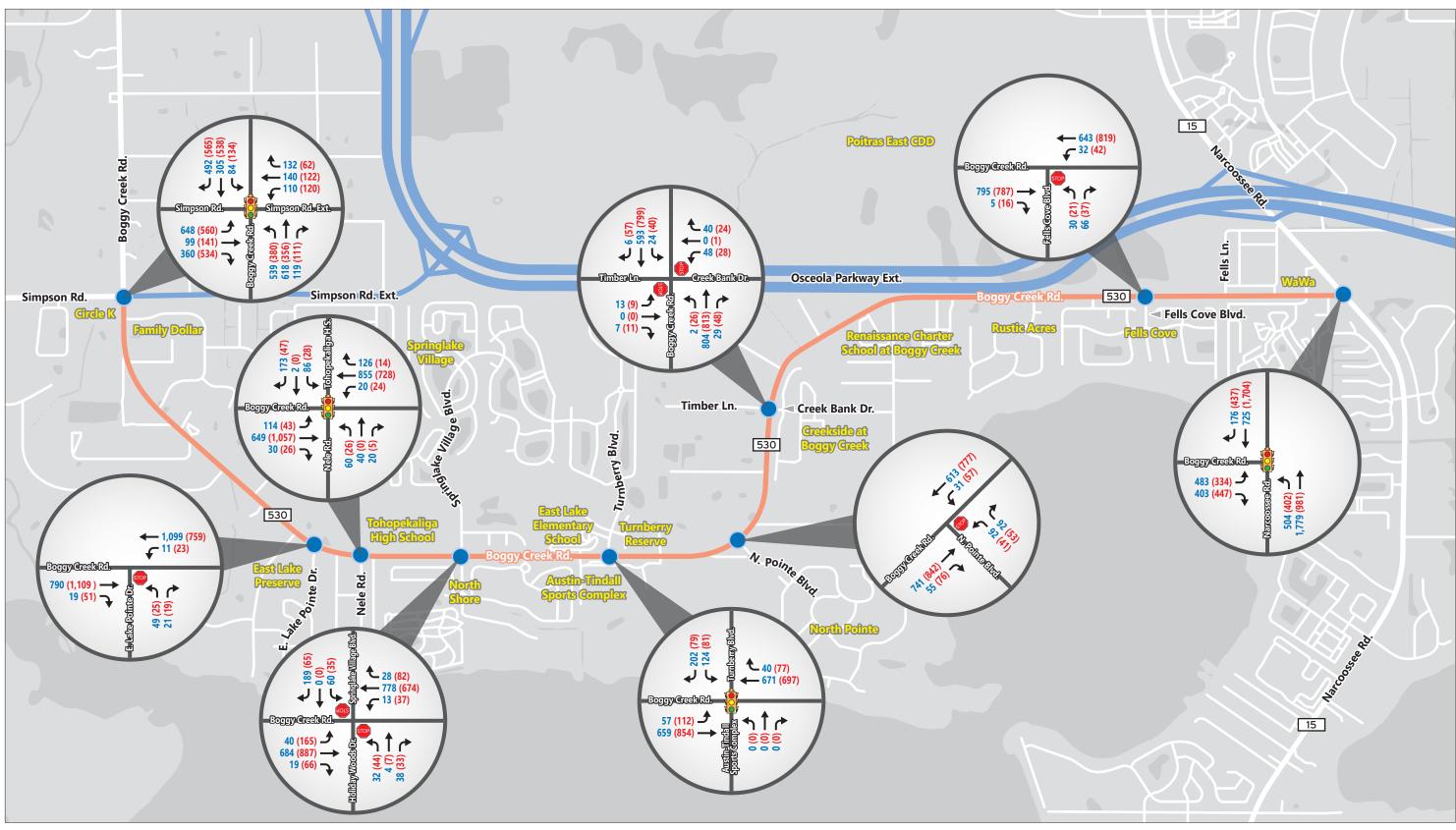






Figure 13

Future Year 2025 Build
Turning Movement Volumes
Boggy Creek Road Project Traffic
Analysis Report

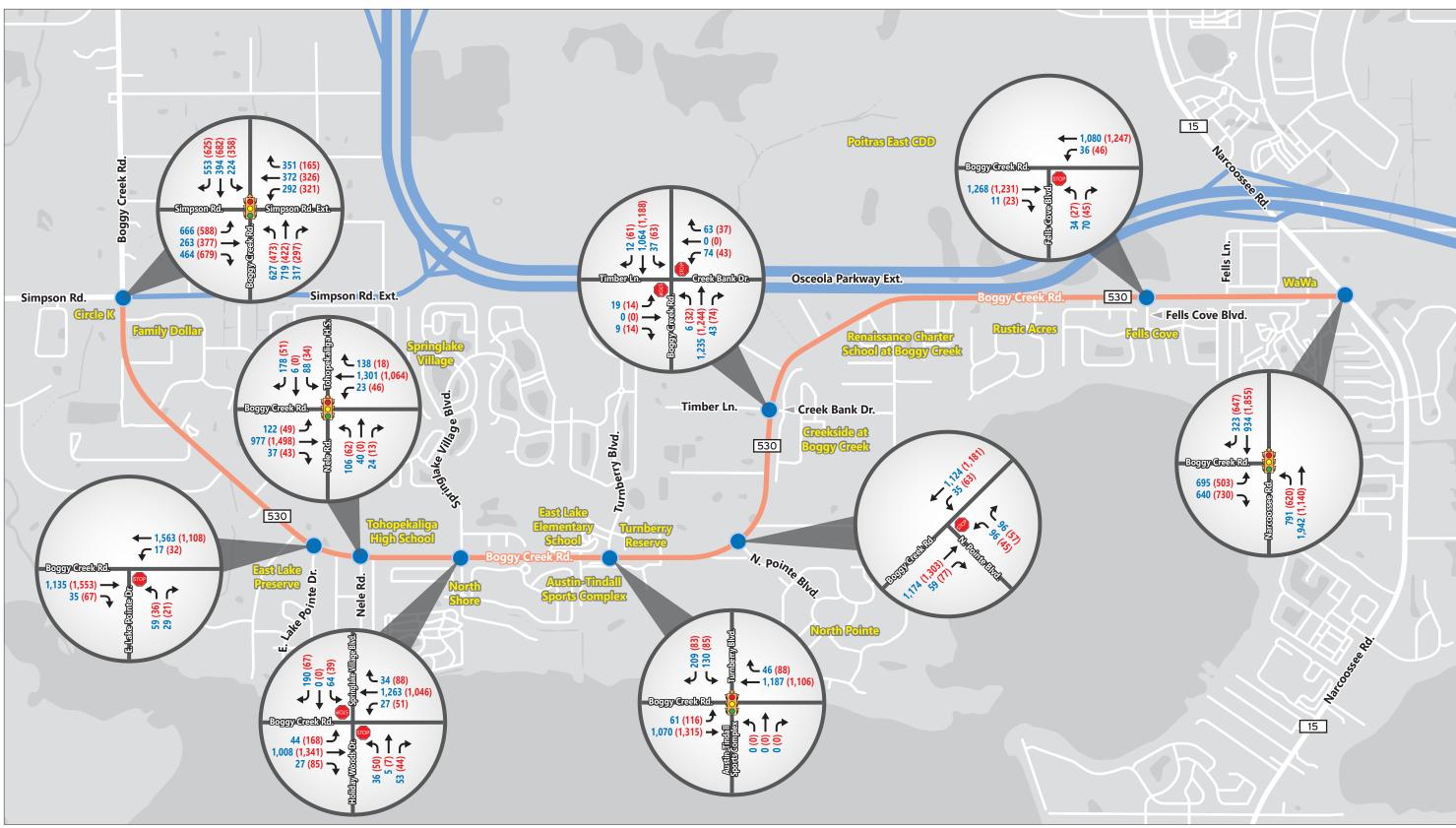






Figure 14
Future Year 2

**Future Year 2035 Build Turning Movement Volumes**Boggy Creek Road Project Traffic
Analysis Report

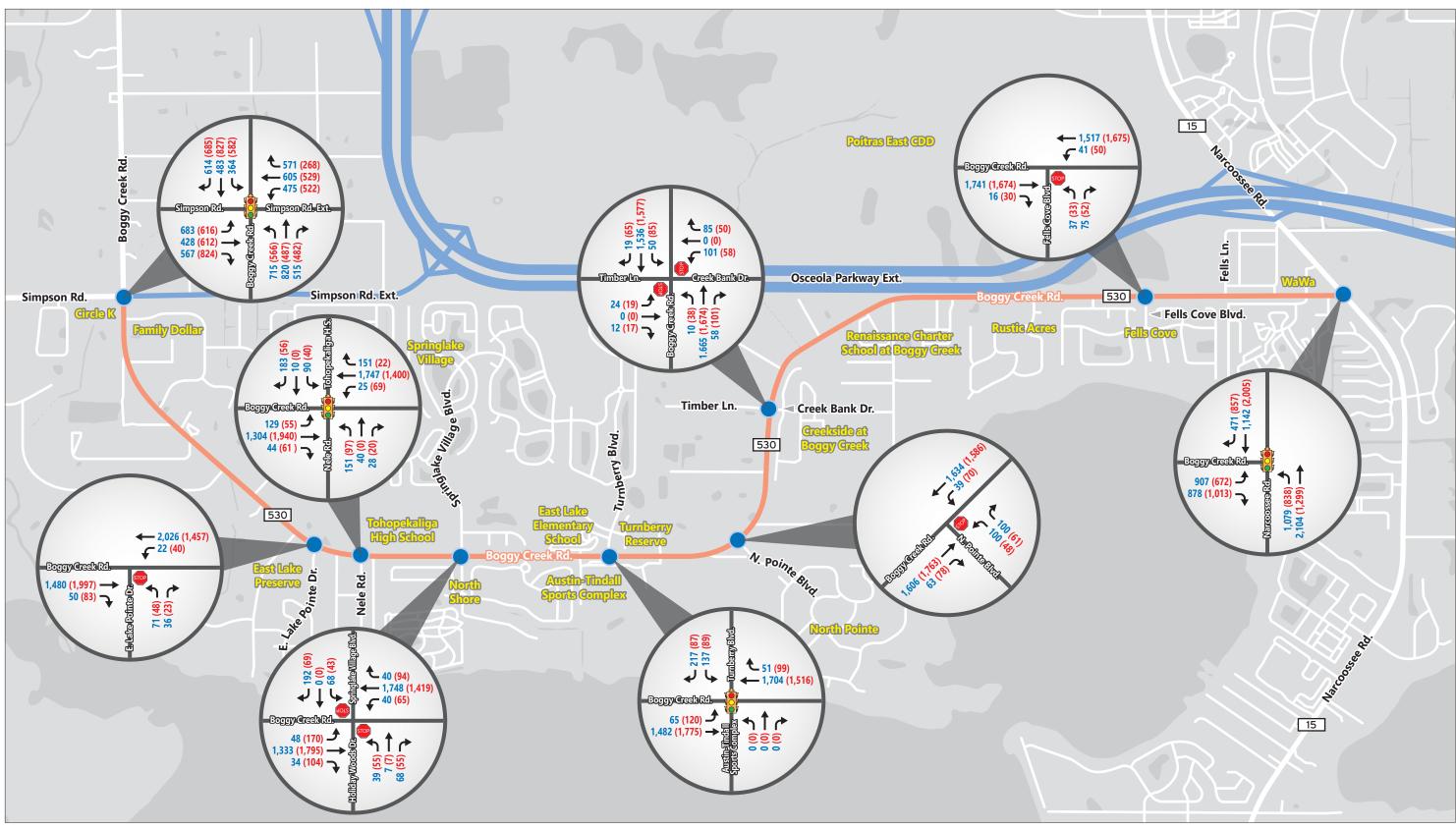






Figure 15
Future Year 2

**Future Year 2045 Build Turning Movement Volumes**Boggy Creek Road Project Traffic
Analysis Report

## 8 Future Operational Analysis

This chapter presents the results of the traffic operations analysis conducted for the No Build and Build alternatives. A detailed operational evaluation at study intersections using Synchro software version 10.0 was performed in order to develop the operational recommendations. Analysis techniques used in the study include the signalized and unsignalized intersection evaluations in Synchro based on the HCM 6th Edition methodology.

The analysis evaluated the No Build and Build alternatives under three separate planning horizons:

- Opening Year (2025)
- Mid Design Year (2035)
- Design Year (2045)

The results of this analysis are presented in the sections that follow.

### 8.1 No Build Operational Analysis

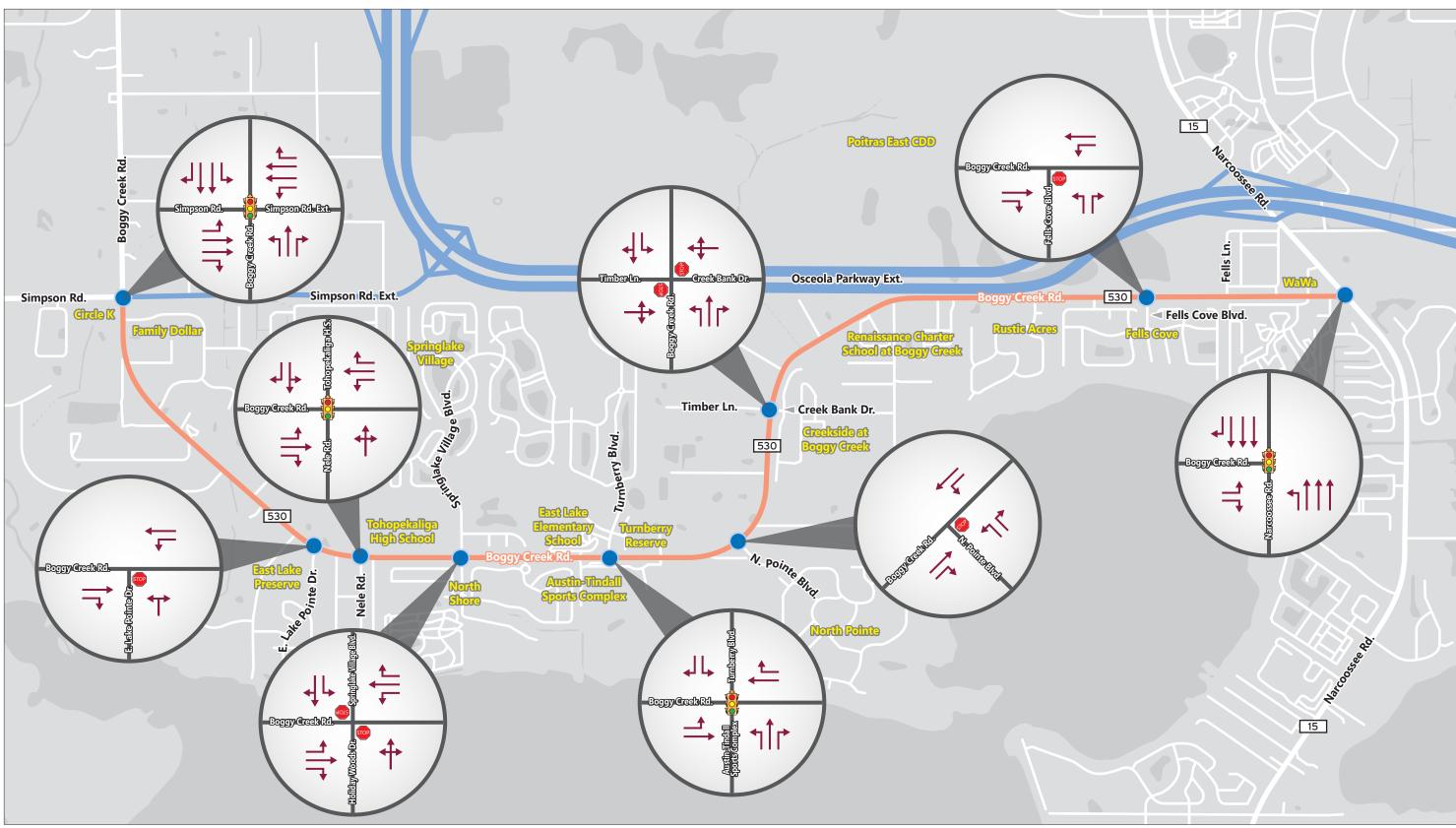
The No Build operational analysis represents the baseline evaluation of the operational performance on the corridor. Under the No Build scenario, the corridor operations are evaluated assuming the existing geometry and the following planned improvements were assumed in this evaluation:

- the extension of Simpson Road, east of Boggy Creek Road, to the future extension of the Osceola
   Parkway and associated improvements at the intersection of Boggy Creek Road & Simpson Road;
- and, widening of Narcoossee Road to six lanes.

The lane geometries assumed for each intersection in the No Build analysis are presented in **Figure 16**. This same geometry was assumed for all future years (2025, 2035, and 2045).

### 8.1.1 Roadway Level of Service Analysis - No Build

Roadway segment level of service analysis (peak hour directional) was performed for each of the segments within the study area using the forecasted No Build turning movement volumes and the generalized capacities obtained from 2020 FDOT Generalized Service Volume Tables. The results of this analysis are presented in **Table 22**.







**Figure 16 Future Year No Build Geometry**Boggy Creek Road Project Traffic
Analysis Report

Table 22: No Build Roadway Segment Level of Service Analysis

						No E	Build AM Pe	eak Hour	Condi	tions					No	Build PM	Peak Hou	ır Conc	litions		
Roadway/Segment	Number of Lanes	Targeted LOS Standard	LOS E Capacity	Ye	ar 2025		Ye	ar 2035		Ye	ar 2045		Ye	ar 2025		Ye	ar 2035		١	rear 2045	5
		Sidilidard		Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS
Boggy Creek Road																					
North of Simpson Road	2 Lane Undivided	E	880	1,349	1.530	F	1,606	1.830	F	1,862	2.120	F	1,159	1.320	F	1,455	1.650	F	1,752	1.990	F
Simpson Road to East Lake Pointe Drive	2 Lane Undivided	E	880	1,180	1.340	F	1,409	1.600	F	1,637	1.860	F	1,043	1.190	F	1,308	1.490	F	1,572	1.790	F
East Lake Pointe Drive to Nele Road	2 Lane Undivided	E	880	976	1.110	F	1,240	1.410	F	1,521	1.730	F	1,011	1.150	F	1,262	1.430	F	1,512	1.720	F
Nele Road to Springlake Village Boulevard	2 Lane Undivided	E	880	871	0.990	Е	1,11 <i>7</i>	1.270	F	1,363	1.550	F	967	1.100	F	1,192	1.350	F	1,426	1.620	F
Springlake Village Boulevard to Turnberry Boulevard	2 Lane Undivided	E	880	<i>7</i> 19	0.820	С	985	1.120	F	1,253	1.420	F	814	0.930	С	1,026	1.170	F	1,239	1.410	F
Turnberry Boulevard to North Pointe Boulevard	2 Lane Undivided	E	1,610	654	0.410	С	854	0.530	С	1,095	0.680	D	783	0.490	С	995	0.620	D	1,206	0.750	E
North Pointe Boulevard to Timber Lane	2 Lane Undivided	E	1,610	692	0.430	С	902	0.560	D	1,113	0.690	D	743	0.460	С	956	0.590	D	1,174	0.730	D
Timber Lane to Fells Cove Boulevard	2 Lane Undivided	E	1,610	714	0.440	С	935	0.580	D	1,154	0.720	D	741	0.460	С	901	0.560	D	1,104	0.690	D
Fells Cove Boulevard to Narcoossee Road	2 Lane Undivided	E	1,610	736	0.460	С	946	0.590	D	1,179	0.730	D	704	0.440	C	874	0.540	С	1,062	0.660	D

Under 2025 No Build conditions, the three segments west of Nele Road are anticipated to operate at LOS F during the AM and PM peak hours. The segment between Nele Road and Springlake Village Boulevard is expected to operate at LOS F during the PM peak only.

Looking forward to 2035 No Build Conditions, the five western segments in the corridor, from north of Simpson Road to Turnberry Boulevard. are expected to operate at LOS F during AM and PM peak hours. Under 2045 No Build Conditions, the same five western segments are expected to fail, but with even higher volume-to-capacity ratios well in excess of 1.00.

### 8.1.2 Intersection Level of Service Analysis - No Build

Intersection analysis was performed to determine if there are any deficiencies for the signalized and unsignalized intersections under future year (2025, 2035, and 2045) conditions. Forecasted turning movement volumes as shown in **Section 7.5** were used to analyze the No Build alternative. The results of the intersection analysis are summarized in Tables **23**, **24**, **and 25** for Years 2025, 2035, and 2045, respectively. **Tables 23-25** show a summary of the 95<sup>th</sup> percentile queues (in feet), volume-to-capacity ratios, average delays (in seconds), and LOS for each of the intersection movements under AM and PM peak hour conditions. For signalized intersections, these tables also show the average overall intersection delay (in seconds) and LOS. Synchro output sheets for each of these analyses are provided in **Appendix J**.

#### **Year 2025**

- The only signalized intersection anticipated to operate at LOS F in Year 2025 is the intersection with Simpson Road during the AM peak hour. The average intersection delay is expected to be 83.8 seconds, driven by a particularly high delay (376.8 s/veh) and v/c ratio (1.580) for the westbound right turn.
- For all the unsignalized intersections where the minor street movements operate under stop control, were found to operate at LOS E (or LOS F).
- A notably high average delay and v/c ratio are expected for the shared northbound left/through/right at Springlake Village Boulevard during the PM peak hour. This movement is expected to operate with average delays of 323.2 s/veh and a v/c ratio of 1.320.

### **Year 2035**

- The only signalized intersection anticipated to operate at LOS F in Year 2035 is the intersection with Simpson Road during the AM peak hour. The average intersection delay is expected to be 155.4 seconds, driven by a particularly high delays and v/c ratios for the westbound right 575.0 s/veh, 2.090) and the northbound left (261.2 s/veh, 1.460).
- For all the unsignalized intersections where the minor street movements operate under stop control, were found to operate at LOS F with higher delays and v/c ratios compared to the opening year conditions.
- Notably high average delays and v/c ratios are expected for several stop-controlled movements on the corridor's side streets.
  - o In the AM peak hour, the East Lake Pointe Drive shared northbound left/right is anticipated to operate with a 411.8 sec/veh average delay and a v/c ratio of 1.538.
  - During the AM peak hour and PM peak hour, the shared northbound left/through/right and southbound left at Springlake Village Boulevard are expected to experience exceptionally high average delays and v/c ratios.
  - Delays and v/c ratios for the shared eastbound left/through movements at Timber
     Lane/Creek Bank Drive are anticipated to be elevated in both the AM and PM peak hours.

### **Year 2045**

- Several signalized intersections are anticipated to operate at LOS F in Year 2045.
  - The intersection with Simpson Road is expected to operate at LOS F during the AM and PM peak hours. In the AM peak hour, the average intersection delay is expected to be 198.1 seconds, driven by notably high delays and v/c ratios for the westbound right 703.5 s/veh, 2.400) and the eastbound left (305.4 s/veh, 1.550). In the PM peak hour, the average intersection delay is expected to be 127.6 seconds, driven by notably high delays and v/c ratios for the westbound right 394.7 s/veh, 1.700) and the eastbound right (357.5 s/veh, 1.640).
  - The intersection at Nele Road/Tohopekaliga High School is anticipated to operate at LOS F in the AM peak hour. The average intersection delay of 111.6 seconds is influenced by the northbound lefts (average delay of 381.8 s/veh and v/c ratio of 1.640).
  - O The intersection with Narcoossee Road is expected to operate at LOS F during the AM and PM peak hours. In the AM peak hour, the average intersection delay is expected to be 83.1 seconds, driven by notably high delays and v/c ratios for the eastbound left (231.3 s/veh, 1.390) and the north westbound left (218.0 s/veh, 1.370). In the PM peak hour, the average

intersection delay is expected to be 127.6 seconds, driven by notably high delays and v/c ratios for the eastbound right (503.7 s/veh, 1.960).

- For all the unsignalized intersections where the minor street movements operate under stop control, were found to operate at LOS F with higher delays and v/c ratios compared to the mid design year conditions.
- Notably high average delays and v/c ratios are expected for several stop-controlled movements on the corridor's side streets.
  - o In the AM and PM peak hour, the East Lake Pointe Drive shared northbound left/right is anticipated to operate with high delays and v/c ratios.
  - During the AM peak hour and PM peak hour, the shared northbound left/through/right and southbound left at Springlake Village Boulevard are expected to experience exceptionally high average delays and v/c ratios.
  - Delays and v/c ratios for the westbound and eastbound shared left/through movements at Timber Lane/Creek Bank Drive are anticipated to be elevated in both the AM and PM peak hours.

Based on the roadway and intersection analysis results summarized in **Tables 22** through **25** for the No Build Alternative, it can be clearly seen that the existing Boggy Creek Road from Simpson Road to Narcoossee Road needs to be widened to a four-lane divided roadway and make it safer for the traveling public.

Table 23: Year 2025 No Build Intersection Level of Service Analysis

Study Intersections along Boggy	Control Type	Movement		Year 2025 A	M Peak Hour			Year 2025 P	M Peak Hour	
Creek Road	"		95% Queue	v/c ratio	Delay (s)	LOS	95% Queue	v/c ratio	Delay (s)	LOS
		Overall			83.8	F			37.1	D
		EBL	1,123	1.110	114.7	F	715	1.000	72.2	E
		EBT	85	0.130	36.3	D	98	0.190	31.8	С
		EBR	425	0.690	48.5	D	815	1.120	120.1	F
		WBL	148	0.440	62.4	E	118	0.400	46.7	D
		WBT	220	0.940	116.6	F	95	0.480	53.5	D
Simpson Road	Signal	WBR	480	1.580	376.8	F	155	0.720	70.3	E
		NBL	683	1.160	130.7	F	68	0.680	5.4	Α
		NBT	670	0.770	44.6	D	70	0.230	3.5	Α
		NBR	105	0.160	27.6	С	18	0.070	2.8	Α
		SBL	33	0.450	43.7	D	28	0.170	3.3	Α
		SBT	183	0.290	44.3	D	68	0.190	5.0	Α
		SBR	410	0.560	21.2	С	13	0.380	0.7	Α
East Lake Pointe	Stop	WBL	0	0.014	9.3	Α	3	0.039	11.0	В
Drive		NBL/R	78	0.614	74.0	F	40	0.377	51.0	F
		Overall			41.7	D			16.6	В
		EBL	58	0.430	16.1	В	10	0.090	6.5	Α
		EBT	280	0.580	12.6	В	465	0.830	18.6	В
		EBR	10	0.040	6.9	Α	8	0.030	5.8	Α
Nele Road/		WBL	8	0.050	8.3	Α	8	0.090	11.8	В
Tohopekaliga	Signal	WBT	525	0.850	24.5	C	255	0.560	11.6	В
High School		WBR	60	0.170	9.7	Α	5	0.020	6.3	Α
		NBL	348	1.270	215.9	F	30	0.180	38.1	D
		NBT/R	0	0.000	0.0	Α	0	0.000	0.0	Α
		SBL/T	105	0.510	39.5	D	25	0.130	37.0	D
		SBR	370	1.110	136.0	F	45	0.360	38.0	D
		EBL	3	0.047	9.2	Α	18	0.187	9.8	Α
Springlake		WBL	0	0.014	8.8	Α	5	0.050	9.8	Α
Village	Stop	NBL/T/R	95	0.715	95.2	F	183	1.320	323.2	F
Boulevard		SBL	75	0.625	87.2	F	88	0.899	259.8	F
		SBR	55	0.434	18.8	С	10	0.130	12.8	В
		Overall			21.9	С			12.4	В
		EBL	18	0.110	8.0	Α	23	0.200	6.1	Α
		EBT	183	0.400	6.8	Α	155	0.510	5.3	Α
Turnberry Boulevard	Signal	WBT	300	0.490	14.8	В	258	0.480	11.8	В
boole var a		WBR	20	0.040	9.7	Α	30	0.080	7.8	Α
		SBL	165	0.480	47.7	D	108	0.530	50.9	D
		SBR	303	0.870	69.7	E	108	0.580	53.7	D
N. J. S.		NWL	60	0.484	38.8	Е	35	0.345	48.3	E
North Pointe Boulevard	Stop	NWR	18	0.201	14.4	В	10	0.131	14.7	В
		SWL	3	0.036	9.2	Α	5	0.074	9.8	Α
		WBL/T/R	10	0.11 <i>7</i>	27.6	D	13	0.151	35.5	Е
Timber Lane/ Creek Bank	Stop	EBL/T/R	50	0.433	34.1	D	45	0.419	50.3	F
Drive	Ciop	NBL	0	0.002	8.3	Α	3	0.032	9.3	Α
		SBL	3	0.029	9.3	Α	5	0.050	9.5	Α
E-II- C		WBL	3	0.038	9.2	Α	5	0.049	9.2	Α
Fells Cove Boulevard	Stop	NBL	15	0.178	29.7	D	15	0.161	36.3	Е
		NBR	13	0.154	14.5	В	8	0.085	13.6	В
		Overall			27.6	С			39.1	D
		EBL	555	1.050	89.3	F	293	0.850	53.2	D
		EBR	298	0.830	45.9	D	663	1.240	169.7	F
Narcoossee Road	Signal	SET	173	0.400	19.2	В	433	0.870	28.0	С
		SER	0	0.000	0.0	0	0	0.000	0.0	0
		NWL	258	0.880	33.5	С	348	0.910	48.3	D
		NWT	288	0.650	12.7	В	105	0.320	7.0	Α

Table 24: Year 2035 No Build Intersection Level of Service Analysis

Creek Road	E F D F E F C B B B B F F F F F F F F F F F F F F
EBL	F D F E F C B B B A B
Simpson Road   Signal   Sign	D F E F C B B B A B
Simpson Road   Signal   Figure   Signal   Sign	F E F C B B B A B
Simpson Road   Signal   Sign	E F C B B B A B
Simpson Road   Signal   WBT   600   1.240   194.3   F   333   0.890   84.6	F F C B B B A B
Simpson Road   Signal	F C B B B A B
NBL	B B B A B
NBT   813   0.920   66.5   E   270   0.340   18.2     NBR   323   0.490   41.0   D   195   0.270   17.3     SBL   475   1.150   149.2   F   233   0.600   13.7     SBT   183   0.280   42.0   D   205   0.260   18.9     SBR   505   0.650   26.3   C   183   0.500   4.7     SBR   505   0.650   26.3   C   183   0.500   4.7     WBL   3   0.025   10.1   B   5   0.068   12.9     NBL/R   218   1.538   411.8   F   120   1.017   237.0     NBL/R   218   1.538   411.8   F   120   1.017   237.0     NBL/R   218   1.538   411.8   F   10   0.120   7.8     EBL   303   0.940   103.9   F   10   0.120   7.8     EBT   578   0.700   18.9   B   958   1.000   43.6     EBR   23   0.040   8.8   A   13   0.040   6.2     WBL   13   0.080   13.2   B   33   0.270   25.6     WBL   13   0.080   13.2   B   33   0.270   25.6     WBR   98   0.170   11.1   B   5   0.020   6.1     NBL/R   0   0.000   0.0   A   0   0.000   0.0     SBL/T   170   0.460   54.5   D   38   0.180   42.5     SBR   340   0.830   75.1   E   58   0.420   43.6     EBL   5   0.066   10.5   B   20   0.217   10.6     WBL   3   0.033   9.3   A   B   0.084   11.1     Springlake Village Boulevard   SBL   165   1.497   454.5   F   143   2.415   1110.8     SBR   98   0.615   32.3   D   15   0.161   14.8     Overall   24.4   C   13.7	B B B A B
NBR   323   0.490   41.0   D   195   0.270   17.3	B B A B
SBL   475   1.150   149.2   F   233   0.600   13.7	B B A B
SBT   183   0.280   42.0   D   205   0.260   18.9	B A B
SBR   S05   O.650   26.3   C   183   O.500   4.7	A B
Stop   Stop   Stop   NBL/R   218   1.538   411.8   F   120   1.017   237.0	В
Nele Road	
NBL/R   218	F
Nele Road   Figure   Figure	
Nele Road/ Tohopekaliga High School	С
Nele Road/ Tohopekaliga High School   Signal	Α
Nele Road   Tohopekaliga   High School   Signal   WBT   1,348   1.010   53.7   F   350   0.650   13.2	F
Nete Roday   Tohopekaliga   High School   Signal   WBT   1,348   1.010   53.7   F   350   0.650   13.2	Α
Tohopekaliga High School	С
NBL   588   1.420   289.6   F   90   0.500   47.9     NBT/R   0   0.000   0.0   A   0   0.000   0.0     SBL/T   170   0.460   54.5   D   38   0.180   42.5     SBR   340   0.830   75.1   E   58   0.420   43.6     Springlake Village Boulevard   Stop   SBL   165   1.497   454.5   F   143   2.415   1110.8     SBR   98   0.615   32.3   D   15   0.161   14.8     Overall   Overall   24.4   C   13.7	В
NBT/R   0   0.000   0.0   A   0   0.000   0.0     SBL/T   170   0.460   54.5   D   38   0.180   42.5     SBR   340   0.830   75.1   E   58   0.420   43.6     Springlake Village Boulevard   Stop   SBL   165   1.497   454.5   F   143   2.415   1110.8     SBR   98   0.615   32.3   D   15   0.161   14.8     Overall   C   13.7   13.7	Α
SBL/T         170         0.460         54.5         D         38         0.180         42.5           Springlake Village Boulevard         Fabruary         EBL         5         0.066         10.5         B         20         0.217         10.6           NBL/T/R         258         2.199         744.5         F         305         3.038         1158.6           SBL         165         1.497         454.5         F         143         2.415         1110.8           SBR         98         0.615         32.3         D         15         0.161         14.8           Overall         24.4         C         13.7	D
SBL/T         170         0.460         54.5         D         38         0.180         42.5           Springlake Village Boulevard         EBL         5         0.066         10.5         B         20         0.217         10.6           NBL/T/R         258         2.199         744.5         F         305         3.038         1158.6           SBL         165         1.497         454.5         F         143         2.415         1110.8           SBR         98         0.615         32.3         D         15         0.161         14.8           Overall         24.4         C         13.7	Α
Springlake Village Boulevard         EBL         5         0.066         10.5         B         20         0.217         10.6           NBL/T/R         3         0.033         9.3         A         8         0.084         11.1           NBL/T/R         258         2.199         744.5         F         305         3.038         1158.6           SBL         165         1.497         454.5         F         143         2.415         1110.8           SBR         98         0.615         32.3         D         15         0.161         14.8           Overall         24.4         C         13.7	D
Springlake Village Boulevard         WBL         3         0.033         9.3         A         8         0.084         11.1           NBL/T/R         258         2.199         744.5         F         305         3.038         1158.6           SBL         165         1.497         454.5         F         143         2.415         1110.8           SBR         98         0.615         32.3         D         15         0.161         14.8           Overall         24.4         C         13.7	D
Springtake Village Boulevard         Stop         NBL/T/R         258         2.199         744.5         F         305         3.038         1158.6           SBL         165         1.497         454.5         F         143         2.415         1110.8           SBR         98         0.615         32.3         D         15         0.161         14.8           Overall         24.4         C         13.7	В
Village Boulevard         Stop         NBL/T/R         258         2.199         744.5         F         305         3.038         1158.6           SBL         165         1.497         454.5         F         143         2.415         1110.8           SBR         98         0.615         32.3         D         15         0.161         14.8           Overall         24.4         C         13.7	В
SBR 98 0.615 32.3 D 15 0.161 14.8  Overall 24.4 C 13.7	F
Overall 24.4 C 13.7	F
	В
EBL 25 0.170 13.4 B 25 0.240 7.6	В
	Α
EBT 303 0.530 8.8 A 240 0.640 6.8	Α
Turnberry Signal WBT 570 0.700 20.4 C 350 0.580 13.0	В
Boulevard WBR 25 0.050 9.8 A 35 0.090 7.3	A
SBL 200 0.490 55.3 E 130 0.600 59.7	E
SBR 350 0.890 78.8 E 133 0.660 64.9	E
NWL 158 1.021 175.4 F 75 0.667 125.1	F
North Pointe Stop NWP 28 0.275 18.5 C 18 0.189 18.9	С
Boulevard SWL 5 0.049 10.1 B 8 0.099 11.0	В
WBL/T/R 40 0.415 87.8 F 45 0.461 102.3	F
Timber Lane/ EBL/T/R 253 1.360 285.5 F 168 1.220 283.2	F
Creek Bank Drive         Stop         NBL         0         0.007         9.2         A         3         0.044         10.0	Α
SBL 5 0.054 10.3 B 8 0.095 10.7	В
WBL 5 0.052 10.2 B 5 0.064 10.1	В
Fells Cove Stop NBL 40 0.389 67.1 F 35 0.360 74.2	F
Boulevard NBR 20 0.225 19.2 C 13 0.134 16.8	С
Overall 46.1 D 75.2	E
EBL 855 1.050 96.1 F 553 0.990 95.7	
EBR 455 0.810 49.9 D 1,325 1.560 320.2	F
Narcoossee Signal SET 445 0.820 48.2 D 825 0.980 51.0	F F
Road SER 0 0.000 0.0 0 0.000 0.0	
NWL 755 1.020 82.0 F 618 1.030 97.7	F
NWT 585 0.780 23.3 C 203 0.380 8.8	F D

Table 25: Year 2045 No Build Intersection Level of Service Analysis

Study Intersections along Boggy	Control Type	Movement		Year 2045 A	M Peak Hour			Year 2045 P	M Peak Hour	
Creek Road	.,,,,		95% Queue	v/c ratio	Delay (s)	LOS	95% Queue	v/c ratio	Delay (s)	LOS
		Overall			198.1	F			127.6	F
		EBL	1,808	1.550	305.4	F	1,438	1.370	226.9	F
		EBT	448	0.860	67.5	Е	675	0.990	84.4	F
		EBR	1,058	1.360	238.7	F	1,808	1.640	357.5	F
		WBL	538	0.950	70.9	Е	958	1.360	227.4	F
		WBT	1,073	1.430	264.5	F	633	1.150	148.5	F
Simpson Road	Signal	WBR	2,268	2.400	703.5	F	1,258	1.700	394.7	F
		NBL	1,268	1.390	216.6	F	283	0.900	29.4	С
		NBT	665	0.750	41.4	D	245	0.320	14.2	В
		NBR	478	0.650	37.5	D	280	0.410	1 <i>5.7</i>	В
		SBL	645	1.150	130.3	F	333	0.900	25.7	С
		SBT	145	0.190	27.1	С	163	0.230	12.0	В
		SBR	435	0.610	17.0	В	125	0.530	3.7	Α
East Lake Pointe Drive	Stop	WBL	3	0.038	11.2	В	10	0.109	15.5	С
		NBL/R	368	3.796	1506.1	F _	225	2.669	1052.7	F
		Overall	222	1110	111.6	F		0.100	48.7	D
		EBL	308	1.110	161.8	F	20	0.130	7.6	A
		EBT	913	0.850	28.5	C	1,570	1.030	49.1	F
		EBR	30	0.050	9.7	A	20 98	0.050	4.6	A
Nele Road/	Ct I	WBL	20	0.130	22.4	С		0.530	51.8	D
Tohopekaliga High School	Signal	WBT	2,645	1.240	143.9	F	463	0.660	10.9	В
		WBR	115	0.190	11.8	В	8	0.020	4.3	A
		NBL	838	0.000	381.8 0.0	F	403 0	0.000	350.7	F
		NBT/R SBL/T	193	0.000	56.1	A E	73	0.320	0.0 69.4	A E
		SBR	353	0.430	71.5	E	120	0.320	88.5	F
		EBL	8	0.090	12.1	В	25	0.250	11.7	В
		WBL	5	0.055	10.0	A	10	0.131	12.9	В
Springlake Village	Stop	NBL/T/R	415	13.333	6358.1	F	403	7.245	3254.1	F
Boulevard	0.00	SBL	238	3.977	1772.8	F	183	9.053	5030.0	F
		SBR	180	0.883	77.6	F	18	0.201	17.5	С
		Overall			32.3	С			15.5	В
		EBL	68	0.320	32.0	С	50	0.290	9.8	Α
		EBT	470	0.670	12.0	В	390	0.760	9.0	Α
Turnberry	Signal	WBT	1,085	0.930	37.3	D	478	0.650	13.2	В
Boulevard		WBR	30	0.050	10.1	В	40	0.090	6.2	Α
		SBL	220	0.500	58.6	E	170	0.710	74.9	E
		SBR	373	0.890	79.0	E	173	0.790	79.2	E
		NWL	270	2.193	730.6	F	128	1.263	388.0	F
North Pointe Boulevard	Stop	NWR	43	0.377	25.5	D	28	0.270	25.6	D
		SWL	5	0.066	11.2	В	13	0.133	12.5	В
		WBL/T/R	118	1.516	599.3	F	113	1.404	533.2	F
Timber Lane/ Creek Bank	Ston	EBL/T/R	543	3.996	1518.3	F	328	3.248	1251.0	F
Creek Bank Drive	Stop	NBL	0	0.015	10.2	В	5	0.060	10.7	В
		SBL	8	0.088	11.6	В	13	0.155	12.4	В
F. II. C		WBL	5	0.074	11.6	В	8	0.084	11.2	В
Fells Cove Boulevard	Stop	NBL	85	0.847	224.9	F	78	0.789	216.4	F
		NBR	35	0.333	27.6	D	18	0.202	21.6	С
		Overall			83.1	F			127.6	F
		EBL	1,550	1.390	231.3	F	868	1.170	162.3	F
Narcoossee		EBR	695	1.050	97.6	F	2,048	1.960	503.7	F
Narcoossee Road	Signal	SET	568	0.950	54.1	D	1,280	1.090	90.1	F
		SER	0	0.000	0.0	0	0	0.000	0.0	0
		NWL	1,153	1.370	218.0	F	988	1.220	170.7	F
		NWT	645	0.870	24.1	С	273	0.440	10.0	В

### 8.2 Build Operational Analysis

The Build operational analysis represents the evaluation of the operational performance on the corridor with proposed improvements. Under the Build scenario, the corridor operations are evaluated assuming the transformation of the corridor to a four-lane divided typical section with turn lane and signal phasing improvements at signalized intersections along the corridor. The Build alternative also includes improvements at unsignalized locations that are anticipated to experience high levels of delay. The following planned improvements were assumed in this evaluation:

- the extension of Simpson Road, east of Boggy Creek Road, to the future extension of the Osceola
   Parkway and associated improvements at the intersection of Boggy Creek Road & Simpson Road;
- and, widening of Narcoossee Road to six lanes.

The lane geometries assumed for each intersection in the Build analysis are presented in **Figure 24**. This same geometry was assumed for all future years (2025, 2035, and 2045).

### 8.2.1 Roadway Level of Service Analysis - Build

Roadway segment level of service analysis (peak hour directional) was performed for each of the segments within the study area using the forecasted Build turning movement volumes and generalized capacities obtained from 2020 FDOT Generalized Service Volume Tables. The results of this analysis are presented in **Table 26**. Under the Build alternative, all roadway segments are anticipated to meet the LOS standard (E) during the AM and PM peak hours in Years 2025, 2035, and 2045.

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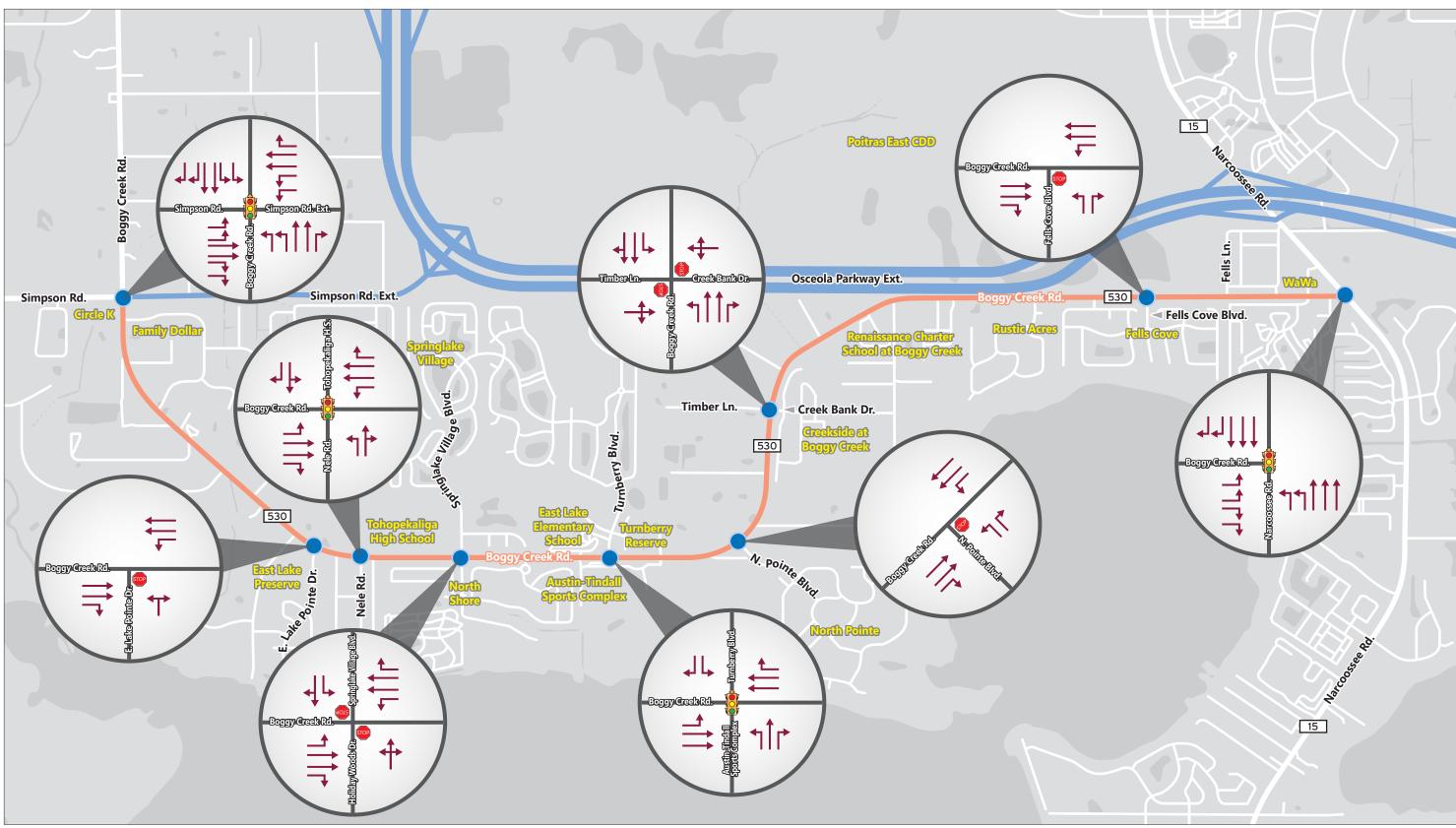






Figure 17

Future Year Build Geometry
Boggy Creek Road Project Traffic
Analysis Report

Table 26: Build Roadway Segment Level of Service Analysis

						Bui	ld AM Pea	k Hour (	Condition	ons					В	uild PM Pe	ak Hour	Condit	ions		
Roadway/Segment	Number of Lanes	Targeted LOS Standard	LOS E Capacity	Ye	ar 2025		Ye	ar 2035		Ye	ar 2045		Ye	ar 2025		Ye	ar 2035		١	fear 2045	
				Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS	Peak Volume	V/C Ratio	LOS
Boggy Creek Road																					
North of Simpson Road	4 Lane Divided	E	2,100	1,398	0.670	С	1,736	0.830	С	2,074	0.990	D	1,237	0.590	С	1,665	0.790	С	2,094	0.997	D
Simpson Road to East Lake Pointe Drive	4 Lane Divided	E	2,100	1,327	0.630	С	1,801	0.860	С	2,097	1.000	E	1,204	0.570	С	1 <i>,</i> 713	0.820	С	2,080	0.990	D
East Lake Pointe Drive to Nele Road	4 Lane Divided	E	2,100	1,125	0.540	С	1,620	0.770	С	2,081	0.990	D	1,144	0.540	С	1,621	0.770	С	2,056	0.980	D
Nele Road to Springlake Village Boulevard	4 Lane Divided	E	2,100	1,012	0.480	С	1,520	0.720	С	1,979	0.940	D	1,118	0.530	С	1,594	0.760	С	2,069	0.990	D
Springlake Village Boulevard to Turnberry Boulevard	4 Lane Divided	Е	2,100	873	0.420	С	1,396	0.660	С	1,921	0.910	С	966	0.460	С	1,431	0.680	С	1,895	0.900	С
Turnberry Boulevard to North Pointe Boulevard	4 Lane Divided	Е	2,100	796	0.380	С	1,233	0.590	С	1,755	0.840	С	935	0.450	С	1,400	0.670	С	1,864	0.890	С
North Pointe Boulevard to Timber Lane	4 Lane Divided	E	2,100	835	0.400	С	1,284	0.610	С	1,733	0.830	С	895	0.430	С	1,360	0.650	С	1,824	0.870	С
Timber Lane to Fells Cove Boulevard	4 Lane Divided	Е	2,100	857	0.410	С	1,31 <i>7</i>	0.630	С	1 <b>,77</b> 4	0.840	С	896	0.430	С	1,312	0.620	С	1,743	0.830	С
Fells Cove Boulevard to Narcoossee Road	4 Lane Divided	E	2,100	886	0.420	С	1,338	0.640	С	1,816	0.860	С	861	0.410	С	1,293	0.620	С	1,726	0.820	С

### 8.2.2 Intersection Level of Service Analysis - Build

Intersection analysis was performed to determine if there are any deficiencies for the signalized and unsignalized intersections under future year (2025, 2035, and 2045) conditions. Forecasted turning movement volumes as shown in **Section 7.5** were used to analyze the Build alternative. The results of the intersection analysis are summarized in **Tables 27, 28, and 29** for years 2025, 2035, and 2045, respectively. **Tables 27-29** show a summary of the 95<sup>th</sup> percentile queues (in feet), volume-to-capacity ratios, average delays (in seconds), and LOS for each of the intersection movements under AM and PM peak hour conditions. For signalized intersections, these tables also show the average overall intersection delay (in seconds) and LOS. Synchro output sheets for each of these analyses are provided in **Appendix K**.

#### **Year 2025**

- All signalized intersections are anticipated to operate at LOS E or better in Year 2025.
- All stop-controlled movements at unsignalized intersections along the corridor are anticipated to operate with reasonable delays and v/c ratios.

#### **Year 2035**

- All signalized intersections are anticipated to operate at LOS E or better in Year 2035.
- Notably high average delays and v/c ratios are anticipated in the PM peak hour for the shared northbound left/through/right at Springlake Village Boulevard. The lane group is expected to operate with a 518.0 sec/veh average delay and a v/c ratio of 1.772. Using forecasted traffic volumes, a planning-level analysis indicates that this intersection could meet signal warrants 1A and 1B by 2035 (provided in **Appendix K**). **Table 30** shows the performance of this intersection, if signalized in 2035. The intersection is expected to operate with low delays and acceptable levels of service.

### **Year 2045**

- All signalized intersections are anticipated to operate at LOS E or better in Year 2045.
- Notably high average delays and v/c ratios are expected for several stop-controlled movements on the corridor's side streets.
  - O During the AM peak hour and PM peak hour, the shared northbound left/through/right at Springlake Village Boulevard is expected to experience exceptionally high average delays and v/c ratios. In the PM peak, the southbound left is also expected to operate with a high delay and high v/c ratio. Using forecasted traffic volumes, a planning-level analysis

indicates that this intersection could meet signal warrants 1A and 1B by 2035 (provided in **Appendix K**). **Table 30** shows the performance of this intersection, if signalized in 2045. The intersection is expected to operate with low delays and acceptable levels of service.

Delays and v/c ratios for the westbound shared left/through movement at Timber Lane/Creek Bank Drive are anticipated to be elevated in both the AM and PM peak hours. Using forecasted traffic volumes, a planning-level analysis indicates that this intersection could meet signal warrant 1B by 2045 (provided in **Appendix K**). **Table 30** shows the performance of this intersection, if signalized in 2045. The intersection is expected to operate with low delays and acceptable levels of service.

Table 27: Year 2025 Build Intersection Level of Service Analysis

Study Intersections along Boggy	Control Type	Movement		Year 2025 A	M Peak Hour			Year 2025 P	M Peak Hour	
Creek Road	-71		95% Queue	v/c ratio	Delay (s)	LOS	95% Queue	v/c ratio	Delay (s)	LOS
		Overall			59.5	E			45.2	D
		EBL	568	1.090	114.4	F	420	0.990	83.0	F
		EBT	60	0.130	40.1	D	80	0.200	39.1	D
		EBR	185	0.360	28.3	С	283	0.640	35.0	D
		WBL	85	0.550	61.6	E	85	0.560	56.4	E
		WBT	100	0.410	55.4	E	80	0.360	50.9	D
Simpson Road	Signal	WBR	195	0.630	55.9	Е	78	0.260	44.8	D
		NBL	518	1.090	118.4	F	315	0.970	89.7	F
		NBT	268	0.400	23.8	С	148	0.240	21.6	С
		NBR	100	0.170	16.7	В	78	0.150	16.3	В
		SBL	68	0.660	66.9	Е	98	0.720	60.7	Е
		SBT	168	0.280	32.6	С	255	0.440	29.9	С
		SBR	203	0.360	19.4	В	203	0.400	16.8	В
East Lake Pointe	Stop	WBL	0	0.015	9.7	Α	3	0.044	11.9	В
Drive	310b	NBL/R	23	0.242	20.5	С	15	0.181	22.1	С
		Overall			19.6	В			12.6	В
		EBL	35	0.350	10.1	В	10	0.110	6.5	Α
		EBT	145	0.420	10.8	В	240	0.660	12.5	В
		EBR	10	0.040	8.1	Α	8	0.040	7.0	Α
Nele Road/		WBL	8	0.060	8.8	Α	8	0.090	8.3	Α
Tohopekaliga	Signal	WBT	245	0.630	16.0	В	158	0.470	10.9	В
High School		WBR	60	0.200	11. <i>7</i>	В	5	0.020	7.6	Α
		NBL	68	0.550	41.5	D	23	0.160	31.5	С
		NBT/R	53	0.290	29.0	С	5	0.040	29.0	С
		SBL/T	85	0.440	32.6	С	25	0.140	29.8	С
		SBR	250	0.920	68.8	Е	40	0.350	30.3	С
		EBL	5	0.055	10.0	Α	20	0.215	10.7	В
Springlake		WBL	0	0.016	9.3	Α	5	0.058	10.7	В
Village	Stop	NBL/T/R	28	0.267	21.8	С	78	0.593	59.4	F
Boulevard		SBL	30	0.299	29.2	D	28	0.290	44.5	Е
		SBR	38	0.340	14.3	В	10	0.107	11.3	В
		Overall			18.5	В			10.0	В
		EBL	18	0.110	6.7	Α	23	0.200	4.9	Α
		EBT	98	0.270	5.4	Α	70	0.330	3.6	Α
Turnberry	Signal	WBT	188	0.330	12.1	В	153	0.330	9.5	Α
Boulevard		WBR	20	0.040	9.7	Α	30	0.080	7.8	Α
		SBL	165	0.480	47.7	D	105	0.530	50.5	D
		SBR	303	0.870	69.7	Е	105	0.580	52.3	D
		NWL	33	0.320	22.4	С	15	0.177	22.9	С
North Pointe	Stop	NWR	15	0.159	12.0	В	8	0.099	12.1	В
Boulevard	•	SWL	3	0.042	9.8	Α	8	0.086	10.7	В
		EBL/T/R	5	0.061	16.1	С	5	0.071	18.1	С
Timber Lane/	_	WBL/T/R	28	0.280	20.0	С	18	0.200	21.1	С
Creek Bank Drive	Stop	NBL	0	0.002	8.9	Α	3	0.037	10.1	В
DIIVE		SBL	3	0.034	9.9	Α	5	0.057	10.2	В
		WBL	3	0.043	9.8	Α	5	0.057	9.9	Α
Fells Cove	Stop	NBL	10	0.112	19.3	С	8	0.084	19.9	С
Boulevard	•	NBR	10	0.119	12.0	В	5	0.066	11.6	В
		Overall			21.6	С			20.7	С
		EBL	248	0.870	47.9	D	163	0.800	44.0	D
		EBR	140	0.440	22.9	С	163	0.620	26.8	С
Narcoossee	Signal	SET	150	0.360	17.9	В	320	0.760	19.8	В
Road	- J <del></del>	SER	50	0.160	16.2	В	108	0.360	14.2	В
		NWL	268	0.890	50.5	D	200	0.850	44.5	D
		NWT	205	0.550	8.1	A	63	0.290	4.7	A
		14441	200	0.550	1 0.1		L 00	0.270	7./	~

Table 28: Year 2035 Build Intersection Level of Service Analysis

Study Intersections along Boggy	Control Type	Movement		Year 2035 A	M Peak Hour			Year 2035 P	M Peak Hour	
Creek Road	1,900		95% Queue	v/c ratio	Delay (s)	LOS	95% Queue	v/c ratio	Delay (s)	LOS
		Overall			67.0	E			50.3	D
		EBL	573	1.000	93.1	F	435	0.950	74.6	E
		EBT	195	0.360	50.2	D	245	0.590	49.0	D
		EBR	248	0.410	29.0	С	408	0.790	42.4	D
		WBL	258	0.860	77.2	E	245	0.850	66.4	E
		WBT	365	0.980	105.1	F	253	0.840	68.4	Е
Simpson Road	Signal	WBR	<i>7</i> 70	1.180	169.0	F	208	0.460	42.8	D
		NBL	613	1.010	92.6	F	370	0.940	79.6	E
		NBT	393	0.530	34.7	С	223	0.360	31.9	С
		NBR	343	0.470	25.3	С	265	0.430	24.6	С
		SBL	203	0.810	72.7	E	280	0.880	72.0	E
		SBT	268	0.440	47.1	D	380	0.650	41.1	D
		SBR	283	0.450	27.2	С	260	0.470	21.6	С
East Lake Pointe	_	WBL	3	0.033	11.8	В	8	0.098	16.6	С
Drive	Stop	NBL/R	68	0.524	42.9	E	48	0.438	50.3	F
		Overall			28.1	С			21.3	С
		EBL	55	0.540	18.4	В	13	0.170	8.5	Α
		EBT	260	0.620	14.0	В	523	0.940	26.4	С
		EBR	15	0.050	8.6	A	15	0.060	7.7	Α
Nala Danal /		WBL	8	0.090	10.0	В	23	0.240	17.3	В
Nele Road/ Tohopekaliga	Signal	WBT	510	0.940	30.0	С	270	0.660	13.6	В
High School	Ü	WBR	70	0.220	12.0	В	8	0.030	7.6	Α
		NBL	223	0.980	112.1	F	65	0.420	37.5	D
		NBT/R	60	0.290	30.4	С	13	0.100	31.9	С
		SBL/T	95	0.460	34.4	С	33	0.180	33.1	С
		SBR	250	0.890	62.2	E	50	0.380	33.1	С
		EBL	8	0.098	13.4	В	33	0.311	14.2	В
		WBL	3	0.045	11.0	В	10	0.124	14.5	В
Springlake Village	Stop	NBL/T/R	90	0.651	64.6	F	245	1.772	518.0	F
Boulevard	0.00	SBL	93	0.724	110.0	F	88	0.838	212.4	F
		SBR	70	0.509	23.3	C	13	0.148	13.8	В
		Overall	, 0	0.507	18.6	В	10	0.140	10.6	В
		EBL	20	0.180	10.0	A	25	0.290	7.2	A
		EBT	188	0.440	6.7	A	135	0.500	4.6	A
Turnberry	Signal	WBT	358	0.590	15.8	В	265	0.520	11.7	В
Boulevard	orginar	WBR	23	0.050	9.8	A	35	0.090	7.9	A
		SBL	175	0.500	47.9	D	113	0.550	51.9	D
		SBR	313	0.880	70.7	E	13	0.610	55.2	E
		NWL	85	0.616	57.0	F	38	0.356	46.3	E
North Pointe	Stop	NWR	23	0.234	15.9	C	13	0.356	15.9	С
Boulevard	310p	SWL	5	0.234	12.5	В	13	0.134	14.3	В
		EBL/T/R	15	0.071	32.3	D	18	0.147	35.8	E
Timber Lane/		WBL/T/R	140	0.163	79.5	F	73	0.202	58.1	F
Creek Bank	Stop	NBL NBL	0	0.813	11.1	В	5	0.066	12.5	В
Drive		SBL	8	0.078	12.8	В	13	0.088	13.7	В
		WBL	5	0.076	12.8	В	8	0.138	12.8	В
Fells Cove	C+	NBL	23	0.076	36.4	E	18	0.095	35.5	E E
Boulevard	Stop	-				C		-		
<u> </u>		NBR	18	0.184	16.0		10	0.115	14.8	В
		Overall	400	1.0/0	39.7	D	202	0.000	32.8	С
		EBL	480	1.060	91.2	F	283	0.930	58.2	E
Narcoossee	<b>.</b>	EBR	233	0.580	22.5	С	273	0.750	27.6	С
Road	Signal	SET	245	0.530	25.6	С	523	0.970	39.8	D
		SER	128	0.300	23.4	C	235	0.620	24.0	C
		NWL	580	1.100	103.7	F	335	0.940	55.6	E
		NWT	283	0.610	10.5	В	108	0.350	6.3	Α

Table 29: Year 2045 Build Intersection Level of Service Analysis

Study Intersections along Boggy	Control Type	Movement		Year 2045 A	M Peak Hour			Year 2045 P	M Peak Hour	
Creek Road			95% Queue	v/c ratio	Delay (s)	LOS	95% Queue	v/c ratio	Delay (s)	LOS
		Overall			76.6	E			54.2	D
		EBL	695	1.030	113.8	F	510	0.960	83.8	F
		EBT	343	0.520	58.6	E	475	0.900	72.6	E
		EBR	333	0.450	30.8	С	525	0.820	46.3	D
		WBL	445	0.900	85.4	F	448	0.950	87.1	F
		WBT	543	0.880	81.5	F	435	0.920	79.5	E
Simpson Road	Signal	WBR	1,245	1.150	148.6	F	318	0.500	37.9	D
		NBL	633	0.940	81.5	F	478	0.950	85.1	F
		NBT	645	0.800	63.6	E	235	0.300	24.0	С
		NBR	693	0.740	45.1	D	338	0.500	15.2	В
		SBL	355	0.880	86.5	F	488	0.960	85.1	F
		SBT	430	0.750	75.6	Е	405	0.520	28.2	С
		SBR	425	0.590	44.5	D	213	0.390	11.0	В
East Lake Pointe		WBL	5	0.059	14.8	В	15	0.181	23.9	С
Drive	Stop	NBL/R	140	0.880	115.0	F	125	0.934	173.5	F
		Overall			52.9	D			36.8	D
		EBL	265	1.040	130.2	F	38	0.280	16.0	В
		EBT	638	0.760	23.6	С	1,318	1.030	49.4	F
		EBR	33	0.060	11.9	В	35	0.070	8.7	Α
Niele Decel/		WBL	15	0.150	18.6	В	90	0.570	42.0	D
Nele Road/ Tohopekaliga	Signal	WBT	1,340	1.050	65.0	F	585	0.740	17.8	В
High School		WBR	125	0.200	14.6	В	13	0.030	8.2	A
		NBL	415	1.090	160.9	F	203	0.660	71.3	E
		NBT/R	110	0.220	45.0	D	35	0.110	52.7	D
		SBL/T	178	0.410	51.5	D	73	0.210	55.4	E
		SBR	298	0.640	52.6	D	98	0.300	54.3	D
		EBL	15	0.165	19.0	С	58	0.450	21.2	С
		WBL	8	0.092	13.7	В	25	0.248	22.3	С
Springlake Village	Stop	NBL/T/R	375	5.000	2126.2	F	428	15.395	7382.6	F
Boulevard	0.00	SBL	183	1.704	550.6	F	+	+	+	+
		SBR	133	0.740	48.1	E	20	0.205	17.7	С
		Overall			21.7	С			11.5	В
		EBL	55	0.310	23.0	С	63	0.410	11.9	В
		EBT/R	363	0.600	9.5	A	228	0.640	5.2	A
Turnberry	Signal	WBT	723	0.800	23.2	C	410	0.640	11.9	В
Boulevard	0.9	WBR	30	0.050	10.2	В	38	0.090	6.3	A
		SBL	220	0.490	58.4	E	160	0.730	71.5	E
		SBR	360	0.880	72.9	E	163	0.810	76.5	E
		NWL	180	1.144	222.2	F	80	0.702	130.3	F
North Pointe	Stop	NWR	38	0.344	22.8	C	23	0.238	22.4	C
Boulevard	U.UP	SWL	10	0.119	16.9	С	25	0.252	21.4	С
		EBL/T/R	55	0.519	98.5	F	58	0.557	110.6	F
Timber Lane/		WBL/T/R	428	2.105	606.3	F	240	1.579	414.4	F
Creek Bank	Stop	NBL	3	0.027	14.7	В	10	0.113	16.5	C
Drive		SBL	15	0.161	18.2	С	30	0.288	21.2	С
		WBL	13	0.137	18.2	С	15	0.159	17.9	С
Fells Cove	Stop	NBL	50	0.481	85.2	F	43	0.424	77.9	F
Boulevard	p	NBR	30	0.288	23.4	C	18	0.189	20.3	C
		Overall		3.230	49.1	D	1,0	1 3	56.5	E
		EBL	730	1.050	96.5	F	623	1.110	125.3	<b>-</b>
		EBR	330	0.570	18.2	В	590	0.880	43.9	D
Narcoossee	Signal	SET	515	0.900	59.6	E	898	1.010	63.2	F
Road	Signal	SER	315	0.680	51.1	D	495	0.790	41.2	D
		NWL	820	1.030	83.9	F	673	1.030	91.5	F
		NWT	513	0.690	17.7	В	210	0.380	8.1	A
		1441	313	0.070	17.7	l "	<u> </u>	0.300	0.1	^

Table 30: Proposed Signalization Intersection Level of Service Analysis

Study				AM Peak	Hour			PM Peak	Hour						
Intersections along Boggy Creek Road	Control Type	Movement	95% Queue	v/c ratio	Delay (s)	LOS	95% Queue	v/c ratio	Delay (s)	LOS					
		Y	ear 2035	Build Cor	nditions										
		Overall			6.5	Α			4.3	Α					
		EBL	3	0.150	0.9	Α	13	0.470	2.7	Α					
		EBT	8	0.460	0.6	Α	10	0.570	0.6	Α					
		EBR	0	0.030	0.0	Α	0	0.080	0.1	Α					
Springlake	C:l	WBL	3	0.070	0.3	Α	5	0.180	1.2	Α					
Village Boulevard	Signal	WBT	15	0.600	1.0	Α	8	0.440	0.5	Α					
		WBR	0	0.040	0.1	Α	3	0.080	0.1	Α					
		NBL/T/R	143	0.280	45.7	D	173	0.340	55.6	Е					
		SBL	90	0.190	43.2	D	63	0.140	50.3	D					
		SBR	268	0.490	48.6	D	108	0.220	51.1	D					
		Y	ear 2045	Build Cor	nditions										
		Overall			7.6	Α			9.0	Α					
		EBL	5	0.230	1.6	Α	198	0.850	25.9	С					
		EBT	10	0.560	0.6	Α	5	0.750	0.3	Α					
	Signal -	Signal -	EBR	0	0.030	0.0	Α	0	0.100	0.0	Α				
Springlake			Signal -	Signal -	WBL	3	0.130	0.6	Α	43	0.340	11.9	В		
Village Boulevard					Signal	Signai	WBT	20	0.730	1.3	Α	365	0.590	10.9	В
					WBR	0	0.040	0.0	Α	38	0.090	6.3	Α		
				NBL/T/R	215	0.540	67.6	Е	205	0.430	60.2	Е			
		SBL	123	0.330	58.5	Е	70	0.170	52.6	D					
		SBR	318	0.660	66.3	Е	113	0.240	53.0	D					
		Overall			11.2	В			7.7	Α					
		EBL/T/R	23	0.110	22.9	С	28	0.160	31.0	С					
		WBL/T/R	128	0.580	27.0	С	93	0.500	34.0	С					
Timber		NBL	5	0.050	15.0	В	15	0.180	12.4	В					
Lane/Creek Bank	Signal	NBT	213	0.790	10.3	В	135	0.690	6.2	Α					
Drive		NBR	8	0.060	4.4	Α	8	0.090	3.0	Α					
		SBL	30	0.290	22.3	С	50	0.430	18.9	В					
		SBT	190	0.720	9.9	Α	133	0.660	6.4	Α					
		SBR	198	0.720	9.9	Α	140	0.670	6.5	Α					

### 8.3 Safety Outcomes

An HSM Safety analysis was conducted for the No Build and Build alternatives using predictive crash methods in order to quantify and compare the potential future crashes. The results of this analysis are presented in **Table 31**. The predictive method was able to account for all proposed roadway improvements included in the recommendations, except for the potential future signalization of existing stop-controlled intersections and the inclusion of a shared use path. The associated calculations and supporting documentation of this analysis are presented in **Appendix L**.

Table 31: Predicted Average Crash Frequency for 2045 Conditions (crashes/year)

Facility	Fatal and	injury (FI)	То	tal
racility	No Build	Build	No Build	Build
Segment				
Simpson Road to East Lake Pointe Dr	4.187	3.277	14.740	11.796
East Lake Pointe Dr to Nele Road	0.607	0.467	1.970	1.675
Nele Road to Springlake Village Blvd	1.173	1.023	3.799	3.682
Springlake Village Blvd to Turnberry Blvd	1.470	1.449	4.849	5.216
Turnberry Blvd to North Pointe Blvd	1.112	1.166	3.963	4.198
North Pointe Blvd to Timber Lane	1.542	1.447	5.358	5.184
Timber Lane to Fells Cove Blvd	3.676	3.743	13.093	13.474
Fells Cove Blvd to Narcoossee Road	1.809	1.785	6.055	6.411
Intersection				
Simpson Road	3.353	2.262	9.476	6.407
East Lake Pointe Dr	0.796	0.969	2.202	2.667
Nele Road	1.436	2.342	4.090	6.531
Springlake Village Blvd	0.770	1.035	1.803	2.349
Turnberry Blvd	1.067	1.902	3.093	5.298
North Pointe Blvd	0.691	1.062	1.967	3.111
Timber Lane	0.851	1.146	2.019	2.613
Fells Cove Blvd	0.593	0.886	1.595	2.420
Narcoossee Road	2.972	2.976	10.321	10.785
Total	28.103	28.936	90.392	93.816

With the implementation of the improvements in the Build alternative, including addition of a raised median, roadway widening, and incorporation of turn lane improvements, the following safety outcomes are anticipated to result:

- The total number of crashes in the corridor is expected to increase only slightly from No Build (90.4 crashes/year) to Build conditions (93.8 crashes/year). However, it is important to note that the Build condition accommodates a substantial increase in corridor traffic volumes; thus, the actual crash rate for the corridor is expected to be lower under Build conditions.
- The number of fatal and injury crashes are anticipated increase only slightly from the No Build (28.1 crashes/year) to Build alternative (28.9 crashes/year). Again, given that the Build alternative accommodates a much larger volume of traffic, the actual rate of crashes is expected to be lower in the Build alternative.
- Not inherently accounted for in this evaluation, but important to consider qualitatively, is the provision
  of bicycle facilities proposed in the Build alternative. The Build alternative is expected to provide
  an off road (shared use path) facility for cyclists throughout the entirety of the corridor. This will
  provide cyclists a greater separation from vehicular traffic.

# 9 Noise & Air Quality

### 9.1 Noise Analysis

The existing, opening year and design year AADT's information for No Build and Build conditions are provided in **Appendix M** for Noise Analysis, as per the FDOT Noise Policy (Part 2, Chapter 17, Section 17-4.2 of the PD&E Manual). The truck% distributions were obtained from FDOT CoSite 920105.

### 9.2 Air Quality Analysis

The opening year and design year traffic data for No Build and Build conditions for the intersection of Boggy Creek Road & East Lake Pointe Drive is provided in **Appendix N** for Air Quality Analysis, as per the FDOT Air Quality Policy (Part 2, Chapter 19 of the PD&E Manual – Figure 19-3).

# 10 Recommendations

Based on the evaluation of operating conditions for the Design Year 2045 Build traffic conditions, this study recommends the roadway and intersection capacity improvements as shown in **Table 32** and on **Figure 18**, to accommodate projected traffic volumes and enhance safety within the study corridor.

**Table 32: Recommendations** 

Roadway/Intersection	Improvement
General	Provide appropriate corridor and intersection lighting
	Reconstruct roadway to a four-lane divided roadway with a 22' raised median (or 15.5' raised median in constrained areas), a shared use path on the south side of the road, and a sidewalk on the north side of the road
Simpson Road#	Coordinate geometric improvements with the upcoming Simpson Road extension project.
	The ultimate configuration of the intersection should include two through lanes and dual left turn lanes for all approaches. The eastbound and southbound approaches should have dual right turn lanes; the westbound and northbound should have single right turn lanes.
	Signal Phasing: Overlap all right turn movements with complementary left turn movements.
Nele Road	Add a northbound left turn lane
Springlake Village Boulevard	Signalize intersection by 2035*
Timber Lane/Creek Bank Drive	Signalize intersection by 2045*
Narcoossee Road	Add a second northbound left turn lane
	Add a second southbound right turn lane
	Add a second eastbound left turn lane
	Add a second eastbound right turn lane
	Signal Phasing: Overlap eastbound right turn with northbound left turn

<sup>\*</sup> Actual signalization should be based on a signal warrant analysis using observed turning movement counts.

<sup>#</sup> The intersection of Boggy Creek Road and Simpson Road was evaluated under "Simpson Road Improvements PD&E Services".

\\vhb\gbl\proj\Orlando\63689.00 Boggy Creek Rd Widening\Graphics\FIGURES\AI

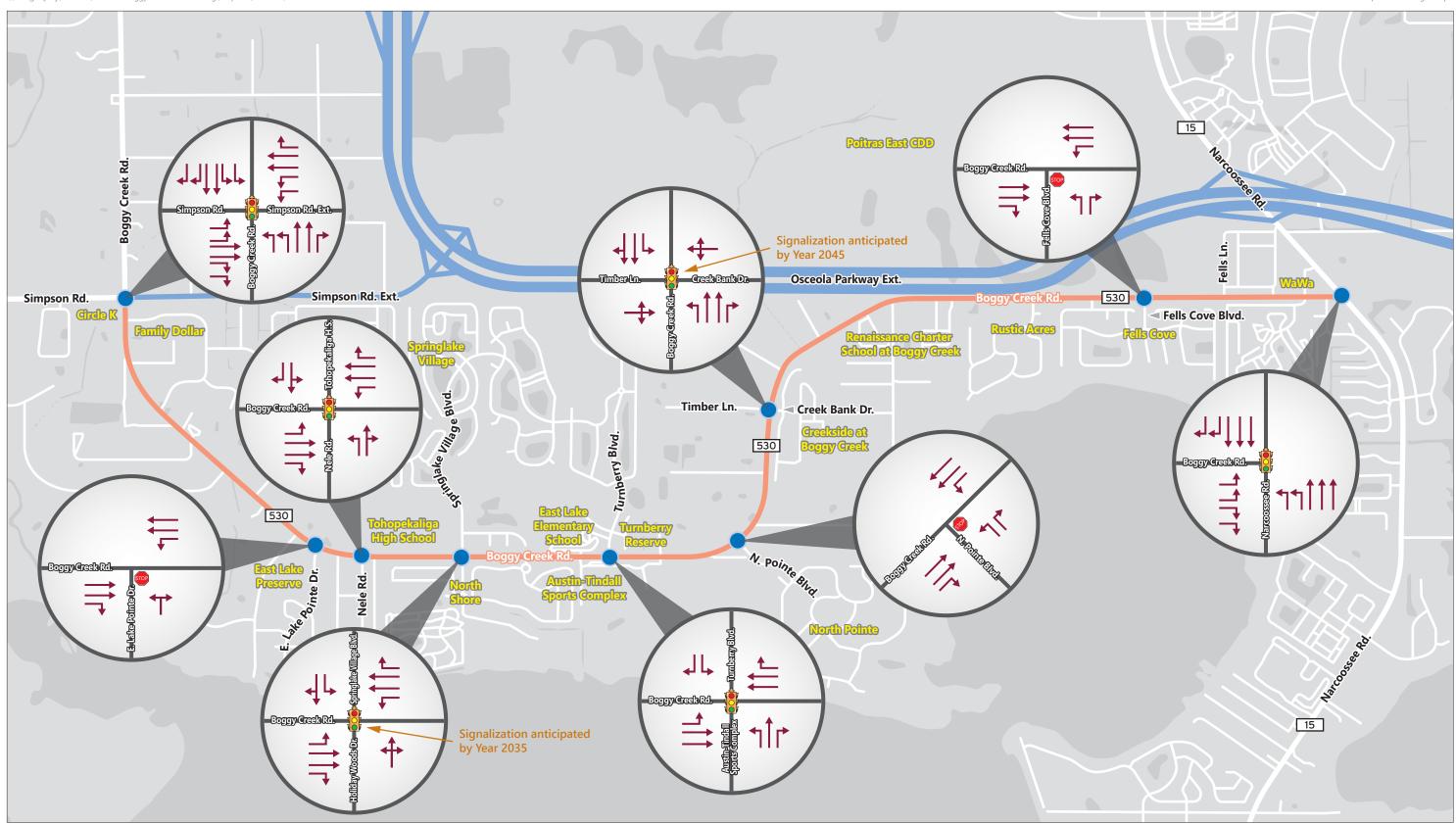






Figure 18

Future Year Recommended Geometry
Boggy Creek Road Project Traffic
Analysis Report

In addition to the proposed improvements, this study used the 95th percentile queues from the HCM intersection analysis, to develop the queue length recommendations at the signalized intersections along the study corridor. **Table 33** shows the recommended queue lengths for the Design Year 2045 design hour conditions.

It should be noted that the specific lengths do not include the taper or deceleration distance (refer to FDOT index 301 to determine the appropriate specific taper and deceleration length). These queue lengths are recommended at locations where these lengths can be achieved. Actual design and implementation of these queue length requirements will be a function of design and the physical practicality of their construction.

Table 33: Recommended Queue Storage Lengths for Turn Lanes at Signals

Intersection			Turn L	ane Que	ue Length	(feet)		
intersection	EBL	EBR	WBL	WBR	NBL	NBR	SBL	SBR
Simpson Road	700	525	450	1,250	650	700	500	425
Nele Road	275	50	100	125	425	-	-	300
Springlake Village Blvd	200	25	50	50	1	1	-	325
Turnberry Blvd	75	-	1	50	1	1	225	375
Timber Lane/Creek Bank Drive	-	-	1	-	25	25	50	200
Narcoossee Road	750	600	-	-	825	-	-	500

# 11 Appendices

**Appendix A** – Response to Comments

**Appendix B** – Boggy Creek Road Traffic Methodology

**Appendix C** – Raw Traffic Counts

**Appendix D** – Existing Synchro Intersection Analysis Outputs

**Appendix E** – Crash Data Information

**Appendix F** – Model Validation Information and Model Plots

**Appendix G** – BEBR Population Forecasts

**Appendix H** – Trends Analysis

**Appendix I** – TURNS5 Output Sheets

**Appendix J** – No Build Conditions Synchro Intersection Analysis Outputs

**Appendix K** – Build Conditions Synchro Intersection Analysis Outputs

Appendix L – HSM Predictive Analysis

**Appendix M –** Noise Analysis Traffic Data

Appendix N - Air Quality Analysis Traffic Data

# Appendix A

# Response to Comments

Boggy Creek Draft Phase 1 PTAR Response to Comments 10/23/2020				
Number	Comments (10/19/2020)	Responses (10/23/2020)		
1	Executive Summary: Please provide an executive summary in the final PTAR. It's not needed for the Phase 1 – Existing Conditions Report, but it would be helpful in the final document.			
2	·	The Seasonal Factor for Boggy Creek Road will be updated from 0.96 to 1.00 the FDOT Peak Seasonal Factor summary table for Orange County.		
3	Page 17 / 18: Volumes in Figure 5: The volumes in Figure 5 do not always match the volumes in Table 1. For example, north and west of the intersection of Boggy Creek Road and Simpson Road. Please revise as needed.	The volumes in Table 1 were obtained from the available traffic count locations. The Existing AADT's shown in Figure 5 were developed based on applying the measured K factor obtained from the existing traffic data to the TMC counts obtained from Street Light Data for consistency.  Figure 5 shows the final set of existing AADT volumes. This will be clarified in the report.		
4	Page 19: Previous TMC's: Please provide the turning movement count data from previous traffic studies that were used to check the streetlight data for reasonableness. Several of the approach volumes in the streetlight data do not appear to match approach volumes from the roadway segment count data.	The TMCs from previous traffic studies will be provided in the traffic count appendix section.		
5	intersection turning movement volumes and briefly explain why changes were made. This does not need to be an exhaustive process, but general assumptions and considerations would be helpful.			
6	Page 21: Intersection Analysis: The County does not require LOS E conditions for transportation facilities. Please include intersection volume-to-capacity ratios as a performance metric. A v/c ratio of less than 1.0 is considered desirable but is not required by Osceola County. For unsignalized intersection analyses, please use SimTraffic to calculate the anticipated queues and performance.	<ol> <li>Target LOS E standard will be removed from the table. V/C ratio's will be added to table to reflect the overall intersection operation and individual movements.</li> <li>As mentioned in the Traffic Analysis Methodology, HCM 6<sup>th</sup> Edition based queues and LOS will be provided for the unsignalized intersections. A new table summarizing the queues at all intersections will also be added to the report.</li> </ol>		
7	Page 25: Crash Trends: The number of crashes per year increased significantly in 2018, then decreased in 2019, but still significantly higher than in prior years. Are data available for year 2020? While the pandemic has resulted in decreased traffic volumes, it would be interesting to see how the traffic reduction has affected the total number of crashes.	We will verify and review Signal 4 Analytics program to see if the year 2020 crash information is now available. Will not be a full year but will utilize and review the crash information for the year 2020 for the applicable months if the crash information is available.		
8		Additional text will be added to the report to provide a brief summary on how the individual intersection geometry or configuration may contribute to certain type of crashes at the intersection. (i.e. congestion, sight lines, etc.)		
9	Page 31: Fatal Crashes: In addition to occurring during nighttime, several of the fatalities were at or near curves. Are there any safety recommendations to modify the curves, implement medians, or otherwise bring attention to the curves?	This information will be shared with the Design Team and necessary safety		
10	Page 35: D Factor: Recognizing that the current D factor for Narcoossee Road is high, please consider using FDOT's high value, or an average of the actual D factor and FDOT's medium D factor.	The recommended D factor will be adjusted to utilize the average of the FDOT Medium and Measured Characteristic. With this the D factor for Narcoossee Road will now be at a value of 64.8%.		
11	Add text regarding the PD&E build recommendation and expected intersection operation.	Please note the submitted report documents only the existing conditions. This discussion will be part of the next submittal, which will be the full Project Traffic Analysis Report (PTAR).		
12	<ol> <li>For further discussion:</li> <li>Stop controlled intersections at Springlake Village Blvd and East Lake         Point Dr are identified as LOS E/F, will be interesting if build alt requires         signal warrant and signalization at these locations or if an innovative         approach (e.g. RCUT) can be applied.</li> <li>Appears the safety analysis can be expanded by stating anticipated benefits         of build alt since highest accident types are It turn and rear end (67%         combined), which are indicators of congested areas that will be improved         by increased capacity in a road widening. High accident locations along the</li> </ol>	1. In the full PTAR, a preliminary signal warrant analysis will be conducted to determine if these stop-controlled intersections will be meet the applicable signal warrants. In addition, discussions with the Design Team will occur to determine the best intersection operation alternative for these locations (i.e. RCUT, etc.).  2. Agree. In the full PTAR, a section will be provided to include a future safety analysis based on the Highway Safety Manual (HSM) procedures.		

	Boggy Creek Draft Phase 1 PTAR Response to Comments 11/18/2020				
Number	Comments (11/17/2020)	Responses (11/18/2020)			
1	projects listed in Table 1 are anticipated to be completed.	All the planned & programmed improvements were approved by the Osceola County on 10/01/2020. The anticipated completion dates will be included for the planned improvements in Table 1.			
2		for each study roadway. As explained in the report and			
3	future volumes shown in Figure 2 based on existing volumes and the growth rates proposed in Table 5. For example, the	The future volumes are derived using the existing year 2019 AADTs (which were provided in the existing conditions report) and not the 2019 Base year model volumes. We will include the year 2019 AADTs in Figure 2 to avoid confusion.			
4		Please see the above response. We will include the year 2019 AADTs in Figure 3 to avoid confusion.			
5	Appendix C: Trends Analysis: Please include the AADT data used to perform the trend analysis in the Appendix.	The "Count" column shown in each Trends Analysis Sheet (Appendix C) is the AADT data used.			
6	trend analysis varies from segment to segment. Please	To account for the last recession, all the <u>available</u> AADTs from 2012 to 2019 were used in the Trends Analysis Sheets. This will be mentioned in the report.			

### **Draft Boggy Creek Road PTAR - Responses to Comments**

- Re: Comment #2 response, since the study are is anticipated to be a high growth area, please do not include Orange County BEBR Low projection. This portion of the study area is not expected to mimic the overall countywide growth (of Orange County).

  Response: This comment is noted. However, the study used a blended growth rates and not just based on Orange County BEBR Low projection. The growth rates recommended for the study roadways including Boggy Creek Road strive to provide reasonable future volumes and are based on 1) review of model based growth rates, BEBR population estimates, and trends analysis (based on historical traffic counts), 2) existing volumes, 3) future land uses along the study corridor (mostly residential), 4) context classification, 5) County's vision and 6) engineering judgement. For instance, just taking BEBR High projection or model volumes will
- 1st and 2nd bullets on 2nd page of the Exec Summary and in page 76 seem contradictory by stating crashes in build and no-build conditions are "comparable", then stating they are expected to decrease in the build condition (which should be expected).

  Response: The text will be updated accordingly.
- Other findings of the crash analysis should be mentioned in the Exec Summary, particularly that 82% of intersection crashes occur at the Simpson and Narcoossee intersections and list the suggested problems and remedies from pages 24 & 25, particularly the need for intersection lighting. May also want to mention that 3 of the 5 fatal crashes were caused by vehicles drifting into oncoming traffic while going through a curve, which will be mitigated by a divided roadway.

Response: The Executive Summary will be updated with crash analysis findings mentioned above.

• The no-build LOS for 2025, 2035 and 2045, Table 20, the list of recommendations, Table 30, and the recommended intersection configurations, Figure 18, should be included in the Exec Summary.

Response: The Executive Summary will be updated accordingly.

produce volumes that may be unreasonable for the study corridor.

- Should add Poitras East CDD to Fig 1.
   Response: Poitras East CDD will be included in the Figure 1.
- In Section 4 it is mentioned that 509 crashes occurred in the 5-yr period of which 360 were at intersections. However, it is not mentioned if the remaining 149 are concentrated in a specific segment of the corridor or if they are relatively distributed.

  Response: The text will be updated with segment crash information.
- Fig 18, dual turn lanes are shown at locations where peak vol. exceeds 300 except for the SB. Should dual turn lanes be applied at Narcoossee?
   Response: The operational analysis will be updated with dual SBR turn lanes at Boggy Creek
   Rd & Narcoossee Rd intersection.

# **Appendix B**

# Boggy Creek Road Traffic Methodology

# DRAFT Traffic Analysis Methodology for Project Traffic Analysis Report (PTAR)

### **Alternatives Evaluation Study**

Boggy Creek Road Four-lane Widening from Simpson Road to Narcoossee Road

### **Osceola County**

Prime Agreement No: PS-20-11479-DG

**July 2020** 

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## 1 Project Description

### 1.1 Project Background

Osceola County is conducting an Alternatives Evaluation Study followed by a development of design plans for the widening of Boggy Creek Road from Simpson Road to Narcoossee Road. This project involves the two-lane to four-lane widening of Boggy Creek Road within the project limits along with multimodal accommodations, associated drainage improvements and stormwater ponds, and modification of the signalized intersections.

In the existing conditions, Boggy Creek Road is an urban major collector with two travel lanes (one in each direction), with posted speeds ranging from 45 miles per hour (MPH) to 55 MPH. The project is in Osceola County as shown in below **Table 1**.

**Table 1: Boggy Creek Road Existing Roadway Characteristics** 

Roadway ID	From	Begin MP	То	End MP	Functional Class	Speed (MPH)
03500000	Simpson Road	6.166	Morningside Drive	6.640	Urban Major Collector	45
92500000	Morningside Drive	6.640	Narcoossee Road	12.073		55

This document provides details of the technical approach for Project Traffic Analysis of the Boggy Creek Road study corridor. The traffic analysis will be conducted based on methods and procedures described in the 2020 Florida Department of Transportation (FDOT) Project Development & Environment (PD&E) Manual, the 2014 FDOT Traffic Analysis Handbook, and the 2019 FDOT Project Traffic Forecasting Handbook. This traffic analysis will be documented in the Project Traffic Analysis Report (PTAR).

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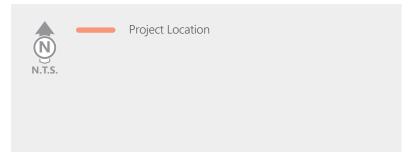




Figure 1

Project Location Map

Boggy Creek Project Traffic Analysis
Report (PTAR)

### 2 Data Collection

Because of the COVID-19 Pandemic, the existing traffic data for pre-COVID traffic conditions (before March 2020) will be collected from various sources including StreetLight data, FDOT, Osceola County, and previous studies. StreetLight data can be used to collect turning movement counts and volume counts for pre-COVID traffic conditions at any desired location. Field visits will also be conducted to collect information on existing geometry, storage lengths, traffic signal heads, and to determine/verify signal phasing information, such as protected/permitted left-turn operations, right-turn-on-red restrictions, phase overlaps, etc. The signal timing plans for signalized intersections will be obtained from Osceola County.

The project corridor includes a total of eight study intersections, of which three (3) are signalized and the remaining five (5) are unsignalized. The study count locations per the approved scope are shown in **Table 2**.

**Table 2: Study Count Locations List** 

Count Type	Study Location
72-hour Bi-directional Volume Count (11 Locations)	<ul> <li>Boggy Creek Road, West of Nele Road/ Tohopekaliga High School</li> <li>Boggy Creek Road, East of Nele Road/ Tohopekaliga High School</li> <li>Nele Road/High School, North of Boggy Creek Road</li> <li>Nele Road/High School, South of Boggy Creek Road</li> <li>Boggy Creek Road, West of Turnberry Boulevard</li> <li>Boggy Creek Road, East of Turnberry Boulevard</li> <li>Turnberry Boulevard, North of Boggy Creek Road</li> <li>Turnberry Boulevard, South of Boggy Creek Road</li> <li>Boggy Creek Road, East of N Pointe Boulevard</li> <li>Boggy Creek Road, West of Narcoossee Road</li> <li>Narcoossee Road, North of Boggy Creek Road</li> </ul>
72-hour Bi-directional Classification Count	<ul> <li>Boggy Creek Road, b/w Simpson Road &amp; Great Oaks</li> <li>Boulevard</li> <li>Boggy Creek Road, northeast of Timber Lane/Creek Bank</li> </ul>
(2 Locations)  8-hour Turning Movement Counts (8 intersections)	<ul> <li>Drive</li> <li>East Lake Pointe Drive – Stop control</li> <li>Nele Road/Tohopekaliga High School – Signal</li> <li>Springlake Village Boulevard – Stop Control</li> <li>Turnberry Boulevard – Signal</li> <li>North Pointe Boulevard – Stop Control</li> <li>Timber Lane/Creek Bank Drive – Stop Control</li> <li>Fells Cove Boulevard – Stop Control</li> <li>Narcoossee Road – Signal</li> </ul>

### 2.1 Traffic Count Sources

As shown in **Figure 2** and **Table 3**, the volume counts will be collected and summarized from different sources including 2019 Florida Traffic Online (FTO) and 2019 Osceola County Counts.

The turning movement counts (TMC) will be obtained from the previous projects as shown in **Figure 3** and **Table 4**.

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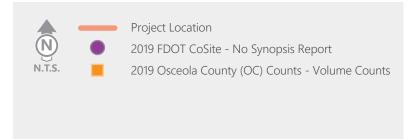




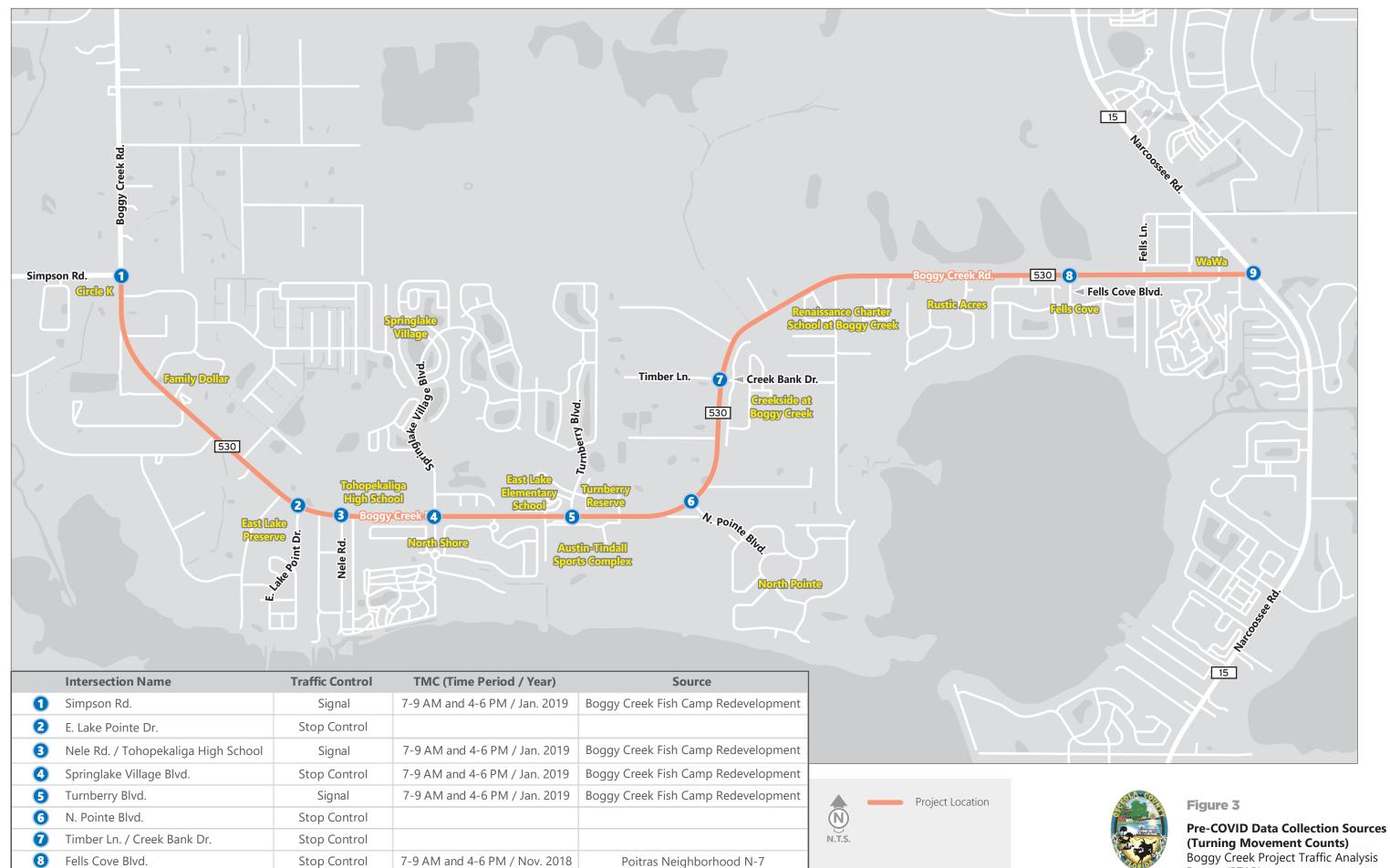
Figure 2

Pre-COVID Data Collection Sources (Volume Counts) Boggy Creek Project Traffic Analysis Report (PTAR)

**Table 3: Pre-COVID Data Collection Sources (Volume Counts)** 

Source	CoSite/Station#	Location	Volume Counts	Date Counted
	757044	Boggy Creek Road, North of Simpson Road	No Synopsis Report	-
2019	927050	Boggy Creek Road, South of Timber Lane	No Synopsis Report	-
FTO	927049	Simpson Road, West of Boggy Creek Road	No Synopsis Report	-
	927045	Narcoossee Road, South of Boggy Creek Road	No Synopsis Report	-
2019	474	Boggy Creek Road b/w Simpson Road & East Lake Pointe Drive		
Osceola	475	Boggy Creek Road b/w Fells Cove Boulevard & Narcoossee Road	Volume	March 2019
County	479	Simpson Road, West of Boggy Creek Road	Volume	IVIGICIT ZOTS
Counts	551	Narcoossee Road, South of Boggy Creek Road		

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Poitras Neighborhood N-7

7-9 AM and 4-6 PM / Nov. 2018

Signal

Narcoossee Rd.

Report (PTAR)

**Table 4: Pre-COVID Data Collection Sources (TMC)** 

Intersection #	Intersection Name	<b>Traffic Control</b>	TMC*	Year	Source
1	Simpson Road	Signal	7-9 AM & 4-6 PM	Jan-19	Boggy Creek Fish Camp Redevelopment
2	East Lake Pointe Drive	Stop control	-	-	-
3	Nele Road/High School	Signal	7-9 AM & 4-6 PM	Jan-19	Boggy Creek Fish Camp Redevelopment
4	Springlake Village Boulevard	Stop control	7-9 AM & 4-6 PM	Jan-19	Boggy Creek Fish Camp Redevelopment
5	Turnberry Boulevard	Signal	7-9 AM & 4-6 PM	Jan-19	Boggy Creek Fish Camp Redevelopment
6	North Pointe Boulevard	Stop control	-	-	-
7	Timber Lane/Creek Bank Drive	Stop control	-	-	-
8	Fells Cove Boulevard	Stop control	7-9 AM & 4-6 PM	Nov-18	Poitras Neighborhood N-7
9	Narcoossee Road	Signal	7-9 AM & 4-6 PM	Nov-18	Poitras Neighborhood N-7

Note: \*TMCs are not available for 8-hours as required per the approved scope

## 2.2 Pedestrian, Bicycle & Other Multimodal Data

Pedestrian and bicycle data will be extracted from the available six turning movement counts as shown in **Table 4**. Pedestrian and bicycle data for the remaining three study intersections will be collected in the field in September 2020 when the Osceola County schools reopen after the summer break. Currently, there are no transit stops (or routes) on Boggy Creek Road within project limits. Based on the latest Osceola County Comprehensive Plan - 2040 Transit System plans, transit-related improvements are not planned on Boggy Creek Road within the project limits.

## 2.3 Existing Traffic Development

Because of the COVID-19 Pandemic, the existing year of 2019 will be used for this project. The development of the existing year 2019 AADT and TMC volumes are discussed in this section.

#### 2.3.1 Annual Average Daily Traffic (AADT)

As shown in **Table 3/Figure 2**, the year 2019 AADTs are available at some of the study count locations and will be used in the PTAR. Because of the restriction to collect a classification count for the pre-CVOID conditions, the available year 2019 FDOT count on Boggy Creek Road south of Timber Lane/Creek Bank Drive will be used as the classification count (in lieu of the required 2 classification counts) for this study. Historical traffic trends will be conducted and reviewed to assess the reasonableness of the available counts. The following list shows the locations that do not have available 2019 volume counts.

- Boggy Creek Rd, East of Nele Rd/High School
- Nele Rd/High School, North of Boggy Creek Rd
- Nele Rd/High School, South of Boggy Creek Rd
- Boggy Creek Rd, West of Turnberry Blvd
- Boggy Creek Rd, East of Turnberry Blvd
- Turnberry Blvd, North of Boggy Creek Rd
- Turnberry Blvd, South of Boggy Creek Rd
- Narcoossee Rd, North of Boggy Creek Rd

The methodology proposed to collect volume counts for the locations that do not have 2019 counts is explained in Section 2.3.2.

#### 2.3.2 Intersection Peak Hour Volumes (from TMC)

As shown in **Table 4**, 2019 TMCs (7-9 AM & 4-6 PM) are available at four study intersections and 2018 TMCs (7-9 AM & 4-6 PM) are available at two study intersections. Eight-hour TMCs as required per the approved scope are not available at any of the eight study intersections. To estimate the year 2019 TMCs (for all 8 hours) and to collect volume counts at locations that do not have the year 2019 counts, the following methodology is proposed:

- TMCs from the StreetLight data will be collected for all the study intersections. The TMCs will be collected for September 2019 that represents both a pre-COVID and a non-holiday period. The available 2019 volume counts and the available 2018 and 2019 TMCs will be used to validate the StreetLight data.
- The other advantage of collecting the StreetLight data is that volume counts can also be collected at each leg of these study intersections. This will provide volume counts for the locations that do not have the year 2019 volume counts (as mentioned in Section 2.3.1), and also for the study intersection approaches where volume counts are not included in the scope.
- Moreover, the count data will be adjusted as needed based on the traffic data collection methodology recommended by Osceola County. The TMCs will be validated and balanced for reasonableness.

# **3 Project Assumptions**

## 3.1 Analysis Years

The corridor will be analyzed for the following years:

- Existing Year 2019
- Opening Year 2025
- Mid-design Year 2035
- Design Year 2045

## 3.2 Project Alternatives

The study will evaluate the following alternatives:

- **No-Build Alternative:** The No-Build alternative will represent the existing roadway and intersection configuration and any committed improvements within the study area.
- Build Alternative: The Build alternative will represent the widening of the Boggy Creek Road corridor from two-lanes to four-lanes within the study limits along with committed and planned improvements near the study area.

#### 3.3 Travel Demand Model

The latest version of the Central Florida Regional Planning Model (CFRPM) [version 6.1], FDOT's adopted regional planning model, with the base year 2010 and the horizon year 2040 will be used in developing the future traffic projections within the study area.

## 3.4 Target Level of Service (LOS)

LOS targets per the Osceola County Comprehensive Plan are summarized below:

Boggy Creek Road and Study Intersections: LOS E

## 3.5 Analysis Tool(s)

Synchro/SimTraffic 10 will be used to perform the LOS operational analyses for the study intersections and arterial. HCM 6<sup>th</sup> Edition based analysis results (if available) will be provided for both the signalized and unsignalized intersections. Roadway segment LOS will be computed using Synchro/SimTraffic reported average speed and criteria from Exhibit 18-1 of HCM 6<sup>th</sup> Edition.

## 3.6 Design Hour Traffic Factors for Future Analysis

- Peak Hour Factor (PHF)
  - 0.95
- Standard K Factor (proportion of the AADT that occurs during the design hour):
  - o 9.0% for all study roadways (source: Project Traffic Forecasting Handbook)
- D Factor (percentage of the total, two-way design hour traffic traveling in the peak direction)
  - Will be determined in the PTAR
- T Factor (percentage of the AADT volume generated by trucks or commercial vehicles)
  - Will be determined in the PTAR

## 3.7 Study Measures of Effectiveness (MOEs)

The analysis results will include the following performance measures:

- Study Intersection:
  - Overall LOS,
  - o Overall Delay (seconds per vehicle), and
  - o 95<sup>th</sup> percentile queues for turn lanes (for future storage length requirements)
- Arterial:
  - Speed, and
  - LOS

## 3.8 Safety Analysis

Historical Crash Data: 2015-2019

#### Source:

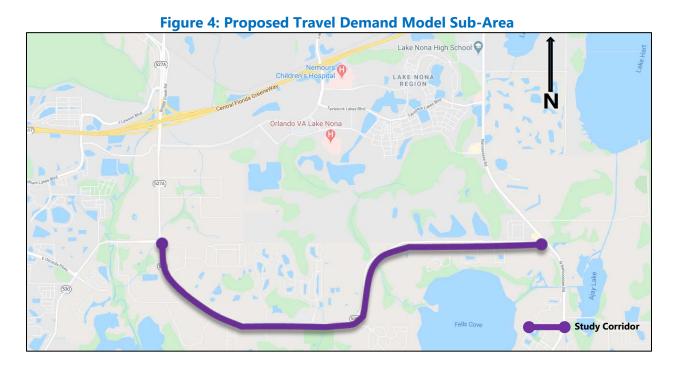
- From Osceola County.
- Signal Four Analytics and local agencies.

# **4 Future Traffic Development**

The traffic forecasting methodology will be consistent with the procedures outlined in the 2019 FDOT Project Traffic Forecasting Handbook. This section discusses the detailed methodology for the future year traffic forecast development process for both No-Build and Build conditions.

#### 4.1 Sub-Area Model Validation

As mentioned before, CFRPM version 6.1 with the base year 2010, and the horizon year 2040 will be used in developing the future traffic projections within the study area. The proposed sub-area, shown in **Figure 4**, in the CFRPM model will be calibrated and validated for the existing year 2019 conditions. The Socio-Economic (SE) data for the year 2019 will be derived using interpolation between the approved 2015 and 2020 datasets that are available for CFRPM 6.1. As part of the sub-area validation, land use and roadway network data, roadway speeds, capacities, travel patterns, pathfinding algorithms will be examined, and necessary model updates will be made to better validate model results within the study area. The model validation and calibration of the CFRPM model will be following the guidance provided in the "FSUTMS-Cube Framework Phase II Model Calibration and Validation Standards".



## **4.2 Future Year Model Development**

After the subarea base year validation, the same model updates will be applied to 2040 future year models. For future conditions, a total of two model runs will be conducted; one (1) Year 2040 No-Build alternative and one (1) Year 2040 Build alternative.

#### 4.2.1 Stakeholder Coordination

Before conducting the year 2040 model run, the socio-economic data and the roadway network (Cost Feasible 2040 CFRPM) will be updated to account for any new developments and network connectivity identified by the County. The future year travel demand model will consider programmed and planned improvements in the vicinity of the study area that are consistent with regional transportation plans including the following:

- FDOT Five Year Work Program and MetroPlan Orlando Transportation Improvement
   Program
- FDOT Strategic Intermodal System (SIS) plans
- Committed improvements from local and private sources
- Adopted LRTPs and Comprehensive Plans
- Central Florida Expressway Authority (CFX) Masterplan

Specifically, the project team will coordinate with the County, CFX, and Florida's Turnpike Enterprise (FTE) on the following important planned improvements.

Based on input from the Stakeholders, the proposed Osceola Parkway Extension, Sunbridge Parkway Extension, and Cyrils Drive Extension will be included in the travel demand modeling effort for both the No-Build and Build alternatives. The proposed alignment, the anticipated year of opening, and the segment limits of these proposed extensions will be determined based on coordination with the Stakeholders.

#### 4.3 Future Traffic Forecasts

The design year 2045 traffic volumes will be estimated by using a recommended growth rate or rates. These rates will be determined based on a review of the historical traffic trends analysis, travel demand model projections, and Bureau of Economics & Business Research [BEBR] low, medium, and high population estimates.

Should there be future traffic estimates that are not consistent with the historic trends or reasonable expectations for growth in the study corridor, these issues will be reviewed with the County, and an acceptable solution will be reached on any revisions necessary. The opening year 2025 and the interim year 2035 traffic projections shall be developed by the method of interpolation using the year 2019 (existing traffic volumes) and the year 2045 traffic volumes.

## 4.4 Design Traffic Characteristics

The recommended standard "K" factor of 9.0% will be used for all the study roadway segments. The "D" and "T" factors will be developed using historical data reported by FTO, previous counts, and the recommended ranges identified in the 2019 Project Traffic Forecasting Handbook.

## 4.5 Design Hour Volumes

The recommended design traffic characteristics, existing intersection turning movement volumes and the future traffic projections will be used as inputs to the TURNS5 spreadsheet to develop the intersection design hour volumes. The output of the TURNS5 will be adjusted to account for reasonability and balancing purposes.

# **5 Operational Analysis**

## **5.1 Traffic Operational Analysis**

Detailed operational analyses will be performed for all analysis years for both AM and PM peak hours using Synchro. Based on input from the County, SimTraffic simulation may be conducted for the critical signalized intersections. Analyses will be performed for the following scenarios:

- Existing Year 2019
- Opening Year 2025 No-Build and Build
- Interim Year 2035 No-Build and Build
- Design Year 2045 No-Build and Build

The need for future signalization at the stop-controlled intersections will be based on volume-based signal warrants (1-3). These requirements will be evaluated for both the No-Build and the Build alternatives.

## **5.2 Alternative Analysis**

The study intersection alternatives will be developed and assessed under the Build condition with input from the project team and based on traffic demand. Turn lane and storage length requirements will be based on the operational analyses of the future Build alternative.

# **6 Safety Analysis**

## 6.1 Crash Data Analysis

Detailed crash data within the study area will be analyzed and documented. The safety analysis will summarize crash rates, location of crashes, crash types, contributing causes of these crashes, most common types of crashes, crash rates, and safety ratios.

## 6.2 Safety Analysis

The safety analysis will be performed following Part 2, Chapter 2 of the PD&E Manual. Based on the information obtained from the crash data, the project safety needs associated with the existing and future conditions will be identified. Furthermore, No-Build and Build Highway Safety Manual (HSM) Safety analysis will be conducted utilizing Crash Modification Factors (CMF's), if available, and predictive crash methods to compare potential future crashes between alternatives.

## 7 Documentation

A PTAR will be prepared to document the data collection task, results of existing conditions analysis, results of the CFRPM model validation, the year 2040 travel demand modeling effort, development of future AADTs and design hour volumes, safety analysis, No-Build and Build alternative analysis results and final recommendations.

# Appendix C

# **Raw Traffic Counts**

00:00 24:00 8141 e) ( 1,000 Ft. N. of Sin 12-Nov-19 13-Nov-19 Start Date Start Time Stop Date County Stop Time Orange Roggy Creek Rd : Beth Rd to Sin Station ID

Location	Boggy Creek Rd : Beth Rd to Simpson Rd (Osceola County Line) (1,000 Ft. N. of Simpson Rd )											
12-Nov-19					North	nbound Vo	ume for L	ane 1				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	35	26	23	46	106	160	287	294	294	255	213	215
30	37	25	35	85	129	245	306	297	300	223	209	221
45	28	23	33	90	145	281	295	331	309	247	239	251
00	27	31	44	72	157	296	292	316	290	227	194	199
Hr Total	127	105	135	293	537	982	1180	1238	1193	952	855	886
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	209	244	201	209	205	231	224	163	140	120	81	47
30	237	232	214	224	220	204	215	150	130	108	71	37
45	233	232	209	210	216	227	177	139	134	94	72	51
00	181	215	222	224	227	215	184	146	111	97	81	29
Hr Total	860	923	846	867	868	877	800	598	515	419	305	164
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	16,525 7:30 13:00			AM Peak \		1,241 923			Hour Facto Hour Factor		0.94 0.95
12-Nov-19					South	bound Vol	ume for La	ne 2				
End Time	00	01	02	03	04	05	6	07	08	09	10	11
15	99	46	32	25	51	54	81	153	146	170	183	153
30	86	39	42	35	47	64	118	210	152	144	139	130
45	66	49	44	37	53	81	158	191	147	154	147	182
00	66	37	20	28	57	76	173	168	164	185	160	196
Hr Total	317	171	138	125	208	275	530	722	609	653	629	661
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	188	161	188	260	287	289	226	272	178	148	180	107
30	193	192	184	247	287	267	265	246	207	195	183	124
45	186	184	225	313	274	278	285	216	201	189	152	120
00	199	176	251	250	297	267	302	191	167	166	134	97
Hr Total	766	713	848	1070	1145	1101	1078	925	753	698	649	448
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	15,232 12:00 16:15			AM Peak \ PM Peak \		766 1,147			Hour Facto Hour Facto		0.96 0.97
12-Nov-19	I 00	I 01 I				tal Volume	, , , , , , , , , , , , , , , , , , , ,		<u> </u>	I 00	10	- 11
End Time	00 134	01 72	02 55	03 71	04 157	05 214	06 369	07 447	08	09 425	10 396	11
15 30	123	72 64	77	71 120	176	309	368 424	507	440 452	367	396 348	368 351
45	94	72	77	127	176	362	453	522	452	401	386	433
00	94	68	64	100	214	372	465	484	454	412	354	395
Hr Total	444	276	273	418	745	1257	1710	1960	1802	1605	1484	1547
Til Total	1	210	213	710	143	1237	1710	1700	1002	1003	1707	1547
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	397	405	389	469	492	520	450	435	318	268	261	154
30	430	424	398	471	507	471	480	396	337	303	254	161
45	419	416	434	523	490	505	462	355	335	283	224	171
00	380	391	473	474	524	482	486	337	278	263	215	126
Hr Total	1626	1636	1694	1937	2013	1978	1878	1523	1268	1117	954	612
24 Hour Tot AM Peak Ho	our Begins	31,757 7:00			AM Peak		1,960			Hour Facto		0.94
PM Peak Ho	ur Regins	16:15			PM Peak \	volume	2,041		rm reak l	Hour Factor	r	0.97

Start Date	13-Nov-19	Start Time	00:00
Stop Date	14-Nov-19	Stop Time	24:00
County	Orange	Station ID	8141
County	Orange	Station ID	814

Location	Boggy Cre	eek Rd : Be	eth Rd to S	impson Ro	d (Osceola		8141 ie) (1,000	Ft. N. of	Simpson Ro	d)		
13-Nov-19					North	nbound Vo	lume for l	Lane 1				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	26	23	32	69	81	166	317	306	290	267	206	199
30	35	26	37	82	133	214	317	299	300	250	231	195
45	21	22	36	76	130	297	295	297	303	226	205	236
00	17	33	43	79	143	313	258	318	305	232	203	177
Hr Total	99	104	148	306	487	990	1187	1220	1198	975	845	807
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	189	196	222	207	209	222	221	142	154	112	73	44
30	203	217	209	206	235	240	197	155	139	104	99	47
45	228	221	223	222	208	204	199	147	95	115	51	36
00	204	194	207	205	249	191	163	138	100	87	62	45
Hr Total	824	828	861	840	901	857	780	582	488	418	285	172
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	16,202 5:30 16:30			AM Peak '	Volume	1,244 919			Hour Facto		0.98 0.92
13-Nov-19					South	bound Vo	lume for L	ane 2				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	98	53	40	29	37	56	92	170	153	172	136	162
30	73	45	46	39	37	47	128	178	155	146	137	133
45	70	48	53	30	46	81	152	198	164	159	177	175
00	69	44	29	31	53	74	178	172	121	163	161	194
Hr Total	310	190	168	129	173	258	550	718	593	640	611	664
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	199	207	224	241	262	298	235	265	202	186	141	107
30	197	222	229	253	325	275	262	235	188	184	151	116
45	176	205	263	292	259	268	256	238	180	191	169	115
00	211	187	265	274	290	280	251	191	172	198	127	89
Hr Total	783	821	981	1060	1136	1121	1004	929	742	759	588	427
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	15,355 12:00 16:15			AM Peak Y	Volume	783 1,172			Hour Facto Hour Facto		0.93 0.90
13-Nov-19				·	•	tal Volume	, ,	•	T	I 00	l,	1
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	124	76	72	98	118	222	409	476	443	439	342	361
30	108	71	83	121	170	261	445	477	455	396	368	328
45	91	70	89	106	176	378	447	495	467	385	382	411
00	86	77	72	110	196	387	436	490	426	395	364	371
Hr Total	409	294	316	435	660	1248	1737	1938	1791	1615	1456	1471
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	388	403	446	448	471	520	456	407	356	298	214	151
30	400	439	438	459	560	515	459	390	327	288	250	163
45	404	426	486	514	467	472	455	385	275	306	220	151
00	415	381	472	479	539	471	414	329	272	285	189	134
Hr Total	1607	1649	1842	1900	2037	1978	1784	1511	1230	1177	873	599
24 Hour Tot		31 557			•				•	•		

24 Hour Total 31,557 AM Peak Hour Begins PM Peak Hour Begins 7:00 16:15 AM Peak Volume PM Peak Volume 1,938 2,086 AM Peak Hour Factor PM Peak Hour Factor 0.98 0.93

00:00 24:00 Start Date 14-Nov-19 Start Time Stop Date 15-Nov-19 Stop Time County Orange Station ID 8141

Location	Boggy Cr	eek Rd : Be	eth Rd to S	impson Ro	l (Osceola		e) (1,000	Ft. N. of	Simpson Ro	d )		
14-Nov-19					North	nbound Vo	lume for l	ane 1				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	39	19	14	47	88	162	320	293	289	280	218	196
30	29	27	51	76	97	241	305	321	290	290	205	195
45	26	13	35	75	143	283	286	293	303	271	194	210
00	18	28	63	90	159	292	289	311	298	240	206	194
Hr Total	112	87	163	288	487	978	1200	1218	1180	1081	823	795
Till Total	2	07	103	200	107	310	1200	1210	1100	1001	023	,,,,
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	232	186	231	198	240	233	229	143	127	137	92	42
30	235	241	212	214	209	229	166	153	118	105	74	51
45	238	229	224	221	211	205	197	148	110	104	84	45
00	191	214	223	216	214	207	156	135	117	81	64	53
Hr Total	896	870	890	849	874	874	748	579	472	427	314	191
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	16,396 7:00 13:15			AM Peak '	Volume	1,218 915			Hour Facto Hour Facto		0.95 0.95
14-Nov-19				· · · · · ·		bound Vo	,			1		
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	95	64	44	32	28	63	84	158	130	174	140	171
30	74	58	36	45	31	58	111	172	146	140	175	170
45	81	56	49	36	34	83	147	218	139	159	160	206
00	72	51	36	33	52	73	167	158	187	137	151	194
Hr Total	322	229	165	146	145	277	509	706	602	610	626	741
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	182	217	273	255	271	276	246	283	228	182	168	123
30	200	225	251	278	315	284	204	256	196	195	148	117
45	217	207	241	270	283	222	249	198	201	208	140	120
00	206	215	242	294	254	169	260	206	166	180	133	94
Hr Total	805	864	1007	1097	1123	951	959	943	791	765	589	454
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	15,426 12:00 15:45			AM Peak 'PM Peak 'To		805 1,163 for All La	nes		Hour Facto		0.93 0.92
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	134	83	58	79	116	225	404	451	419	454	358	367
30	103	85	87	121	128	299	416	493	436	430	380	365
45	107	69	84	111	177	366	433	511	442	430	354	416
00	90	79	99	123	211	365	456	469	485	377	357	388
Hr Total	434	316	328	434	632	1255	1709	1924	1782	1691	1449	1536
111 10101		3.0	320		002	1255	1705	.,,,,,	1702	.051	,	.550
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	414	403	504	453	511	509	475	426	355	319	260	165
30	435	466	463	492	524	513	370	409	314	300	222	168
45	455	436	465	491	494	427	446	346	311	312	224	165
00	397	429	465	510	468	376	416	341	283	261	197	147
Hr Total	1701	1734	1897	1946	1997	1825	1707	1522	1263	1192	903	645
,			,									
24 Hour Tot	-al	31 822										

24 Hour Total 31,822 AM Peak Hour Begins PM Peak Hour Begins AM Peak Volume PM Peak Volume AM Peak Hour Factor PM Peak Hour Factor 7:00 1,924 0.94 15:45 2,039 0.97

Start Date	12-Nov-19	Start Time	00:00
Stop Date	14-Nov-19	Stop Time	24:00
County	Orange	Station ID	8141
Location	Roggy Crook Dd . Roth Dd to	Simpson Pd (Oscaola County I	ine) (1000 I

AM Peak Hour Begins PM Peak Hour Begins

7:00 16:15

Ft N of Simpson Rd )

Location	Boggy Cr	eek Rd : Be	eth Rd to S	impson Ro	d (Osceola	County Lir	ne) ( 1,000	Ft. N. of	Simpson Ro	d)		
12-Nov-19					North	nbound Vo	olume for I	ane 1			,	
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	33	23	23	54	92	163	308	298	291	267	212	203
30	34	26	41	81	120	233	309	306	297	254	215	204
45	25	19	35	80	139	287	292	307	305	248	213	232
00	21	31	50	80	153	300	280	315	298	233	201	190
Hr Total	113	99	149	296	504	983	1189	1225	1190	1003	841	829
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	210	209	218	205	218	229	225	149	140	123	82	44
30	225	230	212	215	221	224	193	153	129	106	81	45
45	233	227	219	218	212	212	191	145	113	104	69	44
00	192	208	217	215	230	204	168	140	109	88	69	42
Hr Total	860	874	866	852	881	869	776	586	492	421	301	176
24 Hour Tot AM Peak Ho	ur Begins	16,374 7:00			AM Peak		1,225			Hour Facto		0.97
PM Peak Ho	ur Begins	16:45			PM Peak \	Volume	895		PM Peak	Hour Facto	r	0.97
12-Nov-19					South	bound Vo	lume for L	ane 2				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	97	54	39	29	39	58	86	160	143	172	153	162
30	78	47	41	40	38	56	119	187	151	143	150	144
45	72	51	49	34	44	82	152	202	150	157	161	188
00	69	44	28	31	54	74	173	166	157	162	157	195
Hr Total	316	197	157	133	175	270	530	715	601	634	622	689
			T				_					
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	190	195	228	252	273	288	236	273	203	172	163	112
30	197	213	221	259	309	275	244	246	197	191	161	119
45	193	199	243	292	272	256	263	217	194	196	154	118
00 Hr Total	205 785	193 799	253 945	273 1076	280 1135	239 1058	271 1014	196 932	168 762	181 741	131 609	93 443
24 Hour Tot AM Peak Ho PM Peak Ho	ur Begins	15,338 12:00 16:15			AM Peak '		785 1,149			Hour Facto		0.96 0.93
12-Nov-19					To	tal Volume	for All La	nes				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	131	77	62	83	130	220	394	458	434	439	365	365
30	111	73	82	121	158	290	428	492	448	398	365	348
45	97	70	83	115	184	369	444	509	455	405	374	420
00	90	75	78	111	207	375	452	481	455	395	358	385
Hr Total	429	295	306	429	679	1253	1719	1941	1792	1637	1463	1518
			T	1	T	1				1		
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	400	404	446	457	491	516	460	423	343	295	245	157
30	422	443	433	474	530	500	436	398	326	297	242	164
45	426	426	462	509	484	468	454	362	307	300	223	162
00	397	400	470	488	510	443	439	336	278	270	200	136
Hr Total	1645	1673	1811	1928	2016	1927	1790	1519	1254	1162	910	619
24 Hour Tot		31,712			AM Poak	Mal	1 0/1		ANA D. J.	Hour Facto		0.95

AM Peak Volume PM Peak Volume

1,941 2,041

AM Peak Hour Factor PM Peak Hour Factor

0.95 0.96

Vanasse Hangen Brustlin, Inc.

 Start Date
 : March 27, 2019
 Start Time
 00:00

 Stop Date
 : March 27, 2019
 Stop Time
 24:00

 County
 : 0
 Station Number
 474

 Equipment ID
 33

Location : Boggy Creek Rd W of Austin Tyndell Park

27-Mar-19		Eastbound Volume												
End Time	00	01	02	03	04	05	06	07	08	09	10	11		
15	27	22	22	18	19	13	49	131	155	85	86	94		
30	39	17	13	10	12	39	67	113	122	82	115	124		
45	34	13	19	14	26	54	76	125	86	88	75	97		
00	26	18	9	18	22	47	90	218	96	80	92	124		
Hr Total	126	70	63	60	79	153	282	587	459	335	368	439		
End Time	12	13	14	15	16	17	18	19	20	21	22	23		
15	112	123	136	142	186	198	191	166	127	111	62	43		
30	130	187	164	137	187	193	225	173	139	106	77	54		
45	134	198	190	179	171	191	197	140	124	90	48	54		
00	119	149	174	141	205	190	198	143	113	103	69	55		
Hr Total	495	657	664	599	749	772	811	622	503	410	256	206		

24 Hour Total : 9,765

 AM Peak Hour begins
 : 7:30
 AM Peak Volume
 : 620
 AM Peak Hour Factor
 : 0.71

 PM Peak Hour begins
 : 18:00
 PM Peak Volume
 : 811
 PM PeaK Hour Factor
 : 0.90

27-Mar-19	Westbound Volume											
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	11	12	6	5	27	53	172	94	219	123	94	111
30	10	7	5	16	49	93	179	221	251	148	99	98
45	9	8	7	21	43	110	100	194	184	134	108	132
00	11	7	10	15	45	121	148	205	107	125	105	91
Hr Total	41	34	28	57	164	377	599	714	761	530	406	432

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	100	128	112	141	116	156	149	136	75	68	31	29
30	90	101	149	153	123	143	120	122	63	49	25	21
45	110	140	160	125	130	137	102	77	65	45	41	23
00	85	102	147	126	186	131	110	85	61	37	33	15
Hr Total	385	471	568	545	555	567	481	420	264	199	130	88

24 Hour Total : 8,816

AM Peak Hour begins : 7:30 AM Peak Volume : 869 AM Peak Hour Factor : 0.87 PM Peak Hour begins : 16:45 PM Peak Volume : 622 PM PeaK Hour Factor : 0.84

#### 27-Mar-19 Total Volume for All Lanes End Time Hr Total 1,301 1,220

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	212	251	248	283	302	354	340	302	202	179	93	72
30	220	288	313	290	310	336	345	295	202	155	102	75
45	244	338	350	304	301	328	299	217	189	135	89	77
00	204	251	321	267	391	321	308	228	174	140	102	70
Hr Total	880	1,128	1,232	1,144	1,304	1,339	1,292	1,042	767	609	386	294

24 Hour Total : 18,581

 AM Peak Hour begins
 : 7:30
 AM Peak Volume
 : 1,489
 AM Peak Hour Factor
 : 0.88

 PM Peak Hour begins
 : 16:45
 PM Peak Volume
 : 1,409
 PM Peak Hour Factor
 : 0.90

Vanasse Hangen Brustlin, Inc.

 Start Date
 : March 27, 2019
 Start Time
 00:00

 Stop Date
 : March 27, 2019
 Stop Time
 24:00

 County
 : 0
 Station Number
 475

 Equipment ID
 125

Location : BOGGY CREEK RD. E E. of Jim Branch Creek

27-Mar-19						Eastboun	d Volume					
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	15	12	14	19	8	38	92	140	204	108	80	98
30	26	6	16	19	24	41	105	156	179	112	115	116
45	20	18	12	17	30	63	172	175	132	119	87	128
00	26	15	20	15	34	62	180	179	126	102	112	104
Hr Total	87	51	62	70	96	204	549	650	641	441	394	446
<b>.</b>												
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	115	85	94	110	109	127	109	103	97	80	45	27
30	110	96	111	103	110	125	112	131	67	60	61	43
45	113	116	109	100	102	135	141	95	79	70	46	32
00	117	100	128	95	119	104	134	80	85	69	38	33
Hr Total	455	397	442	408	440	491	496	409	328	279	190	135

24 Hour Total : 8,161

 AM Peak Hour begins
 : 7:30
 AM Peak Volume
 : 737
 AM Peak Hour Factor
 : 0.90

 PM Peak Hour begins
 : 18:30
 PM Peak Volume
 : 509
 PM PeaK Hour Factor
 : 0.90

27-Mar-19						Westbour	nd Volume					
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	8	7	2	1	20	30	83	35	76	109	67	85
30	10	7	1	9	21	56	112	77	105	90	74	61
45	13	5	6	4	11	52	46	104	108	88	71	76
00	4	3	3	8	19	52	27	116	105	62	78	71
Hr Total	35	22	12	22	71	190	268	332	394	349	290	293

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	83	130	166	170	163	151	88	105	73	58	31	18
30	106	142	160	180	163	129	102	61	71	40	25	10
45	123	151	196	120	194	138	84	71	76	35	33	22
00	127	162	168	157	203	136	69	78	67	29	25	6
Hr Total	439	585	690	627	723	554	343	315	287	162	114	56

24 Hour Total : 7,173

AM Peak Hour begins : 8:15 AM Peak Volume : 427 AM Peak Hour Factor : 0.98 PM Peak Hour begins : 16:00 PM Peak Volume : 723 PM PeaK Hour Factor : 0.89

#### 27-Mar-19 Total Volume for All Lanes End Time 1,035 Hr Total

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	198	215	260	280	272	278	197	208	170	138	76	45
30	216	238	271	283	273	254	214	192	138	100	86	53
45	236	267	305	220	296	273	225	166	155	105	79	54
00	244	262	296	252	322	240	203	158	152	98	63	39
Hr Total	894	982	1.132	1.035	1.163	1.045	839	724	615	441	304	191

24 Hour Total : 15,334

 AM Peak Hour begins
 : 7:30
 AM Peak Volume
 : 1,138
 AM Peak Hour Factor
 : 0.96

 PM Peak Hour begins
 : 16:15
 PM Peak Volume
 : 1,169
 PM Peak Hour Factor
 : 0.91

Start Date	01-Oct-19	Start Time	00:00
Stop Date	02-Oct-19	Stop Time	24:00
County	Orange	Station ID	8064

Location	Narcoosse	e Rd: Clap	p Simms D	uda Rd to	Osceola Co		8064 ( 900 Ft N	I. Boggy C	reek Rd)			
01-Oct-19					٨	lorthbounc	l for Lane	1				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	38	21	15	9	14	22	91	164	148	140	137	183
30	38	18	13	8	11	50	93	160	172	162	169	218
45	20	19	8	14	14	60	99	176	157	184	153	189
00	20	14	9	13	25	78	137	136	148	161	160	241
Hr Total	116	72	45	44	64	210	420	636	625	647	619	831
E. J.Tim.	12	12	14	15	1.0	17	10	10	1 20	I 21	22	22
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15 30	201 213	174 219	215 255	289	460 371	390	349	244 261	245 169	154 161	111 100	57 63
45	232	230	269	321 306	426	378 377	396 379	209	176	133	85	54
00	213	194	286	327	428	361	299	207	182	122	61	32
Hr Total	859	817	1025	1243	1685	1506	1423	921	772	570	357	206
24 Hour To AM Peak Ho PM Peak Ho	our Begins	15,713 11:45 16:00			AM Peak \ PM Peak \		887 1,685			Hour Facto Hour Facto		0.92 0.92
01-Oct-19					S	outhbound	for Lane 2	2				
End Time	00	01	02	03	04	05	6	07	08	09	10	11
15	14	6	10	18	42	136	392	475	169	258	240	223
30	12	4	21	26	57	174	462	422	182	274	226	193
45	11	10	19	26	73	212	491	418	288	230	219	209
00	8	10	9	32	103	292	432	320	272	225	228	189
Hr Total	45	30	59	102	275	814	1777	1635	911	987	913	814
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	215	233	216	186	204	247	225	159	117	82	49	30
30	212	199	197	233	239	228	185	131	97	52	33	28
45	207	199	235	256	239	218	156	128	76	56	31	26
00	186	180	179	222	243	225	152	111	68	44	25	14
Hr Total	820	811	827	897	925	918	718	529	358	234	138	98
24 Hour To AM Peak Ho PM Peak Ho	our Begins	15,635 6:15 16:15			AM Peak '		1,860 968			Hour Facto Hour Facto		0.95 0.98
01-Oct-19						al Volume						
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	52	27	25	27	56	158	483	639	317	398	377	406
30	50	22	34	34	68	224	555	582	354	436	395	411
45	31	29	27	40	87	272	590	594	445	414	372	398
00	28	24	18	45	128	370	569	456	420	386	388	430
Hr Total	161	102	104	146	339	1024	2197	2271	1536	1634	1532	1645
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	416	407	431	475	664	637	574	403	362	236	160	87
30	425	418	452	554	610	606	581	392	266	213	133	91
45	439	429	504	562	665	595	535	337	252	189	116	80
00	399	374	465	549	671	586	451	318	250	166	86	46
Hr Total	1679	1628	1852	2140	2610	2424	2141	1450	1130	804	495	304
24 Hour To AM Peak Ho PM Peak Ho	our Begins	31,348 6:45 16:00			AM Peak '		2,384 2,610			Hour Facto Hour Facto		0.93 0.98

Start Date Stop Date County Location	02-Oct-19 03-Oct-19 Orange Narcoosse		pp Simms I	Ouda Rd to	Start Time Stop Time Station ID Osceola (		00:00 24:00 8064 e ( 900 Ft	N. Boggy	Creek Rd)			
02-Oct-19					٨	lorthbound	d for Lane	1				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	34	22	15	9	9	26	80	175	160	158	156	207
30	36	25	13	8	11	41	122	184	159	146	143	189
45	30	12	9	12	19	51	97	180	163	164	147	183
00	22	19	14	11	15	79	118	165	158	159	182	184
Hr Total	122	78	51	40	54	197	417	704	640	627	628	763
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	210	192	257	318	369	395	380	274	203	153	111	76
30	227	253	280	290	409	408	368	219	204	127	92	65
45	209	250	236	330	393	377	378	223	184	160	80	55
00	232	214	245	347	392	365	292	213	172	104	70	52
Hr Total	878	909	1018	1285	1563	1545	1418	929	763	544	353	248
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	15,774 12:30 16:15			AM Peak \ PM Peak \		886 1,589			Hour Facto Hour Facto		0.88 0.97
02-Oct-19					S	outhbound	l for Lane	2				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	13	7	3	19	36	143	404	420	406	242	192	207
30	10	13	11	24	62	161	435	422	404	284	230	217
45	9	9	14	26	81	205	500	352	300	248	235	196
00	11	7	18	31	75	275	435	375	269	195	215	208
Hr Total	43	36	46	100	254	784	1774	1569	1379	969	872	828
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	218	222	237	223	201	225	234	153	128	72	35	23
30	229	202	221	208	220	221	216	146	103	54	34	20
45	242	203	206	265	225	216	183	136	71	50	26	16
00	219	221	254	200	223	200	156	102	80	47	25	25
Hr Total	908	848	918	896	869	862	789	537	382	223	120	84
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	16,090 6:15 14:45			AM Peak \		1,790 950			Hour Facto Hour Facto	•	0.90 0.90
02-Oct-19					To	tal Volume	for All La	nes				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	47	29	18	28	45	169	484	595	566	400	348	414
30	46	38	24	32	73	202	557	606	563	430	373	406
45	39	21	23	38	100	256	597	532	463	412	382	379
00	33	26	32	42	90	354	553	540	427	354	397	392
Hr Total	165	114	97	140	308	981	2191	2273	2019	1596	1500	1591
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	428	414	494	541	570	620	614	427	331	225	146	99
30	456	455	501	498	629	629	584	365	307	181	126	85
45	451	453	442	595	618	593	561	359	255	210	106	71
00	451	435	499	547	615	565	448	315	252	151	95	77
Hr Total	1786	1757	1936	2181	2432	2407	2207	1466	1145	767	473	332

AM Peak Volume PM Peak Volume

2,351

2,482

AM Peak Hour Factor PM Peak Hour Factor

0.97

0.99

24 Hour Total AM Peak Hour Begins PM Peak Hour Begins

6:30 16:15

Start Date Stop Date County Location	03-Oct-19 04-Oct-19 Orange Narcooss		pp Simms	Duda Rd to	Start Time Stop Time Station ID O Osceola (		00:00 24:00 8064 e ( 900 Ft	N. Boggy	Creek Rd)			
03-Oct-19					١	Northbound	d for Lane	1				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	42	26	25	13	18	30	76	145	164	161	175	201
30	36	17	14	12	12	42	109	179	146	177	155	221
45	23	17	8	12	21	50	128	175	162	181	137	192
00	28	22	9	9	16	80	124	154	133	159	191	229
Hr Total	129	82	56	46	67	202	437	653	605	678	658	843
	•	•	•		•	•	•		•	•		•
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	223	187	254	291	431	381	376	303	201	146	121	75
30	226	204	194	292	359	409	342	262	187	150	80	76
45	226	189	175	298	436	394	301	232	186	137	81	64
00	198	234	228	279	407	375	319	233	157	163	64	42
Hr Total	873	814	851	1160	1633	1559	1338	1030	731	596	346	257
24 Hour Tot AM Peak Ho PM Peak Ho	our Begins	15,644 11:45 16:00			AM Peak '		904 1,633			Hour Facto Hour Facto		0.99 0.94
03-Oct-19					S	outhbound	for Lane	2				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	17	9	11	19	44	123	398	451	385	261	254	213
30	12	11	16	30	70	178	442	415	426	286	217	224
45	10	8	20	30	73	210	509	389	271	240	214	223
00	7	10	16	32	97	253	443	389	269	208	238	232
Hr Total	46	38	63	111	284	764	1792	1644	1351	995	923	892
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	212	197	170	219	180	220	225	145	121	86	45	30
30	242	224	205	213	227	236	219	170	98	64	53	27
45	226	191	211	215	235	232	201	138	82	69	29	17
00	195	214	222	203	225	228	169	162	86	47	27	14
Hr Total	875	826	808	850	867	916	814	615	387	266	154	88
24 Hour To AM Peak Ho PM Peak Ho	our Begins	16,369 6:15 17:15			AM Peak '		1,845 921			Hour Facto		0.91 0.98
03-Oct-19					To	tal Volume	for All La	nes				
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	59	35	36	32	62	153	474	596	549	422	429	414
30	48	28	30	42	82	220	551	594	572	463	372	445
45	33	25	28	42	94	260	637	564	433	421	351	415
00	35	32	25	41	113	333	567	543	402	367	429	461
Hr Total	175	120	119	157	351	966	2229	2297	1956	1673	1581	1735
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	435	384	424	510	611	601	601	448	322	232	166	105
30	468	428	399	505	586	645	561	432	285	214	133	103
45	452	380	386	513	671	626	502	370	268	206	110	81
00	393	448	450	482	632	603	488	395	243	210	91	56
Hr Total	1748	1640	1659	2010	2500	2475	2152	1645	1118	862	500	345

AM Peak Volume PM Peak Volume

2,394

2,549

AM Peak Hour Factor PM Peak Hour Factor

0.94

0.95

24 Hour Total AM Peak Hour Begins PM Peak Hour Begins

6:30 16:30

30   37   20   13   9   11   44   108   174   159   162   156   205	Start Date Stop Date County Location	01-Oct-19 03-Oct-19 Orange Narcoosse		pp Simms I	Duda Rd to	Start Time Stop Time Station ID Osceola G		00:00 24:00 8064 e ( 900 Ft	N. Boggy	Creek Rd)			
15   38   23   18   10   14   26   82   161   157   153   156   192   30   37   20   13   9   11   44   108   174   159   162   156   200   45   24   16   8   13   18   54   108   177   161   176   146   188   00   23   18   11   11   19   79   126   152   146   160   178   213   14   15   16   17   19   19   20   21   22   22   146   160   178   213   14   15   16   17   18   19   20   21   22   22   15   211   184   242   299   420   389   368   274   216   151   114   69   30   222   225   243   301   380   388   369   247   187   146   191   68   45   222   223   227   311   418   383   353   221   182   143   82   38   00   214   214   253   318   409   367   303   218   170   130   65   42   44   16   170   18   18   18   18   18   18   18   1	01-Oct-19					٨	lorthbound	d for Lane	1				
15   38   23   18   10   14   26   82   16    157   153   156   192   30   37   20   13   9   11   44   108   174   159   162   156   200   45   24   16   8   13   18   54   108   177   16    176   146   188   00   23   18   11   11   11   19   79   126   152   146   160   178   218   11   11   11   19   79   126   152   146   160   178   218   170   181   18   11   11   19   79   126   152   146   160   178   218   170   181   18   18   14   15   16   17   18   19   20   21   22   22   15   15   211   184   242   229   420   389   368   274   216   151   114   69   30   222   225   243   301   380   388   369   247   187   146   191   68   45   222   223   227   231   148   383   353   221   182   143   82   38   00   214   214   233   318   409   367   303   218   170   130   65   42   41   167   847   965   1229   1627   1537   1393   960   755   570   352   23   23   23   24   24   24   24   2	End Time	00	01	02	03	04	05	06	07	08	09	10	11
45					10	14		82	161	157	153		197
O0	30	37	20	13	9	11	44	108	174	159	162	156	209
End Time   12   13	45	24	16	8	13	18	54	108	177	161	176	146	188
End Time   12   13	00	23	18	11	11	19	79	126	152	146	160	178	218
15	Hr Total	122	77	51	43	62	203	425	664	623	651	635	812
15		·											
30   222   225   243   301   380   398   369   247   187   146   91   68   65   42   45   222   223   227   311   418   383   353   221   182   143   82   58   60   214   214   253   318   409   367   303   218   170   130   65   42   47   701   870   847   965   1229   1627   1537   1393   960   755   570   352   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231   231													
45   222   223   227   311   418   383   353   221   182   143   82   58													
DO													
Hr Total													
24 Hour Total 15,710  AM Peak Hour Begins 11:45  PM Peak Hour Begins 16:00  Southbound for Lane 2  End Time 00 01 02 03 04 05 06 07 08 09 10 11  15 15 7 8 19 41 134 398 449 320 254 229 214  30 11 9 16 27 63 171 446 420 337 281 224 211  45 10 9 18 27 76 209 500 386 286 239 223 200  00 9 9 9 14 32 92 273 437 361 270 209 227 210  Hr Total 45 35 56 104 271 787 1781 1616 1214 984 903 845  End Time 12 13 14 15 16 17 18 19 20 21 22 23  15 215 217 208 209 195 231 228 152 122 80 43 28  30 228 208 208 218 229 228 207 149 99 57 40 25  45 225 198 217 245 233 222 180 134 76 58 29 20  00 200 205 218 208 238 230 218 159 125 78 46 26 18  Hr Total 868 828 851 881 887 899 774 560 376 241 137 90  24 Hour Total 16,031  AM Peak Hour Begins 16:15  PM Peak Volume 18 19 20 21 22 23  Total Volume for All Lanes  End Time 00 01 02 03 04 05 06 07 08 09 10 11  15 53 30 26 29 54 160 480 610 477 407 385 41  30 48 29 29 36 74 215 554 594 496 407 385 41  30 48 29 29 36 74 215 554 594 496 407 385 41  30 48 29 29 36 74 215 554 594 496 407 385 41  30 48 29 29 36 74 215 554 594 496 407 385 41  30 48 29 29 36 74 215 554 594 496 407 385 41  30 48 29 29 36 74 215 554 594 496 407 385 41  30 48 29 29 36 67 4 215 554 594 496 407 385 41  30 48 29 29 36 67 4 215 554 594 496 407 385 41  30 48 29 29 36 67 4 215 554 594 496 407 385 41  30 48 29 29 36 74 215 554 594 496 407 385 41  30 48 29 29 36 67 4 215 554 594 496 407 385 41  30 48 29 29 36 67 4 215 554 594 496 407 385 41  50 10 -Qct-19  End Time 10 11 10 12 107 148 333 990 2206 2280 1837 1634 1538 165													
AM Peak Hour Begins   11:45	Hr Total	870	847	965	1229	1627	1537	1393	960	755	570	352	237
End Time         00         01         02         03         04         05         06         07         08         09         10         11           15         15         7         8         19         41         134         398         449         320         254         229         214           30         11         9         16         27         63         171         446         420         337         281         224         211           45         10         9         18         27         76         209         500         386         286         239         223         200           00         9         9         14         32         92         273         437         361         270         209         227         201           Hr Total         45         35         56         104         271         787         1781         1616         1214         984         903         845           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15 <t< td=""><td>AM Peak Ho</td><td>ur Begins</td><td>11:45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.98 0.97</td></t<>	AM Peak Ho	ur Begins	11:45										0.98 0.97
End Time         00         01         02         03         04         05         06         07         08         09         10         11           15         15         7         8         19         41         134         398         449         320         254         229         214           30         11         9         16         27         63         171         446         420         337         281         224         211           45         10         9         18         27         76         209         500         386         286         239         223         200           00         9         9         14         32         92         273         437         361         270         209         227         201           Hr Total         45         35         56         104         271         787         1781         1616         1214         984         903         845           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
15	01-Oct-19					S	outhbound	l for Lane	2				
30	End Time	00	01	02	03	04	05	06	07	08	09	10	11
Heat   Heat	15	15	7	8	19	41	134	398	449	320	254	229	214
DO	30	11	9	16	27	63	171	446	420	337	281	224	211
Hr Total   45   35   56   104   271   787   1781   1616   1214   984   903   845	45	10	9	18	27	76	209	500	386	286	239	223	209
End Time   12   13	00	9	9	14	32	92	273	437	361	270	209	227	210
15	Hr Total	45	35	56	104	271	787	1781	1616	1214	984	903	845
15													
15	End Time	12	13	14	15	16	17	18	19	20	21	22	23
30   228   208   208   218   229   228   207   149   99   57   40   25     45   225   198   217   245   233   222   180   134   76   58   29   20     00   200   205   218   208   230   218   159   125   78   46   26   18     Hr Total   868   828   851   881   887   899   774   560   376   241   137   90      24 Hour Total   16,031   AM Peak Hour Begins   6:15   PM Peak Volume   1,832   PM Peak Hour Factor   0.99     PM Peak Hour Begins   16:15   PM Peak Volume   923   PM Peak Hour Factor   0.99     O1-Oct-19   Total Volume for All Lanes      End Time   00   01   02   03   04   05   06   07   08   09   10   11     15   53   30   26   29   54   160   480   610   477   407   385   411     30   48   29   29   36   74   215   554   594   496   443   380   421     45   34   25   26   40   94   263   608   563   447   416   368   397     00   32   27   25   43   110   352   563   513   316   369   405   426     Hr Total   167   112   107   148   333   990   2206   2280   1837   1634   1538   165      End Time   12   13   14   15   16   17   18   19   20   21   22   23     End Time   12   13   14   15   16   17   18   19   20   21   22   23     End Time   12   13   14   15   16   17   18   19   20   21   22   23     End Time   12   13   14   15   16   17   18   19   20   21   22   23     End Time   12   13   14   15   16   17   18   19   20   21   22   23     End Time   12   13   14   15   16   17   18   19   20   21   22   23     15   426   402   450   509   615   619   596   426   338   231   157   97     30   450   434   451   519   608   627   575   396   286   203   131   93													
45													
00         200         205         218         208         230         218         159         125         78         46         26         18           Hr Total         868         828         851         881         887         899         774         560         376         241         137         90           24 Hour Total AM Peak Hour Begins         6:15         AM Peak Volume         1,832         AM Peak Hour Factor         0.9           PM Peak Hour Begins         16:15         PM Peak Volume         923         PM Peak Hour Factor         0.9           O1-Oct-19         Total Volume for All Lanes           End Time         00         01         02         03         04         05         06         07         08         09         10         11         15         53         30         26         29         54         160         480         610         477         407         385         411         43         44         45         34         25         26         40         94         263         608         563         447         416         368         397           00         32         27													20
Hr Total         868         828         851         881         887         899         774         560         376         241         137         90           24 Hour Total         16,031         AM Peak Hour Begins         6:15         AM Peak Volume         1,832         AM Peak Hour Factor         0.9:           PM Peak Hour Begins         16:15         PM Peak Volume         923         PM Peak Hour Factor         0.9:           01-Oct-19         Total Volume for All Lanes         Total Volume for All Lanes           End Time         00         01         02         03         04         05         06         07         08         09         10         11         15         53         30         26         29         54         160         480         610         477         407         385         411           30         48         29         29         36         74         215         554         594         496         443         380         42         45         34         25         26         40         94         263         608         563         447         416         368         397           00         32         27													
24 Hour Total 16,031 AM Peak Hour Begins 6:15 PM Peak Hour Begins 16:15 PM Peak Volume 923 PM Peak Hour Factor 0.99  O1-Oct-19  Total Volume for All Lanes    End Time   00													90
End Time         00         01         02         03         04         05         06         07         08         09         10         11           15         53         30         26         29         54         160         480         610         477         407         385         411           30         48         29         29         36         74         215         554         594         496         443         380         42           45         34         25         26         40         94         263         608         563         447         416         368         397           00         32         27         25         43         110         352         563         513         416         369         405         428           Hr Total         167         112         107         148         333         990         2206         2280         1837         1634         1538         165           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15	AM Peak Ho	ur Begins	6:15										0.92 0.99
15         53         30         26         29         54         160         480         610         477         407         385         411           30         48         29         29         36         74         215         554         594         496         443         380         42           45         34         25         26         40         94         263         608         563         447         416         368         397           00         32         27         25         43         110         352         563         513         416         369         405         426           Hr Total         167         112         107         148         333         990         2206         2280         1837         1634         1538         165           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15         426         402         450         509         615         619         596         426         338         231         157         97	01-Oct-19					To	tal Volume	for All La	nes				
15         53         30         26         29         54         160         480         610         477         407         385         411           30         48         29         29         36         74         215         554         594         496         443         380         42           45         34         25         26         40         94         263         608         563         447         416         368         397           00         32         27         25         43         110         352         563         513         416         369         405         426           Hr Total         167         112         107         148         333         990         2206         2280         1837         1634         1538         165           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15         426         402         450         509         615         619         596         426         338         231         157         97	End Time	00	01	02	03	04	05	06	07	08	09	10	11
30         48         29         29         36         74         215         554         594         496         443         380         42           45         34         25         26         40         94         263         608         563         447         416         368         397           00         32         27         25         43         110         352         563         513         416         369         405         426           Hr Total         167         112         107         148         333         990         2206         2280         1837         1634         1538         165           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15         426         402         450         509         615         619         596         426         338         231         157         97           30         450         434         451         519         608         627         575         396         286         203         131         93 <td></td> <td>411</td>													411
45         34         25         26         40         94         263         608         563         447         416         368         397           00         32         27         25         43         110         352         563         513         416         369         405         428           Hr Total         167         112         107         148         333         990         2206         2280         1837         1634         1538         165           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15         426         402         450         509         615         619         596         426         338         231         157         97           30         450         434         451         519         608         627         575         396         286         203         131         93													421
00         32         27         25         43         110         352         563         513         416         369         405         426           Hr Total         167         112         107         148         333         990         2206         2280         1837         1634         1538         165           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15         426         402         450         509         615         619         596         426         338         231         157         97           30         450         434         451         519         608         627         575         396         286         203         131         93													397
Hr Total         167         112         107         148         333         990         2206         2280         1837         1634         1538         165           End Time         12         13         14         15         16         17         18         19         20         21         22         23           15         426         402         450         509         615         619         596         426         338         231         157         97           30         450         434         451         519         608         627         575         396         286         203         131         93													428
End Time         12         13         14         15         16         17         18         19         20         21         22         23           15         426         402         450         509         615         619         596         426         338         231         157         97           30         450         434         451         519         608         627         575         396         286         203         131         93													1657
15     426     402     450     509     615     619     596     426     338     231     157     97       30     450     434     451     519     608     627     575     396     286     203     131     93	· · · · · · · · · · · · · · · · · · ·	Į.									•		
15         426         402         450         509         615         619         596         426         338         231         157         97           30         450         434         451         519         608         627         575         396         286         203         131         93	End Time	12	13	14	15	16	17	18	19	20	21	22	23
30 450 434 451 519 608 627 575 396 286 203 131 93													97
													93
		447	421	444	557	651	605	533	355		202	111	77
00 414 419 471 526 639 585 462 343 248 176 91 60	00	414	419	471	526	639	585	462	343	248	176	91	60
Hr Total 1738 1675 1816 2110 2514 2435 2167 1520 1131 811 489 327	Hr Total	1738	1675	1816	2110	2514	2435	2167	1520	1131	811	489	327

AM Peak Volume PM Peak Volume 2,375 2,537 AM Peak Hour Factor PM Peak Hour Factor

0.97 0.97

24 Hour Total AM Peak Hour Begins PM Peak Hour Begins

6:30 16:30

Vanasse Hangen Brustlin, Inc.

 Start Date
 : March 27, 2019
 Start Time
 00:00

 Stop Date
 : March 27, 2019
 Stop Time
 24:00

 County
 : 0
 Station Number
 551

 Equipment ID
 97

Location : Narcoossee Rd (CR 15) Jones Rd at orange county line

27-Mar-19						Northbou	nd Volume					
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	21	10	11	29	59	129	384	496	532	386	246	195
30	15	15	9	38	73	197	553	508	522	355	245	166
45	17	18	25	27	76	205	531	554	312	299	237	182
00	20	5	17	46	89	286	523	534	331	262	232	204
Hr Total	73	48	62	140	297	817	1,991	2,092	1,697	1,302	960	747
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	158	196	190	217	177	211	241	163	147	88	41	33
30	217	189	199	207	198	192	208	156	137	91	61	43
45	195	189	235	186	223	242	198	148	116	76	52	42
00	195	197	189	216	223	194	211	136	105	72	46	19
Hr Total	765	771	813	826	821	839	858	603	505	327	200	137

24 Hour Total : 17,691

AM Peak Hour begins : 7:30 AM Peak Volume : 2,142 AM Peak Hour Factor : 0.97 PM Peak Hour begins : 17:30 PM Peak Volume : 885 PM Peak Hour Factor : 0.91

27-Mar-19						Southbour	nd Volume					
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	53	31	21	19	16	31	90	165	193	214	196	180
30	52	26	29	15	28	42	120	188	230	183	220	188
45	46	25	25	25	33	76	153	195	193	221	183	205
00	33	30	22	16	30	53	159	199	218	175	199	224
Hr Total	184	112	97	75	107	202	522	747	834	793	798	797

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	192	214	284	287	403	395	67	510	244	183	129	85
30	205	240	296	376	417	326	313	456	210	179	129	68
45	221	292	310	374	246	381	522	278	198	170	105	69
00	220	219	318	351	107	251	523	276	200	140	95	57
Hr Total	838	965	1,208	1,388	1,173	1,353	1,425	1,520	852	672	458	279

24 Hour Total : 17,399

AM Peak Hour begins : 8:15 AM Peak Volume : 855 AM Peak Hour Factor : 0.93 PM Peak Hour begins : 18:30 PM Peak Volume : 2,011 PM PeaK Hour Factor : 0.96

#### 27-Mar-19 Total Volume for All Lanes End Time

1,019

2,513

2,839

2,531

2,095

1,758

1,544

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	350	410	474	504	580	606	308	673	391	271	170	118
30	422	429	495	583	615	518	521	612	347	270	190	111
45	416	481	545	560	469	623	720	426	314	246	157	111
00	415	416	507	567	330	445	734	412	305	212	141	76
Hr Total	1.603	1.736	2.021	2.214	1,994	2.192	2,283	2,123	1.357	999	658	416

24 Hour Total : 35,090

Hr Total

 AM Peak Hour begins
 : 7:30
 AM Peak Volume
 : 2,959
 AM Peak Hour Factor
 : 0.98

 PM Peak Hour begins
 : 18:30
 PM Peak Volume
 : 2,739
 PM Peak Hour Factor
 : 0.93

Vanasse Hangen Brustlin, Inc.

 Start Date
 : March 13, 2019
 Start Time
 00:00

 Stop Date
 : March 13, 2019
 Stop Time
 24:00

 County
 : 0
 Station Number
 479

 Equipment ID
 202

Location : Simpson Rd Boggy Creek Rd (East)

13-Mar-19						Eastboun	d Volume					
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	16	28	54	79	120	217	167	191	168	164	174	188
30	32	34	73	102	156	249	157	177	179	166	169	195
45	24	25	67	108	193	237	210	167	163	179	161	222
00	25	52	78	98	178	214	241	148	151	207	182	225
Hr Total	97	139	272	387	647	917	775	683	661	716	686	830
		•				•	•		•	•	•	
-		1			1	1		1		1	1	
End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	251	193	169	199	209	155	152	178	153	115	63	45
30	211	192	199	237	200	163	176	140	135	99	61	25
45	180	187	194	241	209	189	189	163	122	81	57	32
00	202	173	233	212	198	156	162	147	128	72	47	28
Hr Total	844	745	795	889	816	663	679	628	538	367	228	130

24 Hour Total : 14,132

AM Peak Hour begins : 5:00 AM Peak Volume : 917 AM Peak Hour Factor : 0.92 PM Peak Hour begins : 14:45 PM Peak Volume : 910 PM PeaK Hour Factor : 0.94

13-Mar-19						Westbour	nd Volume					
End Time	00	01	02	03	04	05	06	07	08	09	10	11
15	47	31	24	27	64	116	168	186	145	174	179	158
30	31	28	20	28	88	143	172	216	149	168	168	202
45	28	32	33	47	72	159	199	198	180	165	167	214
00	37	19	22	60	89	177	162	167	185	168	169	184
Hr Total	143	110	99	162	313	595	701	767	659	675	683	758

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	131	176	172	231	182	202	188	184	221	155	118	87
30	232	226	221	207	180	137	230	202	149	155	89	82
45	233	223	222	230	155	106	219	146	154	161	101	70
00	228	251	220	169	70	218	158	161	156	117	91	55
Hr Total	824	876	835	837	587	663	795	693	680	588	399	294

24 Hour Total : 13,736

 AM Peak Hour begins
 : 11:45
 AM Peak Volume
 : 780
 AM Peak Hour Factor
 : 0.84

 PM Peak Hour begins
 : 14:15
 PM Peak Volume
 : 894
 PM Peak Hour Factor
 : 0.97

#### 13-Mar-19 Total Volume for All Lanes End Time 1,512 Hr Total 1,476 1,450 1,320 1,369 1,391 1,588

End Time	12	13	14	15	16	17	18	19	20	21	22	23
15	382	369	341	430	391	357	340	362	374	270	181	132
30	443	418	420	444	380	300	406	342	284	254	150	107
45	413	410	416	471	364	295	408	309	276	242	158	102
00	430	424	453	381	268	374	320	308	284	189	138	83
Hr Total	1.668	1.621	1.630	1.726	1.403	1.326	1.474	1.321	1.218	955	627	424

24 Hour Total : 27,868

 AM Peak Hour begins
 : 11:30
 AM Peak Volume
 : 1,670
 AM Peak Hour Factor
 : 0.94

 PM Peak Hour begins
 : 14:45
 PM Peak Volume
 : 1,798
 PM Peak Hour Factor
 : 0.95

### **TURNING MOVEMENT COUNTS - STREETLIGHT DATA**

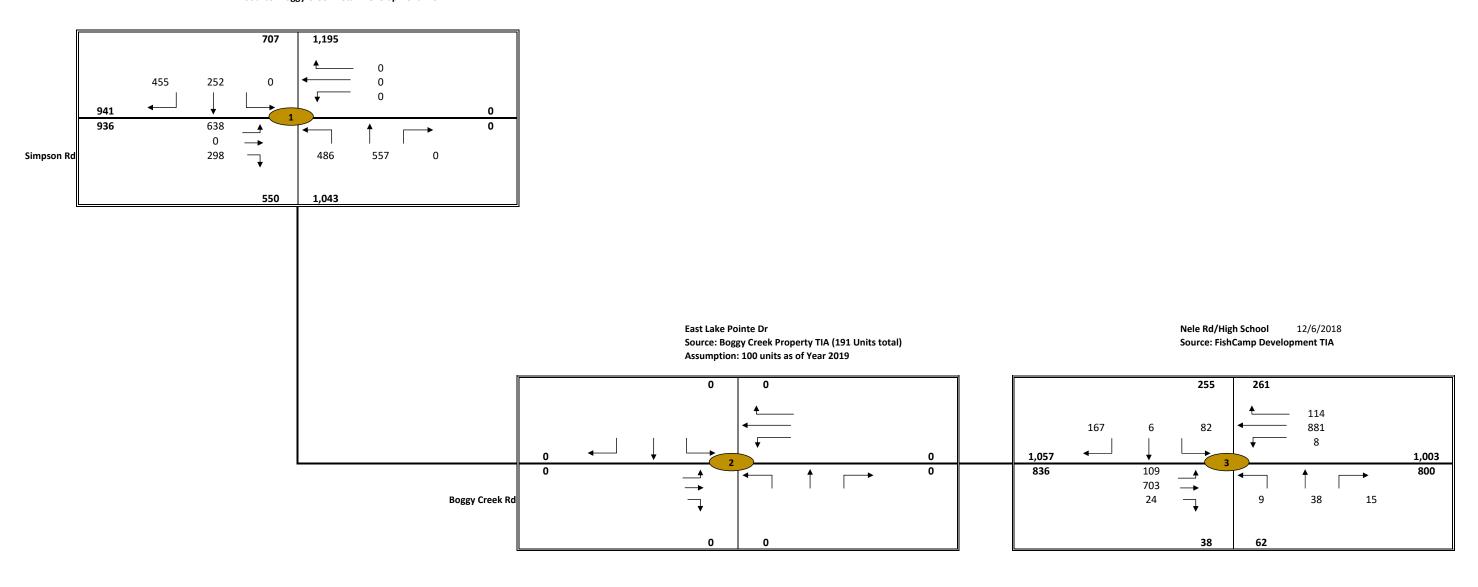
	2_BoggyCreek_LakePointDr_Sept2019		Boggy Cree	k	1	Boggy Cree	k	E	LakePoint I	Dr			
Communication		ED Loft		ED Diaht	M/D Loft		M/B Bight	ND Loft	_	ND Bight	CD L oft	CD Thru	CD Dight
1		Ев септ	EB INTU	EB RIGHT	<u>ws tert</u>	<u>wb inru</u>	WB RIght	ив сец	<u>NB INIU</u>	NB RIGHT	SB Lett	SB Inru	SB RIGHT
1	The second secon												
Δ   Δ   Δ   Δ   Δ   Δ   Δ   Δ   Δ   Δ													
Separate   Nelental Sepi20139   Separate													
Fig.	16. Jpiii (Jpiii-Opiii)	l 0	043	10	15	549	U	15	U	9	U	U	U
Real Part   Real	3_BoggyCreek_NeleRd_Sept2019			k			k				T	_	ı
Part		EDLoft		ED Diabt	WD Loft		M/D Diab+	ND Loft		ND Diabt	CD Loft		CD Diaht
Manual Palman		EBLEIL	<u>EB IIIIU</u>	ED NIGHT	WBLEIL	<u>vvb IIIIu</u>	WE RIGHT	ind Leit	<u>IND TITLU</u>	ND NIGHT	36 Leit	<u> 36 IIIIU</u>	<u> 36 RIGIIL</u>
14 mg													
1													
EB   Filt   EB   EB   Filt	16. 3pm (3pm-6pm)	1/	792	15	10	320	2	5	U	1	4	U	9
File	4_BoggyCreek_SpringLake_Sept2019	_		k			k	Но		s Dr	Spring	glake Villag	e Blvd
		50.1.6		50 D: L.		_	14/D D: 1	ND L G	_	ND 8: 1 :	65.1.6	CD TI	CD D' 1 .
1.2   1.2   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3   1.3		EB Left	<u>EB Thru</u>	EB Right	WB Left	WB Thru	WB Right	NB Left	NB Thru	NB Right	SB Left	<u>SB Thru</u>	SB Right
1	08: 7am (7am-8am)	13	489	5	0	437	25	20	3	29	57	0	158
	09: 8am (8am-9am)	26		9	11	545	26	28	0			0	132
Spoggy/Creek_Turnberry_Sept2019   Spo													
REIGH   REIG	18: 5pm (5pm-6pm)	164	634	24	8	450	78	21	7	7	63	0	64
REIGH   REIG	5 BoggyCreek Turnberry Sept2019		Boggy Cree	k	1	Boggy Cree	k	T	urnberry Bl	vd	To	urnberry Bl	vd
Start   2									NB_In			SB_In	
1		EB Left	EB Thru	EB Right	WB Left	WB Thru	WB Right	NB Left	NB Thru	NB Right	SB Left	SB Thru	SB Right
1	08: 7am (7am-8am)	51	412	10	18	361	37	15	15	17	85	6	107
12.   43.   2.7   6   5.15   8.5   0   1.6   8   4.0   0   4.8   18.5 pm (5pm-6pm)   19   578   105   37   451   71   21   0   8   51   28   77													
6_BoggyCreek_PointeBlvd_Sept2019    Boggy Creek_PointeBlvd_Sept2019   Boggy Creek   B		_		27			85		16	8		0	48
Religion	18: 5pm (5pm-6pm)	109	578	105	37	451	71	21	0	8	51	28	77
Religion													
No.	6 BoggyCreek PointeBlvd Sept2019		Boggy Cree	k		Boggy Cree	k	r	N Pointe Blv	rd .			
09.8 am (8am-9am)	6_BoggyCreek_PointeBlvd_Sept2019			k	<u> </u>		k	1		rd .			
09.8 am (8am-9am)	6_BoggyCreek_PointeBlvd_Sept2019		EB_In			WB_In			NB_In		SB Left	SB Thru	SB Right
17: 4pm (4pm-5pm) 0 472 56 93 559 0 26 0 30 0 0 0 0 18: 5pm (5pm-6pm) 0 526 76 53 534 0 39 0 50 0 0 0 0 0 0 0 18: 5pm (5pm-6pm) 0 526 76 53 534 0 39 0 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		EB Left	EB_In <u>EB Thru</u>	EB Right	WB Left	WB_In <u>WB Thru</u>	WB Right	NB Left	NB_In <u>NB Thru</u>	NB Right			_
1	08: 7am (7am-8am)	EB Left 0	EB_In EB Thru 452	EB Right	WB Left 19	WB_In WB Thru 307	WB Right	NB Left 90	NB_In <u>NB Thru</u> 0	NB Right	0	0	0
SB   FB   FB   FB   FB   FB   FB   FB	08: 7am (7am-8am) 09: 8am (8am-9am)	EB Left  0 0	EB_In EB Thru 452 448	EB Right  3 22	WB Left 19 18	WB_In <u>WB Thru</u> 307 309	WB Right  0 0	NB Left 90 93	NB_In NB Thru  0 0	NB Right 90 103	0	0	0
Second Control   February   Feb	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm)	EB Left  0 0 0	EB_In EB Thru 452 448 472	EB Right  3 22 56	WB Left  19 18 93	WB_In WB Thru 307 309 559	WB Right  0 0 0	NB Left  90  93  26	NB_In NB Thru  0 0 0	90 103 30	0 0 0	0 0 0	0 0 0
BB Left   BB Thru   BB Right   WB Left   WB Left   WB Right   WB Right   WB Right   WB Right   NB Left   NB Thru   NB Right   SB Left   SB Thru   SB Right	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0	EB_In EB Thru 452 448 472 526	3 22 56 76	WB Left  19 18 93 53	WB_In WB Thru 307 309 559 534	WB Right  0 0 0 0 0	90 93 26 39	NB_In NB Thru 0 0 0 0	90 103 30 50	0 0 0 0	0 0 0 0	0 0 0
08: 7am (7am-8am)	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0	EB_In	3 22 56 76	WB Left  19 18 93 53	WB_In WB Thru  307 309 559 534  eek Bank Di	WB Right  0 0 0 0 0	90 93 26 39	NB_In NB Thru  0 0 0 0 0 0 0 0	90 103 30 50	0 0 0 0	0 0 0 0	0 0 0
99: 8am (8am-9am) 17: 4pm (4pm-5pm) 6 6 - 9 4 484 7 2 633 25 18: 5pm (5pm-6pm) 5 5 - 1 1 1 1 23 540 2 3 565 55  8_BoggyCreek_Fells Cove_Sept2019 8_Boggy Creek_Fells Cove_Sept2019 9_Boggy Creek_Fells Cove_Sept2019 9_Boggy Creek_Fells Cove_Sept2019 8_Boggy Creek_Fells Cove_Sept2019 9_Boggy Creek_Fells Cove_Sept2019 9_Boggy Creek_Fells Cove_Sept2019 8_Boggy Creek_Fells Cove	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0	EB_In EB Thru  452 448 472 526  Timber Land EB_In	EB Right  3 22 56 76	WB Left  19 18 93 53	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In	WB Right  0 0 0 0 0 vive	90 93 26 39 Bog	NB_In NB Thru  0 0 0 0 0 0 NB Thru	90 103 30 50	0 0 0 0	0 0 0 0 0 ggy Creek R	0 0 0 0
17: 4pm (4pm-5pm)	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0	EB_In EB Thru  452 448 472 526  Timber Land EB_In	EB Right  3 22 56 76	WB Left  19 18 93 53	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In	WB Right  0 0 0 0 0 vive	90 93 26 39 Bog	NB_In NB Thru  0 0 0 0 0 0 NB Thru	90 103 30 50	0 0 0 0	0 0 0 0 0 ggy Creek R	0 0 0 0
Second Composition   Second	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm) 7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am)	EB Left  0 0 0 0 EB Left	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru	EB Right  3 22 56 76 e  EB Right	WB Left  19 18 93 53  Cre  WB Left	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru	WB Right  0 0 0 0 vive  WB Right	90 93 26 39 Bog	NB_In NB Thru  0 0 0 0 0 Weiggy Creek R NB_In NB_Thru  531	90 103 30 50 oad NB Right	0 0 0 0 80 SB Left	0 0 0 0 <b>ggy Creek R</b> SB_In SB Thru	0 0 0 0
8_BoggyCreek_Fells Cove_Sept2019    Boggy Creek	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm) 7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am)	EB Left  0 0 0 0 EB Left  10 32	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru	EB Right  3 22 56 76 e  EB Right	WB Left  19 18 93 53  Cre  WB Left	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru	WB Right  0 0 0 0 vive  WB Right  3 3	90 93 26 39 Bog NB Left	NB_In NB Thru  0 0 0 0 0 0 segy Creek R NB_In NB Thru  531 534	90 103 30 50 oad NB Right	0 0 0 0 SB Left	0 0 0 0 <b>8gy Creek R</b> SB_In SB Thru	0 0 0 0 coad SB Right
SB Left   SB Thru   SB Right   WB Left   WB Thru   WB Right   WB Left   WB Thru   WB Right   NB Left   NB Thru   NB Right   NB Left   NB Thru   NB Right   SB Left   SB Thru   SB Right	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm)	EB Left  0 0 0 0  EB Left  10 32 6	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru	EB Right  3 22 56 76 e  EB Right	WB Left  19 18 93 53  Cre  WB Left  2 1 4	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru	WB Right  0 0 0 0 vive  WB Right  3 3 -	90 93 26 39 Bog NB Left	NB_In NB Thru  0 0 0 0 0 0 Segy Creek R NB_In NB Thru  531 534 484	90 103 30 50 oad NB Right	0 0 0 0 SB Left	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633	0 0 0 0 oad SB Right
SB Left   SB Thru   SB Right   WB Left   WB Thru   WB Right   NB Left   NB Thru   NB Right   SB Left   SB Thru   SB Right	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm)	EB Left  0 0 0 0  EB Left  10 32 6	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru	EB Right  3 22 56 76 e  EB Right	WB Left  19 18 93 53  Cre  WB Left  2 1 4	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru	WB Right  0 0 0 0 vive  WB Right  3 3 -	90 93 26 39 Bog NB Left	NB_In NB Thru  0 0 0 0 0 0 Segy Creek R NB_In NB Thru  531 534 484	90 103 30 50 oad NB Right	0 0 0 0 SB Left	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633	0 0 0 0 oad SB Right
08: 7am (7am-8am) 0	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0  EB Left  10 32 6 5	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru	EB Right  3 22 56 76  e  EB Right  - 7 9 -	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1	WB Right  0 0 0 0 vive  WB Right  3 3 - 1	NB Left  90 93 26 39  Bo  NB Left  23	NB_In	90 103 30 50  oad  NB Right  5 7 7 2	0 0 0 0 SB Left	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633	0 0 0 0 oad SB Right
09: 8am (8am-9am)       0       563       1       12       309       0       13       0       73       0       0       0       0       17: 4pm (4pm-5pm)       0       424       12       68       650       0       17       0       40       0       0       0       0       0       18: 5pm (5pm-6pm)       0       521       12       40       612       0       7       0       20       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       1,562       0       0       0       58 Thru       58 Thru <td>08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)</td> <td>EB Left  0 0 0 0 0  EB Left  10 32 6 5</td> <td>EB_In EB Thru  452 448 472 526  Timber Lan EB_In EB Thru  Boggy Cree EB_In</td> <td>EB Right  3 22 56 76  e  EB Right  7 9 - k</td> <td>WB Left  19 18 93 53  Cre  WB Left  2 1 4 1</td> <td>WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In</td> <td>WB Right  0 0 0 0 rive  WB Right  3 3 - 1</td> <td>NB Left  90 93 26 39  Bog  NB Left  23</td> <td>NB_In NB_Thru  0 0 0 0 0 0 8gy Creek R NB_In NB_Thru  531 534 484 540  elis Cove Bir</td> <td>90 103 30 50  oad  NB Right  5 7 7 2  vd</td> <td>0 0 0 0 SB Left</td> <td>0 0 0 0 SB_In SB Thru 310 324 633 565</td> <td>0 0 0 0 coad SB Right</td>	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0  EB Left  10 32 6 5	EB_In EB Thru  452 448 472 526  Timber Lan EB_In EB Thru  Boggy Cree EB_In	EB Right  3 22 56 76  e  EB Right  7 9 - k	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In	WB Right  0 0 0 0 rive  WB Right  3 3 - 1	NB Left  90 93 26 39  Bog  NB Left  23	NB_In NB_Thru  0 0 0 0 0 0 8gy Creek R NB_In NB_Thru  531 534 484 540  elis Cove Bir	90 103 30 50  oad  NB Right  5 7 7 2  vd	0 0 0 0 SB Left	0 0 0 0 SB_In SB Thru 310 324 633 565	0 0 0 0 coad SB Right
O9: 8am (8am-9am)         0         563         1         12         309         0         13         0         73         0         0         0           17: 4pm (4pm-5pm)         0         424         12         68         650         0         17         0         40         0         0         0           18: 5pm (5pm-6pm)         0         521         12         40         612         0         7         0         20         0         0         0           9_BoggyCreek_CR15_Sept2019         Boggy Creek         Boggy Creek         WB_In         WB_In         NB_In	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0  EB Left  10 32 6 5	EB_In EB Thru  452 448 472 526  Timber Lan EB_In EB Thru  Boggy Cree EB_In	EB Right  3 22 56 76  e  EB Right  7 9 - k	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In	WB Right  0 0 0 0 rive  WB Right  3 3 - 1	NB Left  90 93 26 39  Bog  NB Left  23	NB_In NB_Thru  0 0 0 0 0 0 8gy Creek R NB_In NB_Thru  531 534 484 540  elis Cove Bir	90 103 30 50  oad  NB Right  5 7 7 2  vd	0 0 0 0 SB Left	0 0 0 0 SB_In SB Thru 310 324 633 565	0 0 0 0 coad SB Right
18: 5pm (5pm-6pm)   0   521   12   40   612   0   7   0   20   0   0   0   0   0   0   0	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019	EB Left  0 0 0 0 0  EB Left  10 32 6 5	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru  Boggy Cree EB_In EB Thru	EB Right  3 22 56 76 e  EB Right  7 9 - k  EB Right	WB Left  19 18 93 53  Cre  WB Left  4 1	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru	WB Right  0 0 0 0 vive  WB Right  3 3 - 1 k  WB Right	NB Left  90 93 26 39  Boy  NB Left  23  FOUND IN THE INTERIOR I	NB_In NB Thru  0 0 0 0 0 8gy Creek R NB_In NB Thru  531 534 484 540  Pells Cove Bly NB_In NB_In NB_In NB_In NB_In NB_In NB_In NB_In NB_In NB_Thru	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right	0 0 0 0 SB Left	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565	0 0 0 0 oad SB Right - 25 55
9_BoggyCreek_CR15_Sept2019  Boggy Creek  EB_In EB_En EB_Thru EB Right BB Ri	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019	EB Left  0 0 0 0  EB Left  10 32 6 5	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru  Boggy Cree EB_In EB Thru  486	EB Right  3 22 56 76 e  EB Right  7 9 - k  EB Right	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1  WB Left  29	WB_In WB Thru  307 309 559 534  Eek Bank Di WB_In WB Thru  1 Boggy Cree WB_In WB Thru  351	WB Right  0 0 0 0 vive  WB Right  3 3 - 1 k  WB Right	NB Left  90 93 26 39  Bog  NB Left  23  From NB Left  8	NB_In NB Thru  0 0 0 0 0 0 Segy Creek R NB_In NB Thru  531 534 484 540 Ells Cove Bli NB_In NB_In NB_Thru	90 103 30 50 oad  NB Right  5 7 7 2 vd  NB Right  63	0 0 0 0 SB Left 1 2 2 3	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565	0 0 0 0 0 oad SB Right - - 25 55
EB_In	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm)	EB Left  0 0 0 0 0  EB Left  10 32 6 5  EB Left  0 0 0	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru  Boggy Cree EB_In EB Thru  486 563 424	EB Right  3 22 56 76  e  EB Right  - 7 9 - k  EB Right  2 1 12	WB Left  19 18 93 53  Cre  WB Left  4 1  WB Left  29 12 68	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650	WB Right  0 0 0 0 vive  WB Right  3 3 3 - 1 k  WB Right  0 0 0	NB Left  90 93 26 39  Boy  NB Left  23  From NB Left  8 13 17	NB_In	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40	0 0 0 0 SB Left 1 2 2 3	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565	0 0 0 0 0 oad SB Right - - 25 55
EB_In	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm)	EB Left  0 0 0 0 0  EB Left  10 32 6 5  EB Left  0 0 0	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru  Boggy Cree EB_In EB Thru  486 563 424	EB Right  3 22 56 76  e  EB Right  - 7 9 - k  EB Right  2 1 12	WB Left  19 18 93 53  Cre  WB Left  4 1  WB Left  29 12 68	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650	WB Right  0 0 0 0 vive  WB Right  3 3 3 - 1 k  WB Right  0 0 0	NB Left  90 93 26 39  Boy  NB Left  23  From NB Left  8 13 17	NB_In	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40	0 0 0 0 SB Left 1 2 2 3	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565	0 0 0 0 0 oad SB Right - - 25 55
Best         EB Left         EB Thru         EB Right         WB Left         WB Thru         WB Right         NB Left         NB Thru         NB Right         SB Left         SB Thru         SB Right           08: 7am (7am-8am)         291         0         190         0         0         286         1,562         0         0         525         57           09: 8am (8am-9am)         293         0         322         0         0         292         1,243         0         0         428         58           17: 4pm (4pm-5pm)         198         0         243         0         0         0         420         656         0         0         1,317         251	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0 0 EB Left  10 32 6 5  EB Left  0 0 0	EB_In EB Thru  452 448 472 526  Timber Lan EB_In EB Thru  Boggy Cree EB_In EB Thru  486 563 424 521	EB Right  3 22 56 76  e  EB Right  7 9 - k  EB Right  2 1 12 12 12	WB Left  19 18 93 53  Cre  WB Left  4 1  WB Left  29 12 68	WB_In WB Thru  307 309 559 534  eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650	WB Right  0 0 0 0 vive  WB Right  3 3 3 - 1 k  WB Right  0 0 0	NB Left  90 93 26 39  Bog  NB Left  23  Fo  NB Left  8 13 17 7	NB_In	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40 20	0 0 0 0 SB Left 1 2 2 3 3	0 0 0 0 Sgy Creek R SB_In SB Thru 310 324 633 565	0 0 0 0 0 0 0 0 0 0 SB Right - 25 55
09: 8am (8am-9am) 293 0 322 0 0 0 292 1,243 0 0 428 58 17: 4pm (4pm-5pm) 198 0 243 0 0 0 420 656 0 0 1,317 251	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0 0 EB Left  10 32 6 5  EB Left  0 0 0	EB_In EB Thru  452 448 472 526  Timber Lan EB_In EB Thru  Boggy Cree EB_In EB Thru  486 563 424 521  Boggy Cree	EB Right  3 22 56 76  e  EB Right  7 9 - k  EB Right  2 1 12 12 12	WB Left  19 18 93 53  Cre  WB Left  4 1  WB Left  29 12 68	WB_In WB Thru  307 309 559 534  Bek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650 612	WB Right  0 0 0 0 vive  WB Right  3 3 3 - 1 k  WB Right  0 0 0	NB Left  90 93 26 39  Bog  NB Left  23  Fo  NB Left  8 13 17 7	NB_In	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40 20	0 0 0 0 SB Left 1 2 2 3 3	0 0 0 0 Sgy Creek R SB_In SB Thru 310 324 633 565	0 0 0 0 0 0 0 0 0 0 SB Right - 25 55
09: 8am (8am-9am) 293 0 322 0 0 0 292 1,243 0 0 428 58 17: 4pm (4pm-5pm) 198 0 243 0 0 0 420 656 0 0 1,317 251	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)	EB Left  0 0 0 0 0 EB Left  10 32 6 5  EB Left  0 0 0 0	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru  Boggy Cree EB_In EB Thru  486 563 424 521  Boggy Cree EB_In	EB Right  3 22 56 76 e  EB Right  7 9 - k  EB Right  2 1 12 12 k	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1  WB Left  29 12 68 40	WB_In WB Thru  307 309 559 534  Eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650 612  WB_In WB_In	WB Right  0 0 0 0 vive  WB Right  3 3 - 1 k  WB Right  0 0 0 0	NB Left  90 93 26 39  Boy NB Left  23  Fr  NB Left  8 13 17 7	NB_In NB Thru  0 0 0 0 0 0 Segy Creek R NB_In NB Thru  531 534 484 540  Pells Cove Bly NB_In NB Thru  0 0 0 0 0 arcoossee I NB_In	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40 20  Rd	0 0 0 0 SB Left 1 2 2 3 SB Left 0 0	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565 SB Thru 0 0	0 0 0 0 0 0 0 0 0 0 SB Right - 25 55
17: 4pm (4pm-5pm) 198 0 243 0 0 0 420 656 0 0 1,317 251	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  9_BoggyCreek_CR15_Sept2019	EB Left  0 0 0 0 0 0 EB Left  10 32 6 5  EB Left  0 0 0 0 EB Left	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru   Boggy Cree EB_In EB Thru  486 563 424 521  Boggy Cree EB_In EB Thru	EB Right  3 22 56 76 e  EB Right  7 9 - k  EB Right  2 1 12 12 12 k  EB Right	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1  WB Left  29 12 68 40  WB Left	WB_In WB Thru  307 309 559 534  Eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650 612  WB_In WB Thru	WB Right  0 0 0 0 vive  WB Right  3 3 - 1 k  WB Right  0 0 0 0  WB Right	NB Left  90 93 26 39  Bog  NB Left  23  Final State of the state o	NB_In NB Thru  0 0 0 0 0 8gy Creek R NB_In NB Thru  531 534 484 540  ells Cove Bl NB_In NB Thru  0 0 0 0 0 arcoossee I NB_In NB Thru	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40 20  Rd  NB Right	0 0 0 0 SB Left 1 2 2 3 3 SB Left 0 0 0	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565 SB Thru 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Rd
	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  9_BoggyCreek_CR15_Sept2019	EB Left  0 0 0 0 0 0 EB Left  10 32 6 5  EB Left  0 0 0 0 EB Left  291	EB_In EB Thru  452 448 472 526  Timber Land EB_In EB Thru   Boggy Cree EB_In EB Thru  486 563 424 521  Boggy Cree EB_In EB_In EB_Thru  0	EB Right  3 22 56 76 e  EB Right  7 9 - k  EB Right  2 1 12 12 12 k  EB Right	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1  WB Left  29 12 68 40  WB Left	WB_In WB Thru  307 309 559 534  Eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650 612  WB_In WB_In WB_Thru  0	WB Right  0 0 0 0 0 rive  WB Right  3 3 3 - 1 k  WB Right  0 0 0 0 0 WB Right	NB Left  90 93 26 39  Boy  NB Left  23  FI  NB Left  8 13 17 7  N  NB Left  286	NB_In NB Thru  0 0 0 0 0 0 0 Sigy Creek R NB_In NB Thru  531 534 484 540  Ells Cove Blv NB_In NB Thru  0 0 0 0 0 arcoossee I NB_In NB Thru  1,562	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40 20  Rd  NB Right  0	0 0 0 0 SB Left 1 2 2 3 3 SB Left 0 0 0	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565 SB Thru 0 0 0	0 0 0 0 0 0 0 0 0 0 5B Right 0 0 0 0 0 0
	08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  7_BoggyCreek_TimberLn_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  8_BoggyCreek_Fells Cove_Sept2019  08: 7am (7am-8am) 09: 8am (8am-9am) 17: 4pm (4pm-5pm) 18: 5pm (5pm-6pm)  9_BoggyCreek_CR15_Sept2019	EB Left  0 0 0 0 0 0 EB Left  10 32 6 5  EB Left  0 0 0 2 EB Left  291 293	EB_In EB Thru  452 448 472 526  Timber Lan EB_In EB Thru  Boggy Cree EB_In EB Thru  486 563 424 521  Boggy Cree EB_In EB Thru  0 0	EB Right  3 22 56 76  e  EB Right  7 9 - k  EB Right  12 12 12 12 k  EB Right  190 322	WB Left  19 18 93 53  Cre  WB Left  2 1 4 1  WB Left  29 12 68 40  WB Left  0 0	WB_In WB Thru  307 309 559 534  Eek Bank Di WB_In WB Thru  1  Boggy Cree WB_In WB Thru  351 309 650 612  WB_In WB Thru  0 0	WB Right  0 0 0 0 0 rive  WB Right  3 3 - 1 k  WB Right  0 0 0 0  WB Right  0 0 0 0	NB Left  90 93 26 39  Bog  NB Left	NB_In	90 103 30 50  oad  NB Right  5 7 7 2  vd  NB Right  63 73 40 20  Rd  NB Right  0 0	0 0 0 0 SB Left 1 2 2 3 3 SB Left 0 0 0 0	0 0 0 0 8gy Creek R SB_In SB Thru 310 324 633 565 SB Thru 0 0 0 0	0 0 0 0 0 0 0 0 0 0 5B Right 0 0 0 0 0 0

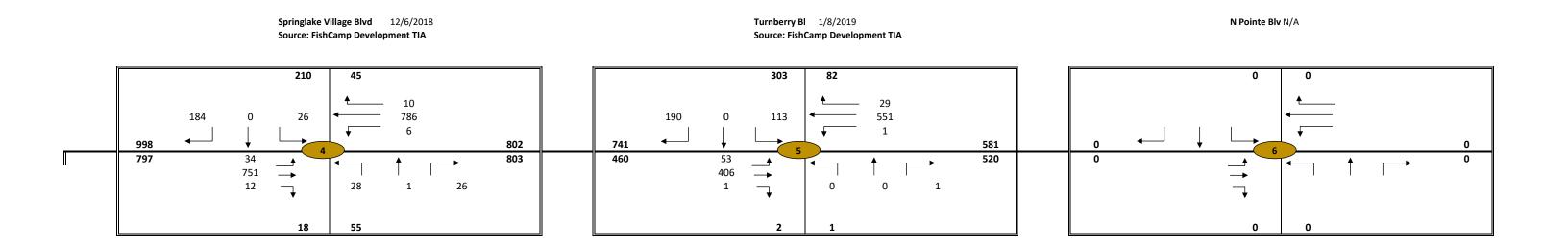
# Appendix A

TMC's from Previous Projects

### 7 -8 AM (Previous Projects)

Boggy Creek Rd 11/14/2019 Source: Boggy Creek Retail Development LLC





Source: Poitras Neighborhood N-7 Source: Poitras Neighborhood N-7 1,963 0 668 592 76 Boggy Creek Rd 395 306 510 0 223 312 26 1,657 815 1,969 81 Timber Ln/Creek Bank Dr Source: Creekside TIA (312 Units) Assumption: 100 units as of Year 2019

Fells Cove Blvd

11/8/2018

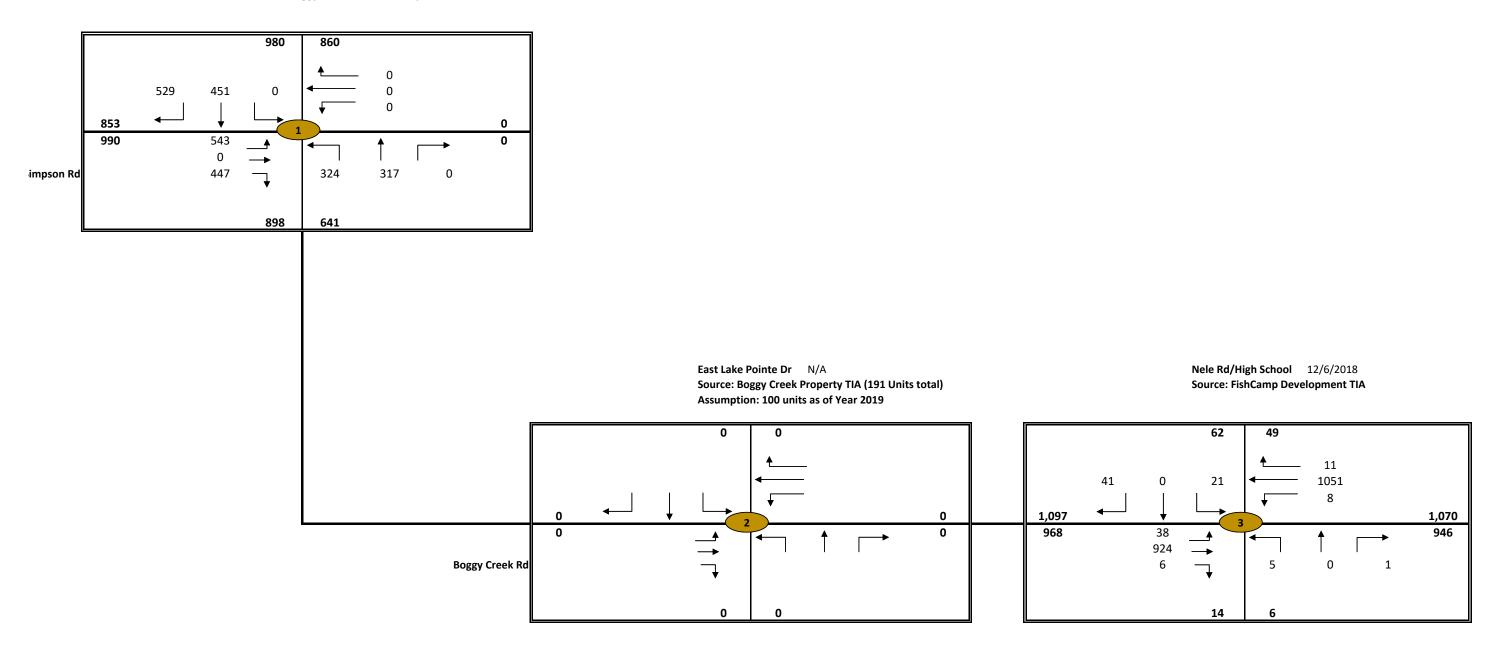
11/8/2018

Narcoossee Rd

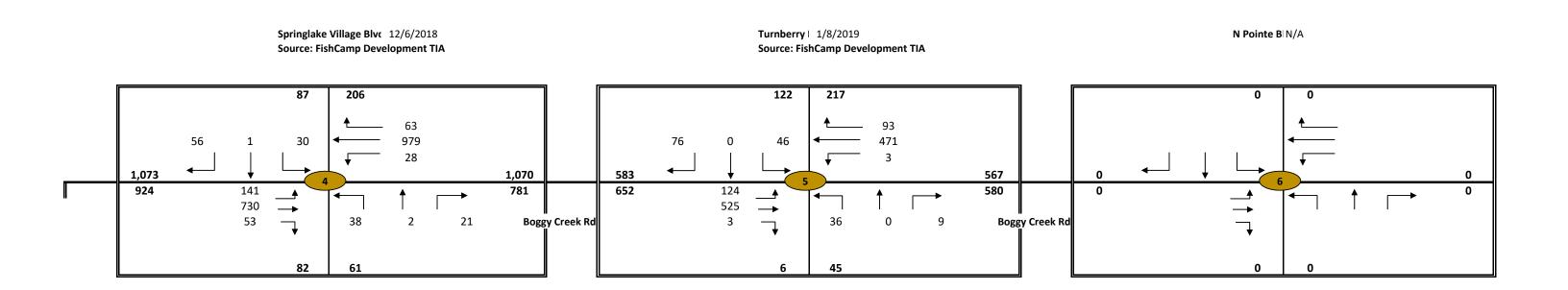
## 5 - 6 PM (Previous Projects)

Boggy Creek Rd 1/8/2019

Source: Boggy Creek Retail Development LLC

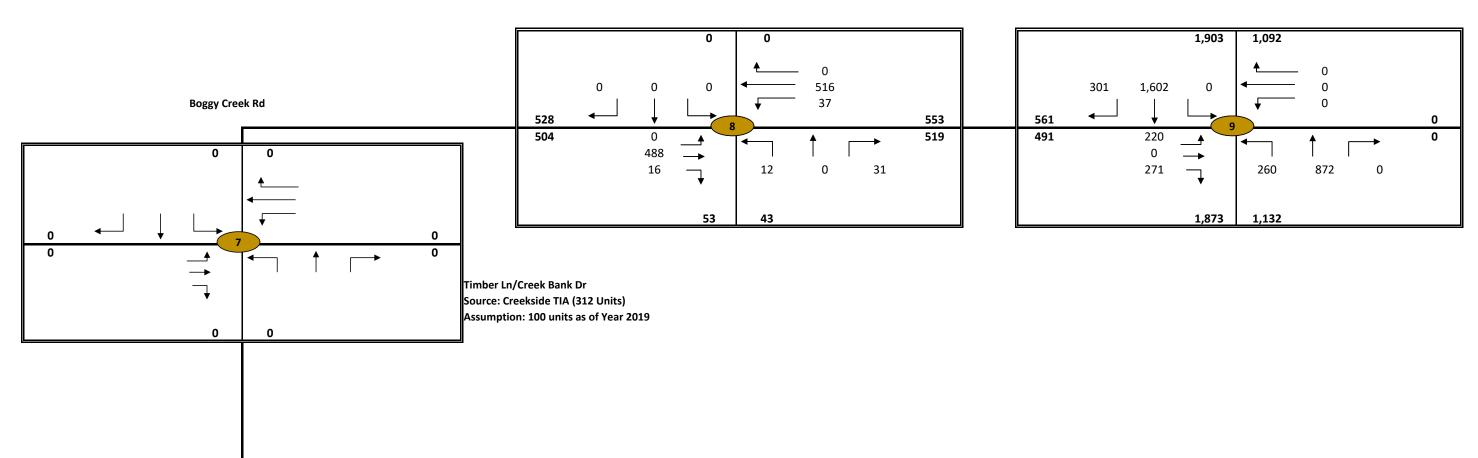


## 5 - 6 PM (Previous Projects)



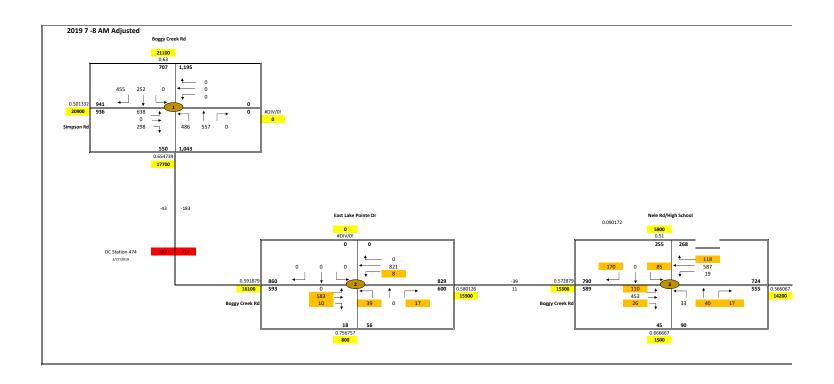
Fells Cove Blvd #######
Source: Poitras Neighborhood N-7

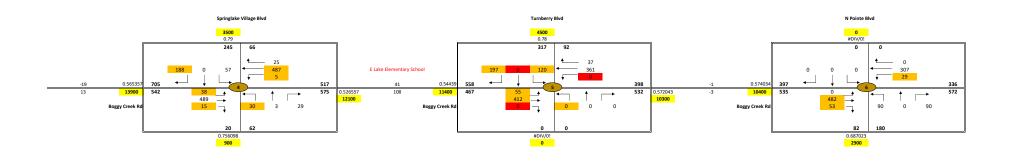
Narcoossee Rd ####### Source: Poitras Neighborhood N-7

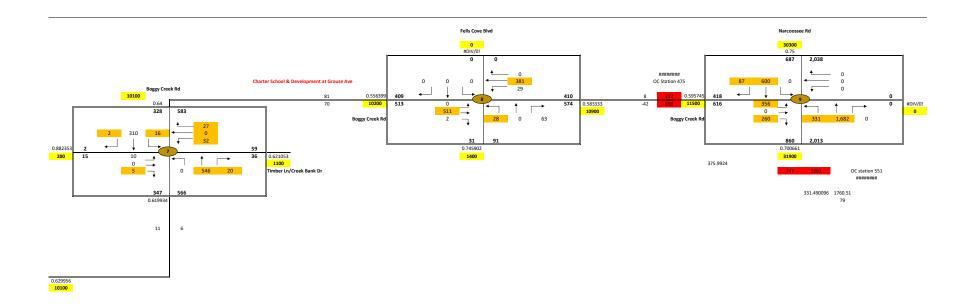


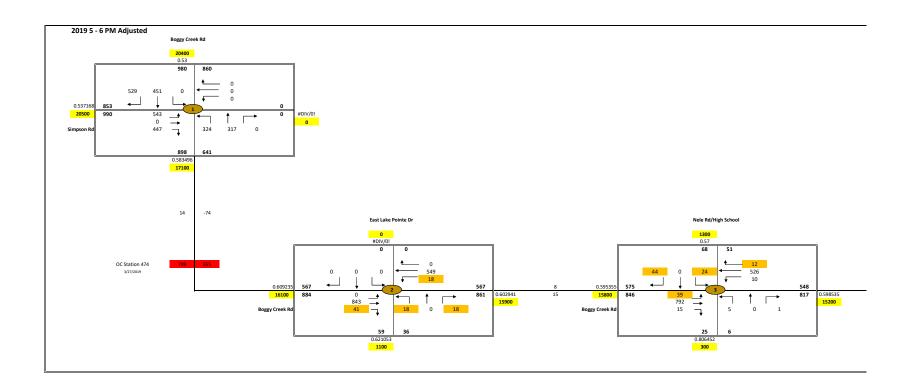
# Appendix A

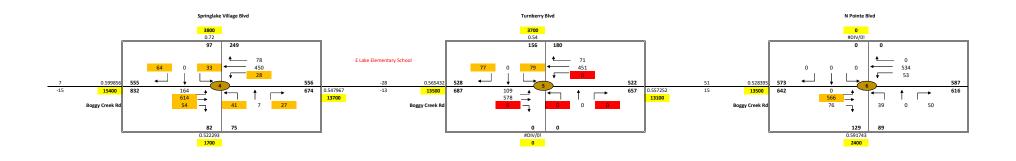
Adjusted TMC's

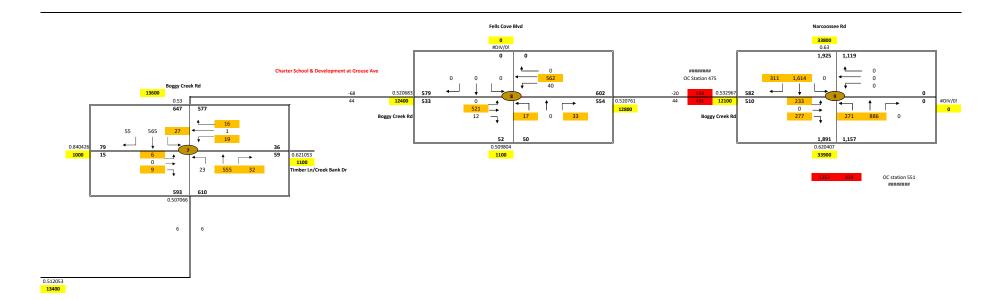












# **Appendix D**

Existing Synchro Intersection Analysis Outputs

	۶	•	1	<b>†</b>	L	ļ	4	
Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR	
Lane Configurations	*	7	7	<b>↑</b>	Ð	<b>^</b>	7	
Traffic Volume (veh/h)	638	298	486	557	Ö	252	455	
Future Volume (veh/h)	638	298	486	557	0	252	455	
Initial Q (Qb), veh	0	0	0	0		0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00	
Work Zone On Approach	No			No		No		
Adj Sat Flow, veh/h/ln	1826	1826	1841	1841		1841	1841	
Adj Flow Rate, veh/h	672	314	512	586		265	479	
Peak Hour Factor	0.95	0.95	0.95	0.95		0.95	0.95	
Percent Heavy Veh, %	5	5	4	4		4	4	
Cap, veh/h	608	541	265	1069		1582	1251	
Arrive On Green	0.35	0.35	0.09	0.58		0.45	0.45	
Sat Flow, veh/h	1739	1547	1753	1841		3589	1560	
Grp Volume(v), veh/h	672	314	512	586		265	479	
Grp Sat Flow(s), veh/h/ln	1739	1547	1753	1841		1749	1560	
Q Serve(g_s), s	68.2	32.3	17.2	38.2		8.8	17.1	
Cycle Q Clear(g_c), s	68.2	32.3	17.2	38.2		8.8	17.1	
Prop In Lane	1.00	1.00	1.00	00.2		0.0	1.00	
Lane Grp Cap(c), veh/h	608	541	265	1069		1582	1251	
V/C Ratio(X)	1.10	0.58	1.94	0.55		0.17	0.38	
Avail Cap(c_a), veh/h	608	541	265	1069		1582	1251	
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00	
Uniform Delay (d), s/veh	63.4	51.7	55.7	25.2		31.6	5.5	
Incr Delay (d2), s/veh	68.7	1.6	434.5	2.0		0.2	0.9	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0	
%ile BackOfQ(95%),veh/ln	55.4	18.6	67.8	23.8		6.8	9.0	
Unsig. Movement Delay, s/veh			00			0.0	0.0	
LnGrp Delay(d),s/veh	132.1	53.3	490.2	27.2		31.9	6.4	
LnGrp LOS	F	D	F	C		C	A	
Approach Vol, veh/h	986			1098		744		
Approach Delay, s/veh	107.0			243.1		15.5		
Approach LOS	F			F F		В		
Timer - Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	25.0	95.0				120.0		75.0
Change Period (Y+Rc), s	7.8	6.8				6.8		6.8
Max Green Setting (Gmax), s	17.2	58.2				58.2		68.2
Max Q Clear Time (g_c+I1), s	19.2	19.1				40.2		70.2
Green Ext Time (p_c), s	0.0	3.5				3.3		0.0
Intersection Summary								
HCM 6th Ctrl Delay			135.7					
HCM 6th LOS			F					
Notes								

User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	1.4					
	EBT	EDD	///DI	WDT	NDI	NDD
		EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b>	7	ሻ	<b>↑</b>	**	47
Traffic Vol, veh/h	583	10	8	821	39	17
Future Vol, veh/h	583	10	8	821	39	17
Conflicting Peds, #/hr	0	0	0	0	0	0
•	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	-	225	240	-	0	-
Veh in Median Storage, #	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	614	11	8	864	41	18
				_		
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	625	0	1494	614
Stage 1	-	-	-	-	614	-
Stage 2	-	-	-	-	880	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	_	-	-	-	5.42	_
Follow-up Hdwy	-	_	2.236	_	3.518	3.318
Pot Cap-1 Maneuver	_	_	947	_	136	492
Stage 1	_	_	-	_	540	-
Stage 2		_	_	_	406	_
Platoon blocked, %	_	_	_		400	_
· · · · · · · · · · · · · · · · · · ·	-		047	-	125	400
Mov Cap-1 Maneuver	-	-	947	-	135	492
Mov Cap-2 Maneuver	-	-	-	-	135	-
Stage 1	-	-	-	-	540	-
Stage 2	-	-	-	-	403	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		36.2	
HCM LOS	U		0.1			
HCMI LOS					Е	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		173	_	_	947	_
HCM Lane V/C Ratio		0.341	-	_	0.009	-
HCM Control Delay (s)		36.2	_	_	8.8	-
HCM Lane LOS		E	-	_	A	-
HCM 95th %tile Q(veh)		1.4	_	_	0	_
HOW JOHN JOHN (VEII)		1.4	_	_	U	_

	۶	<b>→</b>	*	•	•	•	4	1	~	/	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	*	<b>†</b>	7	7	<b>†</b>	7		4			4	7
Traffic Volume (veh/h)	110	453	26	19	587	118	33	40	17	85	0	170
Future Volume (veh/h)	110	453	26	19	587	118	33	40	17	85	0	170
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	134	552	32	23	716	144	40	49	21	104	0	207
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	425	1241	1052	550	1197	1015	38	40	10	160	0	229
Arrive On Green	0.06	0.67	0.67	0.03	0.65	0.65	0.14	0.14	0.14	0.14	0.00	0.14
Sat Flow, veh/h	1753	1841	1560	1753	1841	1560	18	278	70	742	0	1585
Grp Volume(v), veh/h	134	552	32	23	716	144	110	0	0	104	0	207
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1753	1841	1560	366	0	0	742	0	1585
Q Serve(g_s), s	3.3	19.1	0.9	0.6	30.5	4.9	0.7	0.0	0.0	0.0	0.0	17.6
Cycle Q Clear(g_c), s	3.3	19.1	0.9	0.6	30.5	4.9	19.8	0.0	0.0	19.1	0.0	17.6
Prop In Lane	1.00		1.00	1.00		1.00	0.36		0.19	1.00		1.00
Lane Grp Cap(c), veh/h	425	1241	1052	550	1197	1015	89	0	0	160	0	229
V/C Ratio(X)	0.32	0.44	0.03	0.04	0.60	0.14	1.24	0.00	0.00	0.65	0.00	0.90
Avail Cap(c_a), veh/h	815	1241	1052	599	1197	1015	89	0	0	160	0	229
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	10.6	10.4	7.4	7.9	13.7	9.2	59.3	0.0	0.0	58.4	0.0	57.8
Incr Delay (d2), s/veh	0.3	1.2	0.1	0.0	2.2	0.3	173.7	0.0	0.0	7.2	0.0	34.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.0	11.8	0.5	0.4	17.9	2.9	12.9	0.0	0.0	7.1	0.0	14.2
Unsig. Movement Delay, s/veh		44.5			45.0	0.5	222.2	0.0	0.0	05.0	0.0	00.0
LnGrp Delay(d),s/veh	10.9	11.5	7.5	7.9	15.9	9.5	232.9	0.0	0.0	65.6	0.0	92.0
LnGrp LOS	В	В	A	A	В	Α	F	Α	A	E	A	F
Approach Vol, veh/h		718			883			110			311	
Approach Delay, s/veh		11.3			14.7			232.9			83.2	
Approach LOS		В			В			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.2	100.0		25.0	15.5	96.7		25.0				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.5	92.5		* 20	38.5	62.5		* 20				
Max Q Clear Time (g_c+l1), s	2.6	21.1		21.1	5.3	32.5		21.8				
Green Ext Time (p_c), s	0.0	8.6		0.0	0.2	11.5		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			35.9									
HCM 6th LOS			D									
N												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection												
Int Delay, s/veh	5.9											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>↑</b>	7	ሻ	<b>↑</b>	7	INDL	4	NDIN	ODL	4	7
Traffic Vol, veh/h	38	489	15	5	487	25	30	3	29	57	0	188
Future Vol, veh/h	38	489	15	5	487	25	30	3	29	57	0	188
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	_	-	None	-	-	None	-	-	None	-	-	None
Storage Length	460	-	250	345	-	400	-	-	-	-	-	0
Veh in Median Storage,	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2
Mvmt Flow	40	515	16	5	513	26	32	3	31	60	0	198
Major/Minor N	/lajor1			Major2			Minor1			Minor2		
Conflicting Flow All	539	0	0	531	0	0	1230	1144	515	1143	1134	513
Stage 1	-	-	-	-	-	-	595	595	-	523	523	-
Stage 2	-	-	-	-	-	-	635	549	-	620	611	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
	2.236	-	-	2.236	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1019	-	-	1026	-	-	154	200	560	177	203	561
Stage 1	-	-	-	-	-	-	491	492	-	537	530	-
Stage 2	-	-	-	-	-	-	467	516	-	476	484	-
Platoon blocked, %	10.15	-	-	10	-	-				, - :		
Mov Cap-1 Maneuver	1019	-	-	1026	-	-	96	191	560	160	194	561
Mov Cap-2 Maneuver	-	-	-	-	-	-	96	191	-	160	194	-
Stage 1	-	-	-	-	-	-	472	473	-	516	527	-
Stage 2	-	-	-	-	-	-	301	513	-	429	465	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.6			0.1			41.1			20.8		
HCM LOS							Е			С		
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2		
Capacity (veh/h)		163	1019	-		1026	-	-		561		
HCM Lane V/C Ratio			0.039	-		0.005	-	-	0.375			
HCM Control Delay (s)		41.1	8.7	-	-	8.5	-	-	40.4	14.9		
HCM Lane LOS		Е	Α	-	-	Α	-	-	Е	В		
HCM 95th %tile Q(veh)		1.8	0.1	-	-	0	-	-	1.6	1.6		

	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<b>/</b>	<b>/</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	<b>↑</b>			<b>†</b>	7	ሻ	<b>↑</b>	7		र्स	7
Traffic Volume (veh/h)	55	412	0	0	361	37	0	0	0	120	0	197
Future Volume (veh/h)	55	412	0	0	361	37	0	0	0	120	0	197
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	10/11	No	0	0	No	1041	1070	No	1070	1070	No	1070
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h Peak Hour Factor	58 0.95	434 0.95	0 0.95	0 0.95	380 0.95	39 0.95	0.95	0 0.95	0 0.95	126 0.95	0 0.95	207 0.95
Percent Heavy Veh, %	0.93	0.93	0.93	0.93	0.95	0.93	0.93	0.93	0.93	0.93	0.93	0.95
Cap, veh/h	666	1358	0	0	1117	947	1	2	1	273	0	243
Arrive On Green	0.07	0.74	0.00	0.00	0.61	0.61	0.00	0.00	0.00	0.15	0.00	0.15
Sat Flow, veh/h	1753	1841	0.00	0.00	1841	1560	1781	1870	1585	1781	0.00	1585
Grp Volume(v), veh/h	58	434	0	0	380	39	0	0	0	126	0	207
Grp Sat Flow(s), veh/h/ln	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	1.3	9.7	0.0	0.0	12.3	1.2	0.0	0.0	0.0	7.7	0.0	15.3
Cycle Q Clear(g_c), s	1.3	9.7	0.0	0.0	12.3	1.2	0.0	0.0	0.0	7.7	0.0	15.3
Prop In Lane	1.00		0.00	0.00	12.0	1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	666	1358	0	0	1117	947	1	2	1	273	0	243
V/C Ratio(X)	0.09	0.32	0.00	0.00	0.34	0.04	0.00	0.00	0.00	0.46	0.00	0.85
Avail Cap(c_a), veh/h	700	1358	0	0	1117	947	327	343	291	445	0	396
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.7	5.4	0.0	0.0	11.7	9.5	0.0	0.0	0.0	46.3	0.0	49.5
Incr Delay (d2), s/veh	0.0	0.6	0.0	0.0	0.8	0.1	0.0	0.0	0.0	1.2	0.0	9.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.7	5.2	0.0	0.0	8.1	0.7	0.0	0.0	0.0	6.4	0.0	10.9
Unsig. Movement Delay, s/veh												=0.0
LnGrp Delay(d),s/veh	6.7	6.0	0.0	0.0	12.5	9.6	0.0	0.0	0.0	47.5	0.0	58.8
LnGrp LOS	А	Α	A	Α	В	A	A	A	A	D	A	<u>E</u>
Approach Vol, veh/h		492			419			0			333	
Approach Delay, s/veh		6.1			12.2			0.0			54.6	
Approach LOS		А			В						D	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		95.6		24.4	15.7	79.9		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		48.9		30.0	10.9	30.9		22.0				
Max Q Clear Time (g_c+I1), s		11.7		17.3	3.3	14.3		0.0				
Green Ext Time (p_c), s		5.2		1.1	0.0	3.6		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			21.1									
HCM 6th LOS			С									

Intersection						
Int Delay, s/veh	3.3					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	invil.	TAVVIX		TVLIX	3VVL	
Traffic Vol, veh/h	90	90	482	53	29	307
Future Vol, veh/h	90	90	482	53	29	307
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Stop -	None	-	None	-	None
	0	0	-	295	390	None
Storage Length						0
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	95	95	507	56	31	323
Major/Minor	Minor1	N	Major1	N	Major2	
Conflicting Flow All	892	507	0	0	563	0
Stage 1	507	-	-	_	-	-
Stage 2	385	<u>-</u>	<u>-</u>	<u>-</u>	_	_
Critical Hdwy	6.42	6.22	_	_	4.14	_
Critical Hdwy Stg 1	5.42	0.22	_	-	4.14	_
	5.42	_	-	_	-	-
Critical Hdwy Stg 2	3.518		-	-	2.236	_
Follow-up Hdwy	312	566	-	-	999	
Pot Cap-1 Maneuver			-	-		-
Stage 1	605	-	-	-	-	-
Stage 2	688	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	302	566	-	-	999	-
Mov Cap-2 Maneuver	302	-	-	-	-	-
Stage 1	605	-	-	-	-	-
Stage 2	667	-	-	-	-	-
Approach	NW		NE		SW	
HCM Control Delay, s	17.5		0		0.8	
HCM LOS	17.5		U		0.0	
TIOW LOG	U					
Minor Lane/Major Mvm	<u>nt</u>	NET	NERN	IWLn1N		SWL
Capacity (veh/h)		-	-	302	566	999
HCM Lane V/C Ratio		-	-	0.314		0.031
HCM Control Delay (s)		-	-	22.3	12.6	8.7
HCM Lane LOS		-	-	С	В	Α
HCM 95th %tile Q(veh	)	-	-	1.3	0.6	0.1

Int Delay, s/veh	Intersection												
Lane Configurations		1.6											
Lane Configurations	Movement	FBI	FRT	FBR	WRI	WRT	WRR	NBI	NRT	NBR	SBI	SBT	SBR
Traffic Vol, veh/h		LDL		LDI	TIDE		TIDIO						ODIN
Future Vol, veh/h  10  0  5  32  0  27  0  546  0  0  0  0  0  0  0  0  0  0  0  0  0		10		5	32		27						2
Conflicting Peds, #/hr													
Sign Control   Stop	·							-					
RT Channelized		-	-		Stop		Stop			Free			
Storage Length													
Veh in Median Storage, # - 0		-	-		-	-	-	240	-		425	-	-
Peak Hour Factor		e, # -	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %   2   2   2   2   2   2   2   4   4   4	Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Mymt Flow         11         0         5         34         0         28         0         575         21         17         326         2           Major/Minor         Minor1         Major1         Major2           Conflicting Flow All         961         957         327         939         937         575         328         0         0         596         0         0           Stage 1         361         361         -         575         575         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Major/Minor   Minor2   Minor1   Major1   Major2	Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4
Conflicting Flow All   961   957   327   939   937   575   328   0   0   596   0   0	Mvmt Flow	11	0	5	34	0	28	0	575	21	17	326	2
Conflicting Flow All   961   957   327   939   937   575   328   0   0   596   0   0													
Conflicting Flow All   961   957   327   939   937   575   328   0   0   596   0   0	Major/Minor	Minor2			Minor1			Major1		ı	Major2		
Stage 1         361         361         - 575         575		961	957			937			0			0	0
Stage 2						575			-	-	-	-	-
Critical Hdwy Stg 1       6.12       5.52       -       6.12       5.52       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	ŭ	600	596	-	364	362	-	-	-	-	-	-	-
Critical Hdwy Stg 2         6.12         5.52         -         6.12         5.52         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <t< td=""><td></td><td>7.12</td><td>6.52</td><td>6.22</td><td>7.12</td><td>6.52</td><td>6.22</td><td>4.14</td><td>-</td><td>-</td><td>4.14</td><td>-</td><td>-</td></t<>		7.12	6.52	6.22	7.12	6.52	6.22	4.14	-	-	4.14	-	-
Follow-up Hdwy 3.518 4.018 3.318 3.518 4.018 3.318 2.236 - 2.236 2.236 Pot Cap-1 Maneuver 236 258 714 244 265 518 1220 - 971 Stage 1 657 626 - 503 503 Stage 2 488 492 - 655 625	Critical Hdwy Stg 1			-			-	-	-	-	-	-	-
Pot Cap-1 Maneuver   236   258   714   244   265   518   1220   -							-	-	-	-	-	-	-
Stage 1         657         626         -         503         503         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -									-	-		-	-
Stage 2         488         492         -         655         625         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -				714			518	1220	-	-	971	-	-
Platoon blocked, %				-			-	-	-	-	-	-	-
Mov Cap-1 Maneuver         220         253         714         239         260         518         1220         -         971         -         -           Mov Cap-2 Maneuver         220         253         -         239         260         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	ŭ	488	492	-	655	625	-	-	-	-	-	-	-
Mov Cap-2 Maneuver         220         253         -         239         260         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td>	· · · · · · · · · · · · · · · · · · ·								-	-		-	-
Stage 1         657         615         - 503         503	•						518	1220	-	-	971	-	-
Stage 2         461         492         - 639         614							-	-	-	-	-	-	-
Approach         EB         WB         NB         SB           HCM Control Delay, s         18.3         19.1         0         0.4           HCM LOS         C         C         C         C           Minor Lane/Major Mvmt         NBL         NBT         NBR EBLn1WBLn1         SBL         SBT         SBR           Capacity (veh/h)         1220         -         -         286         317         971         -         -           HCM Lane V/C Ratio         -         -         -         0.055         0.196         0.017         -         -           HCM Control Delay (s)         0         -         -         18.3         19.1         8.8         -         -           HCM Lane LOS         A         -         -         C         C         A         -         -	<u> </u>						-	-	-	-	-	-	-
HCM Control Delay, s 18.3 19.1 0 0.4  HCM LOS C C  Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR  Capacity (veh/h) 1220 286 317 971  HCM Lane V/C Ratio 0.055 0.196 0.017  HCM Control Delay (s) 0 - 18.3 19.1 8.8  HCM Lane LOS A - C C A	Stage 2	461	492	-	639	614	-	-	-	-	-	-	-
HCM Control Delay, s         18.3         19.1         0         0.4           HCM LOS         C         C         C           Minor Lane/Major Mvmt         NBL         NBT         NBR EBLn1WBLn1         SBL         SBT         SBR           Capacity (veh/h)         1220         -         -         286         317         971         -         -           HCM Lane V/C Ratio         -         -         -         0.055         0.196         0.017         -         -           HCM Control Delay (s)         0         -         -         18.3         19.1         8.8         -         -           HCM Lane LOS         A         -         -         C         C         A         -         -													
Minor Lane/Major Mvmt         NBL         NBT         NBR EBLn1WBLn1         SBL         SBT         SBR           Capacity (veh/h)         1220         -         -         286         317         971         -         -           HCM Lane V/C Ratio         -         -         -         0.055         0.196         0.017         -         -           HCM Control Delay (s)         0         -         -         18.3         19.1         8.8         -         -           HCM Lane LOS         A         -         -         C         C         A         -         -													
Minor Lane/Major Mvmt         NBL         NBT         NBR EBLn1WBLn1         SBL         SBT         SBR           Capacity (veh/h)         1220         -         -         286         317         971         -         -           HCM Lane V/C Ratio         -         -         -         0.055         0.196         0.017         -         -           HCM Control Delay (s)         0         -         -         18.3         19.1         8.8         -         -           HCM Lane LOS         A         -         -         C         C         A         -         -								0			0.4		
Capacity (veh/h) 1220 286 317 971 HCM Lane V/C Ratio 0.055 0.196 0.017 HCM Control Delay (s) 0 18.3 19.1 8.8 HCM Lane LOS A - C C A	HCM LOS	С			С								
Capacity (veh/h) 1220 286 317 971 HCM Lane V/C Ratio 0.055 0.196 0.017 HCM Control Delay (s) 0 18.3 19.1 8.8 HCM Lane LOS A - C C A													
HCM Lane V/C Ratio       -       -       -       0.055       0.196       0.017       -       -         HCM Control Delay (s)       0       -       -       18.3       19.1       8.8       -       -         HCM Lane LOS       A       -       -       C       C       A       -       -	Minor Lane/Major Mvm	nt		NBT	NBR	EBLn1V	VBLn1		SBT	SBR			
HCM Control Delay (s) 0 18.3 19.1 8.8 HCM Lane LOS A C C A			1220	-					-	-			
HCM Lane LOS A C C A				-	-				-	-			
			0	-	-				-	-			
HCM 95th %tile Q(veh) 0 0.2 0.7 0.1				-	-				-	-			
. To the out 70 to 10 to	HCM 95th %tile Q(veh)		0	-	-	0.2	0.7	0.1	-	-			

Intersection						
Int Delay, s/veh	1.6					
•	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b>	<u>*</u>	<b>"</b>	201	70	62
Traffic Vol, veh/h	511	2	29	381	28	63
Future Vol, veh/h	511	2	29	381	28	63
Conflicting Peds, #/hr	_ 0	0	_ 0	_ 0	0	0
0	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None			-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage, #	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	538	2	31	401	29	66
NA ' /NA'			4.1.0		A'	
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	540	0	1001	538
Stage 1	-	-	-	-	538	-
Stage 2	-	-	-	-	463	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	_	_	5.42	-
Follow-up Hdwy	_	-	2.236	_		3.318
Pot Cap-1 Maneuver	_	_	1018	_	269	543
Stage 1	_	_	-	_	585	-
Stage 2	_	_	_	_	634	_
Platoon blocked, %	_			_	004	
		_	1010		261	543
Mov Cap-1 Maneuver	-	-	1018	-	261	
Mov Cap-2 Maneuver	-	-	-	-	261	-
Stage 1	-	-	-	-	585	-
Stage 2	-	-	-	-	615	-
Approach	EB		WB		NB	
	0		0.6		15	
HCM LOS	U		0.0		15 C	
HCM LOS					U	
Minor Lane/Major Mvmt	1	NBLn11	VBLn2	EBT	EBR	WBL
Capacity (veh/h)		261	543	-		1018
HCM Lane V/C Ratio		0.113		_	-	0.03
HCM Control Delay (s)		20.5	12.6	_	_	8.6
HCM Lane LOS		20.5 C	12.0 B	_	_	Α
HCM 95th %tile Q(veh)		0.4	0.4	_	-	0.1
HOW Sour Male Q(Veri)		0.4	0.4	-	-	U. I

	>	-	×	4	1	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	*	1	<b>^</b>	7	*	<b>^</b>	
Traffic Volume (veh/h)	356	260	600	87	331	1682	
Future Volume (veh/h)	356	260	600	87	331	1682	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00	J	1.00	1.00	•	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No	1.00	No	1.00	1.00	No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	375	274	632	0	348	1771	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	292	260	1908		595	2486	
Arrive On Green	0.17	0.17	0.55	0.00	0.10	0.71	
Sat Flow, veh/h	1753	1560	3589	1560	1753	3589	
Grp Volume(v), veh/h	375	274	632	0	348	1771	
Grp Sat Flow(s), veh/h/ln	1753	1560	1749	1560	1753	1749	
Q Serve(g_s), s	18.3	18.3	11.0	0.0	9.1	32.6	
Cycle Q Clear(g_c), s	18.3	18.3	11.0	0.0	9.1	32.6	
Prop In Lane	1.00	1.00	11.0	1.00	1.00	02.0	
Lane Grp Cap(c), veh/h	292	260	1908	1.00	595	2486	
V/C Ratio(X)	1.29	1.06	0.33		0.58	0.71	
Avail Cap(c_a), veh/h	292	260	1908		704	2486	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh	45.9	45.8	13.9	0.0	9.0	9.3	
Incr Delay (d2), s/veh	152.1	71.3	0.5	0.0	0.3	1.8	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	30.4	17.9	7.4	0.0	5.2	15.3	
Jnsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	197.9	117.2	14.3	0.0	9.3	11.1	
_nGrp LOS	F	F	В		Α	В	
Approach Vol, veh/h	649		632	А		2119	
Approach Delay, s/veh	163.8		14.3			10.8	
approach LOS	F		В			В	
Fimer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	18.2	66.8				85.0	25.0
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	18.2	53.2				78.2	18.3
Max Q Clear Time (g_c+l1), s	11.1	13.0				34.6	20.3
Green Ext Time (p_c), s	0.3	5.3				23.9	0.0
Intersection Summary							
HCM 6th Ctrl Delay			40.7				
HCM 6th LOS			D				
Notes							

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

## Arterial Level of Service: EB Boggy Creek Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Simpson Rd	T I	45	81.4	32.0	113.4	1.02	32.3	С
Nele Road	I	45	117.8	10.4	128.2	1.47	41.4	В
Austin Tindalll Park	I	50	67.9	2.4	70.3	0.95	48.7	Α
Narcoossee Rd		55	227.2	196.8	424.0	3.47	29.5	С
Total	T.		494.3	241.6	735.9	6.91	33.8	С

## Arterial Level of Service: WB Boggy Creek Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Turnberry Blvd	1	55	227.2	6.1	233.3	3.47	53.6	Α
High School	ļ	50	67.9	15.9	83.8	0.95	40.9	В
Simpson Rd	I	45	117.8	27.8	145.6	1.47	36.4	В
Total	1		412.9	49.8	462.7	5.90	45.9	А

	۶	•	4	<b>†</b>	L	ļ	4	
Movement	EBL	EBR	NBL	NBT	SBU	SBT	SBR	
Lane Configurations	*	7	7	<b>↑</b>	Ð	<b>^</b>	7	
Traffic Volume (veh/h)	543	447	324	317	0	451	529	
Future Volume (veh/h)	543	447	324	317	0	451	529	
Initial Q (Qb), veh	0	0	0	0		0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00				1.00	
Parking Bus, Adj	1.00	1.00	1.00	1.00		1.00	1.00	
Work Zone On Approach	No			No		No		
Adj Sat Flow, veh/h/ln	1826	1826	1841	1841		1841	1841	
Adj Flow Rate, veh/h	572	471	341	334		475	557	
Peak Hour Factor	0.95	0.95	0.95	0.95		0.95	0.95	
Percent Heavy Veh, %	5	5	4	4		4	4	
Cap, veh/h	592	527	247	1086		1615	1251	
Arrive On Green	0.34	0.34	0.09	0.59		0.46	0.46	
Sat Flow, veh/h	1739	1547	1753	1841		3589	1560	
Grp Volume(v), veh/h	572	471	341	334		475	557	
Grp Sat Flow(s),veh/h/ln	1739	1547	1753	1841		1749	1560	
Q Serve(g_s), s	63.1	56.3	17.2	17.7		16.5	21.4	
Cycle Q Clear(g_c), s	63.1	56.3	17.2	17.7		16.5	21.4	
Prop In Lane	1.00	1.00	1.00				1.00	
Lane Grp Cap(c), veh/h	592	527	247	1086		1615	1251	
V/C Ratio(X)	0.97	0.89	1.38	0.31		0.29	0.45	
Avail Cap(c_a), veh/h	608	541	247	1086		1615	1251	
HCM Platoon Ratio	1.00	1.00	1.00	1.00		1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00		1.00	1.00	
Uniform Delay (d), s/veh	63.2	61.0	59.9	20.0		32.7	5.9	
ncr Delay (d2), s/veh	27.9	17.0	193.9	0.7		0.5	1.1	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0		0.0	0.0	
%ile BackOfQ(95%),veh/ln	41.3	32.3	38.1	12.4		11.5	10.8	
Jnsig. Movement Delay, s/veh								
_nGrp Delay(d),s/veh	91.2	78.0	253.7	20.8		33.2	7.1	
_nGrp LOS	F	Е	F	С		С	Α	
Approach Vol, veh/h	1043			675		1032		
Approach Delay, s/veh	85.2			138.5		19.1		
Approach LOS	F			F		В		
Timer - Assigned Phs	1	2				6		8
Phs Duration (G+Y+Rc), s	25.0	96.8				121.8		73.2
Change Period (Y+Rc), s	7.8	6.8				6.8		6.8
Max Green Setting (Gmax), s	17.2	58.2				58.2		68.2
Max Q Clear Time (g_c+l1), s	19.2	23.4				19.7		65.1
Green Ext Time (p_c), s	0.0	5.5				1.9		1.3
``	0.0	0.0				1.0		1.0
ntersection Summary			70.5					
HCM 6th Ctrl Delay			73.5					
HCM 6th LOS			Е					
Notes								

User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u> </u>	7	ሻ	<b>↑</b>	N/	11011
Traffic Vol, veh/h	843	41	18	549	18	18
Future Vol, veh/h	843	41	18	549	18	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	_	225	240	-	0	-
Veh in Median Storage		-	-	0	0	_
Grade, %	0	_	_	0	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mymt Flow	887	43	19	578	19	19
IVIVIIIL FIOW	007	43	13	310	13	19
Major/Minor I	Major1	N	Major2	I	Minor1	
Conflicting Flow All	0	0	930	0	1503	887
Stage 1	-	-	-	-	887	-
Stage 2	-	-	-	-	616	-
Critical Hdwy	-	-	4.14	_	6.42	6.22
Critical Hdwy Stg 1	_	-	-	_	5.42	_
Critical Hdwy Stg 2	_	_	_	_	5.42	_
Follow-up Hdwy	_	_	2.236	_	3.518	3.318
Pot Cap-1 Maneuver	_	_	727	_	134	343
Stage 1	_	_	-	_	402	-
Stage 2	_	_	_	_	539	_
Platoon blocked, %	_	_		_	000	
Mov Cap-1 Maneuver	_	_	727	_	131	343
Mov Cap-1 Maneuver	_	_	121	_	131	J <del>+</del> J
		-			402	
Stage 1	-	-	-	-	525	
Stage 2	-	-	-	-	525	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		28.6	
HCM LOS					D	
NA: 1 (NA : NA		UDL 4	БВТ	<b>EDD</b>	MAIDI	MOT
Minor Lane/Major Mvm	it f	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		190	-	-	727	-
HCM Lane V/C Ratio		0.199	-		0.026	-
HCM Control Delay (s)		28.6	-	-	10.1	-
HCM Lane LOS		D	-	-	В	-
HCM 95th %tile Q(veh)		0.7	-	-	0.1	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>†</b>	7	7	<b>↑</b>	7		4			र्स	7
Traffic Volume (veh/h)	39	792	15	10	526	12	5	0	1	24	0	44
Future Volume (veh/h)	39	792	15	10	526	12	5	0	1	24	0	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	41	834	16	11	554	13	5	0	1	25	0	46
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	650	1389	1177	446	1336	1132	109	5	12	149	0	96
Arrive On Green	0.05	0.75	0.75	0.02	0.73	0.73	0.06	0.00	0.06	0.06	0.00	0.06
Sat Flow, veh/h	1753	1841	1560	1753	1841	1560	904	82	197	1497	0	1585
Grp Volume(v), veh/h	41	834	16	11	554	13	6	0	0	25	0	46
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1753	1841	1560	1183	0	0	1497	0	1585
Q Serve(g_s), s	0.7	25.0	0.3	0.2	14.5	0.3	0.0	0.0	0.0	0.0	0.0	3.4
Cycle Q Clear(g_c), s	0.7	25.0	0.3	0.2	14.5	0.3	1.6	0.0	0.0	1.6	0.0	3.4
Prop In Lane	1.00		1.00	1.00		1.00	0.83		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	650	1389	1177	446	1336	1132	125	0	0	149	0	96
V/C Ratio(X)	0.06	0.60	0.01	0.02	0.41	0.01	0.05	0.00	0.00	0.17	0.00	0.48
Avail Cap(c_a), veh/h	1114	1389	1177	532	1336	1132	266	0	0	292	0	256
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	4.1	6.8	3.7	5.9	6.6	4.7	54.3	0.0	0.0	54.9	0.0	55.7
Incr Delay (d2), s/veh	0.0	1.9	0.0	0.0	1.0	0.0	0.2	0.0	0.0	0.2	0.0	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.3	12.8	0.2	0.1	8.6	0.1	0.3	0.0	0.0	1.4	0.0	2.5
Unsig. Movement Delay, s/veh	4.4	0.7	0.0	= 0	7.0		-4-	0.0	0.0	== 4	0.0	1
LnGrp Delay(d),s/veh	4.1	8.7	3.8	5.9	7.6	4.7	54.5	0.0	0.0	55.1	0.0	57.1
LnGrp LOS	A	Α	A	Α	A	Α	D	Α	Α	E	A	E
Approach Vol, veh/h		891			578			6			71	
Approach Delay, s/veh		8.4			7.5			54.5			56.4	
Approach LOS		Α			Α			D			Е	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.0	100.0		12.6	13.5	96.5		12.6				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.5	92.5		* 20	38.5	62.5		* 20				
Max Q Clear Time (g_c+I1), s	2.2	27.0		5.4	2.7	16.5		3.6				
Green Ext Time (p_c), s	0.0	16.6		0.1	0.1	8.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			10.4									
HCM 6th LOS			В									

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Int Delay, s/veh   9.8     SBL   EBR   EBR   WBL   WBR   WBR   NBL   NBR   NBR   SBL   SBR   S
Lane Configurations         1         7         3         7         7         2         33         0         64           Traffic Vol, veh/h         164         614         54         28         450         78         41         7         27         33         0         64           Future Vol, veh/h         164         614         54         28         450         78         41         7         27         33         0         64           Conflicting Peds, #/hr         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Traffic Vol, veh/h         164         614         54         28         450         78         41         7         27         33         0         64           Future Vol, veh/h         164         614         54         28         450         78         41         7         27         33         0         64           Conflicting Peds, #/hr         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Traffic Vol, veh/h         164         614         54         28         450         78         41         7         27         33         0         64           Future Vol, veh/h         164         614         54         28         450         78         41         7         27         33         0         64           Conflicting Peds, #/hr         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Conflicting Peds, #/hr         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Conflicting Peds, #/hr         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Sign Control Free Free Free Free Free Free Stop Stop Stop Stop Stop Stop RT Channelized None - None - None - None Storage Length 460 - 250 345 - 400 0 - 0 - 0 - 0
RT Channelized       -       -       None       -       -       None       -       -       None         Storage Length       460       -       250       345       -       400       -       -       -       -       0         Veh in Median Storage, #       -       0       -       -       0       -       0       -       0       -
Veh in Median Storage, # - 0 0 0 -
Veh in Median Storage, # - 0 0 0 -
· · · · · · · · · · · · · · · · · · ·
Grade, % - 0 0 0 0 -
Peak Hour Factor 95 95 95 95 95 95 95 95 95 95
Heavy Vehicles, % 4 4 4 4 4 4 2 2 2 2 2 2 2
Mvmt Flow 173 646 57 29 474 82 43 7 28 35 0 67
Major/Minor Major1 Major2 Minor1 Minor2
Conflicting Flow All 556 0 0 703 0 0 1599 1606 646 1570 1581 474
Stage 1 992 992 - 532 532 -
Stage 2 607 614 - 1038 1049 -
Critical Hdwy 4.14 4.14 7.12 6.52 6.22 7.12 6.52 6.22
Critical Hdwy Stg 1 6.12 5.52 - 6.12 5.52 -
Critical Hdwy Stg 2 6.12 5.52 - 6.12 5.52 -
Follow-up Hdwy 2.236 2.236 3.518 4.018 3.318 3.518 4.018 3.318
Pot Cap-1 Maneuver 1005 885 86 105 472 90 109 590
Stage 1 296 324 - 531 526 -
Stage 2 483 483 - 279 304 -
Platoon blocked, %
Mov Cap-1 Maneuver 1005 885 65 84 472 67 87 590
Mov Cap-2 Maneuver 65 84 - 67 87 -
Stage 1 245 268 - 440 509 -
Stage 2 414 467 - 211 252 -
Approach EB WB NB SB
HCM Control Delay, s 1.8 0.5 124.1 44
HCM LOS F E
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 SBLn2
Capacity (veh/h) 97 1005 885 67 590
HCM Lane V/C Ratio 0.814 0.172 0.033 0.518 0.114
HCM Control Delay (s) 124.1 9.3 9.2 106.2 11.9
HCM Lane LOS F A A F B
HCM 95th %tile Q(veh) 4.4 0.6 0.1 2.1 0.4

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	×	<b>†</b>			<b>^</b>	7	Ţ	<b>†</b>	7		र्स	7
Traffic Volume (veh/h)	109	578	0	0	451	71	0	0	0	79	0	77
Future Volume (veh/h)	109	578	0	0	451	71	0	0	0	79	0	77
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	115	608	0	0	475	75	0	0	0	83	0	81
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	652	1455	0	0	1174	995	2	2	1	161	0	143
Arrive On Green	0.09	0.79	0.00	0.00	0.64	0.64	0.00	0.00	0.00	0.09	0.00	0.09
Sat Flow, veh/h	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	115	608	0	0	475	75	0	0	0	83	0	81
Grp Sat Flow(s),veh/h/ln	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	2.0	11.4	0.0	0.0	13.9	2.0	0.0	0.0	0.0	4.9	0.0	5.4
Cycle Q Clear(g_c), s	2.0	11.4	0.0	0.0	13.9	2.0	0.0	0.0	0.0	4.9	0.0	5.4
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	652	1455	0	0	1174	995	2	2	1	161	0	143
V/C Ratio(X)	0.18	0.42	0.00	0.00	0.40	0.08	0.00	0.00	0.00	0.52	0.00	0.57
Avail Cap(c_a), veh/h	657	1455	0	0	1174	995	453	476	403	194	0	173
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.2	3.6	0.0	0.0	9.7	7.6	0.0	0.0	0.0	47.7	0.0	48.0
Incr Delay (d2), s/veh	0.1	0.9	0.0	0.0	1.0	0.1	0.0	0.0	0.0	2.5	0.0	3.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.9	4.6	0.0	0.0	8.5	1.1	0.0	0.0	0.0	4.1	0.0	4.1
Unsig. Movement Delay, s/veh		4.5	0.0	0.0	10.0	77	0.0	0.0	0.0	F0.2	0.0	F1 /
LnGrp Delay(d),s/veh	5.3	4.5	0.0	0.0	10.8	7.7	0.0	0.0	0.0	50.3	0.0	51.4
LnGrp LOS	A	A	A	A	В	A	A	A	A	D	A	<u>D</u>
Approach Vol, veh/h		723			550			0			164	
Approach Delay, s/veh		4.6			10.3			0.0			50.9	
Approach LOS		А			В						D	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		94.1		15.9	16.8	77.3		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		50.9		12.0	10.0	33.8		28.0				
Max Q Clear Time (g_c+I1), s		13.4		7.4	4.0	15.9		0.0				
Green Ext Time (p_c), s		8.2		0.2	0.1	5.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			12.1									
HCM 6th LOS			В									

Note	Intersection						
New Note		1.8					
Lane Configurations		NIMI	NIMD	NET	NED	C/V/I	C/V/T
Traffic Vol, veh/h         39         50         566         76         53         534           Future Vol, veh/h         39         50         566         76         53         534           Conflicting Peds, #/hr         0         0         0         0         0         0         0           Sign Control         Stop         Stop         Free							
Future Vol, veh/h         39         50         566         76         53         534           Conflicting Peds, #/hr         0         0         0         0         0         0         0           Sign Control         Stop         Stop         Free         <							
Conflicting Peds, #/hr         0         0         0         0         0         0           Sign Control         Stop         Stop         Free         D         0         0         6         Free         Free         Free         Free         Free         Free         B         5         562	· ·						
Sign Control         Stop RT Channelized         Stop RT Channelized         Stop RT Channelized         Free RT Channelized         None         Description         None         Description         Description<							
RT Channelized							
Storage Length							
Veh in Median Storage, #         0         -         0         -         -         0           Grade, %         0         -         0         -         -         0           Peak Hour Factor         95         95         95         95         95         95           Heavy Vehicles, %         2         2         4         4         4         4           Mwmt Flow         41         53         596         80         56         562           Major/Minor         Minor1         Major1         Major2           Conflicting Flow All         1270         596         0         0         676         0           Stage 1         596         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -							
Grade, %         0         -         0         -         -         0           Peak Hour Factor         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         96         2         90         0         90		-					
Peak Hour Factor         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         96           Caraci Planum Albur		-		-	-	-	
Heavy Vehicles, %   2   2   4   4   4   4   4   Mvmt Flow   41   53   596   80   56   562	-	-					
Mymt Flow         41         53         596         80         56         562           Major/Minor         Minor1         Major1         Major2           Conflicting Flow All         1270         596         0         0         676         0           Stage 1         596         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -							
Major/Minor         Minor1         Major1         Major2           Conflicting Flow All         1270         596         0         0         676         0           Stage 1         596         -         -         -         -         -           Stage 2         674         -         -         -         -         -           Critical Hdwy         6.42         6.22         -         4.14         -         -           Critical Hdwy Stg 1         5.42         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -							
Conflicting Flow All         1270         596         0         0         676         0           Stage 1         596         -         -         -         -         -           Stage 2         674         -         -         -         -         -           Critical Hdwy         6.42         6.22         -         4.14         -           Critical Hdwy Stg 1         5.42         -         -         -         -           Critical Hdwy Stg 2         5.42         -         -         -         -           Follow-up Hdwy         3.518         3.318         -         -         2.236         -           Stage 1         550         -         -         -         -         -           Mov Cap-1 Maneuver	Mvmt Flow	41	53	596	80	56	562
Conflicting Flow All         1270         596         0         0         676         0           Stage 1         596         -         -         -         -         -           Stage 2         674         -         -         -         -         -           Critical Hdwy         6.42         6.22         -         4.14         -           Critical Hdwy Stg 1         5.42         -         -         -         -           Critical Hdwy Stg 2         5.42         -         -         -         -           Follow-up Hdwy         3.518         3.318         -         2.236         -           Stage 1         550         -         -         -         -           Mov Cap-1 Maneuver         174         504         -         906         - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Conflicting Flow All         1270         596         0         0         676         0           Stage 1         596         -         -         -         -         -           Stage 2         674         -         -         -         -         -           Critical Hdwy         6.42         6.22         -         4.14         -           Critical Hdwy Stg 1         5.42         -         -         -         -           Critical Hdwy Stg 2         5.42         -         -         -         -           Follow-up Hdwy         3.518         3.318         -         2.236         -           Stage 1         550         -         -         -         -           Mov Cap-1 Maneuver         174         504         -         906         - <td>Major/Minor</td> <td>Minor1</td> <td>N</td> <td>Anior1</td> <td>ı</td> <td>Major?</td> <td></td>	Major/Minor	Minor1	N	Anior1	ı	Major?	
Stage 1       596       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -							
Stage 2         674         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -				U	U		
Critical Hdwy         6.42         6.22         -         -         4.14         -           Critical Hdwy Stg 1         5.42         -         -         -         -         -           Critical Hdwy Stg 2         5.42         -         -         -         -         -           Follow-up Hdwy         3.518         3.318         -         -         2.236         -           Pot Cap-1 Maneuver         186         504         -         906         -           Stage 1         550         -         -         -         -           Stage 2         506         -         -         -         -           Mov Cap-1 Maneuver         174         504         -         906         -           Mov Cap-2 Maneuver         174         -         -         -         -         -           Stage 1         550         -         -         -         -         -         -           Stage 2         475         -         -         -         -         -         -           Approach         NW         NE         SW           HCM Control Delay, s         21.3         0         0         0				-	-	-	-
Critical Hdwy Stg 1         5.42         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -				-	-	-	-
Critical Hdwy Stg 2         5.42         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	•			-	-	4.14	-
Follow-up Hdwy 3.518 3.318 2.236 - Pot Cap-1 Maneuver 186 504 906 - Stage 1 550 Stage 2 506 Platoon blocked, % 906 - Mov Cap-1 Maneuver 174 504 - 906 - Mov Cap-2 Maneuver 174 Stage 1 550 Stage 2 475  Approach NW NE SW  HCM Control Delay, s 21.3 0 0.8  HCM LOS C  Minor Lane/Major Mvmt NET NERNWLn1NWLn2 SWL  Capacity (veh/h) - 174 504 906  HCM Lane V/C Ratio - 0.236 0.104 0.062  HCM Control Delay (s) - 32 13 9.2  HCM Lane LOS - D B A			-	-	-	-	-
Pot Cap-1 Maneuver         186         504         -         -         906         -           Stage 1         550         -         -         -         -         -           Stage 2         506         -         -         -         -         -           Platoon blocked, %         -         -         -         -         -         -           Mov Cap-1 Maneuver         174         504         -         -         906         -           Mov Cap-2 Maneuver         174         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	, ,			-	-		-
Stage 1         550         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -				-	-		-
Stage 2         506         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Pot Cap-1 Maneuver		504	-	-	906	-
Platoon blocked, %	Stage 1	550	-	-	-	-	-
Mov Cap-1 Maneuver         174         504         -         -         906         -           Mov Cap-2 Maneuver         174         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>Stage 2</td> <td>506</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Stage 2	506	-	-	-	-	-
Mov Cap-1 Maneuver         174         504         -         -         906         -           Mov Cap-2 Maneuver         174         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td>				-	-		-
Mov Cap-2 Maneuver         174         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -		174	504	-	-	906	-
Stage 1         550         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	•			-	-	_	_
Stage 2         475         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -			-	-	-	-	-
Approach         NW         NE         SW           HCM Control Delay, s         21.3         0         0.8           HCM LOS         C           Minor Lane/Major Mvmt         NET         NERNWLn1NWLn2         SWL           Capacity (veh/h)         -         -         174         504         906           HCM Lane V/C Ratio         -         -         0.236         0.104         0.062           HCM Control Delay (s)         -         32         13         9.2           HCM Lane LOS         -         D         B         A	•		_	_	_	_	_
HCM Control Delay, s   21.3   0   0.8							
HCM Control Delay, s   21.3   0   0.8							
Minor Lane/Major Mvmt         NET         NERNWLn1NWLn2         SWL           Capacity (veh/h)         -         -         174         504         906           HCM Lane V/C Ratio         -         -         0.236         0.104         0.062           HCM Control Delay (s)         -         -         32         13         9.2           HCM Lane LOS         -         D         B         A	Approach	NW		NE		SW	
Minor Lane/Major Mvmt         NET         NERNWLn1NWLn2         SWL           Capacity (veh/h)         -         -         174         504         906           HCM Lane V/C Ratio         -         -         0.236         0.104         0.062           HCM Control Delay (s)         -         -         32         13         9.2           HCM Lane LOS         -         D         B         A	HCM Control Delay, s	21.3		0		0.8	
Capacity (veh/h)       -       -       174       504       906         HCM Lane V/C Ratio       -       -       0.236       0.104       0.062         HCM Control Delay (s)       -       -       32       13       9.2         HCM Lane LOS       -       D       B       A	HCM LOS	С					
Capacity (veh/h)       -       -       174       504       906         HCM Lane V/C Ratio       -       -       0.236       0.104       0.062         HCM Control Delay (s)       -       -       32       13       9.2         HCM Lane LOS       -       D       B       A							
Capacity (veh/h)       -       -       174       504       906         HCM Lane V/C Ratio       -       -       0.236       0.104       0.062         HCM Control Delay (s)       -       -       32       13       9.2         HCM Lane LOS       -       D       B       A	Minor Long/Major Myn	<b>.</b> t	NET	NIEDN	IVA/I ~ 1N	I\A/I 50	CVVII
HCM Lane V/C Ratio       -       -       0.236       0.104       0.062         HCM Control Delay (s)       -       -       32       13       9.2         HCM Lane LOS       -       D       B       A		IIL					
HCM Control Delay (s)         -         -         32         13         9.2           HCM Lane LOS         -         -         D         B         A							
HCM Lane LOS D B A				-			
				-			
		,					
HCM 95th %tile Q(veh) 0.9 0.3 0.2	HCM 95th %tile Q(veh	)	-	-	0.9	0.3	0.2

Intersection												
Int Delay, s/veh	1.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		*	<b>^</b>	7	*	1	
Traffic Vol, veh/h	6	0	9	19	1	16	23	555	32	27	565	55
Future Vol, veh/h	6	0	9	19	1	16	23	555	32	27	565	55
Conflicting Peds, #/hr	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
RT Channelized	-	-	None	_	-	None	_	_		-	_	None
Storage Length	_	-	-	-	-	-	240	_	300	425	-	-
Veh in Median Storage	. # -	0	-	-	0	_		0	-	-	0	-
Grade, %	-	0	-	-	0	_	_	0	_	_	0	_
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4
Mvmt Flow	6	0	9	20	1	17	24	584	34	28	595	58
Major/Minor	Minor2			Minor1			Major1		ı	Major2		
Conflicting Flow All	1338	1346	624	1317	1341	584	653	0	0	618	0	0
Stage 1	680	680	-	632	632	-	-	-	-	-	-	-
Stage 2	658	666	-	685	709	_	_	_	_	_	-	_
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.14	-	-	4.14	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52			_	_	-	_	_
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518		3.318	3.518	4.018	3.318	2.236	_	_	2.236	_	_
Pot Cap-1 Maneuver	130	151	485	134	152	512	924	-	_	953	_	_
Stage 1	441	451	-	468	474	-	-	_	_	-	_	_
Stage 2	453	457	-	438	437	-	-	-	-	-	-	-
Platoon blocked, %	,,,,							_	_		-	-
Mov Cap-1 Maneuver	120	143	485	126	144	512	924	-	_	953	_	_
Mov Cap-2 Maneuver	120	143	-	126	144	-	-	-	-	-	-	-
Stage 1	430	438	-	456	462	-	-	-	-	-	-	_
Stage 2	426	445	-	417	424	_	-	-	-	-	_	-
-	3											
Approach	EB			WB			NB			SB		
HCM Control Delay, s	22.7			28.6			0.3			0.4		
HCM LOS	С			D								
Minor Lane/Major Mvm	nt _	NBL	NBT	NBR	EBLn1V	WBLn1	SBL	SBT	SBR			
Capacity (veh/h)		924	-	-	219	190	953	-	-			
HCM Lane V/C Ratio		0.026	-	-	0.072	0.199	0.03	-	-			
HCM Control Delay (s)		9	_	_	22.7	28.6	8.9	-	-			
HCM Lane LOS		Α	-	-	С	D	Α	-	-			
HCM 95th %tile Q(veh)	)	0.1	-	-	0.2	0.7	0.1	-	-			

Intersection						
Int Delay, s/veh	1					
	EBT	EBR	WBL	WBT	NBL	NBR
	<u>EBI</u>	EBR	VVDL		INDL	NDR
Lane Configurations				<b>†</b>		
Traffic Vol, veh/h	521	12	40	562	17	33
Future Vol, veh/h	521	12		562	17	33
Conflicting Peds, #/hr	0	0	0	0	O Cton	O Ctop
0	Free	Free	Free	Free	Stop	Stop
RT Channelized	-		-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	548	13	42	592	18	35
Major/Minor Ma	ajor1		Major2		Minor1	
	•				1224	548
Conflicting Flow All	0	0	561			
Stage 1	-	-	-	-	548	-
Stage 2	-	-	-	-	676	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.236	-	3.518	
Pot Cap-1 Maneuver	-	-	1000	-	198	536
Stage 1	-	-	-	-	579	-
Stage 2	-	-	-	-	505	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1000	-	190	536
Mov Cap-2 Maneuver	-	-	-	-	190	-
Stage 1	-	-	-	-	579	-
Stage 2	-	-	-	-	484	-
Annragah	ED		WD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.6		16.9	
HCM LOS					С	
Minor Lane/Major Mvmt	ı	NBLn11	NBLn2	EBT	EBR	WBL
Capacity (veh/h)		190	536		_	1000
HCM Lane V/C Ratio		0.094		-		0.042
HCM Control Delay (s)		25.9	12.2	_	_	8.8
HCM Lane LOS		D	В	_	_	A
HCM 95th %tile Q(veh)		0.3	0.2	_	_	0.1
HOW JOHN JOHNE Q(VEII)		0.5	0.2	_	_	0.1

	>	74	×	4	•	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	*	7	<b>^</b>	7	*	<b>^</b>	
Traffic Volume (veh/h)	233	277	1614	311	271	886	
Future Volume (veh/h)	233	277	1614	311	271	886	
nitial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00	-	1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	245	292	1699	0	285	933	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	292	260	1809		314	2486	
Arrive On Green	0.17	0.17	0.52	0.00	0.13	0.71	
Sat Flow, veh/h	1753	1560	3589	1560	1753	3589	
	245					933	
Grp Volume(v), veh/h		292	1699	1560	285		
Grp Sat Flow(s),veh/h/ln	1753	1560	1749	1560	1753	1749	
Q Serve(g_s), s	14.9	18.3	50.2	0.0	12.3	11.6	
Cycle Q Clear(g_c), s	14.9	18.3	50.2	0.0	12.3	11.6	
Prop In Lane	1.00	1.00	1000	1.00	1.00	0.400	
_ane Grp Cap(c), veh/h	292	260	1809		314	2486	
V/C Ratio(X)	0.84	1.13	0.94		0.91	0.38	
Avail Cap(c_a), veh/h	292	260	1809		373	2486	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Jniform Delay (d), s/veh	44.4	45.8	24.9	0.0	34.2	6.3	
ncr Delay (d2), s/veh	18.8	93.8	10.9	0.0	21.2	0.4	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	12.2	20.6	28.8	0.0	14.1	6.3	
Jnsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	63.2	139.6	35.9	0.0	55.4	6.7	
_nGrp LOS	Е	F	D		Е	Α	
Approach Vol, veh/h	537		1699	Α		1218	
Approach Delay, s/veh	104.8		35.9			18.1	
Approach LOS	F		D			В	
Timer - Assigned Phs	1	2				6	8
	21.3	63.7				85.0	25.0
Phs Duration (G+Y+Rc), s							
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	18.2	53.2				78.2	18.3
Max Q Clear Time (g_c+l1), s	14.3	52.2				13.6	20.3
Green Ext Time (p_c), s	0.2	0.9				9.3	0.0
ntersection Summary			40.0				
HCM 6th Ctrl Delay			40.3				
HCM 6th LOS			D				
Votes							

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

## Arterial Level of Service: EB Boggy Creek Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Simpson Rd	1	45	81.4	34.0	115.4	1.02	31.7	С
Nele Road	I	45	117.8	6.6	124.4	1.47	42.6	Α
Austin Tyndell Park	1	50	67.9	3.0	70.9	0.95	48.3	Α
Narcoossee Rd		55	227.2	77.3	304.5	3.47	41.0	В
Total	I		494.3	120.9	615.2	6.91	40.5	В

## Arterial Level of Service: WB Boggy Creek Rd

	Arterial	Flow	Running	Signal	Travel	Dist	Arterial	Arterial
Cross Street	Class	Speed	Time	Delay	Time (s)	(mi)	Speed	LOS
Turnberry Blvd	1	55	227.2	6.6	233.8	3.47	53.5	А
High School		50	67.9	8.2	76.1	0.95	45.0	Α
Simpson Rd		45	117.8	21.6	139.4	1.47	38.1	В
Total	1		412.9	36.4	449.3	5.90	47.2	A

# Appendix E

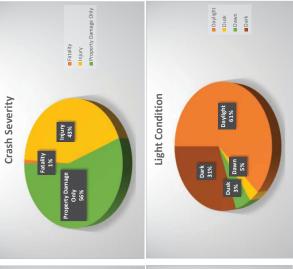
## Crash Data Information

	Crash Type	2015	2016	2017	2018	2019	Total	Proportion
-	Rear End	19	28	41	64	28	210	41%
	Head On	1	1	1	1	2	9	1%
	Sideswipe	1	4	∞	2	6	24	2%
	RollOver	4	1	ю	2	0	10	2%
	Angle	1	0	6	4	1	6	2%
	Left Turn	23	22	21	37	30	133	26%
	Right Turn	4	2	ю	6	0	12	2%
	Off Road	8	9	2	14	10	40	%8
	Pedestrian & Biclycle	1	1	0	1	1	4	1%
	Animal	1	1	1	1	1	пŲ	1%
	Other	7	6	5	22	13	56	11%
_	Total	02	75	88	151	125	609	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	2	1	0	2	ъ	1%
Injury	35	30	36	29	52	220	43%
perty Damage Only	35	43	51	8	7.1	284	26%
Total	70	75	88	151	125	209	100%

A MACAINETIN COMMITTEE		242				T	TOPOTOTO
Wet	8	6	10	15	12	54	11%
Dry	62	99	78	136	113	455	%68
Slippery	0	0	0	0	0	0	%0
Total	20	75	88	151	125	209	100%
Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	33	40	69	105	92	313	%19
Dusk	2	2	2	53	4	15	3%
Dawn	3	5	3	9	8	25	2%
Dark	32	28	24	35	37	156	31%
Total	70	75	88	151	125	509	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	1	2	3	0	9	1%
Drugs	0	1	0	0	0	1	0.20%
Total	0	2	2	3	0	7	1%

	Rear End	Head On	■ Sideswipe	■ RollOver	■ Angle	■ Left Turn	Right Turn	Off Road	■ Pedestrian & Biclycle	■ Animal					■ Wet	- Dry	■ Slip pery		
Pedestrian & Crash Type	Biclycle, 1% Other, 11%			Off Road Rear End, 41%	%0	Cidocumo		Right Turn, 2%	RollOver		Angle, 2% , <sup>1%</sup>	Pavement Condition	Wet	1118	viadojis		Dry	0,500	



						rasn Data Summ							
No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	84561808	1/3/2015	Saturday	4:50 PM	Rear End	Property Damage Only	0	0	\$2,000	Daylight	Dry	No	No
2	84544871	1/3/2015	Saturday	9:50 PM	Rollover	Property Damage Only	0	0	\$4,000	Dark - Not Lighted	Dry	No	No
3	84565976	1/16/2015	Friday	5:28 AM	Head On	Property Damage Only	0	0	\$10,000	Dark - Lighted	Dry	No	No
4	84553691	1/22/2015	Thursday	2:06 PM	Right Turn	Property Damage Only	0	0	\$2,700	Daylight	Dry	No	No
5 6	84563040 84563048	1/23/2015 1/24/2015	Friday Saturday	2:00 PM 6:25 PM	Rear End Rear End	Injury Property Damage Only	0	1 0	\$3,500 \$1,020	Daylight Dark - Lighted	Dry Dry	No No	No No
7	84561541	1/31/2015	Saturday	8:48 PM	Left Turn	Injury	0	1	\$1,000	Dark - Not Lighted	Dry	No	No
8	84566175	2/11/2015	Wednesday	5:45 AM	Rear End	Property Damage Only	0	0	\$1,600	Dark - Not Lighted	Dry	No	No
9 10	84860992 83385233	2/18/2015 2/20/2015	Wednesday	10:00 PM 3:24 PM	Left Turn Other	Injury	0	1 0	\$4,000	Dark - Lighted	Dry	No No	No No
11	84865267	2/20/2015	Friday Saturday	3:24 PM 3:22 PM	Rear End	Property Damage Only Property Damage Only	0	0	\$0 \$800	Daylight Daylight	Dry Wet	No No	No No
12	83385297	3/10/2015	Tuesday	4:26 PM	Rear End	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
13	84881855	3/15/2015	Sunday	4:19 AM	Left Turn	Property Damage Only	0	0	\$7,500	Dark - Lighted	Dry	No	No
14 15	84876580 84872363	3/16/2015 3/18/2015	Monday Wednesday	9:42 PM 7:01 AM	Right Turn Rear End	Property Damage Only Property Damage Only	0	0	\$5,000 \$7,500	Dark - Lighted Dawn	Dry Dry	No No	No No
16	84878191	3/20/2015	Friday	11:27 PM	Left Turn	Injury	0	2	\$4,000	Dark - Not Lighted	Dry	No	No
17	84886489	4/4/2015	Saturday	8:10 PM	Left Turn	Injury	0	5	\$15,000	Dark - Lighted	Dry	No	No
18 19	84882569 84878219	4/7/2015 4/9/2015	Tuesday Thursday	7:35 PM 8:00 PM	Right Turn Off Road	Property Damage Only Property Damage Only	0	0	\$7,000 \$350	Dusk Dark - Lighted	Dry	No No	No No
20	84898466	4/9/2015	Thursday	10:36 PM	Left Turn	Injury	0	2	\$8,000	Dark - Lighted  Dark - Not Lighted	Dry Dry	No	No
21	84871868	4/13/2015	Monday	4:10 AM	Animal	Property Damage Only	0	0	\$20,000	Dark - Not Lighted	Wet	No	No
22	84878538	4/15/2015	Wednesday	6:20 PM	Rear End	Property Damage Only	0	0	\$1,300	Daylight	Dry	No	No
23 24	84880809 84904812	4/15/2015 4/21/2015	Wednesday Tuesday	10:17 PM 5:03 PM	Left Turn Rear End	Injury Property Damage Only	0	3 0	\$7,000 \$700	Dark - Lighted Daylight	Wet Dry	No No	No No
25	83385446	4/22/2015	Wednesday	4:47 PM	Other	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
26	84880888	4/27/2015	Monday	8:34 AM	Rear End	Injury	0	1	\$5,500	Daylight	Dry	No	No
27 28	84875486 84886525	5/2/2015	Saturday	5:09 AM 6:59 AM	Pedestrian Left Turn	Injury	0	1	\$2,500	Dawn	Dry	No	No
29	85110794	5/7/2015 5/7/2015	Thursday Thursday	5:23 PM	Left Turn	Property Damage Only Injury	0	0 2	\$5,000 \$5,000	Daylight Daylight	Dry Dry	No No	No No
30	84902988	5/9/2015	Saturday	8:55 PM	Left Turn	Injury	0	1	\$5,500	Dark - Not Lighted	Dry	No	No
31	84904303	5/14/2015	Thursday	9:45 PM	Other	Injury	0	1	\$6,500	Dark - Lighted	Dry	No	No
32 33	84904313 83385499	5/19/2015 5/21/2015	Tuesday Thursday	9:20 PM 9:27 AM	Left Turn Angle	Property Damage Only Property Damage Only	0	0	\$6,000 \$0	Dark - Lighted Daylight	Dry Dry	No No	No No
34	84902854	6/4/2015	Thursday	10:08 PM	Off Road	Property Damage Only	0	0	\$17,000	Dark - Not Lighted	Dry	No	No
35	85127187	6/18/2015	Thursday	1:12 PM	Left Turn	Property Damage Only	0	0	\$6,000	Daylight	Dry	No	No
36 37	85139112 85139868	6/21/2015 6/29/2015	Sunday	6:39 AM 1:35 PM	Off Road Off Road	Injury	0	1 1	\$10,000 \$3,900	Daylight	Dry Wet	No No	No No
38	85127208	7/1/2015	Monday Wednesday	5:53 AM	Rollover	Injury Injury	0	2	\$7,000	Daylight Dawn	Dry	No No	No
39	85124399	7/7/2015	Tuesday	8:09 AM	Rear End	Property Damage Only	0	0	\$2,600	Daylight	Dry	No	No
40	85145405	7/20/2015	Monday	5:06 PM	Other	Injury	0	1	\$2,500	Daylight	Dry	No	No
41 42	84876780 85153209	7/27/2015 8/5/2015	Monday Wednesday	12:39 PM 6:48 PM	Other Left Turn	Injury Injury	0	3 4	\$13,000 \$11,000	Daylight Daylight	Dry Dry	No No	No No
43	85182787	8/16/2015	Sunday	1:00 PM	Rear End	Injury	0	1	\$400	Daylight	Dry	No	No
44	85185072	8/22/2015	Saturday	5:56 PM	Off Road	Injury	0	2	\$7,500	Daylight	Dry	No	No
45 46	85186023 83385799	9/2/2015 9/4/2015	Wednesday	7:09 AM 2:40 PM	Rear End Rear End	Injury	0	2	\$15,600	Daylight	Dry	No	No
47	85171224	9/5/2015	Friday Saturday	10:32 PM	Left Turn	Property Damage Only Injury	0	3	\$0 \$14,000	Daylight Dark - Not Lighted	Wet Dry	No No	No No
48	85162476	9/10/2015	Thursday	5:55 PM	Left Turn	Property Damage Only	0	0	\$12,000	Daylight	Dry	No	No
49	85179421	9/23/2015	Wednesday	6:50 AM	Left Turn	Injury	0	1	\$10,500	Dusk	Dry	No	No
50 51	85190302 85183179	9/25/2015 10/1/2015	Friday Thursday	8:10 PM 8:29 PM	Left Turn Rollover	Injury Injury	0	2 1	\$20,000 \$0	Dark - Not Lighted Dark - Lighted	Wet Dry	No No	No No
52	85190315	10/1/2015	Thursday	9:16 PM	Left Turn	Injury	0	4	\$23,000	Dark - Not Lighted	Dry	No	No
53	83385899	10/9/2015	Friday	9:30 PM	Sideswipe	Property Damage Only	0	0	\$0	Dark - Lighted	Dry	No	No
54 55	85184409 85195373	10/11/2015	Sunday	5:25 PM 3:28 PM	Right Turn Other	Injury	0	2 1	\$21,500	Daylight	Dry	No	No
56	85164431	10/13/2015 10/19/2015	Tuesday Monday	10:20 PM	Off Road	Injury Property Damage Only	0	0	\$5,000 \$4,800	Daylight Dark - Not Lighted	Dry Dry	No No	No No
57	85213203	10/21/2015	Wednesday	9:03 AM	Other	Injury	0	1	\$29,000	Daylight	Dry	No	No
58	85209616	10/28/2015	Wednesday	9:08 PM	Rear End	Property Damage Only	0	0	\$100	Dark - Not Lighted	Dry	No	No
59 60	85213222 85224719	11/3/2015 11/10/2015	Tuesday Tuesday	6:47 PM 7:30 PM	Left Turn Left Turn	Injury Property Damage Only	0	7 0	\$22,500 \$4,500	Dark - Lighted Dark - Not Lighted	Dry Dry	No No	No No
61	83385998	11/16/2015	Monday	3:57 PM	Left Turn	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
62	85209659	11/21/2015	Saturday	10:45 PM	Left Turn	Injury	0	2	\$12,500	Dark - Not Lighted	Wet	No	No
63 64	85215377 85215228	11/22/2015 12/9/2015	Sunday Wednesday	7:28 AM 2:15 AM	Off Road Off Road	Injury	0	1	\$10,000	Daylight	Wet	No	No
65	85218416	12/9/2015	Thursday	6:37 AM	Rollover	Injury Injury	0	1 2	\$5,500 \$6,000	Dark - Not Lighted Daylight	Dry Dry	No No	No No
66	85241470	12/10/2015	Thursday	6:24 PM	Rear End	Property Damage Only	0	0	\$2,300	Dark - Not Lighted	Dry	No	No
67	85241471	12/10/2015	Thursday	7:31 PM	Rear End	Injury	0	1	\$3,500	Dark - Not Lighted	Dry	No	No
68 69	85236066 85230292	12/13/2015 12/14/2015	Sunday Monday	4:12 AM 9:43 AM	Rear End Rear End	Property Damage Only Property Damage Only	0	0	\$1,050 \$10,000	Dark - Not Lighted Daylight	Dry Dry	No No	No No
70	85230313	12/21/2015	Monday	9:43 AM	Left Turn	Property Damage Only	0	0	\$10,000	Daylight	Dry	No	No
71	85250804	1/1/2016	Friday	4:06 PM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry	No	No
72 73	85163269	1/9/2016	Saturday	9:06 PM	Left Turn	Injury	0	4	\$24,000	Dark - Lighted	Wet	No No	No No
73	85249252 83386168	1/12/2016 1/27/2016	Tuesday Wednesday	6:44 AM 8:30 AM	Left Turn Left Turn	Injury Property Damage Only	0	1 0	\$6,500 \$0	Dawn Daylight	Dry Wet	No No	No No
75	85253422	2/12/2016	Friday	6:34 AM	Rear End	Property Damage Only	0	0	\$7,000	Dawn	Dry	No	No
76	85278746	2/14/2016	Sunday	12:05 PM	Rear End	Injury	0	1	\$175	Daylight	Dry	No	No
77 78	85260508 85277398	2/15/2016 2/19/2016	Monday Friday	9:23 PM 6:40 PM	Off Road Other	Property Damage Only Property Damage Only	0	0	\$3,500 \$13,000	Dark - Lighted Dark - Not Lighted	Wet Dry	No No	No No
79	85270369	2/19/2016	Friday	10:08 PM	Left Turn	Injury	0	1	\$13,000	Dark - Not Lighted	Dry	No	No
80	85249297	2/24/2016	Wednesday	9:03 AM	Left Turn	Injury	0	1	\$7,000	Daylight	Wet	No	No
81 82	85289389	3/2/2016	Wednesday	8:39 PM	Left Turn	Injury	0	2	\$10,000	Dark - Not Lighted	Dry	No	No
82	85285892 85289436	3/12/2016 3/31/2016	Saturday Thursday	7:55 AM 6:39 PM	Other Rear End	Property Damage Only Injury	0	0 1	\$4,500 \$6,500	Daylight Daylight	Dry Dry	No No	No No
84	85297461	4/7/2016	Thursday	6:10 PM	Sideswipe	Property Damage Only	0	0	\$2,000	Daylight	Dry	No	No
85	85297462	4/7/2016	Thursday	8:25 PM	Left Turn	Property Damage Only	0	0	\$11,000	Dark - Lighted	Dry	No	No
86	85281759	4/11/2016	Monday	5:00 AM	Pedestrian	Injury Bronorty Damago Only	0	1	\$0 \$750	Dark - Not Lighted	Dry	No No	No No
87 88	85304120 85300101	4/14/2016 4/22/2016	Thursday Friday	7:54 PM 9:10 AM	Rear End Sideswipe	Property Damage Only Property Damage Only	0	0	\$750 \$300	Dusk Daylight	Wet Dry	No No	No No
89	85310962	4/22/2016	Friday	12:30 PM	Unknown	Property Damage Only	0	0	\$8,000	Daylight	Dry	No	No
90	85308177	4/23/2016	Saturday	9:19 PM	Left Turn	Injury	0	2	\$20,000	Dark - Lighted	Dry	No	No
91	85302653	4/26/2016	Tuesday	12:00 AM	Rear End	Injury	0	1	\$125	Dark - Lighted	Dry	No No	No No
92 93	85313208 85306328	4/28/2016 5/1/2016	Thursday Sunday	8:20 AM 11:55 PM	Rear End Left Turn	Property Damage Only Injury	0	0 2	\$3,500 \$11,000	Daylight Dark - Lighted	Dry Dry	No No	No No
94	85312192	5/2/2016	Monday	1:15 PM	Rear End	Injury	0	1	\$11,000	Dark - Lighted Daylight	Dry	No	No
95	85307662	5/11/2016	Wednesday	8:24 AM	Rear End	Property Damage Only	0	0	\$600	Daylight	Dry	No	No
96	85308213	5/14/2016	Saturday	9:01 PM	Left Turn	Injury	0	3	\$7,800	Dark - Not Lighted	Dry	No	No

						rash Data Summ							
No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
97	85324318	5/17/2016	Tuesday	5:29 PM	Rear End	Injury	0	1	\$0	Daylight	Wet	No	No
98 99	85166346 85308107	5/20/2016 5/23/2016	Friday Monday	5:26 AM 6:02 AM	Left Turn Rollover	Injury Injury	0	2 1	\$6,500 \$5,000	Dark - Not Lighted Dawn	Dry Dry	No No	No No
100	85313770	5/23/2016	Monday	6:00 PM	Rear End	Property Damage Only	0	0	\$2,500	Daylight	Dry	No	No
101	85329336	5/26/2016	Thursday	1:57 AM	Off Road	Property Damage Only	0	0	\$8,000	Dark - Not Lighted	Dry	No	No
102 103	85308113 86542186	5/28/2016 6/17/2016	Saturday Friday	1:25 PM 1:35 PM	Sideswipe Rear End	Property Damage Only Property Damage Only	0	0	\$1,000 \$0	Daylight Daylight	Dry Dry	No No	No No
104	85348053	6/30/2016	Thursday	11:15 AM	Rear End	Property Damage Only	0	0	\$4,600	Daylight	Dry	No	No
105	85354779	7/4/2016	Monday	11:29 PM	Left Turn	Property Damage Only	0	0	\$1,500	Dark - Lighted	Dry	No	No
106 107	85347250 85333345	7/8/2016 7/10/2016	Friday Sunday	2:35 PM 5:49 AM	Sideswipe Off Road	Injury Injury	0	1 1	\$2,600 \$7,000	Daylight Dark - Not Lighted	Dry Dry	No No	No No
108	85358602	7/10/2010	Friday	9:44 PM	Left Turn	Injury	0	1	\$8,500	Dark - Lighted	Dry	No	No
109	85359488	7/24/2016	Sunday	8:39 PM	Right Turn	Injury	0	3	\$11,000	Dark - Not Lighted	Dry	No	No
110 111	85342298 85365859	7/28/2016 8/6/2016	Thursday Saturday	2:03 PM 1:28 AM	Left Turn Off Road	Property Damage Only Fatality	0 1	0 1	\$31,000 \$8,000	Daylight  Dark - Not Lighted	Dry Dry	No Yes	No Yes
111	85354819	8/9/2016	Tuesday	7:47 AM	Rear End	Injury	0	2	\$7,500	Daylight	Dry	No	No
113	85364811	8/10/2016	Wednesday	5:40 AM	Rear End	Property Damage Only	0	0	\$251	Dawn	Dry	No	No
114 115	85374087 85369437	8/20/2016 8/23/2016	Saturday Tuesday	11:15 AM 12:07 PM	Rear End Rear End	Property Damage Only Injury	0	0	\$300 \$13,500	Daylight Daylight	Dry Dry	No No	No No
116	85381805	8/26/2016	Friday	5:25 PM	Other	Property Damage Only	0	0	\$1,000	Daylight	Wet	No	No
118	85374104	8/27/2016	Saturday	8:40 PM	Animal	Property Damage Only	0	0	\$501	Dark - Not Lighted	Dry	No	No
119 120	84541178 85382822	8/31/2016 9/1/2016	Wednesday	6:58 PM	Other	Property Damage Only	0	0	\$7,500	Dusk	Wet	No	No
121	85375177	9/1/2016	Thursday Wednesday	8:28 AM 2:45 PM	Left Turn Rear End	Property Damage Only Property Damage Only	0	0	\$10,000 \$3,500	Daylight Daylight	Dry Wet	No No	No No
122	85397201	9/15/2016	Thursday	6:45 AM	Left Turn	Injury	0	2	\$18,000	Daylight	Dry	No	No
123 124	85384733 85401433	9/16/2016 9/22/2016	Friday	9:52 PM 5:59 PM	Head On Left Turn	Fatality	1	3	\$30,000	Dark - Not Lighted	Dry	No	No
124	85383038	9/30/2016	Thursday Friday	3:30 AM	Off Road	Injury Property Damage Only	0	2 0	\$20,000 \$4,300	Daylight Dark - Not Lighted	Dry Dry	No No	No No
126	85403493	9/30/2016	Friday	5:52 AM	Rear End	Injury	0	1	\$1,000	Dark - Not Lighted	Dry	No	No
127	85398823	10/14/2016	Friday	5:59 PM	Rear End	Property Damage Only	0	0	\$2,000	Daylight	Dry	No No	No No
128 129	86736281 85384773	10/17/2016 10/20/2016	Monday Thursday	12:44 PM 9:00 AM	Rear End Off Road	Property Damage Only Property Damage Only	0	0	\$0 \$3,250	Daylight Daylight	Dry Dry	No No	No No
130	85378435	10/20/2016	Thursday	10:15 AM	Unknown	Property Damage Only	0	0	\$1,600	Daylight	Dry	No	No
131	85420807	11/2/2016	Wednesday	5:50 AM	Rear End	Property Damage Only	0	0	\$4,650	Dark - Not Lighted	Dry	No	No
132 133	85404565 85420817	11/6/2016 11/10/2016	Sunday Thursday	3:48 PM 6:54 AM	Rear End Rear End	Injury Property Damage Only	0	4 0	\$20,000 \$700	Daylight Dawn	Dry Dry	No No	No No
134	86736376	11/14/2016	Monday	7:32 AM	Rear End	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
135	85427773	11/14/2016	Monday	5:14 PM	Rear End	Injury	0	1	\$50	Daylight	Dry	No	No
136 137	85407636 86736386	11/16/2016 11/19/2016	Wednesday Saturday	6:33 PM 8:25 AM	Right Turn Rear End	Property Damage Only Property Damage Only	0	0	\$3,500 \$0	Dark - Lighted Daylight	Dry Dry	No No	No No
138	85411660	11/25/2016	Friday	5:50 PM	Left Turn	Injury	0	1	\$13,000	Dark - Lighted	Dry	No	No
139	85404584	11/26/2016	Saturday	6:17 PM	Left Turn	Property Damage Only	0	0	\$20,000	Dark - Not Lighted	Dry	No	No
140 141	85437871 85423658	11/27/2016 12/2/2016	Sunday Friday	5:50 PM 7:04 PM	Left Turn Left Turn	Injury Injury	0	2 1	\$4,000 \$6,000	Daylight Dark - Lighted	Dry Dry	No No	No No
142	85431265	12/4/2016	Sunday	6:13 PM	Left Turn	Property Damage Only	0	0	\$5,000	Dark - Not Lighted	Dry	No	No
143	85423272	12/10/2016	Saturday	3:40 PM	Rear End	Property Damage Only	0	0	\$2,500	Daylight	Dry	No	No
144 145	85420861 86736442	12/13/2016 12/14/2016	Tuesday Wednesday	9:45 AM 8:02 AM	Other Unknown	Property Damage Only Property Damage Only	0	0	\$6,000 \$0	Daylight Daylight	Dry Dry	No No	No No
146	85444038	1/5/2017	Thursday	10:10 AM	Rear End	Injury	0	1	\$1,300	Daylight	Dry	No	No
147	85444039	1/6/2017	Friday	7:48 AM	Sideswipe	Property Damage Only	0	0	\$900	Daylight	Dry	No	No
148 149	85450918 85434515	1/8/2017 1/10/2017	Sunday Tuesday	6:46 PM 6:21 AM	Rear End Rear End	Injury Property Damage Only	0	2 0	\$2,500 \$4,000	Dark - Not Lighted Dark - Lighted	Dry Dry	No No	No No
150	85458060	1/24/2017	Tuesday	4:59 PM	Right Turn	Injury	0	1	\$1,000	Daylight	Dry	No	No
151	85444060	1/25/2017	Wednesday	6:26 AM	Left Turn	Injury	0	4	\$18,000	Dark - Lighted	Dry	No	No
152 153	85468221 85469600	1/25/2017 1/30/2017	Wednesday Monday	7:35 AM 6:55 AM	Sideswipe Rear End	Property Damage Only Property Damage Only	0	0	\$5,000 \$1,650	Daylight Daylight	Wet Dry	No No	No No
154	85469623	2/7/2017	Tuesday	10:10 AM	Other	Property Damage Only	0	0	\$2,250	Daylight	Dry	No	No
155	85481780	2/13/2017	Monday	8:30 AM	Left Turn	Injury	0	1	\$5,000	Daylight	Dry	No	No
156 157	85477993 85477994	2/14/2017 2/14/2017	Tuesday Tuesday	2:00 AM 8:35 AM	Rollover Sideswipe	Property Damage Only Injury	0	0	\$11,000 \$15,200	Dark - Not Lighted Daylight	Dry Dry	No No	No No
158	85455768	2/21/2017	Tuesday	10:00 PM	Left Turn	Injury	0	1	\$6,500	Dark - Lighted	Dry	No	No
159	86736665	2/23/2017	Thursday	12:18 PM	Rear End	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
160 161	86736694 85489884	3/1/2017 3/8/2017	Wednesday Wednesday	4:25 PM 7:00 PM	Animal Rear End	Injury Property Damage Only	0	1 0	\$1,000 \$14,000	Daylight Dark - Not Lighted	Dry Dry	No No	No No
162	85495693	3/15/2017	Wednesday	9:25 AM	Rear End	Property Damage Only	0	0	\$325	Daylight	Dry	No	No
163	85493486	4/9/2017	Sunday	11:05 AM	Rear End	Property Damage Only	0	0	\$4,000	Daylight	Dry	No	No
164 165	85491371 85476094	4/13/2017 4/26/2017	Thursday Wednesday	8:32 PM 6:39 AM	Rear End Rear End	Property Damage Only Property Damage Only	0	0	\$6,500 \$1,150	Dark - Not Lighted Daylight	Dry Dry	No No	No No
166	85510518	5/5/2017	Friday	2:54 PM	Left Turn	Property Damage Only	0	0	\$4,500	Daylight	Dry	No	No
167	85511556	5/9/2017	Tuesday	2:30 PM	Rear End	Injury	0	1	\$1,900	Daylight	Dry	No	No
168 169	85526242 85525303	5/11/2017 5/22/2017	Thursday Monday	1:22 PM 4:20 PM	Left Turn Other	Injury Injury	0	3 5	\$12,000 \$24,000	Daylight Daylight	Dry Dry	No No	No No
170	85531396	5/24/2017	Wednesday	12:00 PM	Sideswipe	Property Damage Only	0	0	\$600	Daylight	Dry	No	No
171	85524224	6/11/2017	Sunday	11:00 AM	Rear End	Property Damage Only	0	0	\$1,300	Daylight	Dry	No	No
172 173	85547110 86991305	6/14/2017 6/15/2017	Wednesday Thursday	8:05 AM 10:00 PM	Left Turn Rear End	Injury Property Damage Only	0	2 0	\$22,000 \$0	Daylight Dark - Lighted	Dry Wet	No No	No No
173	85544496	6/18/2017	Sunday	11:55 PM	Other	Injury	0	1	\$15,000	Dark - Not Lighted	Dry	No	No
175	85545085	6/23/2017	Friday	3:47 PM	Rear End	Property Damage Only	0	0	\$8,000	Daylight	Dry	No	No
176 177	85545098 85545766	6/26/2017 6/28/2017	Monday	3:45 PM 1:45 PM	Rear End Sideswipe	Injury Property Damage Only	0	1 0	\$5,500 \$200	Daylight	Wet	No No	No No
178	85551697	6/30/2017	Wednesday Friday	3:20 AM	Left Turn	Property Damage Only Property Damage Only	0	0	\$3,000	Daylight Dark - Lighted	Dry Dry	No No	No No
179	85525255	6/30/2017	Friday	12:38 PM	Right Turn	Injury	0	1	\$3,500	Daylight	Dry	No	No
180 181	85555179 85539656	6/30/2017 7/3/2017	Friday Monday	10:00 PM 4:15 PM	Angle Rear End	Property Damage Only Property Damage Only	0	0	\$1,000 \$3,500	Dark - Lighted	Dry	Yes No	No No
181	85565171	7/3/2017	Monday Sunday	1:42 PM	Rear End	Injury	0	3	\$3,500	Daylight Daylight	Dry Dry	No No	No No
183	85548362	7/17/2017	Monday	5:30 PM	Rear End	Property Damage Only	0	0	\$550	Daylight	Wet	No	No
184	87413635	7/19/2017	Wednesday	12:56 PM	Rear End	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
185 186	85548365 85561974	7/19/2017 7/21/2017	Wednesday Friday	3:40 PM 6:20 PM	Head On Rear End	Fatality Property Damage Only	1 0	7 0	\$30,000 \$2,400	Daylight Daylight	Dry Wet	No No	No No
187	85561980	7/24/2017	Monday	9:25 AM	Rear End	Property Damage Only	0	0	\$120	Daylight	Dry	No	No
188	85570187	7/30/2017	Sunday	2:50 PM	Rear End	Property Damage Only	0	0	\$1,500	Daylight	Wet	No	No
189 190	85556369 85576278	8/4/2017 8/15/2017	Friday Tuesday	9:00 AM 2:30 PM	Rear End Angle	Property Damage Only Property Damage Only	0	0	\$8,500 \$3,500	Daylight Daylight	Dry Dry	No No	No No
190	85578337	8/18/2017	Friday	12:30 PM	Rear End	Injury	0	2	\$3,500	Daylight	Dry	No No	No No
192	87413769	8/20/2017	Sunday	12:37 AM	Left Turn	Property Damage Only	0	0	\$1,400	Dark - Lighted	Dry	Yes	No
193 194	85561339 85556394	8/21/2017 8/22/2017	Monday Tuesday	6:27 AM 6:55 AM	Rear End Left Turn	Property Damage Only	0	0 2	\$9,000 \$4,500	Daylight Dawn	Dry	No No	No No
174	05550594	0/22/201/	uesuay	0.33 AM	Lett 1 dm	Injury	u	4	4,500	Dawii	Dry	I NO	NU

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
195	85561133	8/26/2017	Saturday	12:53 PM	Sideswipe	Property Damage Only	0	0	\$600	Daylight	Dry	No	No
196 197	85590643 85577519	8/30/2017 9/2/2017	Wednesday Saturday	7:50 AM 1:00 AM	Left Turn Other	Injury Injury	0	2	\$8,000 \$3,500	Daylight Dark - Lighted	Dry Wet	No No	No No
198	85576302	9/4/2017	Monday	2:00 PM	Left Turn	Injury	0	1	\$5,500	Daylight	Dry	No	No
199	85591300	9/5/2017	Tuesday	6:38 AM	Left Turn	Injury	0	1	\$6,500	Dark - Lighted	Dry	No	No
200 201	83781355 85590664	9/9/2017 9/11/2017	Saturday Monday	2:08 PM 4:05 PM	Sideswipe Rollover	Property Damage Only Injury	0	0 2	\$2,500 \$3,500	Daylight Daylight	Dry Dry	No No	No No
202	85600003	9/11/2017	Tuesday	9:34 PM	Rear End	Property Damage Only	0	0	\$1,200	Daylight  Dark - Not Lighted	Dry	No	No
203	85582991	9/25/2017	Monday	5:25 PM	Rear End	Injury	0	2	\$8,400	Daylight	Dry	No	No
204 205	85592348 87413913	9/28/2017 10/4/2017	Thursday Wednesday	7:25 AM 8:25 AM	Sideswipe Rear End	Property Damage Only	0	0	\$1,025 \$1,500	Daylight Daylight	Dry Dry	No No	No No
206	85592085	10/4/2017	Sunday	8:26 PM	Left Turn	Property Damage Only Property Damage Only	0	0	\$6,900	Daylight Dark - Lighted	Wet	No	No
207	85572342	10/9/2017	Monday	7:36 AM	Rear End	Injury	0	1	\$1,000	Daylight	Dry	No	No
208	85591359	10/10/2017	Tuesday	8:03 AM	Rear End Rear End	Property Damage Only	0	0	\$600	Daylight	Dry	No	No
209 210	87413938 85591368	10/13/2017 10/14/2017	Friday Saturday	10:24 AM 6:53 AM	Off Road	Property Damage Only Property Damage Only	0	0	\$1,100 \$2,500	Daylight Dark - Not Lighted	Dry Wet	No No	No No
211	85604093	10/14/2017	Saturday	6:10 PM	Right Turn	Injury	0	1	\$2,000	Daylight	Dry	No	No
212	85599417	10/17/2017	Tuesday	8:10 AM	Left Turn	Injury	0	3	\$7,000	Daylight	Dry	No	No
213 214	87109862 85605760	10/18/2017 10/19/2017	Wednesday Thursday	5:47 PM 4:49 PM	Rear End Left Turn	Property Damage Only Injury	0	0 2	\$5,000 \$30,000	Daylight Daylight	Dry Dry	No No	No No
215	87107893	10/27/2017	Friday	8:15 AM	Rear End	Property Damage Only	0	0	\$1,400	Daylight	Dry	No	No
216	85604117	10/27/2017	Friday	5:45 PM	Rear End	Injury	0	1	\$650	Daylight	Dry	No	No
217 218	85592365	10/28/2017	Saturday	10:35 PM	Off Road	Property Damage Only	0	0	\$500	Dark - Not Lighted	Wet	No	No
219	87107684 87108037	10/29/2017 10/30/2017	Sunday Monday	7:18 PM 7:22 PM	Rear End Rear End	Injury Property Damage Only	0	4 0	\$8,000 \$1,300	Dusk Dawn	Dry Dry	No No	No No
220	87115840	11/15/2017	Wednesday	2:45 PM	Angle	Injury	0	3	\$5,500	Daylight	Dry	No	No
221	87112243	11/16/2017	Thursday	5:16 PM	Left Turn	Property Damage Only	0	0	\$3,500	Daylight	Dry	No	No
222 223	87108064 87106519	11/17/2017 11/19/2017	Friday Sunday	7:46 PM 1:40 PM	Left Turn Rear End	Property Damage Only Injury	0	0 1	\$6,000 \$8,000	Dark - Lighted Daylight	Dry Dry	No No	No No
224	87111644	11/28/2017	Tuesday	6:32 AM	Left Turn	Injury	0	1	\$13,000	Dark - Not Lighted	Dry	No	No
225	87135713	11/30/2017	Thursday	6:01 PM	Left Turn	Property Damage Only	0	0	\$8,500	Dusk	Dry	No	No
226 227	87414122 87111656	12/6/2017 12/8/2017	Wednesday Friday	2:49 PM 2:37 AM	Rear End Rollover	Property Damage Only Property Damage Only	0	0	\$1,000 \$2,000	Daylight Dark - Not Lighted	Dry Dry	No No	No No
227	87111656 87135728	12/8/2017	Friday	7:10 PM	Rollover Rear End	Property Damage Only Property Damage Only	0	0	\$2,000	Dark - Not Lighted Dark - Lighted	Dry	No No	No No
229	87414135	12/10/2017	Sunday	10:55 PM	Other	Injury	0	1	\$8,000	Dark - Not Lighted	Dry	No	No
230	87132703	12/14/2017	Thursday	6:50 AM	Rear End	Property Damage Only	0	0	\$4,000	Dawn	Dry	No	No
231 232	87122550 87135939	12/14/2017 12/21/2017	Thursday Thursday	3:55 PM 5:20 PM	Rear End Left Turn	Property Damage Only Injury	0	0 1	\$1,000 \$3,000	Daylight Daylight	Dry Dry	No No	No No
233	87148280	12/28/2017	Thursday	6:06 AM	Left Turn	Injury	0	2	\$10,000	Dark - Lighted	Dry	No	No
234	87132148	1/1/2018	Monday	1:02 AM	Left Turn	Property Damage Only	0	0	\$4,000	Dark - Lighted	Dry	No	No
235 236	87136672 87149910	1/1/2018 1/2/2018	Monday Tuesday	5:30 AM 6:20 PM	Rear End Left Turn	Property Damage Only Property Damage Only	0	0	\$13,000 \$5,000	Dark - Not Lighted Dawn	Dry Dry	No No	No No
237	87118825	1/3/2018	Wednesday	12:33 PM	Unknown	Injury	0	3	\$15,000	Daylight	Wet	No	No
238	87149914	1/4/2018	Thursday	11:35 AM	Right Turn	Injury	0	1	\$1,500	Daylight	Dry	No	No
239	87134978 87134106	1/4/2018	Thursday	11:54 PM	Off Road	Property Damage Only	0	0	\$10,000	Dark - Not Lighted	Dry	No	No
240 241	87154106 87150626	1/9/2018 1/11/2018	Tuesday Thursday	11:37 AM 7:14 AM	Sideswipe Rollover	Property Damage Only Injury	0	1	\$700 \$3,500	Daylight Daylight	Dry Wet	No No	No No
242	87151472	1/12/2018	Friday	2:25 PM	Rear End	Injury	0	1	\$5,500	Daylight	Dry	No	No
243	87141626	1/14/2018	Sunday	6:19 AM	Rollover	Property Damage Only	0	0	\$10,000	Daylight	Dry	No	No
244 245	87149939 87414292	1/16/2018 1/18/2018	Tuesday Thursday	7:25 PM 6:35 AM	Left Turn Rear End	Injury Property Damage Only	0	1 0	\$8,000 \$1,000	Dawn Dawn	Dry Dry	No No	No No
246	87414297	1/19/2018	Friday	1:45 PM	Unknown	Property Damage Only	0	0	\$1,100	Daylight	Dry	No	No
247	87151485	1/21/2018	Sunday	1:00 PM	Rear End	Property Damage Only	0	0	\$3,500	Daylight	Dry	No	No
248 249	87148315 87136500	1/23/2018	Tuesday	5:37 AM 3:20 PM	Off Road Rear End	Injury	0	1	\$2,500	Dark - Not Lighted	Wet	No No	No No
250	87166885	1/24/2018 1/27/2018	Wednesday Saturday	10:20 PM	Other	Property Damage Only Property Damage Only	0	0	\$7,000 \$42,500	Daylight Dark - Lighted	Dry Dry	No No	No
251	87158249	1/29/2018	Monday	8:54 AM	Rear End	Property Damage Only	0	0	\$7,200	Daylight	Wet	No	No
252	87158254	2/6/2018	Tuesday	7:38 AM	Left Turn	Property Damage Only	0	0	\$1,600	Daylight	Dry	No	No
253 254	87161461 87148336	2/7/2018 2/8/2018	Wednesday Thursday	9:00 AM 5:55 AM	Rear End Rear End	Property Damage Only Injury	0	0 4	\$12,100 \$5,200	Daylight Dark - Lighted	Dry Dry	No No	No No
255	87132707	2/9/2018	Friday	7:40 AM	Rear End	Injury	0	2	\$14,000	Daylight	Dry	No	No
256	87173398	2/9/2018	Friday	3:08 PM	Rear End	Injury	0	2	\$5,200	Daylight	Dry	No	No
257 258	87158256 87144334	2/12/2018 2/15/2018	Monday	8:44 AM 3:35 PM	Unknown Rear End	Injury Property Damage Only	0	1 0	\$4,000	Daylight	Dry	No	No
259	87174163	2/19/2018	Thursday Monday	10:50 AM	Rear End	Injury	0	1	\$1,000 \$16,000	Daylight Daylight	Dry Dry	No No	No No
260	87183378	2/21/2018	Wednesday	6:46 AM	Other	Property Damage Only	0	0	\$3,000	Daylight	Dry	No	No
261	87145281	2/22/2018	Thursday	9:30 AM	Rear End	Injury	0	1	\$5,000	Daylight	Dry	No	No
262 263	87414449 87158272	2/27/2018 3/1/2018	Tuesday Thursday	8:41 AM 6:59 AM	Rear End Rear End	Property Damage Only Property Damage Only	0	0	\$1,000 \$600	Daylight Daylight	Dry Dry	No No	No No
264	87168366	3/8/2018	Thursday	12:45 PM	Off Road	Injury	0	1	\$1,200	Daylight	Dry	No	No
265	87183299	3/8/2018	Thursday	3:30 PM	Rear End	Injury	0	3	\$15,500	Daylight	Dry	No	No
266 267	87166714 87145308	3/9/2018 3/11/2018	Friday Sunday	3:00 PM 9:50 AM	Rear End Rear End	Property Damage Only Injury	0	0	\$3,500 \$14,000	Daylight Daylight	Dry Dry	No No	No No
268	87172199	3/11/2018	Wednesday	4:53 PM	Angle	Property Damage Only	0	0	\$400	Daylight	Dry	No	No
269	87191329	3/15/2018	Thursday	8:00 AM	Unknown	Injury	0	1	\$13,000	Daylight	Dry	No	No
270 271	87414518 87414542	3/15/2018 3/17/2018	Thursday	4:45 PM 8:11 PM	Unknown Head On	Property Damage Only	0	0	\$3,500 \$11,000	Daylight	Dry	No Vec	No No
271	87414542 87201284	3/17/2018	Saturday Monday	10:15 PM	Head On Rear End	Property Damage Only Injury	0	1	\$11,000	Dark - Lighted Dawn	Dry Wet	Yes No	No No
273	87166925	3/23/2018	Friday	9:30 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry	No	No
274	87183358	3/27/2018	Tuesday	8:15 AM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry	No	No
275 276	87166934 87191564	3/27/2018 3/27/2018	Tuesday Tuesday	12:10 PM 8:18 PM	Rear End Left Turn	Property Damage Only Injury	0	0 1	\$4,500 \$5,000	Daylight Dark - Not Lighted	Dry Dry	No No	No No
277	87179965	3/30/2018	Friday	6:01 AM	Left Turn	Injury	0	2	\$5,800	Daylight	Dry	No	No
278	87201750	4/3/2018	Tuesday	11:20 AM	Rear End	Property Damage Only	0	0	\$2,000	Daylight	Dry	No	No
279 280	87198409 87166943	4/3/2018 4/7/2018	Tuesday Saturday	4:52 PM 8:25 AM	Unknown Rear End	Property Damage Only Property Damage Only	0	0	\$500 \$20,000	Daylight Daylight	Dry Dry	No No	No No
281	87166943 87192275	4/10/2018	Tuesday	3:45 PM	Unknown	Property Damage Only Property Damage Only	0	0	\$20,000	Daylight	Wet	No No	No No
282	87201776	4/12/2018	Thursday	10:35 AM	Rear End	Injury	0	4	\$19,000	Daylight	Dry	No	No
283	87191353	4/12/2018	Thursday	9:27 PM	Off Road	Property Damage Only	0	0	\$100	Dark - Lighted	Dry	No	No
284 285	87185792 87181356	4/17/2018 4/18/2018	Tuesday Wednesday	3:35 PM 2:50 PM	Rear End Rear End	Property Damage Only Injury	0	0 2	\$5,500 \$2,300	Daylight Daylight	Dry Dry	No No	No No
286	87181362	4/20/2018	Friday	5:00 PM	Left Turn	Property Damage Only	0	0	\$1,700	Daylight	Dry	No	No
287	87191594	4/20/2018	Friday	11:18 PM	Left Turn	Injury	0	1	\$11,000	Dark - Not Lighted	Dry	No	No
288	87201789 87214026	4/22/2018	Sunday	10:00 AM	Rear End	Injury	0	6	\$24,000	Daylight	Wet	No	No
		4/25/2018	Wednesday	12:00 PM	Left Turn	Property Damage Only	0	0	\$2,700	Daylight	Dry	No	No
289 290	87180923	4/27/2018	Friday	9:48 AM	Off Road	Property Damage Only	0	0	\$6,000	Daylight	Dry	No	No

The color							rash Data Summ							
The color of the	No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
20.										\$15,000			No	No
250   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100						1 1								No No
200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200											-			No
200.						1								No
200   175, 176   175, 175   175, 175, 175, 175, 175, 175, 175, 175,														No No
200   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190   190				-										No
No.   Proceedings   Process   Proc			6/5/2018			1 1	Injury				Daylight			No
200   ST-2000   A   A   A   A   A   A   A   A   A						1								No No
200.0000   10.77/2000   20.0000   20.0000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20.000   20														No
200.			6/17/2018	-		1 1	Property Damage Only				Dark - Not Lighted		No	No
2007-2006-2007-2006-2006-2006-2006-2006-														No
28   27,2013   17,2013   20,202   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,203   20,						1								No No
10.00000000000000000000000000000000000														No
10.00000000000000000000000000000000000						1								No
10.0											-			No No
March   Principle   Principle   March   Marc														No
15.5   57.55402   7.739/2019   Friendly   6.0 Friendly   7.0 Frieddly   7.0 Fri			7/20/2018	Friday		1						Dry	No	No
15.00   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50														No
2017   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.18   27.21.27.20.20.18   27.21.27.20.18   27.21.27.20.20.18   27.21.27.20.20.20.20.20.20.20.20.20.20.20.20.20.						1							_	No No
190   577/160   67/2018   m.m.cuty   300 PM   Roer find   hopeyers bringen Only   0   0   5,100   Duylight   Duy   10   10   10   10   10   10   10   1	317					1								No
15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.0						1								No
22.2   \$25,000.03   \$71,07.038   Federal   \$23,1134   Saze End   Splary   0   1   \$6,000   Copylight   West   No   No   \$1,07.000   No   \$1,						1 1								No No
2007   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972   1972			, ,			1								No
2.52   2.525.00   2.11.20   2.00   2.1.70   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.	322	87260023	8/10/2018	Friday	5:23 PM	Rear End	Injury			\$4,500	Daylight	Dry	No	No
25   5725464   5716/2018   Thursday   74.0 AM   Left Tum   Splay   0   1   57.500   Dayligt   Dry   No   10   10   10   10   10   10   10   1				-										No No
The content of the				-		1 1								No No
25.5   \$75/27/58   \$72/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$74/2015   \$							Property Damage Only							No
1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50   1.50						1 1								No
Separate				-		1								No No
1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00														No
1.53   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.05   1.572-1.0						1 1								No
Section   Sect				-		1								No No
1875   1872/1895   1873/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895   1874/1895														No
Section   Sect		87273899	8/31/2018		2:58 AM	1		0	1				No	No
Sag   Sc724674   071/2018   Saturday   2018 PM   Rear End   Property Damage Only   0   0   \$5,000   Daylight   Dry   No   Daylight   Dry   No   Sag   Sc724674   071/2018   Saturday   2018 PM   Rear End   Property Damage Only   0   0   \$5,000   Daylight   Dry   No   Daylight   Dry   N														No
399   87274675   971/2018   sturday   2.05 PM   Roce Field   Property Damage Only   0   0   55,000   Daylight   Dry   No   No   No   141   872756663   974/2018   Tureday   7.99 AM   Roce Field   Turn   Roce Field   Roce Fiel						1							_	No No
\$\frac{1}{241} \ \ \frac{2}{87256673} \ \ \ \frac{9}{9}\ \ \ \frac{9}{2}\ \text{S1} \  \text{ \text						1 1		0						No
\$42   \$7278479						1								No
\$44   \$78-6728   \$9/6/2018   Thursday   6-37 AM   Left Turn   \$44   \$78-6728   \$9/14/2018   Feday   \$2.0 AM   \$6.00   \$4.00   \$0.0   \$3.000   \$0.0   \$3.000   \$0.0   \$4.000   \$0.0   \$3.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$0.0   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.000   \$4.00														No No
S8003542   9/14/2018   Friday   2.21 PM   Off Each   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   No   No   S2787525   9/14/2018   Friday   2.21 PM   Off Each   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000   Daylight   Dry   No   Poperty Damage Only   0   0   \$2,000						1								No
144   87287526   9714/2018   Friday   2:14 PM   Cert Road   Friday   2:14 PM   Roar End   Road				Wednesday		Sideswipe	Property Damage Only					Dry	No	No
348   8807972   9/14/2018   Friday   2:14 PM   Rear End   Property Damage Only   0   0   \$2,000   Daylight   Dry   No   No   \$348   \$805797   9/14/2018   Saunday   2:09 PM   Rear End   Friday   \$0.000   \$3.01   Daylight   Dry   No   \$0.000   \$3.01   Daylight   Dry   No   \$0.000   \$3.000   Daylight   Dry   No   \$0.000														No No
S8007941   9/15/2018   Saturday   1:00 AM   Left Turn						1 1								No
\$350   \$728655   \$9/17/2018   \$0.004ay   \$734 AM   Rear End   Injury   \$0   \$3   \$5,500   Daylight   Dry   No   \$0.51   \$352   \$728655   \$9/18/2018   \$0.004ay   \$3-7 PM   Unknown   Injury   \$0   \$2   \$5,200   Daylight   Dry   No   \$0.55   \$729525   \$0.55   \$0.50   Daylight   Dry   No   \$0.55   \$729456   \$0.77   \$0.72   \$0.55   \$0.50   Daylight   Dry   No   \$0.55   \$729456   \$0.77   \$0.72   \$0.55   \$0.50   Daylight   Dry   No   \$0.55   \$729456   \$0.77   \$0.00   \$0.51   \$0.00   Daylight   Dry   No   \$0.55   \$729456   \$0.77   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.00   \$0.								0					No	No
S7288662   9/20/2018   Thursday   6:08 AM   Left Turn   Injury   0   2   55,200   Dark-Not Lighted   Dry   No   Daylight   Dry   N				-		1								No
1.532   1.532   1.532   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.533   1.53						1 1								No No
353   85012515   97.67   2018   Wednesday   7.20 AM   Left Turn   Injury   0   2   131,000   Davlight   Dry   No   David   Dry   No   David				,			, ,					· ·	_	No
355   87294486   10/1/2018   Monday   4-45 PM   Left Turn							Injury				Daylight			No
356   87993028   10/1/2018   Monday   10:03 PM   Right Turn   Injury   0   1   \$14,000   Dark-Not Lighted   Dry   No   No   S7950253   10/12/2018   Friday   6:30 AM   Rear End   Injury   0   1   \$4,000   Dark-Lighted   Dry   No   S7290472   10/12/2018   Friday   6:30 AM   Rear End   Injury   0   1   \$10,500   Dark-Lighted   Dry   No   No   S7290472   10/12/2018   Friday   8:00 PM   Unknown   Left Turn   Left Turn   Property Damage Only   0   0   \$8,000   Daylight   Dry   No   No   S7867393   10/14/2018   Sunday   9:45 PM   Rear End   Property Damage Only   0   0   \$2,000   Dark-Lighted   Dry   No   S7867393   10/14/2018   Wednesday   8:35 AM   Rear End   Property Damage Only   0   0   \$2,000   Dark-Lighted   Dry   No   S7867393   10/14/2018   Wednesday   2:50 PM   Left Turn   Property Damage Only   0   0   \$2,000   Dark-Lighted   Dry   No   No   S7867393   10/12/3018   Tuesday   7:00 AM   Left Turn   Property Damage Only   0   0   \$2,000   Dark-Lighted   Dry   No   No   S7867393   10/12/3018   Tuesday   2:50 PM   Left Turn   Property Damage Only   0   0   \$3,000   Dusk   Dry   No   No   S7867393   10/12/3018   Tuesday   2:50 PM   Left Turn   Left Tur														No No
357   87295253   10/2/2018   Truesday   7:00 AM   Rear End   Injury   0   1   \$4,000   Daylight   Dry   No   \$38   88015345   10/5/2018   Friday   6:30 AM   Rear End   Injury   0   1   \$10,500   Dark - Lighted   Dry   No   \$38   872952   10/5/2018   Friday   6:45 PM   Left Turn   Froperty Damage Only   0   0   \$8,000   Daylight   Dry   No   \$360   88022751   10/12/2018   Sunday   9:45 PM   Rear End   Froperty Damage Only   0   0   \$2,000   Daylight   Dry   No   \$361   8786739   10/14/2018   Sunday   2:50 PM   Left Turn   Froperty Damage Only   0   0   \$3,000   Daylight   Dry   No   \$363   88022767   10/23/2018   Tuesday   2:50 PM   Left Turn   Froperty Damage Only   0   0   \$3,000   Dusk   Dry   No   \$364   88022767   10/23/2018   Tuesday   2:50 PM   Left Turn   Froperty Damage Only   0   0   \$3,000   Dusk   Dry   No   \$368   88024941   11/2/2018   Friday   8:30 PM   Left Turn   Left Turn   Injury   0   0   \$3,000   Daylight   Dry   No   \$368   88024941   11/2/2018   Friday   8:20 PM   Left Turn   Injury   0   1   \$9,400   Dark - Not Lighted   Dry   No   \$368   88024941   11/2/2018   Monday   11:02 AM   Rear End   Injury   0   1   \$9,400   Dark - Not Lighted   Dry   No   \$370   8801510   11/5/2018   Monday   11:02 AM   Rear End   Injury   0   1   \$50   Daylight   Dry   No   \$370   8801510   11/5/2018   Monday   7:20 PM   Left Turn   Injury   0   2   \$5,200   Daylight   Dry   No   \$371   8786463   11/9/2018   Monday   7:30 AM   Rear End   Injury   0   2   \$5,000   Daylight   Dry   No   \$373   88031026   11/15/2018   Thursday   7:30 PM   Left Turn   Injury   0   2   \$4,000   Daylight   Dry   No   \$373   88031026   11/15/2018   Thursday   7:30 PM   Left Turn   Injury   0   2   \$4,000   Daylight   Dry   No   \$378   8803247   12/3/2018   Thursday   9:30 AM   Left Turn   Injury   0   2   \$4,000   Daylight   Dry   No   \$378   8803247   12/3/2018   Sunday   1:40 PM   Left Turn   Injury   0   2   \$4,000   Daylight   Dry   No   \$380   88036749   12/14/2018   Friday   8:00 AM   Rear End   Injury   0   2   \$4,000   Dayli				-		1								No No
S79   S7290472   10/5/2018   Friday   S.00 PM   Unknown   Injury   O   1   \$10,500   Dark-Lighted   Dry   No   No   S800251   10/12/2018   Friday   S.45 PM   Rear End   Property Damage Only   O   O   \$2,000   Dark-Lighted   Dry   No   S8,000   Dark-Lighted   Dry   No   S8,000   Dark-Lighted   Dry   No   Property Damage Only   O   O   \$2,000   Dark-Lighted   Dry   No   S8,000   Dark-Lighted   Dry   No   S8,000   Dark-Lighted   Dry   No   Dark-Lighted   Dry   No   Property Damage Only   O   O   \$2,500   Dark-Lighted   Dry   No   S8,000   Dark-Lighted   Dry   No   Dark-Lighted   Dry   No   Dark-Lighted   Dry   No   S8,000   Dark-Lighted   Dry   No   Dark-Lig	357	87295253	10/2/2018	Tuesday	7:00 AM	Rear End	Injury	0	1	\$4,000	Daylight	Dry	No	No
360   88022751   10/12/2018   Friday   6-45 PM   Left Turn   Rear End   Frogerty Damage Only   0   0   52,000   Daylight   Dry   No   No   20   52,000   Daylight   Dry   No   20   52,000   Dayl						1 1								No
361   87867393   10/14/2018   Sunday   9.45 PM   Rear End   Property Damage Only   0   0   5.200   Dark - Lighted   Dry   No   9.36   88027922   10/23/2018   Tuesday   7.00 AM   Left Turn   Property Damage Only   0   0   5.3,000   Davilght   Dry   No   9.36   88027922   10/23/2018   Tuesday   7.00 AM   Left Turn   Property Damage Only   0   0   5.3,000   Davilght   Dry   No   9.36   88023438   10/30/2018   Tuesday   8.30 PM   Left Turn   Property Damage Only   0   0   5.3,000   Davilght   Dry   No   9.36   88023438   10/30/2018   Tuesday   8.30 PM   Left Turn   Property Damage Only   0   0   5.3,000   Davilght   Dry   No   9.30   Dark - Not Lighted   Dry   No   9.30   Da						1					-			No No
363   88027922   10/23/2018   Tuesday   7:00 AM   Left Turn   Property Damage Only   0   0   53,000   Dusk   Dry   No	361					1								No
365   88022767   10/23/2018   Tuesday   2:50 PM   Left Turn   Property Damage Only   0   0   54,000   Daylight   Dry   No   No   S4000   Daylight   Dry   No   S4000						1								No
365   88024358   10/30/2018   Tuesday   8:30 PM   Left Turn   Property Damage Only   0   1   59,400   Dark - Not Lighted   Dry   No   No   S23,000   Dark - Not Lighted   Dry   No   No   S24,000   Dark - Not Lighted   Dry   No   S24,000   Dark - Not Lighted   Dry   No   No   S24,000   Dark - Not Lighted   Dry   No   S24,000   Dark -														No No
366   88029491   11/2/2018   Friday   8:20 PM   Left Turn   Injury   0   1   \$9,400   Dark - Not Lighted   Dry   No						1 1								No No
368   88009134   11/5/2018   Monday   11:02 AM   Rear End   Injury   0   2   \$6,200   Daylight   Dry   No	366	88029491	11/2/2018		8:20 PM	Left Turn		0						No
369   88015097   11/5/2018   Monday   5:14 PM   Angle   Property Damage Only   0   0   \$5,500   Dusk   Dry   No						1 1								No No
370   88015110   11/8/2018   Thursday   7:29 PM   Left Turn   Property Damage Only   0   0   \$4,000   Dark - Not Lighted   Dry   No   No   371   87867463   11/9/2018   Friday   7:30 AM   Rear End   Injury   0   2   \$510,000   Dark - Not Lighted   Dry   No   No   372   88031026   11/15/2018   Thursday   10:50 PM   Cher   Injury   0   2   \$4,000   Dark - Not Lighted   Dry   No   No   373   88031026   11/15/2018   Thursday   10:50 PM   Cher   Injury   0   2   \$4,000   Dark - Not Lighted   Dry   No   No   374   88029524   11/27/2018   Tuesday   9:15 AM   Rear End   Property Damage Only   0   0   \$1,100   Dark - Not Lighted   Dry   No   No   375   8803047   12/3/2018   Monday   11:49 PM   Left Turn   Injury   0   1   \$8,000   Dark - Not Lighted   Dry   No   No   376   88049944   12/4/2018   Tuesday   4:54 PM   Left Turn   Injury   0   1   \$6,000   Dark - Not Lighted   Dry   No   377   88029540   12/6/2018   Thursday   9:30 AM   Left Turn   Injury   0   1   \$6,000   Davilight   Dry   No   378   88051390   12/14/2018   Friday   8:00 AM   Rear End   Injury   0   2   \$4,000   Davilight   Dry   No   379   88042291   12/16/2018   Sunday   2:45 AM   Off Road   Injury   0   2   \$54,000   Davilight   Dry   No   381   88057449   12/21/2018   Friday   10:00 AM   Other   Injury   0   1   \$5,000   Davilight   Dry   No   381   88057442   12/28/2018   Friday   10:00 AM   Other   Injury   0   1   \$3,800   Davilight   Dry   No   381   88057442   12/28/2018   Friday   8:10 PM   Rear End   Property Damage Only   0   \$500   Davilight   Dry   No   384   88043757   12/31/2018   Monday   4:00 AM   Off Road   Property Damage Only   0   0   \$3,000   Dark - Not Lighted   Dry   No   385   88057678   1/7/2019   Monday   9:25 AM   Angle   Property Damage Only   0   0   \$1,475   Davilight   Dry   No   386   8805768   1/7/2019   Monday   9:25 AM   Angle   Property Damage Only   0   0   51,000   Dark - Not Lighted   Dry   No   387   88057678   1/7/2019   Monday   9:25 AM   Angle   Property Damage Only   0   0   51,000   Dark - Not Lighted   Dry														No No
S72   S8031410   11/15/2018   Friday   7:30 AM   Rear End   Property Damage Only   0   0   \$2,000   Daylight   Dry   No   No   No   No   No   No   No   N	370													No
373   88031026   11/15/2018   Thursday   10:50 PM   Other   Injury   0   2   \$4,000   Dark - Not Lighted   Dry   No   No   374   88029524   11/27/2018   Tuesday   9:15 AM   Rear End   Property Damage Only   0   0   51,100   Dark - Not Lighted   Dry   No   No   375   8803047   12/3/2018   Monday   11:49 PM   Left Turn   Injury   0   1   \$8,000   Dark - Not Lighted   Dry   No   No   376   88049944   12/4/2018   Tuesday   4:54 PM   Left Turn   Injury   0   1   \$6,000   Dark - Not Lighted   Dry   No   No   377   88029540   12/6/2018   Thursday   9:30 AM   Left Turn   Property Damage Only   0   0   \$2,900   Daylight   Dry   No   No   378   88051630   12/14/2018   Friday   8:00 AM   Rear End   Injury   0   2   \$4,000   Dark - Lighted   Dry   No   No   380   88036725   12/18/2018   Tuesday   3:59 PM   Pedestrian   Injury   0   1   \$5,000   Dark - Lighted   Dry   No   No   381   88057442   12/27/2018   Friday   10:00 AM   Other   Injury   0   1   \$3,800   Daylight   Dry   No   382   88057445   12/27/2018   Thursday   1:20 PM   Rear End							Property Damage Only							No
374   88029524   11/27/2018   Tuesday   9:15 AM   Rear End   Property Damage Only   0   0   \$1,100   Daylight   Dry   No						1								No No
375   88030247   12/3/2018   Monday   11:49 PM   Left Turn   Injury   0   1   \$8,000   Dark - Not Lighted   Dry   No   376   88049944   12/4/2018   Tuesday   4:54 PM   Left Turn   Injury   0   1   \$6,000   Daylight   Dry   No   378   88051390   12/6/2018   Thursday   9:30 AM   Left Turn   Injury   0   0   \$2,900   Daylight   Dry   No   378   88051390   12/14/2018   Sunday   2:45 AM   Off Road   Injury   0   1   \$5,000   Dark - Lighted   Dry   No   380   88036725   12/18/2018   Tuesday   3:59 PM   Pedestrian   Injury   0   2   \$2,000   Daylight   Dry   No   381   88057649   12/21/2018   Friday   10:00 AM   Other   Injury   0   1   \$3,800   Daylight   Dry   No   382   88057436   12/27/2018   Thursday   1:20 PM   Rear End   Property Damage Only   0   \$500   Daylight   Dry   No   383   8803742   12/28/2018   Friday   8:10 PM   Rear End   Property Damage Only   0   \$5,000   Dark - Lighted   Dry   No   384   88043757   12/31/2018   Monday   4:00 AM   Off Road   Property Damage Only   0   \$3,000   Dark - Lighted   Dry   No   385   88047671   1/2/2019   Saturday   6:47 PM   Rear End   Property Damage Only   0   \$1,000   Dark - Not Lighted   Dry   No   386   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$500   Daylight   Dry   No   387   8805768   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No   387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No   387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No   387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No   387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No   387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No   387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No   380   Monday   9:25 AM   Bicycle   Monday   9:25 AM   Bicycle   Mo						1								No No
377   8802540   12/6/2018   Thursday   9:30 AM   Left Turn   Property Damage Only   0   0   \$2,900   Daylight   Dry   No	375	88030247	12/3/2018	Monday	11:49 PM	Left Turn	Injury	0	1	\$8,000	Dark - Not Lighted	Dry	No	No
378   88051390   12/14/2018   Friday   8:00 AM   Rear End   Injury   0   2   \$4,000   Daylight   Dry   No						1								No No
379   88042329   12/16/2018   Sunday   2:45 AM   Off Road   Injury   0   1   \$5,000   Dark - Lighted   Dry   No     380   88036725   12/18/2018   Tuesday   3:59 PM   Pedestrian   Injury   0   2   \$20,000   Daylight   Dry   No     381   88057649   12/21/2018   Friday   10:00 AM   Other   Injury   0   1   \$3,800   Daylight   Dry   No     382   88057436   12/27/2018   Thursday   1:20 PM   Rear End   Property Damage Only   0   0   \$600   Daylight   Dry   No     383   88057442   12/28/2018   Friday   8:10 PM   Rear End   Property Damage Only   0   0   \$1,000   Dark - Lighted   Dry   No     384   88043757   12/31/2018   Monday   4:00 AM   Off Road   Property Damage Only   0   0   \$3,000   Dark - Not Lighted   Dry   No     385   88047671   1/2/2019   Wednesday   8:29 AM   Angle   Property Damage Only   0   0   \$1,475   Daylight   Dry   No     386   88051630   1/5/2019   Saturday   6:47 PM   Rear End   Injury   0   2   \$1,500   Dark - Not Lighted   Dry   No     387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No     380   Dark - Not Lighted   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   No   Dark - Not Lighted   Dry   No     380   Rear End   Dry   Dark - Not Lighted   Dry   No     380   Rear End   Dry   Dark - Not Lighted   Dry   No     380   Rear End   Dry   Dark - Not Lighted   Dry   No     380   Rear End   Dry   Dark - Not Lighted   Dry   No     380   Rear End   Dry   Dark - Not Lighted				-		1								No No
380   88036725   12/18/2018   Tuesday   3.59 PM   Pedestrian   Injury   0   2   \$20,000   Daylight   Dry   No     381   88057649   12/21/2018   Friday   10:00 AM   Other   Injury   0   1   \$3,800   Daylight   Dry   No     382   88057436   12/27/2018   Thursday   1:20 PM   Rear End   Property Damage Only   0   0   \$5600   Daylight   Dry   No     383   88057442   12/28/2018   Friday   8:10 PM   Rear End   Property Damage Only   0   0   \$3,000   Dark - Lighted   Dry   No     384   88043757   12/31/2018   Monday   4:00 AM   Off Road   Property Damage Only   0   0   \$3,000   Dark - Not Lighted   Dry   No     385   88047671   1/2/2019   Wednesday   8:29 AM   Angle   Property Damage Only   0   0   \$1,475   Daylight   Dry   No     386   88051630   1/5/2019   Saturday   6:47 PM   Rear End   Rear End   Injury   0   2   \$1,500   Dark - Not Lighted   Dry   No     387   88057678   1/7/2019   Monday   9:25 AM   Bicycle   Injury   0   1   \$50   Daylight   Dry   No     388   Tuesday						1								No
382         88057436         12/27/2018         Thursday         1:20 PM         Rear End         Property Damage Only         0         0         \$600         Daylight         Dry         No           383         88057442         12/28/2018         Friday         8:10 PM         Rear End         Property Damage Only         0         0         \$1,000         Dark - Lighted         Dry         No           384         88043757         12/31/2018         Monday         4:00 AM         Off Road         Property Damage Only         0         0         \$3,000         Dark - Not Lighted         Dry         No           385         88047671         1/2/2019         Wednesday         8:29 AM         Angle         Property Damage Only         0         0         \$1,475         Daylight         Dry         No           386         88051630         1/5/2019         Saturday         6:47 PM         Rear End         Injury         0         2         \$1,500         Dark - Not Lighted         Dry         No           387         88057678         1/7/2019         Monday         9:25 AM         Bicycle         Injury         0         1         \$50         Daylight         Dry         No			12/18/2018	Tuesday	3:59 PM	Pedestrian	Injury		2	\$20,000	Daylight	Dry		No
383         88057442         12/28/2018         Friday         8:10 PM         Rear End         Property Damage Only         0         0         \$1,000         Dark - Lighted         Dry         No           384         88043757         12/31/2018         Monday         4:00 AM         Off Road         Property Damage Only         0         0         \$3,000         Dark - Not Lighted         Dry         No           385         88047671         1/2/2019         Wednesday         8:29 AM         Angle         Property Damage Only         0         0         \$1,475         Daylight         Dry         No           386         88051630         1/5/2019         Saturday         6:47 PM         Rear End         Injury         0         2         \$1,500         Dark - Not Lighted         Dry         No           387         88057678         1/7/2019         Monday         9:25 AM         Bicycle         Injury         0         1         \$50         Daylight         Dry         No						1								No No
384         88043757         12/31/2018         Monday         4:00 AM         Off Road         Property Damage Only         0         0         \$3,000         Dark - Not Lighted         Dry         No           385         88047671         1/2/2019         Wednesday         8:29 AM         Angle         Property Damage Only         0         0         \$1,475         Daylight         Dry         No           386         88051630         1/5/2019         Saturday         6:47 PM         Rear End         Injury         0         2         \$1,500         Dark - Not Lighted         Dry         No           387         88057678         1/7/2019         Monday         9:25 AM         Bicycle         Injury         0         1         \$50         Daylight         Dry         No						1								No No
386         88051630         1/5/2019         Saturday         6:47 PM         Rear End         Injury         0         2         \$1,500         Dark - Not Lighted         Dry         No           387         88057678         1/7/2019         Monday         9:25 AM         Bicycle         Injury         0         1         \$50         Daylight         Dry         No	384													No
387 88057678 1/7/2019 Monday 9:25 AM Bicycle Injury 0 1 \$50 Daylight Dry No							Property Damage Only							No
														No No
			1/8/2019	Tuesday		Rear End	Injury			\$5,500	Daylight			No

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
389	87231328	1/9/2019	Wednesday	6:15 AM	Other	Property Damage Only	0	0	\$1,000	Dark - Not Lighted	Dry	No	No
390 391	87867588 88064139	1/9/2019 1/10/2019	Wednesday Thursday	7:15 AM 6:44 AM	Sideswipe Left Turn	Property Damage Only Injury	0	0 2	\$0 \$15,500	Dawn Daylight	Dry Dry	No No	No No
392	87867599	1/11/2019	Friday	7:10 AM	Rear End	Property Damage Only	0	0	\$0	Dawn	Dry	No	No
393	88063222	1/16/2019	Wednesday	5:04 PM	Other	Property Damage Only	0	0	\$2,000	Dark - Lighted	Dry	No	No
394 395	87867625 88078709	1/17/2019 1/22/2019	Thursday Tuesday	2:32 PM 12:48 AM	Rear End Off Road	Property Damage Only Property Damage Only	0	0	\$150 \$6,650	Daylight Dark - Not Lighted	Dry Dry	No No	No No
396	87867675	2/3/2019	Sunday	11:30 PM	Rear End	Property Damage Only	0	0	\$2,000	Dark - Lighted	Dry	No	No
397	88086276	2/7/2019	Thursday	7:44 PM	Animal	Property Damage Only	0	0	\$3,500	Dark - Not Lighted	Dry	No	No
398 399	88064189 88087863	2/10/2019	Sunday	10:53 AM	Other Poor Ford	Property Damage Only	0	0	\$5,000	Daylight	Wet	No	No
400	85508094	2/11/2019 2/13/2019	Monday Wednesday	1:55 PM 12:30 PM	Rear End Rear End	Property Damage Only Injury	0	1	\$50 \$2,000	Daylight Daylight	Dry Dry	No No	No No
401	88083535	2/15/2019	Friday	2:40 AM	Other	Property Damage Only	0	0	\$4,200	Dark - Lighted	Dry	No	No
402	88086290	2/15/2019	Friday	7:09 PM	Rear End	Property Damage Only	0	0	\$4,100	Dark - Lighted	Dry	No	No
403 404	88083674 88083554	2/25/2019 2/27/2019	Monday Wednesday	7:09 PM 10:55 PM	Rear End Left Turn	Property Damage Only Injury	0	0 1	\$6,000 \$9,000	Dusk Dark - Not Lighted	Dry Dry	No No	No No
405	88079137	3/3/2019	Sunday	10:21 AM	Rear End	Injury	0	1	\$3,500	Daylight	Dry	No	No
406	88106258	3/8/2019	Friday	7:00 PM	Rear End	Injury	0	2	\$7,500	Dark - Lighted	Dry	No	No
407 408	88099992 88106268	3/11/2019	Monday	6:32 AM 3:28 PM	Other Left Turn	Injury	0	4 5	\$24,000 \$10,000	Daylight	Dry	No	No
409	88087896	3/15/2019 3/17/2019	Friday Sunday	5:20 AM	Left Turn	Injury Injury	0	1	\$6,000	Daylight Dark - Not Lighted	Dry Dry	No No	No No
410	88097384	3/25/2019	Monday	6:35 PM	Head On	Property Damage Only	0	0	\$8,000	Daylight	Dry	No	No
411	89087120	4/2/2019	Tuesday	3:44 PM	Off Road	Property Damage Only	0	0	\$500	Daylight	Dry	No	No
412 413	88111220 89087147	4/5/2019 4/10/2019	Friday Wednesday	4:50 PM 8:27 AM	Left Turn Rear End	Property Damage Only Property Damage Only	0	0	\$4,000 \$600	Daylight Daylight	Dry Dry	No No	No No
414	88084055	4/12/2019	Friday	6:16 AM	Rear End	Property Damage Only	0	0	\$5,000	Daylight	Dry	No	No
415	88097308	4/12/2019	Friday	8:52 AM	Rear End	Property Damage Only	0	0	\$4,000	Daylight	Dry	No	No
416 417	88912280 88097312	4/16/2019 4/18/2019	Tuesday Thursday	6:30 PM 9:12 AM	Unknown Left Turn	Property Damage Only	0	0	\$10,500 \$2,000	Daylight	Dry Dry	No No	No No
417	88097312 88106323	4/18/2019	Thursday	9:12 AM 3:03 PM	Rear End	Property Damage Only Injury	0	3	\$2,000	Daylight Daylight	Dry	No No	No No
419	88108994	4/20/2019	Saturday	11:55 PM	Left Turn	Property Damage Only	0	0	\$1,000	Dark - Not Lighted	Dry	No	No
420	88119954	4/21/2019	Sunday	1:39 AM	Left Turn	Property Damage Only	0	0	\$6,000	Dark - Not Lighted	Dry	No	No
421 422	88129629 88119957	4/23/2019 4/24/2019	Tuesday Wednesday	2:59 PM 10:00 PM	Rear End Left Turn	Property Damage Only Injury	0	0 2	\$350 \$7,000	Daylight Dark - Not Lighted	Dry Dry	No No	No No
423	88119959	4/25/2019	Thursday	8:40 PM	Other	Injury	0	1	\$8,000	Dark - Not Lighted	Dry	No	No
424	88103868	4/26/2019	Friday	2:35 PM	Rear End	Property Damage Only	0	0	\$2,500	Daylight	Dry	No	No
425 426	88103711	4/29/2019	Monday	7:57 AM	Rear End	Injury	0	3 0	\$19,000	Daylight	Dry	No	No
426	89087265 88126346	5/7/2019 5/11/2019	Tuesday Saturday	7:45 AM 4:22 PM	Rear End Rear End	Property Damage Only Property Damage Only	0	0	\$500 \$4,000	Dawn Daylight	Dry Dry	No No	No No
428	88132189	5/13/2019	Monday	5:15 PM	Rear End	Property Damage Only	0	0	\$6,000	Daylight	Wet	No	No
429	88129659	5/16/2019	Thursday	9:28 PM	Sideswipe	Property Damage Only	0	0	\$2,500	Dark - Lighted	Dry	No	No
430 431	88133273 88133277	5/21/2019 5/23/2019	Tuesday Thursday	7:45 AM 5:45 AM	Rear End Left Turn	Property Damage Only Injury	0	0 2	\$1,000 \$13,500	Daylight Dark - Lighted	Dry Dry	No No	No No
432	89087322	5/23/2019	Thursday	1:00 PM	Left Turn	Property Damage Only	0	0	\$1,500	Daylight	Dry	No	No
433	88143848	5/23/2019	Thursday	4:58 PM	Unknown	Injury	0	2	\$31,000	Daylight	Dry	No	No
434 435	88141153 88120000	5/25/2019 5/28/2019	Saturday Tuesday	2:40 AM 2:40 PM	Off Road Left Turn	Property Damage Only	0	0	\$3,800 \$11,000	Dark - Lighted	Dry Dry	No No	No No
436	88120000	5/28/2019	Tuesday	5:30 PM	Rear End	Property Damage Only Injury	0	2	\$800	Daylight Daylight	Dry	No	No
437	88129676	6/5/2019	Wednesday	10:39 PM	Left Turn	Injury	0	2	\$20,150	Dark - Lighted	Dry	No	No
438	88132267	6/8/2019	Saturday	3:50 PM	Rear End	Property Damage Only	0	0	\$3,700	Daylight	Dry	No	No
439 440	89087399 88155361	6/8/2019 6/11/2019	Saturday Tuesday	8:30 PM 2:20 AM	Off Road Off Road	Property Damage Only Injury	0	0 1	\$6,500 \$5,750	Dark - Lighted Dark - Not Lighted	Wet Dry	No No	No No
441	88135834	6/15/2019	Saturday	9:10 PM	Rear End	Injury	0	1	\$250	Dark - Not Lighted  Dark - Not Lighted	Dry	No	No
442	88140708	6/19/2019	Wednesday	6:26 AM	Off Road	Injury	0	1	\$20,000	Dawn	Dry	No	No
443	88133296	6/21/2019	Friday	11:00 PM	Rear End	Injury	0	2	\$14,500	Dark - Not Lighted	Dry	No	No
444 445	88158991 88139926	6/22/2019 6/26/2019	Saturday Wednesday	2:14 PM 5:15 PM	Rear End Left Turn	Injury Injury	0	1 7	\$150 \$15,000	Daylight Daylight	Dry Dry	No No	No No
446	88167348	7/1/2019	Monday	1:55 PM	Sideswipe	Injury	0	6	\$11,000	Daylight	Dry	No	No
447	88149772	7/6/2019	Saturday	4:00 AM	Left Turn	Property Damage Only	0	0	\$12,000	Dark - Not Lighted	Dry	No	No
448 449	88133780 89087556	7/8/2019 7/9/2019	Monday Tuesday	8:32 AM 9:39 AM	Rear End Sideswipe	Property Damage Only Property Damage Only	0	0	\$1,850 \$1,000	Daylight	Dry Dry	No No	No No
450	88169489	7/12/2019	Friday	2:43 PM	Rear End	Injury	0	4	\$7,600	Daylight Daylight	Dry	No	No
451	89087574	7/12/2019	Friday	4:18 PM	Rear End	Property Damage Only	0	0	\$550	Daylight	Dry	No	No
452 453	88155407 88133787	7/14/2019	Sunday	12:20 AM	Off Road	Property Damage Only	0	0	\$1,550	Dark - Not Lighted	Dry	No	No
454	88154388	7/23/2019 7/25/2019	Tuesday Thursday	10:33 AM 9:40 PM	Rear End Rear End	Property Damage Only Property Damage Only	0	0	\$500 \$2,000	Daylight Dark - Lighted	Dry Wet	No No	No No
455	88184076	8/12/2019	Monday	11:54 AM	Other	Injury	0	2	\$5,000	Daylight	Dry	No	No
456	88169537	8/12/2019	Monday	3:26 PM	Rear End	Property Damage Only	0	0	\$4,750	Daylight	Wet	No	No
457 458	88178215 88182159	8/17/2019 8/20/2019	Saturday Tuesday	12:10 PM 5:46 PM	Rear End Rear End	Property Damage Only Property Damage Only	0	0	\$5,000 \$100	Daylight Dawn	Dry Dry	No No	No No
459	88184925	8/21/2019	Wednesday	4:27 PM	Left Turn	Injury	0	2	\$13,000	Daylight	Dry	No	No
460	88178220	8/25/2019	Sunday	12:15 PM	Rear End	Property Damage Only	0	0	\$3,000	Daylight	Dry	No	No
461 462	88184713 88178221	8/25/2019 8/27/2019	Sunday	5:43 PM 7:40 AM	Left Turn	Property Damage Only	0	0	\$9,000	Daylight	Dry	No No	No No
462	88178221 88184928	8/27/2019	Tuesday Tuesday	7:40 AM 4:30 PM	Rear End Rear End	Property Damage Only Property Damage Only	0	0	\$4,500 \$4,500	Daylight Daylight	Dry Dry	No No	No No
464	88204882	8/29/2019	Thursday	9:53 PM	Left Turn	Property Damage Only	0	0	\$1,900	Daylight	Dry	No	No
465	88204883	8/29/2019	Thursday	10:50 PM	Left Turn	Injury	0	1	\$3,000	Dark - Lighted	Wet	No	No
466 467	88178223 88166910	8/30/2019 8/30/2019	Friday Friday	8:20 AM 11:49 AM	Rear End Other	Injury Injury	0	1 2	\$8,000 \$23,000	Daylight Daylight	Dry Dry	No No	No No
468	89087812	9/6/2019	Friday	5:07 PM	Rear End	Property Damage Only	0	0	\$25,000	Daylight	Dry	No	No
469	88167384	9/13/2019	Friday	9:37 PM	Rear End	Injury	0	6	\$4,000	Dark - Not Lighted	Dry	No	No
470 471	88186667 88212686	9/17/2019	Tuesday	3:45 PM 5:52 PM	Rear End	Property Damage Only	0	0	\$500 \$12,100	Daylight	Dry	No No	No No
471	88212686 88201198	9/18/2019 9/21/2019	Wednesday Saturday	5:52 PM 1:10 AM	Rear End Sideswipe	Property Damage Only Injury	0	0 1	\$12,100 \$8,000	Daylight Dark - Not Lighted	Dry Dry	No No	No No
473	88182757	9/23/2019	Monday	6:32 AM	Left Turn	Property Damage Only	0	0	\$1,000	Dark - Lighted	Dry	No	No
474	88186584	9/23/2019	Monday	10:24 AM	Left Turn	Injury	0	2	\$16,000	Daylight	Dry	No	No
475 476	85211023 88184112	9/23/2019 9/25/2019	Monday Wednesday	6:00 PM 11:01 AM	Rear End Unknown	Property Damage Only Property Damage Only	0	0	\$8,200 \$4,000	Daylight Daylight	Dry Dry	No No	No No
476	88184112 88184116	9/25/2019	Friday	8:15 AM	Off Road	Injury	0	1	\$10,000	Daylight Dawn	Dry Dry	No No	No No
478	88198676	10/6/2019	Sunday	4:50 AM	Sideswipe	Injury	0	2	\$500	Dark - Not Lighted	Dry	No	No
479	88208051	10/6/2019	Sunday	6:56 AM	Left Turn	Property Damage Only	0	0	\$10,000	Daylight	Wet	No	No
480 481	89391525 88221162	10/7/2019 10/9/2019	Monday Wednesday	2:54 PM 8:10 AM	Rear End Rear End	Property Damage Only Injury	0	0 1	\$1,500 \$3,900	Daylight Daylight	Dry Dry	No No	No No
482	85407983	10/9/2019	Wednesday	4:35 PM	Left Turn	Injury	0	3	\$8,900	Daylight	Dry	No	No
483	88221168	10/11/2019	Friday	10:15 AM	Sideswipe	Injury	0	1	\$9,050	Daylight	Dry	No	No
484 485	88212597 88227322	10/11/2019	Friday	4:01 PM	Left Turn	Injury Bronorty Damago Only	0	1 0	\$10,000	Daylight	Dry	No No	No No
400	0022/322	10/13/2019	Sunday	10:10 AM	Rear End	Property Damage Only	ı v	ı v	\$2,000	Daylight	Dry	No	No

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
486	88227253	10/14/2019	Monday	5:01 PM	Rear End	Property Damage Only	0	0	\$5,600	Daylight	Dry	No	No
487	88217138	10/19/2019	Saturday	6:27 PM	Rear End	Property Damage Only	0	0	\$3,750	Daylight	Dry	No	No
488	89391586	10/21/2019	Monday	6:05 PM	Rear End	Injury	0	1	\$300	Dusk	Dry	No	No
489	88221181	10/22/2019	Tuesday	11:40 AM	Rear End	Property Damage Only	0	0	\$500	Daylight	Dry	No	No
490	88225488	10/22/2019	Tuesday	11:00 PM	Head On	Fatality	1	1	\$8,000	Dark - Lighted	Dry	No	No
491	88202153	10/25/2019	Friday	3:25 PM	Rear End	Injury	0	1	\$5,000	Daylight	Wet	No	No
492	88211454	10/25/2019	Friday	8:00 PM	Rear End	Fatality	1	3	\$15,500	Dark - Not Lighted	Wet	No	No
493	88237236	10/25/2019	Friday	9:05 PM	Left Turn	Property Damage Only	0	0	\$15,000	Dark - Not Lighted	Wet	No	No
494	88221189	10/28/2019	Monday	11:00 PM	Left Turn	Injury	0	1	\$3,000	Dark - Not Lighted	Dry	No	No
495	88232644	10/29/2019	Tuesday	10:10 PM	Sideswipe	Property Damage Only	0	0	\$2,000	Dark - Lighted	Dry	No	No
496	88235886	11/1/2019	Friday	7:04 AM	Rear End	Injury	0	1	\$1,600	Daylight	Dry	No	No
497	88217808	11/8/2019	Friday	5:07 PM	Left Turn	Property Damage Only	0	0	\$2,900	Dusk	Wet	No	No
498	89391713	11/12/2019	Tuesday	5:00 PM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry	No	No
499	88248097	11/15/2019	Friday	12:50 PM	Unknown	Injury	0	1	\$2,500	Daylight	Dry	No	No
500	88227680	11/15/2019	Friday	7:02 PM	Left Turn	Injury	0	1	\$13,500	Dusk	Dry	No	No
501	89391704	11/19/2019	Tuesday	1:45 PM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry	No	No
502	88261105	11/30/2019	Saturday	11:43 AM	Off Road	Injury	0	1	\$19,000	Daylight	Dry	No	No
503	88248112	11/30/2019	Saturday	7:11 PM	Left Turn	Injury	0	6	\$7,000	Dark - Not Lighted	Dry	No	No
504	88258975	12/4/2019	Wednesday	12:07 PM	Rear End	Injury	0	1	\$5,500	Daylight	Dry	No	No
505	83753523	12/4/2019	Wednesday	4:10 PM	Sideswipe	Property Damage Only	0	0	\$10,000	Daylight	Dry	No	No
506	88260946	12/7/2019	Saturday	8:23 AM	Off Road	Injury	0	1	\$5,150	Dawn	Dry	No	No
507	89391786	12/9/2019	Monday	4:45 PM	Rear End	Property Damage Only	0	0	\$1,300	Daylight	Dry	No	No
508	88260951	12/13/2019	Friday	6:49 AM	Left Turn	Injury	0	3	\$10,000	Dawn	Wet	No	No
509	89391837	12/19/2019	Thursday	2:19 PM	Other	Property Damage Only	0	0	\$2,000	Daylight	Dry	No	No

### Crash Data Summary - Boggy Creek Rd/Simpson Rd Intersection

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	6	13	13	24	22	81	47.09%
Head On	0	0	0	0	0	0	0.00%
Sideswipe	1	0	1	0	1	8	1.74%
RollOver	1	0	1	0	0	2	1.16%
Angle	0	0	0	1	0	1	0.58%
Left Tum	13	14	9	14	13	09	34.88%
Right Turn	8	1	1	0	0	ιc	2.91%
Off Road	0	2	0	4	1	7	4.07%
Pedestrian & Biclycle	0	0	0	0	0	0	0.00%
Animal	0	0	0	0	0	0	0.00%
Other	1	4	1	4	3	13	7.56%
Total	28	34	23	47	40	172	100%

Crash Severity	2015	2016	2017	8102	2019	Total	Proportion
Fatality	0	0	0	0	0	0	%0
Injury	14	15	10	24	19	82	48%
Property Damage Only	14	19	13	23	21	06	52%
Total	28	34	23	47	40	172	100%

d Proportion	%6			%0	+	Pro								
2019   Total	2 16	38 156	0 0	40 172	2019 Total	20 89	2 6	1 8	17 69	40 172	2019 Total	0 2	0 0	,
2018	9	41	0	47	2018	28	1	r.	13	47	2018	2	0	2
2017	3	20	0	23	2017	16	0	0	7	23	2017	0	0	U
2016	4	30	0	34	2016	16	1	1	16	34	2016	0	0	U
2015	1	27	0	28	2015	6	2	1	16	28	2015	0	0	U
Pavement Condition	Wet	Dry	Slippery	Total	Light Condition	Daylight	Dusk	Dawn	Dark	Total	Under the Influence	Alcohol	Drugs	Total

	d Anadoud	
	Rear End  Read On  Steewhope  Rollover  Rallover  Off Road  Pedestrian & Bichycle	■ Wet □ Dry ■ Slippery
Crash Type	Right Tum, 3% Other, 8%  Lef Tum  35%  Rear End, 47%  Angle, 1%  Angle, 1%	Pavement Condition  wet  wet  prv  prv  prv

**Light Condition** 

■ Fatality
■ Injury
■ Property Damage Only

Injury 48%

**Crash Severity** 

■ Daylight
■ Dusk
■ Dawn
■ Dark

Daylight 52%

Dark 40%

# Crash Data Summary - Boggy Creek Rd/East Lake Point Dr Intersection

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	0	0	0	0	0	%0
Head On	0	0	0	0	0	0	%0
Sideswipe	0	0	0	0	0	0	%0
RollOver	0	0	0	0	0	0	%0
Angle	0	0	0	0	0	0	%0
Left Tum	0	0	0	0	1	1	20%
Right Turn	0	0	0	0	0	0	%0
Off Road	0	0	0	0	0	0	%0
edestrian & Biclycle	0	0	0	0	0	0	%0
Animal	0	0	0	0	0	0	%0
Other	0	0	0	1	0	1	20%
Total	0	0	0	1	1	2	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	%0
Injury	0	0	0	0	1	1	20%
Property Damage Only	0	0	0	1	0	1	20%
Total	0	0	0	1	1	2	100%

TOTAL TOTAL	%0 <b>0</b>	2 100%	%0 <b>0</b>		2 100%	2 Total Pre	2 Total 1	Total 1	Total 1 0 0	Total 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total 1 0 0 0 0 2 2	Total 1 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total  Total  1  0 0 1 1  1 1 0 0 0 0 0 0 0 0 0 0 0
	0	1	0	1		8 2019							
	0	1	0	1		7 2018							
	0	0	0	0		5 2017							
	0	0	0	0		2016							
	0	0	0	0		2015							
THE CONTRICTOR	Wet	Dry	Slippery	Total		Light Condition	Light Condition Daylight	Light Condition Daylight Dusk	Light Condition Daylight Dusk Dawn	Light Condition Daylight Dusk Dawn Dark	Light Condition Daylight Dusk Dawn Dark Total	Light Condition Daylight Dausk Dawn Dawn Dawn Dark	Light Condition Daylight Days Dawn Dawn Dark Total Under the Influence Alcohol

Total

	Rear End Head On Sidewipe Rollover Left Turn Reght Turn Coff Road Pedestrian & Bickyde	■ Wet ■ Silppery
Crash Type	Left Tum 50%	Pavement Condition
	Other, 50%	Pa

	■ Fatality ■ Injury ■ Property Damage Only		■ Daylight ■ Dusk ■ Dawn ■ Dawn ■ Dawn	
Crash Severity	Xxxx Xxxx Xxxx Xxxx Xxxx Xxxx Xxxx Xxx	Light Condition	Dayight 50%	1
Cras	Property Damage SON	Light	Dark S0%	
	Ade.		oe ry	

### Crash Data Summary - Boggy Creek Rd/Nele Rd Intersection

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	1	0	2	2	ĸ	63%
Head On	0	0	0	0	0	0	%0
leswipe	0	0	0	0	1	1	13%
RollOver	0	0	0	0	0	0	%0
Angle	0	0	0	0	0	0	%0
Left Turn	0	0	1	0	0	1	13%
Right Turn	0	0	0	0	0	0	%0
Off Road	0	0	0	0	0	0	%0
destrian & Biclycle	0	0	0	0	0	0	%0
Animal	0	1	0	0	0	1	13%
Other	0	0	0	0	0	0	%0
Total	0	2	1	2	3	æ	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	%0
Injury	0	0	1	0	0	1	13%
Property Damage Only	0	2	0	2	3	7	88%
Total	0	2	1	2	3	8	100%

					_	_								
Proportion	13%	88%	%0	100%	Proportion	20%	%0	38%	13%	100%	Proportion	%0	0.00%	0%
Total	1	^	0	8	Total	4	0	8	1	8	Total	0	0	0
2019	0	3	0	3	2019	1	0	2	0	3	2019	0	0	0
2018	0	2	0	2	2018	2	0	0	0	2	2018	0	0	0
2017	0	1	0	1	2017	0	0	1	0	1	2017	0	0	0
2016	1	1	0	2	2016	1	0	0	1	2	2016	0	0	0
2015	0	0	0	0	2015	0	0	0	0	0	2015	0	0	0
Pavement Condition	Wet	Dry	Slippery	Total	Light Condition	Daylight	Dusk	Dawn	Dark	Total	Under the Influence	Alcohol	Drugs	Total

	Rear End  Head On  Sideswipe  ReliOver  ReliOver  Reli Tum  Off Read  Pedestrian & Bick/de	■ Wet ■ Dry ■ Slippery
Crash Type	Rear End, 63%	Pavement Condition  wet  12%  Bay  assx
Allindi, 15%	Left Tum 13% Sideswipe 13%	Pay

Light Condition

■ Fatality
■ Injury
■ Property Damage Only

Property Damage Only 88%

**Crash Severity** 

Injury 12% ■ Daylight
■ Dusk
■ Dawn
■ Dark

Daylight 50%

> Dawn 37%

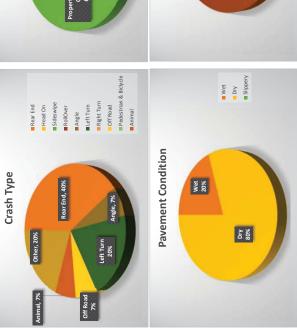
Dark 13%

# Crash Data Summary - Boggy Creek Rd/Springlake Village Blvd Intersection

rash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	1	1	0	4	9	40%
Head On	0	0	0	0	0	0	%0
swipe	0	0	0	0	0	0	%0
lOver	0	0	0	0	0	0	%0
Angle	0	0	0	1	0	1	7%
t Turn	2	0	0	0	1	8	20%
nt Turn	0	0	0	0	0	0	%0
Off Road	1	0	0	0	0	1	2%
Pedestrian & Biclycle	0	0	0	0	0	0	%0
Animal	0	0	0	0	1	1	7%
Other	1	0	0	1	1	8	20%
Total	4	1	1	2	7	15	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	%0
Injury	3	0	1	1	1	9	40%
Property Damage Only	1	1	0	1	9	6	%09
Total	4	1	1	2	7	15	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	0	0	0	1	2	3	20%
Dry	4	1	1	1	53	12	%08
Slippery	0	0	0	0	0	0	%0
Total	4	1	1	2	7	15	100%
Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	1	1	1	2	4	6	%09
Dusk	0	0	0	0	0	0	%0
Dawn	0	0	0	0	0	0	%0
Dark	3	0	0	0	3	9	40%
Total	4	1	1	2	7	15	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	%0
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	0	0	0	%0



■ Fatality ■ Injury ■ Property Damage Only	Downight  Down  Down  Down
Crash Severity Property Damage nijury Only 60%	Light Condition  Davight  Gov.  Davight  Gov.

# Crash Data Summary - Boggy Creek Rd/Turnberry Blvd/Austin-Tindall Intersection

	Crash Type	2015	2016	2017	2018	2019	Total	Proportion
_	Rear End	1	2	3	9	4	16	%02
	Head On	0	0	0	0	1	1	4%
	Sideswipe	0	0	0	0	0	0	%0
	RollOver	0	0	0	0	0	0	%0
	Angle	0	0	1	0	0	1	4%
	Left Turn	0	1	1	1	0	ю	13%
	Right Turn	0	0	0	0	0	0	%0
	Off Road	0	0	0	1	0	1	4%
	Pedestrian & Biclycle	0	0	0	0	0	0	%0
	Animal	0	0	0	0	0	0	%0
	Other	0	0	0	1	0	1	4%
_	Total	1	3	5	6	ĸ	23	100%
1								

4%	39%	22%	100%	
1	6	13	23	
1	1	3	5	
0	52	4	6	
0	2	8	5	
0	1	2	3	
0	0	1	1	
Fatality	Injury	Property Damage Only	Total	
	0 0 0 0 1 1	0 0 0 0 1 1	0 0 0 0 1 0 0 0 0 0 1 Only 1 2 3 4 3 1	Only 1 3 5 9 5 23

2015	2	2016	2017	2018	2019	Iotal	Proportion
0 1	_		0	0	0	1	4%
1 2	2		Ŋ	6	Ŋ	22	%96
0 0	0	_	0	0	0	0	%0
1 3	3		5	6	5	23	100%
2015 2016	910		2017	2018	2019	Total	Proportion
1 3	3		3	7	3	17	74%
0 0	0		0	0	0	0	%0
0 0	0		0	1	1	2	%6
0 0	0		2	1	1	4	17%
1 3	ю		5	6	5	23	100%
2015 2016	910		2017	2018	2019	Total	Proportion
0 0	0		1	0	0	1	4%
0 0	0		0	0	0	0	0.00%
0 0	0		1	0	0	1	4%

Crash Severity  And the state of the state o	Light Condition Dawn Dawn Dawlight 74%
Crash Type  Left Turn  1.3%  Angle, 4%  Head On, 4%  Rear End, 70%  Estleswipe  # Rollover  # Angle  # Animal	Pavement Condition  Wet  4%  By  Bry  Bry  Bry  Bry  Bry  Bry  Bry

■ Daylight
■ Dusk
■ Dawn
■ Dark

■ Fatality
■ Injury
■ Property Damage Only

## Crash Data Summary - Boggy Creek Rd/N Pointe Blvd Intersection

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	0	0	1	0	1	14%
Head On	0	0	0	0	0	0	%0
Sideswipe	0	0	0	0	0	0	%0
RollOver	0	0	1	1	0	2	29%
Angle	0	0	0	0	0	0	%0
Left Turn	0	0	0	1	1	2	29%
Right Turn	0	0	0	0	0	0	%0
Off Road	1	0	0	0	0	1	14%
Pedestrian & Biclycle	0	0	0	0	0	0	%0
Animal	0	0	0	0	0	0	%0
Other	0	0	0	1	0	1	14%
Total	1	0	1	4	1	7	100%

Crash Severity	2015	2016	2017	8102	2019	Total	Proportion
Fatality	0	0	0	0	0	0	%0
Injury	1	0	0	2	0	8	43%
Property Damage Only	0	0	1	2	1	4	22%
Total	1	0	1	4	1	4	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
0		0	0	1	0	1	14%
1		0	1	8	1	9	%98
0		0	0	0	0	0	%0
1		0	1	4	1	2	100%
	]						
2015		2016	2017	2018	2019	Total	Proportion
1		0	0	4	1	9	%98
0		0	0	0	0	0	%0
0		0	0	0	0	0	%0
0		0	1	0	0	1	14%
1		0	1	4	1	7	100%
2015		2016	2017	2018	2019	Total	Proportion
0		0	0	0	0	0	%0
0		0	0	0	0	0	0.00%

Total

Crash Severity Property Damage 177% 577%	Light Condition  Davight  Baylight  Baylight
Crash Type    Rear End   143%   Elead on     Rear End   144%   Elead on     Rear End   Elead on	Pavement Condition

Daylight
Dusk
Dawn
Dawn

■ Fatality
■ Injury
■ Property Damage Only

### Crash Data Summary - Boggy Creek Rd/Timber Ln Intersection

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	1	0	1	0	0	2	40%
Head On	0	0	0	0	0	0	%0
Sideswipe	0	0	0	0	0	0	%0
RollOver	0	0	0	0	0	0	%0
Angle	0	0	0	0	0	0	%0
Left Tum	0	0	0	0	0	0	%0
Right Turn	0	0	0	0	0	0	%0
Off Road	0	0	0	1	0	1	20%
Pedestrian & Biclycle	0	0	0	0	0	0	%0
Animal	0	0	1	0	0	1	20%
Other	0	1	0	0	0	1	20%
Total	1	1	2	1	0	æ	100%

100%	5	0	1	2	1	1	Total
%08	4	0	1	1	1	1	Property Damage Only
20%	1	0	0	1	0	0	Injury
%0	0	0	0	0	0	0	Fatality
Proportion	Total	2019	2018	2017	2016	2015	Crash Severity

lon					ion						ion			
Proportion	%0	100%	%0	100%	Proportion	%09	%0	%0	40%	100%	Proportion	%0	0.00%	%0
Total	0	ī.	0	5	Total	3	0	0	2	5	Total	0	0	0
2019	0	0	0	0	2019	0	0	0	0	0	2019	0	0	0
2018	0	1	0	1	2018	0	0	0	1	1	2018	0	0	0
2017	0	2	0	2	2017	2	0	0	0	2	2017	0	0	0
2016	0	1	0	1	2016	1	0	0	0	1	2016	0	0	0
2015	0	1	0	1	2015	0	0	0	1	1	2015	0	0	0
Pavement Condition	Wet	Dry	Slippery	Total	Light Condition	Daylight	Dusk	Dawn	Dark	Total	Under the Influence	Alcohol	Drugs	Total

Rear End Head On	Sideswipe Rollover Angle	■Right Turn Off Road ■Pedestrian & Bickycle ■Animal	■ Wet ■ Dry ■ Slippery
Crash Type	Rear End, 40%	Off Road 20%	Pavement Condition

Light Condition

Daylight
Dusk
Dawn
Dawn

Daylight 60%

Dark 40%

■ Fatality
■ Injury
■ Property Damage Only

**Crash Severity** 

Injury 20%

## Crash Data Summary - Boggy Creek Rd/Fells Cove Blvd Intersection

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	0	0	1	1	2	40%
Head On	0	0	0	0	0	0	%0
Sideswipe	0	0	0	0	0	0	%0
RollOver	0	0	0	0	0	0	%0
Angle	0	0	0	0	0	0	%0
Left Tum	0	0	1	0	0	1	20%
Right Turn	0	0	0	0	0	0	%0
Off Road	0	0	0	0	0	0	%0
Pedestrian & Biclycle	0	0	0	0	0	0	%0
Animal	0	0	0	1	0	1	20%
Other	0	0	0	1	0	1	20%
Total	0	0	1	3	1	5	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	%0
Injury	0	0	1	2	0	8	%09
Property Damage Only	0	0	0	1	1	7	40%
Total	0	0	1	8	1	5	100%

Favement Condition	510Z	2016	2017	2018	2019	lotal	Proportion	
Wet	0	0	0	0	0	0	%0	
Dry	0	0	1	6	1	ιc	100%	
Slippery	0	0	0	0	0	0	%0	
Total	0	0	1	8	1	5	100%	
Light Condition	2015	2016	2017	2018	2019	Total	Proportion	
Daylight	0	0	0	2	1	3	%09	
Dusk	0	0	0	0	0	0	%0	
Dawn	0	0	0	0	0	0	%0	
Dark	0	0	1	1	0	7	40%	
Total	0	0	1	3	1	5	100%	
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion	
Alcohol	0	0	0	0	0	0	%0	
Drugs	0	0	0	0	0	0	0.00%	

Total

	Property (	
	Rear End Head On Sideswipe Rollover Angle Left Turn Right Turn Off Road Pedestrian & Bickycle Animal	■ Wet ■ Dry ■ Slippery
Crash Type	Other, 20% Rear End, 40% Left Turn 20%	Pavement Condition

**Light Condition** 

Daylight
Dusk
Dawn
Dawn

Daylight 60%

Dark 40%

■ Fatality
■ Injury
■ Property Damage Only

Injury 60%

**Crash Severity** 

## Crash Data Summary - Boggy Creek Rd/Narcoossee Rd Intersection

37%	7 % %	1% 7% 0% 2% 30%	1% 7% 2% 30% 8% 8%	1
46	- & 0	3 3 3 3	8 0 3 37 10	8 0 0 3 3 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
12	2 0	2 0 0 11	2 0 0 111 3	2 0 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0	н с	10 2 10	1 0 1 0 4	1 0 10 0 1 0
12 0	e c	0 1 7 7	1 1 7 1 1 0 3	0 0 1 1 1 2 1 0 3
0 22	2 0	0 0 0 2	1 0 0 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
5 0 0	_	0 0 4	0 0 4 0 1	0 0 0 4 0 11 0 0
			0 0 4 0 1.	
Rear End Head On Sideswipe		wer de urn	ver gle urn Turn oad	RollOver Angle Left Turn Right Turn Off Road Pedestrian & Biclycle Animal

	Total	11	14	25	35	38	123	100%
	Crash Severity	2015	2016	2012	2018	2019	Total	Proportion
	Fatality	0	0	0	0	0	0	%0
	Injury	5	6	8	15	16	53	43%
_	Property Damage Only	9	5	17	20	22	20	22%
	Total	11	14	25	32	38	123	300L

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	2	2	4	3	2	18	15%
Dry	6	12	21	32	31	105	85%
Slippery	0	0	0	0	0	0	%0
Total	11	14	25	35	38	123	100%
Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	9	8	16	24	56	80	%59
Dusk	0	0	1	2	6	9	2%
Dawn	0	1	1	0	1	e	2%
Dark	5	5	7	6	8	34	28%
Total	11	14	25	35	38	123	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	%0
Drugs	0	0	0	0	0	0	%0

	■ Rear End	Head On	Sideswipe	Angle	■ Left Turn	Right Turn	Off Road	■ Pedestrian & Bickycle	■ Animal	■ Wet ■ Dry ■ Slippery	
Crash Type	Other, 12%		Rear End, 37%			Sideswipe 7%	Head On, 1%		Angle, 2%	Pavement Condition  wet  15%  By  85%	
Pedestrian &	Biclycle, 2%			ight Turn, 1%		Left Turn	30%				

■ FataiRy ■ Injury ■ Property Damage Only	■ Daylight ■ Daylight ■ Dayn ■ Dayn
Crash Severity Property Damage Only 57%	Light Condition  Dusk 28% 5% Dawn 68%

District	County	Crash Rate Category	Average Crash Rate	Influence Area Crashes	Crash Count	Millions Entering Vehicles	Total Centerline Miles
2	Orange	Interstate Urban	1.58193	1	11391	7201	123
5	Orange	Interstate Rural	0	0	0	0	0
2	Orange	Toll Road Urban	0.57793	75	5202	9131	457
2	Orange	Toll Road Rural	0.47922	72	601	1265	86
2	Orange	Urban Other Limited Access	0	0	0	0	0
2	Orange	Rural Other Limited Access	0	0	0	0	0
2	Orange	Ramp Urban	0	3074	488	151	74
2	Orange	Ramp Rural	0	7376	4891	1323	200
2	Orange	Urban 2-3Ln 2Wy Divd Rasd	9.49833	180	200	40	∞
2	Orange	Urban 2-3Ln 2Wy Divd Pavd	5.42408	188	220	75	15
2	Orange	Urban 2-3Ln 2Wy Undivd	3.1194	91	228	102	27
2	Orange	Suburban 2-3Ln 2Wy Divd Rasd	0.15006	0	æ	20	ဇ
2	Orange	Suburban 2-3Ln 2Wy Divd Pavd	2.46996	130	685	330	58
2	Orange	Suburban 2-3Ln 2Wy Undivd	0.44688	1	211	474	91
2	Orange	Rural 2-3Ln 2Wy Divd Rasd	2.86284	34	6	15	2
2	Orange	Rural 2-3Ln 2Wy Divd Pavd	0	0	0	1	0
2	Orange	Rural 2-3Ln 2Wy Undivd	0	0	0	2	13
2	Orange	Urban 4-5Ln 2Wy Divd Rasd	3.01888	1427	7217	2863	256
2	Orange	Urban 4-5Ln 2Wy Divd Pavd	5.33896	1269	6387	1434	129
2	Orange	Urban 4-5Ln 2Wy Undivd	5.90713	129	1179	221	28
2	Orange	Suburban 4-5Ln 2Wy Divd Rasd	2.52439	435	4649	2014	161
2	Orange	Suburban 4-5Ln 2Wy Divd Pavd	2.07242	25	432	221	17
5	Orange	Suburban 4-5Ln 2Wy Undivd	0.40877	0	33	7	1
2	Orange	Rural 4-5Ln 2Wy Divd Rasd	0.6263	4	202	813	143
2	Orange	Rural 4-5Ln 2Wy Divd Pavd	0	0	0	4	1
5	Orange	Rural 4-5Ln 2Wy Undivd	0	0	0	0	0
2	Orange	Urban 6+Ln 2Wy Divd Rasd	4.69556	3022	20316	4970	298
2	Orange	Urban 6+Ln 2Wy Divd Pavd	5.95528	114	631	125	∞
2	Orange	Urban 6+Ln 2Wy Undivd	0	0	0	0	0
5	Orange	Suburban 6+Ln 2Wy Divd Rasd	4.27655	984	5749	1574	06
2	Orange	Suburban 6+Ln 2Wy Divd Pavd	1.69082	4	10	∞	П

District	County	Crash Rate Category	Average Crash Rate	Influence Area Crashes	Crash Count	Millions Entering Vehicles	Total Centerline Miles
2	Orange	Suburban 6+Ln 2Wy Undivd	0	0	0	0	0
2	Orange	Rural 6+Ln 2Wy Divd Rasd	0	0	0	0	0
2	Orange	Rural 6+Ln 2Wy Divd Pavd	0	0	0	0	0
2	Orange	Rural 6+Ln 2Wy Undivd	0	0	0	0	0
2	Orange	Urban One Way	5.91854	340	775	188	40
2	Orange	Suburban One Way	2.53794	43	158	79	12
2	Orange	Rural One Way	0.62972	0	1	2	2
2	Orange	Undefined	0	648	124	0	0
2	Orange	Not Coded	2.15379	2381	72265	34658	2656
2	Osceola	Interstate Urban	0.66776	2	1044	1566	39
2	Osceola	Interstate Rural	0	0	0	0	0
2	Osceola	Toll Road Urban	0	0	0	0	0
2	Osceola	Toll Road Rural	0	0	0	0	0
2	Osceola	Urban Other Limited Access	0	0	0	0	0
2	Osceola	Rural Other Limited Access	0	0	0	0	0
2	Osceola	Ramp Urban	0	75	09	0	0
2	Osceola	Ramp Rural	0	200	232	191	91
2	Osceola	Urban 2-3Ln 2Wy Divd Rasd	0	0	0	16	က
2	Osceola	Urban 2-3Ln 2Wy Divd Pavd	0	0	0	11	2
2	Osceola	Urban 2-3Ln 2Wy Undivd	0.04723	0	1	21	6
2	Osceola	Suburban 2-3Ln 2Wy Divd Rasd	0.99818	0	22	22	2
2	Osceola	Suburban 2-3Ln 2Wy Divd Pavd	0.99402	16	207	224	38
2	Osceola	Suburban 2-3Ln 2Wy Undivd	0.3045	2	120	401	87
2	Osceola	Rural 2-3Ln 2Wy Divd Rasd	2.21141	0	2	2	1
2	Osceola	Rural 2-3Ln 2Wy Divd Pavd	1.50624	12	19	21	10
2	Osceola	Rural 2-3Ln 2Wy Undivd	0.89891	44	310	394	319
2	Osceola	Urban 4-5Ln 2Wy Divd Rasd	2.7531	79	459	195	32
2	Osceola	Urban 4-5Ln 2Wy Divd Pavd	5.90373	141	218	61	7
2	Osceola	Urban 4-5Ln 2Wy Undivd	0	0	0	0	0
2	Osceola	Suburban 4-5Ln 2Wy Divd Rasd	2.07257	61	1402	902	54
2	Osceola	Suburban 4-5Ln 2Wy Divd Pavd	2.36369	22	340	153	15

District	County	Crash Rate Category	Average Crash Rate	Influence Area Crashes	Crash Count	Millions Entering Vehicles	Total Centerline Miles
5	Osceola	Suburban 4-5Ln 2Wy Undivd	0	0	0	0	0
5	Osceola	Rural 4-5Ln 2Wy Divd Rasd	0.94247	3	345	369	121
2	Osceola	Rural 4-5Ln 2Wy Divd Pavd	0	0	0	0	0
2	Osceola	Rural 4-5Ln 2Wy Undivd	0	0	0	0	0
2	Osceola	Urban 6+Ln 2Wy Divd Rasd	3.85824	694	4057	1231	70
2	Osceola	Urban 6+Ln 2Wy Divd Pavd	2.70776	0	26	10	0
2	Osceola	Urban 6+Ln 2Wy Undivd	0	0	0	0	0
2	Osceola	Suburban 6+Ln 2Wy Divd Rasd	1.96199	82	1535	824	48
2	Osceola	Suburban 6+Ln 2Wy Divd Pavd	0.64956	0	9	6	0
2	Osceola	Suburban 6+Ln 2Wy Undivd	0	0	0	0	0
2	Osceola	Rural 6+Ln 2Wy Divd Rasd	0	0	0	0	0
2	Osceola	Rural 6+Ln 2Wy Divd Pavd	0	0	0	0	0
2	Osceola	Rural 6+Ln 2Wy Undivd	0	0	0	0	0
2	Osceola	Urban One Way	0	0	0	0	0
2	Osceola	Suburban One Way	0	0	0	0	0
2	Osceola	Rural One Way	0	0	0	0	0
2	Osceola	Undefined	0	0	19	0	0
2	Osceola	Not Coded	1.68724	419	10427	6428	950
2	Districtwide	Interstate Urban	0.86661	14	24670	28483	286
2	Districtwide	Interstate Rural	0.51719	13	3654	7090	409
2	Districtwide	Toll Road Urban	0.57613	75	5214	9180	465
2	Districtwide	Toll Road Rural	0.48436	11	632	1328	111
2	Districtwide	Urban Other Limited Access	0.49471	1	279	266	39
2	Districtwide	Rural Other Limited Access	0	0	0	0	16
2	Districtwide	Ramp Urban	0	5323	741	195	66
2	Districtwide	Ramp Rural	0	12128	8315	2297	1021
2	Districtwide	Urban 2-3Ln 2Wy Divd Rasd	4.80499	228	491	150	28
2	Districtwide	Urban 2-3Ln 2Wy Divd Pavd	4.40418	466	927	316	63
2	Districtwide	Urban 2-3Ln 2Wy Undivd	3.09642	525	299	385	131
2	Districtwide	Suburban 2-3Ln 2Wy Divd Rasd	3.65661	114	511	171	36
2	Districtwide	Suburban 2-3Ln 2Wy Divd Pavd	1.83197	487	2899	1848	372

District	County	Crash Rate Category	Average Crash Rate	Influence Area Crashes	Crash Count	Millions Entering Total Centerline Vehicles Miles	Total Centerline Miles
2	Districtwide	Suburban 2-3Ln 2Wy Undivd	0.77795	187	2455	3396	1014
2	Districtwide	Rural 2-3Ln 2Wy Divd Rasd	2.34162	34	28	39	11
2	Districtwide	Rural 2-3Ln 2Wy Divd Pavd	1.98514	115	821	472	148
2	Districtwide	Rural 2-3Ln 2Wy Undivd	0.62681	125	2408	4041	1897
2	Districtwide	Urban 4-5Ln 2Wy Divd Rasd	2.8798	4398	23375	9644	1060
2	Districtwide	Urban 4-5Ln 2Wy Divd Pavd	4.10634	3311	14018	4220	475
2	Districtwide	Urban 4-5Ln 2Wy Undivd	5.50865	171	1510	305	45
2	Districtwide	Suburban 4-5Ln 2Wy Divd Rasd	1.61444	1155	19331	12689	1466
2	Districtwide	Suburban 4-5Ln 2Wy Divd Pavd	1.92423	193	3016	1668	171
2	Districtwide	Suburban 4-5Ln 2Wy Undivd	2.86388	48	157	72	6
2	Districtwide	Rural 4-5Ln 2Wy Divd Rasd	0.74846	71	2518	3459	783
2	Districtwide	Rural 4-5Ln 2Wy Divd Pavd	0.74941	0	92	123	33
2	Districtwide	Rural 4-5Ln 2Wy Undivd	0	0	0	0	0
2	Districtwide	Urban 6+Ln 2Wy Divd Rasd	3.47761	5134	37670	12308	793
2	Districtwide	Urban 6+Ln 2Wy Divd Pavd	3.94878	436	3488	994	72
2	Districtwide	Urban 6+Ln 2Wy Undivd	0	0	0	0	0
2	Districtwide	Suburban 6+Ln 2Wy Divd Rasd	3.16496	1201	9972	3530	216
2	Districtwide	Suburban 6+Ln 2Wy Divd Pavd	3.1381	13	222	75	9
2	Districtwide	Suburban 6+Ln 2Wy Undivd	0	0	0	0	0
2	Districtwide	Rural 6+Ln 2Wy Divd Rasd	3.56343	0	43	12	1
2	Districtwide	Rural 6+Ln 2Wy Divd Pavd	0	0	0	0	0
2	Districtwide	Rural 6+Ln 2Wy Undivd	0	0	0	0	0
2	Districtwide	Urban One Way	5.65786	912	2121	536	105
2	Districtwide	Suburban One Way	2.01423	75	429	250	52
2	Districtwide	Rural One Way	0.44943	0	1	2	2
2	Districtwide	Undefined	0	1403	407	0	0
2	Districtwide	Not Coded	1.62046	4887	173112	109844	12136
Statewide		Interstate Urban	0.97609	917	139702	144063	4096
Statewide		Interstate Rural	0.45743	32	20894	45747	3389
Statewide		Toll Road Urban	0.76697	792	40644	54025	2444
Statewide		Toll Road Rural	0.44367	15	4030	9117	902

District	County	Crash Rate Category	Average Crash Rate	Influence Area Crashes	Crash Count	Millions Entering Total Centerline Vehicles Miles	Total Centerline Miles
Statewide		Urban Other Limited Access	1.97012	3727	23023	13578	615
Statewide		Rural Other Limited Access	1.04001	22	22	42	30
Statewide		Ramp Urban	0	61864	17665	4280	1120
Statewide		Ramp Rural	0	60290	40246	10184	4426
Statewide		Urban 2-3Ln 2Wy Divd Rasd	7.43575	2749	3109	788	186
Statewide		Urban 2-3Ln 2Wy Divd Pavd	6.05442	4525	11489	2645	616
Statewide		Urban 2-3Ln 2Wy Undivd	3.65431	2292	5983	2264	859
Statewide		Suburban 2-3Ln 2Wy Divd Rasd	3.58864	996	2492	964	226
Statewide		Suburban 2-3Ln 2Wy Divd Pavd	2.7246	4499	20773	9275	2027
Statewide		Suburban 2-3Ln 2Wy Undivd	1.20203	2013	18758	17280	5828
Statewide		Rural 2-3Ln 2Wy Divd Rasd	1.31682	172	292	561	150
Statewide		Rural 2-3Ln 2Wy Divd Pavd	1.80882	741	4402	2843	981
Statewide		Rural 2-3Ln 2Wy Undivd	0.76849	1465	19611	27425	18338
Statewide		Urban 4-5Ln 2Wy Divd Rasd	3.63399	22538	110992	36745	4333
Statewide		Urban 4-5Ln 2Wy Divd Pavd	5.88464	22572	94769	19940	2392
Statewide		Urban 4-5Ln 2Wy Undivd	6.81454	2556	15813	2696	449
Statewide		Suburban 4-5Ln 2Wy Divd Rasd	1.72964	5869	79934	49607	5573
Statewide		Suburban 4-5Ln 2Wy Divd Pavd	2.39669	1201	9729	4560	451
Statewide		Suburban 4-5Ln 2Wy Undivd	1.84544	54	340	213	41
Statewide		Rural 4-5Ln 2Wy Divd Rasd	0.71456	421	12840	18558	4554
Statewide		Rural 4-5Ln 2Wy Divd Pavd	0.57728	2	347	610	176
Statewide		Rural 4-5Ln 2Wy Undivd	2.19644	0	39	18	6
Statewide		Urban 6+Ln 2Wy Divd Rasd	4.71425	48952	297452	73480	4703
Statewide		Urban 6+Ln 2Wy Divd Pavd	5.27306	3544	20458	4552	323
Statewide		Urban 6+Ln 2Wy Undivd	65.01849	27	307	2	1
Statewide		Suburban 6+Ln 2Wy Divd Rasd	2.71114	5888	69922	27962	1697
Statewide		Suburban 6+Ln 2Wy Divd Pavd	1.11785	204	2355	2289	95
Statewide		Suburban 6+Ln 2Wy Undivd	0	0	9	0	0
Statewide		Rural 6+Ln 2Wy Divd Rasd	0.86296	9	194	232	55
Statewide		Rural 6+Ln 2Wy Divd Pavd	0	∞	0	0	0
Statewide		Rural 6+Ln 2Wy Undivd	0	0	0	0	0

District	County	Crash Rate Category	Average Crash Rate	Influence Area Crashes	Crash Count	Millions Entering Total Centerline Vehicles Miles	Total Centerline Miles
Statewide		Urban One Way	10.84173	10463	29815	3715	955
Statewide		Suburban One Way	2.23848	2092	5130	3226	535
Statewide		Rural One Way	3.78566	655	412	282	139
Statewide		Undefined	0	9619	5078	0	0
Statewide		Not Coded	1.95757	33013	1129342	593773	72715

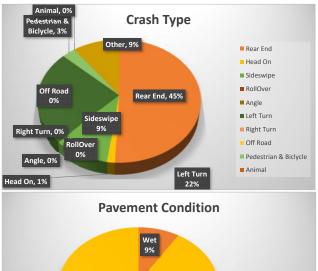
### **2020Crash Data Summary**

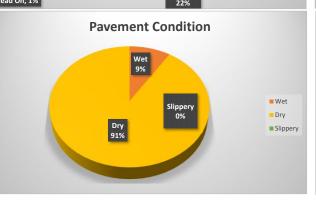
Crash Type	2020	Proportion
Rear End	35	45%
Head On	1	1%
Sideswipe	7	9%
RollOver	0	0%
Angle	0	0%
Left Turn	17	22%
Right Turn	0	0%
Off Road	8	10%
Pedestrian & Biclycle	2	3%
Animal	0	0%
Other	7	9%
Total	77	100%

Crash Severity	2020	Proportion
Fatality	1	1%
Injury	20	26%
Property Damage Only	56	73%
Total	77	100%

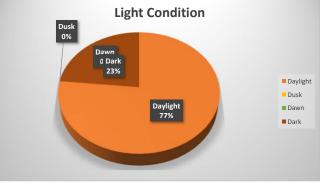
Pavement Condition	2020	Proportion
Wet	7	9%
Dry	70	91%
Slippery	0	0%
Total	77	100%

Light Condition	2020	Proportion
Daylight	59	77%
Dusk	0	0%
Dawn	0	0%
Dark	18	23%
Total	77	100%









### 2020 Crash Data Summary

N	o. Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry
1	883XXXXX	11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
2		3/27/2020	Friday	11:16 AM	Rear End	Property Damage Only	0	0	\$4,000	Daylight	Dry
3		8/30/2020	Sunday	9:36 PM	Other	Property Damage Only	0	0	\$6,000	Dark - Lighted	Dry
5		2/18/2020	Tuesday	8:35 AM	Rear End	Injury	0	2	\$4,000	Daylight	Dry
6		1/16/2020 10/21/2020	Thursday Wednesday	6:40 AM 3:00 PM	Pedestrian Left Turn	Fatality	1 0	1 0	\$5,000 \$1,000	Dark - Not Lighted	Dry
7		11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only Property Damage Only	0	0	\$1,000 \$4,500	Daylight Daylight	Dry Dry
8		7/2/2020	Thursday	7:08 AM	Other	Injury	0	1	\$4,000	Daylight	Dry
ç		7/30/2020	Thursday	9:32 AM	Rear End	Injury	0	2	\$600	Daylight	Dry
1		6/22/2020	Monday	10:38 AM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry
1	1 88286032	2/7/2020	Friday	10:20 AM	Rear End	Property Damage Only	0	0	\$3,750	Daylight	Dry
1	2 88286377	1/17/2020	Friday	7:12 PM	Left Turn	Injury	0	2	\$8,000	Dark - Not Lighted	Dry
1	88362567	7/25/2020	Saturday	4:30 PM	Left Turn	Injury	0	3	\$9,000	Daylight	Dry
1		4/25/2020	Saturday	12:40 AM	Off Road	Injury	0	1	\$3,150	Dark - Not Lighted	Wet
1.		7/17/2020	Friday	3:18 AM	Off Road	Property Damage Only	0	0	\$4,200	Dark - Not Lighted	Dry
1		8/6/2020	Thursday	5:00 PM	Left Turn	Property Damage Only	0	0	\$3,750	Daylight	Dry
1		7/21/2020	Tuesday	12:27 PM	Rear End	Property Damage Only	0	0	\$12,900	Daylight	Wet
1		1/17/2020	Friday	11:00 PM	Left Turn	Injury	0	3	\$4,500	Dark - Not Lighted	Dry
1		1/24/2020	Friday	9:46 AM	Rear End	Property Damage Only	0	0	\$2,500	Daylight	Dry
2		7/17/2020	Friday Thursday	2:34 PM	Sideswipe Rear End	Property Damage Only	0	0 1	\$150	Daylight	Dry
2		2/13/2020 7/23/2020	Thursday	7:17 AM 6:40 PM	Rear End	Injury	0	1	\$5,700 \$7,000	Daylight Daylight	Dry Wet
2		3/5/2020	Thursday	12:55 PM	Sideswipe	Injury Property Damage Only	0	0	\$500	Daylight	Dry
2		5/14/2020	Thursday	9:17 AM	Rear End	Property Damage Only	0	0	\$6,000	Daylight	Dry
2		2/12/2020	Wednesday	8:00 AM	Rear End	Property Damage Only	0	0	\$9,000	Daylight	Dry
2		5/21/2020	Thursday	6:50 AM	Off Road	Property Damage Only	0	0	\$500	Daylight	Dry
2		9/3/2020	Thursday	10:00 PM	Bicycle	Injury	0	1	\$0	Dark - Not Lighted	Dry
2	83753524	1/16/2020	Thursday	7:48 AM	Other	Property Damage Only	0	0	\$2,000	Daylight	Dry
2	9 88337604	3/31/2020	Tuesday	5:30 PM	Rear End	Injury	0	2	\$150	Daylight	Dry
3	88304846	2/27/2020	Thursday	11:26 AM	Left Turn	Injury	0	1	\$7,000	Daylight	Dry
3	1 88390586	9/10/2020	Thursday	11:53 AM	Left Turn	Property Damage Only	0	0	\$20,000	Daylight	Dry
3		2/28/2020	Friday	6:20 PM	Rear End	Property Damage Only	0	0	\$0	Daylight	Dry
3		6/24/2020	Wednesday	9:58 AM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry
3		11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
3.		6/22/2020	Monday	3:00 PM	Rear End	Property Damage Only	0	0	\$1,200	Daylight	Dry
3		3/9/2020	Monday	2:41 PM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry
3		6/19/2020 10/24/2020	Friday	12:38 PM 1:00 AM	Left Turn Off Road	Property Damage Only Property Damage Only	0	0 0	\$9,000	Daylight	Dry
3		4/10/2020	Saturday Friday	10:57 AM	Rear End	Property Damage Only	0	0	\$3,100 \$3,500	Dark - Lighted Daylight	Dry Dry
4		2/4/2020	Tuesday	6:16 PM	Sideswipe	Injury	0	1	\$9,000	Daylight	Dry
4		3/3/2020	Tuesday	3:47 PM	Other	Property Damage Only	0	0	\$500	Daylight	Dry
4		6/18/2020	Thursday	6:32 PM	Rear End	Property Damage Only	0	0	\$2,500	Daylight	Dry
4		2/12/2020	Wednesday	10:15 AM	Off Road	Property Damage Only	0	0	\$8,000	Daylight	Dry
4	1 89392266	6/17/2020	Wednesday	4:39 PM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry
4	5 88304153	6/22/2020	Monday	2:43 PM	Rear End	Property Damage Only	0	0	\$5,000	Daylight	Dry
4		5/1/2020	Friday	3:57 PM	Off Road	Property Damage Only	0	0	\$6,150	Daylight	Dry
4		11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
4		3/5/2020	Thursday	4:40 PM	Left Turn	Injury	0	1	\$9,000	Daylight	Dry
4		11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
5		7/20/2020	Monday	10:20 AM	Rear End	Property Damage Only	0	0	\$3,500	Daylight	Dry
5		10/21/2020	Wednesday	3:00 PM	Left Turn Off Road	Property Damage Only Property Damage Only	0 0	0	\$1,000 \$2,100	Daylight	Dry
5		10/24/2020 6/28/2020	Saturday Sunday	1:00 AM 7:15 PM	Off Road Other	Property Damage Only Property Damage Only	0	0 0	\$3,100 \$2,500	Dark - Lighted Daylight	Dry Dry
5		6/8/2020	Monday	9:20 PM	Sideswipe	Property Damage Only	0	0	\$2,500	Daylight  Dark - Lighted	Dry
5.		5/25/2020	Monday	9:43 PM	Head On	Injury	0	2	\$30,000	Dark - Not Lighted	Wet
5		4/22/2020	Wednesday	8:45 PM	Left Turn	Injury	0	2	\$4,000	Dark - Lighted	Dry
5		6/25/2020	Thursday	10:39 AM	Unknown	Property Damage Only	0	0	\$9,500	Daylight	Dry
5		11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
5	9 883XXXXX	11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
6	88286042	2/13/2020	Thursday	6:25 AM	Rear End	Property Damage Only	0	0	\$6,250	Dark - Lighted	Dry
6	1 88298026	4/4/2020	Saturday	2:44 PM	Left Turn	Property Damage Only	0	0	\$17,500	Daylight	Dry
6		11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
6		11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
6		4/6/2020	Monday	6:10 AM	Off Road	Injury	0	1	\$2,500	Dark - Not Lighted	Wet
6.		6/10/2020	Wednesday	5:53 PM	Left Turn	Injury	0	1	\$17,500	Daylight	Wet
6	6 883XXXXX	11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry

### 2020 Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry
67	88360193	7/30/2020	Thursday	4:40 PM	Rear End	Property Damage Only	0	0	\$2,000	Daylight	Dry
68	883XXXXX	11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry
69	88291661	5/31/2020	Sunday	12:15 AM	Left Turn	Property Damage Only	0	0	\$1,500	Dark - Lighted	Wet
70	88391044	9/1/2020	Tuesday	2:48 AM	Left Turn	Property Damage Only	0	0	\$10,000	Dark - Lighted	Dry
71	89392025	2/19/2020	Wednesday	3:19 PM	Sideswipe	Property Damage Only	0	0	\$1,000	Daylight	Dry
72	88303876	3/31/2020	Tuesday	3:44 PM	Left Turn	Property Damage Only	0	0	\$1,000	Daylight	Dry
73	88248147	1/9/2020	Thursday	5:30 AM	Sideswipe	Injury	0	1	\$1,500	Dark - Not Lighted	Dry
74	88304496	2/19/2020	Wednesday	6:45 AM	Other	Property Damage Only	0	0	\$1,000	Daylight	Dry
75	88227781	1/4/2020	Saturday	2:35 PM	Left Turn	Injury	0	1	\$15,000	Daylight	Dry
76	87278321	7/9/2020	Thursday	5:45 AM	Sideswipe	Property Damage Only	0	0	\$2,000	Dark - Lighted	Dry
77	883XXXXX	11/10/2020	Tuesday	8:44 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry

### Simpson Road to East Lake Pointe Drive - Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property	Day/Night	Wet/Dry	Alcohol	Drug
1	84544871	1/3/2015	J	9:50 PM	Rollover	Property Damage Only	0	0	\$4,000			Related	Related No
2	83385233	2/20/2015	Saturday Friday	3:24 PM	Other	Property Damage Only	0	0	\$4,000	Dark - Not Lighted Daylight	Dry Dry	No No	No
3	83385297	3/10/2015	Tuesday	4:26 PM	Rear End	Property Damage Only	0	0	\$0 \$0	Daylight	Dry	No	No
4	84871868	4/13/2015	Monday	4:10 AM	Animal	Property Damage Only	0	0	\$20,000	Dark - Not Lighted	Wet	No	No
5	84904812	4/21/2015	Tuesday	5:03 PM	Rear End	Property Damage Only	0	0	\$700	Daylight	Dry	No	No
6	85110794	5/7/2015	Thursday	5:23 PM	Left Turn	Injury	0	2	\$5,000	Daylight	Dry	No	No
7	83385499	5/21/2015	Thursday	9:27 AM	Angle	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
8	85139868	6/29/2015	Monday	1:35 PM	Off Road	Injury	0	1	\$3,900	Daylight	Wet	No	No
9	83385799	9/4/2015	Friday	2:40 PM	Rear End	Property Damage Only	0	0	\$0	Daylight	Wet	No	No
10 11	85162476 85184409	9/10/2015 10/11/2015	Thursday Sunday	5:55 PM 5:25 PM	Left Turn Right Turn	Property Damage Only Injury	0	0 2	\$12,000 \$21,500	Daylight Daylight	Dry Dry	No No	No No
12	85195373	10/11/2015	Tuesday	3:28 PM	Other	Injury	0	1	\$5,000	Daylight	Dry	No	No
13	85224719	11/10/2015	Tuesday	7:30 PM	Left Turn	Property Damage Only	0	0	\$4,500	Dark - Not Lighted	Dry	No	No
14	85297461	4/7/2016	Thursday	6:10 PM	Sideswipe	Property Damage Only	0	0	\$2,000	Daylight	Dry	No	No
15	85310962	4/22/2016	Friday	12:30 PM	Unknown	Property Damage Only	0	0	\$8,000	Daylight	Dry	No	No
16	85308107	5/23/2016	Monday	6:02 AM	Rollover	Injury	0	1	\$5,000	Dawn	Dry	No	No
17	85308113	5/28/2016	Saturday	1:25 PM	Sideswipe	Property Damage Only	0	0	\$1,000	Daylight	Dry	No	No
18 19	85359488	7/24/2016 8/31/2016	Sunday	8:39 PM 6:58 PM	Right Turn	Injury	0	3	\$11,000	Dark - Not Lighted	Dry	No	No No
20	84541178 86736376	11/14/2016	Wednesday Monday	7:32 AM	Other Rear End	Property Damage Only Property Damage Only	0	0	\$7,500 \$0	Dusk Daylight	Wet Dry	No No	No No
21	85458060	1/24/2017	Tuesday	4:59 PM	Right Turn	Injury	0	1	\$1,000	Daylight	Dry	No	No
22	85493486	4/9/2017	Sunday	11:05 AM	Rear End	Property Damage Only	0	0	\$4,000	Daylight	Dry	No	No
23	85531396	5/24/2017	Wednesday	12:00 PM	Sideswipe	Property Damage Only	0	0	\$600	Daylight	Dry	No	No
24	85524224	6/11/2017	Sunday	11:00 AM	Rear End	Property Damage Only	0	0	\$1,300	Daylight	Dry	No	No
25	85561133	8/26/2017	Saturday	12:53 PM	Sideswipe	Property Damage Only	0	0	\$600	Daylight	Dry	No	No
26	85590643	8/30/2017	Wednesday	7:50 AM	Left Turn	Injury	0	2	\$8,000	Daylight	Dry	No	No
27	85576302	9/4/2017	Monday	2:00 PM	Left Turn	Injury	0	1	\$5,500	Daylight	Dry	No	No
28 29	87108064 87135713	11/17/2017 11/30/2017	Friday Thursday	7:46 PM 6:01 PM	Left Turn Left Turn	Property Damage Only Property Damage Only	0	0	\$6,000 \$8,500	Dark - Lighted Dusk	Dry Dry	No No	No No
30	87118825	1/3/2018	Wednesday	12:33 PM	Unknown	Injury	0	3	\$15,000	Daylight	Wet	No	No
31	87149914	1/4/2018	Thursday	11:35 AM	Right Turn	Injury	0	1	\$1,500	Daylight	Dry	No	No
32	87414297	1/19/2018	Friday	1:45 PM	Unknown	Property Damage Only	0	0	\$1,100	Daylight	Dry	No	No
33	87151485	1/21/2018	Sunday	1:00 PM	Rear End	Property Damage Only	0	0	\$3,500	Daylight	Dry	No	No
34	87158254	2/6/2018	Tuesday	7:38 AM	Left Turn	Property Damage Only	0	0	\$1,600	Daylight	Dry	No	No
35	87183378	2/21/2018	Wednesday	6:46 AM	Other	Property Damage Only	0	0	\$3,000	Daylight	Dry	No	No
36	87414449	2/27/2018	Tuesday	8:41 AM	Rear End	Property Damage Only	0	0	\$1,000	Daylight	Dry	No	No
37 38	87166925 87198409	3/23/2018 4/3/2018	Friday Tuesday	9:30 AM 4:52 PM	Rear End Unknown	Property Damage Only Property Damage Only	0	0	\$4,500 \$500	Daylight Daylight	Dry Dry	No No	No No
39	87181356	4/3/2018	Wednesday	2:50 PM	Rear End	Injury	0	2	\$2,300	Daylight	Dry	No	No No
40	87181362	4/20/2018	Friday	5:00 PM	Left Turn	Property Damage Only	0	0	\$1,700	Daylight	Dry	No	No
41	87241748	6/5/2018	Tuesday	5:27 PM	Unknown	Injury	0	2	\$8,000	Daylight	Dry	No	No
42	87234981	7/20/2018	Friday	6:45 AM	Left Turn	Injury	0	1	\$5,800	Dusk	Dry	No	No
43	87241237	7/21/2018	Saturday	4:20 PM	Left Turn	Injury	0	2	\$2,500	Daylight	Dry	No	No
44	87260023	8/10/2018	Friday	5:23 PM	Rear End	Injury	0	9	\$4,500	Daylight	Dry	No	No
45	87271689	8/12/2018	Sunday	12:00 PM	Rear End	Injury	0	3	\$12,000	Daylight	Dry	No	No
46 47	87867192 87241273	8/24/2018 8/28/2018	Friday	8:27 AM 5:45 AM	Right Turn Left Turn	Property Damage Only	0	0 1	\$1,000 \$1,200	Daylight Daylight	Dry	No	No No
48	87293133	8/31/2018	Tuesday Friday	3:21 PM	Left Turn	Injury Property Damage Only	0	0	\$5,500	Daylight	Wet Dry	No No	No No
49	87274675	9/1/2018	Saturday	2:05 PM	Rear End	Property Damage Only	0	0	\$6,500	Daylight	Dry	No	No
50	87867243	9/4/2018	Tuesday	6:28 AM	Left Turn	Property Damage Only	0	0	\$2,000	Dark - Unknown Lighting	Dry	No	No
51	87993028	10/1/2018	Monday	10:03 PM	Right Turn	Injury	0	1	\$14,600	Dark - Not Lighted	Dry	No	No
52	88009134	11/5/2018	Monday	11:02 AM	Rear End	Injury	0	2	\$6,200	Daylight	Dry	No	No
53	87867463	11/9/2018	Friday	7:30 AM	Rear End	Property Damage Only	0	0	\$2,000	Daylight	Dry	No	No
54	88029540	12/6/2018	Thursday	9:30 AM	Left Turn	Property Damage Only	0	0	\$2,900	Daylight	Dry	No	No
55 56	88043757 88047671	12/31/2018 1/2/2019	Monday Wednesday	4:00 AM 8:29 AM	Off Road Angle	Property Damage Only Property Damage Only	0	0 0	\$3,000 \$1,475	Dark - Not Lighted Daylight	Dry	No No	No No
57	88051630	1/2/2019 1/5/2019	Wednesday Saturday	6:47 PM	Rear End	Injury	0	2	\$1,475 \$1,500	Daylight  Dark - Not Lighted	Dry Dry	No No	No No
58	88106258	3/8/2019	Friday	7:00 PM	Rear End	Injury	0	2	\$7,500	Dark - Lighted	Dry	No	No
59	88119959	4/25/2019	Thursday	8:40 PM	Other	Injury	0	1	\$8,000	Dark - Not Lighted	Dry	No	No
60	88103868	4/26/2019	Friday	2:35 PM	Rear End	Property Damage Only	0	0	\$2,500	Daylight	Dry	No	No
61	88120000	5/28/2019	Tuesday	2:40 PM	Left Turn	Property Damage Only	0	0	\$11,000	Daylight	Dry	No	No
62	89087556	7/9/2019	Tuesday	9:39 AM	Sideswipe	Property Damage Only	0	0	\$1,000	Daylight	Dry	No	No
63	88201198	9/21/2019	Saturday	1:10 AM	Sideswipe	Injury	0	1	\$8,000	Dark - Not Lighted	Dry	No	No
64 65	89391525 88212597	10/7/2019 10/11/2019	Monday	2:54 PM 4:01 PM	Rear End Left Turn	Property Damage Only	0	0 1	\$1,500	Daylight Daylight	Dry	No No	No No
66	88212597 88221181	10/11/2019	Friday Tuesday	4:01 PM 11:40 AM	Rear End	Injury Property Damage Only	0	0	\$10,000 \$500	Daylight Daylight	Dry Dry	No No	No No
67	88260946	12/7/2019	Saturday	8:23 AM	Off Road	Injury	0	1	\$5,150	Dayngnt	Dry	No	No
68	87260020	8/10/2018	Friday	12:31 PM	Rear End	Injury	0	1	\$6,000	Daylight	Wet	No	No
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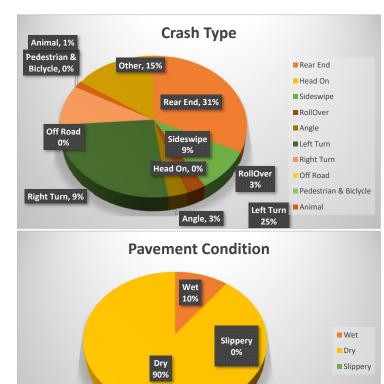
### Simpson Road to East Lake Pointe Drive - Crash Data Summary

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	3	1	2	10	5	21	31%
Head On	0	0	0	0	0	0	0%
Sideswipe	0	2	2	0	2	6	9%
RollOver	1	1	0	0	0	2	3%
Angle	1	0	0	0	1	2	3%
Left Turn	3	0	4	8	2	17	25%
Right Turn	1	1	1	3	0	6	9%
Off Road	1	0	0	1	1	3	4%
Pedestrian & Biclycle	0	0	0	0	0	0	0%
Animal	1	0	0	0	0	1	1%
Other	2	2	0	5	1	10	15%
Total	13	7	9	27	12	68	100%

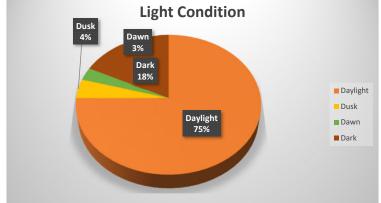
Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	0%
Injury	4	2	3	12	6	27	40%
Property Damage Only	9	5	6	15	6	41	60%
Total	13	7	9	27	12	68	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	3	1	0	3	0	7	10%
Dry	10	6	9	24	12	61	90%
Slippery	0	0	0	0	0	0	0%
Total	13	7	9	27	12	68	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	10	4	7	23	7	51	75%
Dusk	0	1	1	1	0	3	4%
Dawn	0	1	0	0	1	2	3%
Dark	3	1	1	3	4	12	18%
Total	13	7	9	27	12	68	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	0%
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	0	0	0	0%







### East Lake Pointe Drive to Nele Road/Tohopekaliga High School - Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	84565976	1/16/2015	Friday	5:28 AM	Head On	Property Damage Only	0	0	\$10,000	Dark - Lighted	Dry	No	No
2	85215377	11/22/2015	Sunday	7:28 AM	Off Road	Injury	0	1	\$10,000	Daylight	Wet	No	No
3	85215228	12/9/2015	Wednesday	2:15 AM	Off Road	Injury	0	1	\$5,500	Dark - Not Lighted	Dry	No	No
4	85329336	5/26/2016	Thursday	1:57 AM	Off Road	Property Damage Only	0	0	\$8,000	Dark - Not Lighted	Dry	No	No
5	85365859	8/6/2016	Saturday	1:28 AM	Off Road	Fatality	1	1	\$8,000	Dark - Not Lighted	Dry	Yes	Yes
6	85548365	7/19/2017	Wednesday	3:40 PM	Head On	Fatality	1	7	\$30,000	Daylight	Dry	No	No
7	85590664	9/11/2017	Monday	4:05 PM	Rollover	Injury	0	2	\$3,500	Daylight	Dry	No	No
8	87413913	10/4/2017	Wednesday	8:25 AM	Rear End	Property Damage Only	0	0	\$1,500	Daylight	Dry	No	No
9	87141626	1/14/2018	Sunday	6:19 AM	Rollover	Property Damage Only	0	0	\$10,000	Daylight	Dry	No	No
10	87158249	1/29/2018	Monday	8:54 AM	Rear End	Property Damage Only	0	0	\$7,200	Daylight	Wet	No	No
11	87867268	9/12/2018	Wednesday	10:40 AM	Sideswipe	Property Damage Only	0	0	\$3,000	Daylight	Dry	No	No
12	88097312	4/18/2019	Thursday	9:12 AM	Left Turn	Property Damage Only	0	0	\$2,000	Daylight	Dry	No	No
13	88184112	9/25/2019	Wednesday	11:01 AM	Unknown	Property Damage Only	0	0	\$4,000	Daylight	Dry	No	No
14	89391786	12/9/2019	Monday	4:45 PM	Rear End	Property Damage Only	0	0	\$1,300	Daylight	Dry	No	No

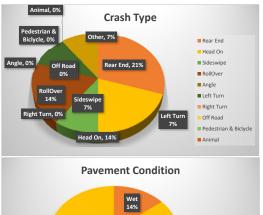
### East Lake Pointe Drive to Nele Road/Tohopekaliga High School - Crash Data Summary

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	0	1	1	1	3	21%
Head On	1	0	1	0	0	2	14%
Sideswipe	0	0	0	1	0	1	7%
RollOver	0	0	1	1	0	2	14%
Angle	0	0	0	0	0	0	0%
Left Turn	0	0	0	0	1	1	7%
Right Turn	0	0	0	0	0	0	0%
Off Road	2	2	0	0	0	4	29%
Pedestrian & Biclycle	0	0	0	0	0	0	0%
Animal	0	0	0	0	0	0	0%
Other	0	0	0	0	1	1	7%
Total	3	2	3	3	3	14	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	1	1	0	0	2	14%
Injury	2	0	1	0	0	3	21%
Property Damage Only	1	1	1	3	3	9	64%
Total	3	2	3	3	3	14	100%

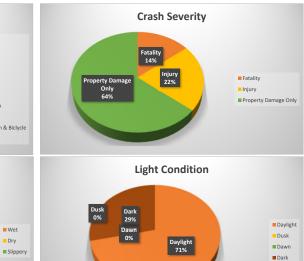
Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	1	0	0	1	0	2	14%
Dry	2	2	3	2	3	12	86%
Slippery	0	0	0	0	0	0	0%
Total	3	2	3	3	3	14	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	1	0	3	3	3	10	71%
Dusk	0	0	0	0	0	0	0%
Dawn	0	0	0	0	0	0	0%
Dark	2	2	0	0	0	4	29%
Total	3	2	3	3	3	14	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	1	0	0	0	1	7%
Drugs	0	1	0	0	0	1	7%
Total	0	2	0	0	0	2	14%



■Wet

■ Dry



### Nele Road/Tohopekaliga High School to Springlake Village Boulevard/Holiday Woods Drive - Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	85209659	11/21/2015	Saturday	10:45 PM	Left Turn	Injury	0	2	\$12,500	Dark - Not Lighted	Wet	No	No
2	85253422	2/12/2016	Friday	6:34 AM	Rear End	Property Damage Only	0	0	\$7,000	Dawn	Dry	No	No
3	85548362	7/17/2017	Monday	5:30 PM	Rear End	Property Damage Only	0	0	\$550	Daylight	Wet	No	No
4	87132703	12/14/2017	Thursday	6:50 AM	Rear End	Property Damage Only	0	0	\$4,000	Dawn	Dry	No	No
5	87265644	8/16/2018	Thursday	8:23 AM	Rear End	Property Damage Only	0	0	\$4,000	Daylight	Dry	No	No
6	88015345	10/5/2018	Friday	6:30 AM	Rear End	Injury	0	2	\$3,600	Dark - Lighted	Dry	No	No
7	88027922	10/23/2018	Tuesday	7:00 AM	Left Turn	Property Damage Only	0	0	\$3,000	Dusk	Dry	No	No
8	87867625	1/17/2019	Thursday	2:32 PM	Rear End	Property Damage Only	0	0	\$150	Daylight	Dry	No	No
9	88103711	4/29/2019	Monday	7:57 AM	Rear End	Injury	0	3	\$19,000	Daylight	Dry	No	No
10	88178221	8/27/2019	Tuesday	7:40 AM	Rear End	Property Damage Only	0	0	\$4,500	Daylight	Dry	No	No
11	88178223	8/30/2019	Friday	8:20 AM	Rear End	Injury	0	1	\$8,000	Daylight	Dry	No	No
12	89087812	9/6/2019	Friday	5:07 PM	Rear End	Property Damage Only	0	0	\$500	Daylight	Dry	No	No

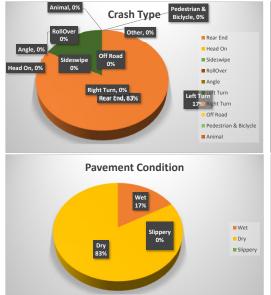
### Nele Road/Tohopekaliga High School to Springlake Village Boulevard/Holiday Woods Drive - Crash Data Summary

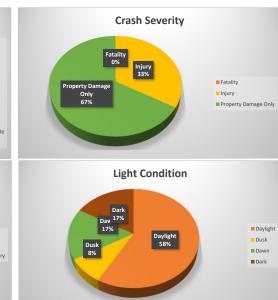
Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	1	2	2	5	10	83%
Head On	0	0	0	0	0	0	0%
Sideswipe	0	0	0	0	0	0	0%
RollOver	0	0	0	0	0	0	0%
Angle	0	0	0	0	0	0	0%
Left Turn	1	0	0	1	0	2	17%
Right Turn	0	0	0	0	0	0	0%
Off Road	0	0	0	0	0	0	0%
Pedestrian & Biclycle	0	0	0	0	0	0	0%
Animal	0	0	0	0	0	0	0%
Other	0	0	0	0	0	0	0%
Total	1	1	2	3	5	12	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	0%
Injury	1	0	0	1	2	4	33%
Property Damage Only	0	1	2	2	3	8	67%
Total	1	1	2	3	5	12	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	1	0	1	0	0	2	17%
Dry	0	1	1	3	5	10	83%
Slippery	0	0	0	0	0	0	0%
Total	1	1	2	3	5	12	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	0	0	1	1	5	7	58%
Dusk	0	0	0	1	0	1	8%
Dawn	0	1	1	0	0	2	17%
Dark	1	0	0	1	0	2	17%
Total	1	1	2	3	5	12	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	0%
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	0	0	0	0%





### Springlake Village Boulevard/Holiday Woods Drive to Turnberry Boulevard/Austin Tindall Park - Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	87180923	4/27/2018	Friday	9:48 AM	Off Road	Property Damage Only	0	0	\$6,000	Daylight	Dry	No	No
2	87226078	5/28/2018	Monday	2:58 PM	Other	Property Damage Only	0	0	\$6,000	Daylight	Dry	No	No
3	85382822	9/1/2016	Thursday	8:28 AM	Left Turn	Property Damage Only	0	0	\$10,000	Daylight	Dry	No	No
4	88198676	10/6/2019	Sunday	4:50 AM	Sideswipe	Injury	0	2	\$500	Dark - Not Lighted	Dry	No	No

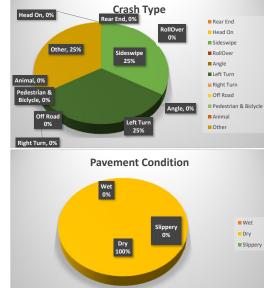
### Springlake Village Boulevard/Holiday Woods Drive to Turnberry Boulevard/Austin Tindall Park - Crash Data Summary

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	0	0	0	0	0	0%
Head On	0	0	0	0	0	0	0%
Sideswipe	0	0	0	0	1	1	25%
RollOver	0	0	0	0	0	0	0%
Angle	0	0	0	0	0	0	0%
Left Turn	0	1	0	0	0	1	25%
Right Turn	0	0	0	0	0	0	0%
Off Road	0	0	0	1	0	1	25%
Pedestrian & Biclycle	0	0	0	0	0	0	0%
Animal	0	0	0	0	0	0	0%
Other	0	0	0	1	0	1	25%
Total	0	1	0	2	1	4	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	0%
Injury	0	0	0	0	1	1	25%
Property Damage Only	0	1	0	2	0	3	75%
Total	0	1	0	2	1	4	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	0	0	0	0	0	0	0%
Dry	0	1	0	2	1	4	100%
Slippery	0	0	0	0	0	0	0%
Total	0	1	0	2	1	4	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	0	1	0	2	0	3	75%
Dusk	0	0	0	0	0	0	0%
Dawn	0	0	0	0	0	0	0%
Dark	0	0	0	0	1	1	25%
Total	0	1	0	2	1	4	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	0%
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	0	0	0	0%





### Turnberry Boulevard/Austin Tindall Park to North Pointe Boulevard - Crash Data Summary

No	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	87166885	1/27/2018	Saturday	10:20 PM	Other	Property Damage Only	0	0	\$42,500	Dark - Lighted	Dry	No	No
2													
3													
4													
5													
6													
8													

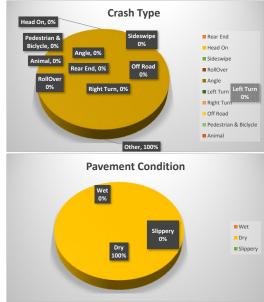
### Turnberry Boulevard/Austin Tindall Park to North Pointe Boulevard - Crash Data Summary

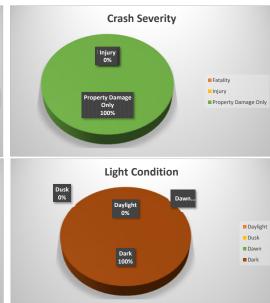
Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	0	0	0	0	0	0%
Head On	0	0	0	0	0	0	0%
Sideswipe	0	0	0	0	0	0	0%
RollOver	0	0	0	0	0	0	0%
Angle	0	0	0	0	0	0	0%
Left Turn	0	0	0	0	0	0	0%
Right Turn	0	0	0	0	0	0	0%
Off Road	0	0	0	0	0	0	0%
Pedestrian & Biclycle	0	0	0	0	0	0	0%
Animal	0	0	0	0	0	0	0%
Other	0	0	0	1	0	1	100%
Total	0	0	0	1	0	1	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	0%
Injury	0	0	0	0	0	0	0%
Property Damage Only	0	0	0	1	0	1	100%
Total	0	0	0	1	0	1	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	0	0	0	0	0	0	0%
Dry	0	0	0	1	0	1	100%
Slippery	0	0	0	0	0	0	0%
Total	0	0	0	1	0	1	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	0	0	0	0	0	0	0%
Dusk	0	0	0	0	0	0	0%
Dawn	0	0	0	0	0	0	0%
Dark	0	0	0	1	0	1	100%
Total	0	0	0	1	0	1	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	0%
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	0	0	0	0%





### North Pointe Boulevard to Timber Lane/Creek Bank Drive - Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	85164431	10/19/2015	Monday	10:20 PM	Off Road	Property Damage Only	0	0	\$4,800	Dark - Not Lighted	Dry	No	No
2	85312192	5/2/2016	Monday	1:15 PM	Rear End	Injury	0	1	\$18,500	Daylight	Dry	No	No
3	85469623	2/7/2017	Tuesday	10:10 AM	Other	Property Damage Only	0	0	\$2,250	Daylight	Dry	No	No
4	85544496	6/18/2017	Sunday	11:55 PM	Other	Injury	0	1	\$15,000	Dark - Not Lighted	Dry	No	No
5	87414135	12/10/2017	Sunday	10:55 PM	Other	Injury	0	1	\$8,000	Dark - Not Lighted	Dry	No	No
6	87151472	1/12/2018	Friday	2:25 PM	Rear End	Injury	0	1	\$5,500	Daylight	Dry	No	No
7	87414542	3/17/2018	Saturday	8:11 PM	Head On	Property Damage Only	0	0	\$11,000	Dark - Lighted	Dry	Yes	No
8	89087120	4/2/2019	Tuesday	3:44 PM	Off Road	Property Damage Only	0	0	\$500	Daylight	Dry	No	No
9	88155361	6/11/2019	Tuesday	2:20 AM	Off Road	Injury	0	1	\$5,750	Dark - Not Lighted	Dry	No	No
10	85213203	10/21/2015	Wednesday	9:03 AM	Other	Injury	0	1	\$29,000	Daylight	Dry	No	No
11	85218416	12/10/2015	Thursday	6:37 AM	Rollover	Injury	0	2	\$6,000	Daylight	Dry	No	No

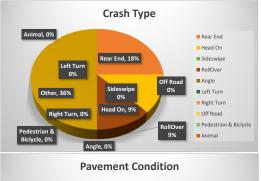
### North Pointe Boulevard to Timber Lane/Creek Bank Drive - Crash Data Summary

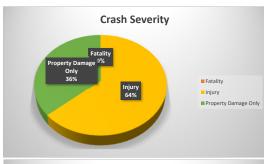
Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	1	0	1	0	2	18%
Head On	0	0	0	1	0	1	9%
Sideswipe	0	0	0	0	0	0	0%
RollOver	1	0	0	0	0	1	9%
Angle	0	0	0	0	0	0	0%
Left Turn	0	0	0	0	0	0	0%
Right Turn	0	0	0	0	0	0	0%
Off Road	1	0	0	0	2	3	27%
Pedestrian & Biclycle	0	0	0	0	0	0	0%
Animal	0	0	0	0	0	0	0%
Other	1	0	3	0	0	4	36%
Total	3	1	3	2	2	11	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	0%
Injury	2	1	2	1	1	7	64%
Property Damage Only	1	0	1	1	1	4	36%
Total	3	1	3	2	2	11	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	0	0	0	0	0	0	0%
Dry	3	1	3	2	2	11	100%
Slippery	0	0	0	0	0	0	0%
Total	3	1	3	2	2	11	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	2	1	1	1	1	6	55%
Dusk	0	0	0	0	0	0	0%
Dawn	0	0	0	0	0	0	0%
Dark	1	0	2	1	1	5	45%
Total	3	1	3	2	2	11	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	1	0	1	9%
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	1	0	1	9%









### Timber Lane/Creek Bank Drive to Fells Cove Boulevard - Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	84875486	5/2/2015	Saturday	5:09 AM	Pedestrian	Injury	0	1	\$2,500	Dawn	Dry	No	No
2	85139112	6/21/2015	Sunday	6:39 AM	Off Road	Injury	0	1	\$10,000	Daylight	Dry	No	No
3	85127208	7/1/2015	Wednesday	5:53 AM	Rollover	Injury	0	2	\$7,000	Dawn	Dry	No	No
4	85285892	3/12/2016	Saturday	7:55 AM	Other	Property Damage Only	0	0	\$4,500	Daylight	Dry	No	No
5	85281759	4/11/2016	Monday	5:00 AM	Pedestrian	Injury	0	1	\$0	Dark - Not Lighted	Dry	No	No
6	85384733	9/16/2016	Friday	9:52 PM	Head On	Fatality	1	3	\$30,000	Dark - Not Lighted	Dry	No	No
7	86736281	10/17/2016	Monday	12:44 PM	Rear End	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
8	85384773	10/20/2016	Thursday	9:00 AM	Off Road	Property Damage Only	0	0	\$3,250	Daylight	Dry	No	No
9	85420817	11/10/2016	Thursday	6:54 AM	Rear End	Property Damage Only	0	0	\$700	Dawn	Dry	No	No
10	85477994	2/14/2017	Tuesday	8:35 AM	Sideswipe	Injury	0	3	\$15,200	Daylight	Dry	No	No
11	85489884	3/8/2017	Wednesday	7:00 PM	Rear End	Property Damage Only	0	0	\$14,000	Dark - Not Lighted	Dry	No	No
12	85545085	6/23/2017	Friday	3:47 PM	Rear End	Property Damage Only	0	0	\$8,000	Daylight	Dry	No	No
13	85545098	6/26/2017	Monday	3:45 PM	Rear End	Injury	0	1	\$5,500	Daylight	Wet	No	No
14	85545766	6/28/2017	Wednesday	1:45 PM	Sideswipe	Property Damage Only	0	0	\$200	Daylight	Dry	No	No
15	85591368	10/14/2017	Saturday	6:53 AM	Off Road	Property Damage Only	0	0	\$2,500	Dark - Not Lighted	Wet	No	No
16	85599417	10/17/2017	Tuesday	8:10 AM	Left Turn	Injury	0	3	\$7,000	Daylight	Dry	No	No
17	87166714	3/9/2018	Friday	3:00 PM	Rear End	Property Damage Only	0	0	\$3,500	Daylight	Dry	No	No
18	87166943	4/7/2018	Saturday	8:25 AM	Rear End	Property Damage Only	0	0	\$20,000	Daylight	Dry	No	No
19	87201776	4/12/2018	Thursday	10:35 AM	Rear End	Injury	0	4	\$19,000	Daylight	Dry	No	No
20	87254634	8/16/2018	Thursday	7:45 AM	Left Turn	Injury	0	1	\$7,500	Daylight	Dry	No	No
21	87273899	8/31/2018	Friday	2:58 AM	Off Road	Injury	0	1	\$2,000	Dark - Not Lighted	Dry	No	No
22	88140708	6/19/2019	Wednesday	6:26 AM	Off Road	Injury	0	1	\$20,000	Dawn	Dry	No	No
23	88167348	7/1/2019	Monday	1:55 PM	Sideswipe	Injury	0	6	\$11,000	Daylight	Dry	No	No
24	88155407	7/14/2019	Sunday	12:20 AM	Off Road	Property Damage Only	0	0	\$1,550	Dark - Not Lighted	Dry	No	No
25	88184116	9/27/2019	Friday	8:15 AM	Off Road	Injury	0	1	\$10,000	Dawn	Dry	No	No
26	88221168	10/11/2019	Friday	10:15 AM	Sideswipe	Injury	0	1	\$9,050	Daylight	Dry	No	No
27	88211454	10/25/2019	Friday	8:00 PM	Rear End	Fatality	1	3	\$15,500	Dark - Not Lighted	Wet	No	No

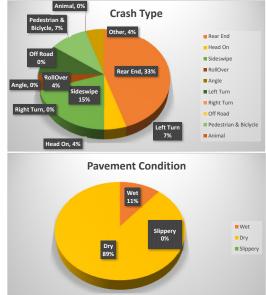
### Timber Lane/Creek Bank Drive to Fells Cove Boulevard - Crash Data Summary

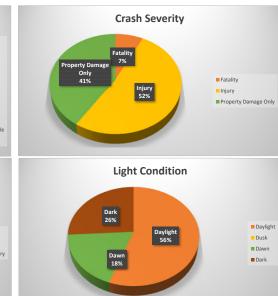
Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	2	3	3	1	9	33%
Head On	0	1	0	0	0	1	4%
Sideswipe	0	0	2	0	2	4	15%
RollOver	1	0	0	0	0	1	4%
Angle	0	0	0	0	0	0	0%
Left Turn	0	0	1	1	0	2	7%
Right Turn	0	0	0	0	0	0	0%
Off Road	1	1	1	1	3	7	26%
Pedestrian & Biclycle	1	1	0	0	0	2	7%
Animal	0	0	0	0	0	0	0%
Other	0	1	0	0	0	1	4%
Total	3	6	7	5	6	27	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	1	0	0	1	2	7%
Injury	3	1	3	3	4	14	52%
Property Damage Only	0	4	4	2	1	11	41%
Total	3	6	7	5	6	27	100%

Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	0	0	2	0	1	3	11%
Dry	3	6	5	5	5	24	89%
Slippery	0	0	0	0	0	0	0%
Total	3	6	7	5	6	27	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	1	3	5	4	2	15	56%
Dusk	0	0	0	0	0	0	0%
Dawn	2	1	0	0	2	5	19%
Dark	0	2	2	1	2	7	26%
Total	3	6	7	5	6	27	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	0%
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	0	0	0	0%





### Simpson Road to Narcoossee Rd - Crash Data Summary

No.	Crash ID	Date	Day	Time	Crash Type	Crash Severity	Fatalities	Injuries	Property Damage	Day/Night	Wet/Dry	Alcohol Related	Drug Related
1	85270369	2/19/2016	Friday	10:08 PM	Left Turn	Injury	0	1	\$21,000	Dark - Not Lighted	Dry	No	No
2	85525303	5/22/2017	Monday	4:20 PM	Other	Injury	0	5	\$24,000	Daylight	Dry	No	No
3	85561339	8/21/2017	Monday	6:27 AM	Rear End	Property Damage Only	0	0	\$9,000	Daylight	Dry	No	No
4	87115840	11/15/2017	Wednesday	2:45 PM	Angle	Injury	0	3	\$5,500	Daylight	Dry	No	No
5	87158272	3/1/2018	Thursday	6:59 AM	Rear End	Property Damage Only	0	0	\$600	Daylight	Dry	No	No
6	87288662	9/20/2018	Thursday	6:08 AM	Left Turn	Injury	0	2	\$5,200	Dark - Not Lighted	Dry	No	No
7	88169489	7/12/2019	Friday	2:43 PM	Rear End	Injury	0	4	\$7,600	Daylight	Dry	No	No
8	83385446	4/22/2015	Wednesday	4:47 PM	Other	Property Damage Only	0	0	\$0	Daylight	Dry	No	No
9	85374087	8/20/2016	Saturday	11:15 AM	Rear End	Property Damage Only	0	0	\$300	Daylight	Dry	No	No
10	85491371	4/13/2017	Thursday	8:32 PM	Rear End	Property Damage Only	0	0	\$6,500	Dark - Not Lighted	Dry	No	No
11	85565171	7/16/2017	Sunday	1:42 PM	Rear End	Injury	0	3	\$7,000	Daylight	Dry	No	No
12	87191353	4/12/2018	Thursday	9:27 PM	Off Road	Property Damage Only	0	0	\$100	Dark - Lighted	Dry	No	No

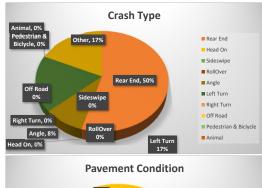
### Simpson Road to Narcoossee Rd - Crash Data Summary

Crash Type	2015	2016	2017	2018	2019	Total	Proportion
Rear End	0	1	3	1	1	6	50%
Head On	0	0	0	0	0	0	0%
Sideswipe	0	0	0	0	0	0	0%
RollOver	0	0	0	0	0	0	0%
Angle	0	0	1	0	0	1	8%
Left Turn	0	1	0	1	0	2	17%
Right Turn	0	0	0	0	0	0	0%
Off Road	0	0	0	1	0	1	8%
Pedestrian & Biclycle	0	0	0	0	0	0	0%
Animal	0	0	0	0	0	0	0%
Other	1	0	1	0	0	2	17%
Total	1	2	5	3	1	12	100%

Crash Severity	2015	2016	2017	2018	2019	Total	Proportion
Fatality	0	0	0	0	0	0	0%
Injury	0	1	3	1	1	6	50%
Property Damage Only	1	1	2	2	0	6	50%
Total	1	2	5	3	1	12	100%

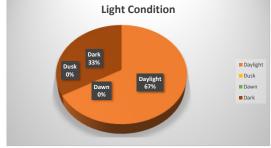
Pavement Condition	2015	2016	2017	2018	2019	Total	Proportion
Wet	0	0	0	0	0	0	0%
Dry	1	2	5	3	1	12	100%
Slippery	0	0	0	0	0	0	0%
Total	1	2	5	3	1	12	100%

Light Condition	2015	2016	2017	2018	2019	Total	Proportion
Daylight	1	1	4	1	1	8	67%
Dusk	0	0	0	0	0	0	0%
Dawn	0	0	0	0	0	0	0%
Dark	0	1	1	2	0	4	33%
Total	1	2	5	3	1	12	100%
Under the Influence	2015	2016	2017	2018	2019	Total	Proportion
Alcohol	0	0	0	0	0	0	0%
Drugs	0	0	0	0	0	0	0.00%
Total	0	0	0	0	0	0	0%









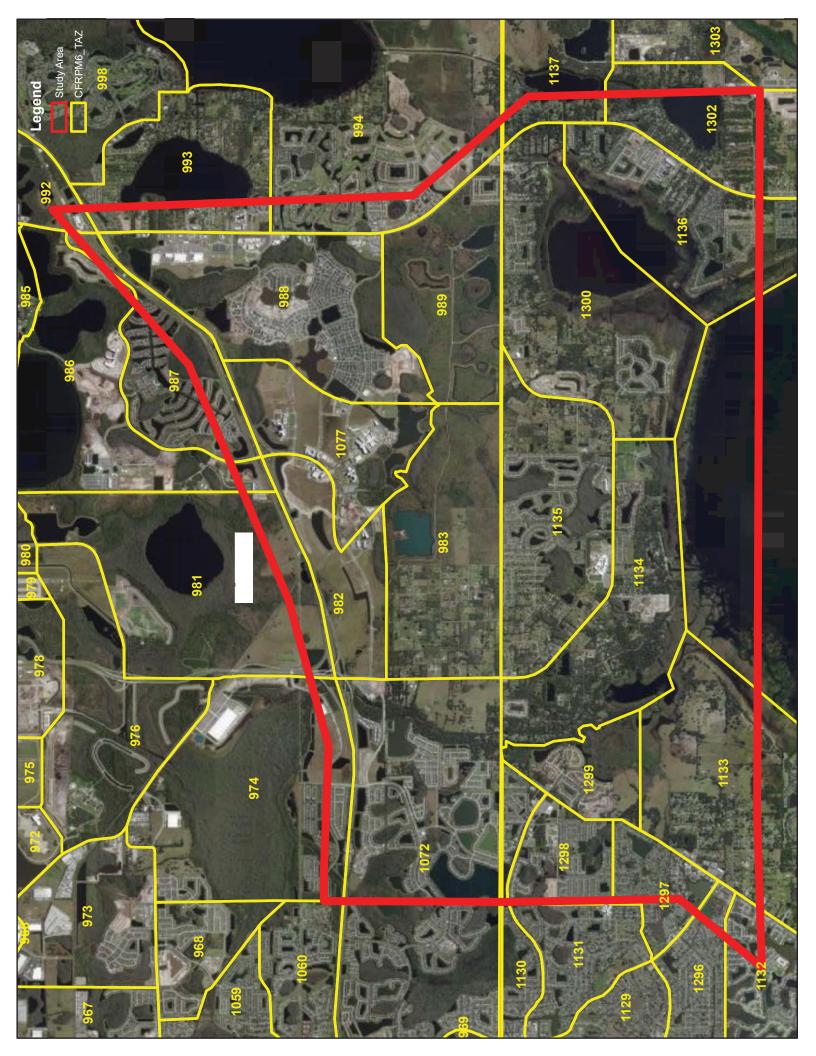
### Appendix F

### Model Validation Information & Model Plots

### Table 1 Boggy Creek PTAR Study

- Year 2019 Validation Link Report

Roadway Name	from	to	Year 2019 AADT Count	Facility Type Before	2019 Model AADT Before Validation Total	Facility Type After	2019 Model AADT After Validation Total	Volume / Count (Before)	Volume / Count (After)
SR 417	Narcoossee Rd	Lake Nona Blvd	67,680	93	40,891	93	72,859	0.60	1.08
SR 417	Lake Nona Blvd	Boggy Creek Rd	68,540	93	52,513	93	74,698	0.77	1.09
SR 417	Boggy Creek Rd	Landstar Blvd	84,070	93	19,429	93	82,313	0.23	0.98
			45.004						
Boggy Creek Rd	Austin Tydell Park	Narcoossee Rd	15,334	43	12,463	41	14,483	0.81	0.94
Boggy Creek Rd	Boggy Creek Rd (West)/Simpson Rd	Austin Tindall Park	18,581	43	13,688	41	18,736	0.74	1.01
Boggy Creek Rd	Lake Nona Blvd	Boggy Creek Rd (East)/Simpson Rd	31,712	46	23,486	41	35,048	0.74	1.11
Boggy Creek Rd	SR 417	Lake Nona Blvd	37,150	46	30,230	41	40,435	0.81	1.09
Narcoossee Rd	North of Tavistock Lake Rd		39,500	23	43,481	23	33,481	1.10	0.85
Narcoossee Rd	North of Boggy Creek Rd		32,694	23	46,151	23	34,322	1.41	1.05
Narcoossee Rd	South of Boggy Creek Rd		35,090	22	45,778	22	42,255	1.30	1.20
Simpson Rd	Boggy Creek Rd	Osceola Pkwy	27,589	41	33,262	41	27,558	1.21	1.00
Simpson Rd	Osceola Pkwy	Buenaventura Blvd	25,657	41	24,396	41	23,380	0.95	0.91
Simpson Rd	West of Buenaventura Blvd		41,751	41	38,711	41	40,045	0.93	0.96
E Osceola Pkway	Buenaventura Blvd	Simpson Rd	21,500	23	21,040	21	21,399	0.98	1.00
Lake Nona Blvd	West of Boggy Creek Rd		7,000	41	12,197	26	7,972	1.74	1.14
Lake Nona Blvd	East of Boggy Creek Rd		11,096		0	26	13,826	0.00	1.25
Lake Nona Blvd	North of Tavistock Lake Rd		19,860	41	16,186	41	14,168	0.81	0.71
Lake Nona Blvd	North of SR 417		8,470	41	2,690	41	7,098	0.32	0.84
Tavistock Lake Rd	West of Narcoossee Rd		9,388	41	11,366	41	7,921	1.21	0.84
SR 417 EB ON from Boggy Cre	ek Rd		4,900	97	10,239	71	4,190	2.09	0.86
SR 417 EB OFF to Boggy Creek			2,900	71	88	71	1,015	0.03	0.35
SR 417 WB ON from Boggy Cre			4,100	71	6	71	1,202	0.00	0.29
SR 417 WB OFF to Boggy Cree			5,100	97	11,629	71	6,021	2.28	1.18
Total			619,662		509,919		624,425		
IUlai			013,002		202,213		024,423		
MOCF Factors									
2019 Osceola Cty	0.97			-					
2019 Orange Cty	0.98								
'Reference Only									<u> </u>

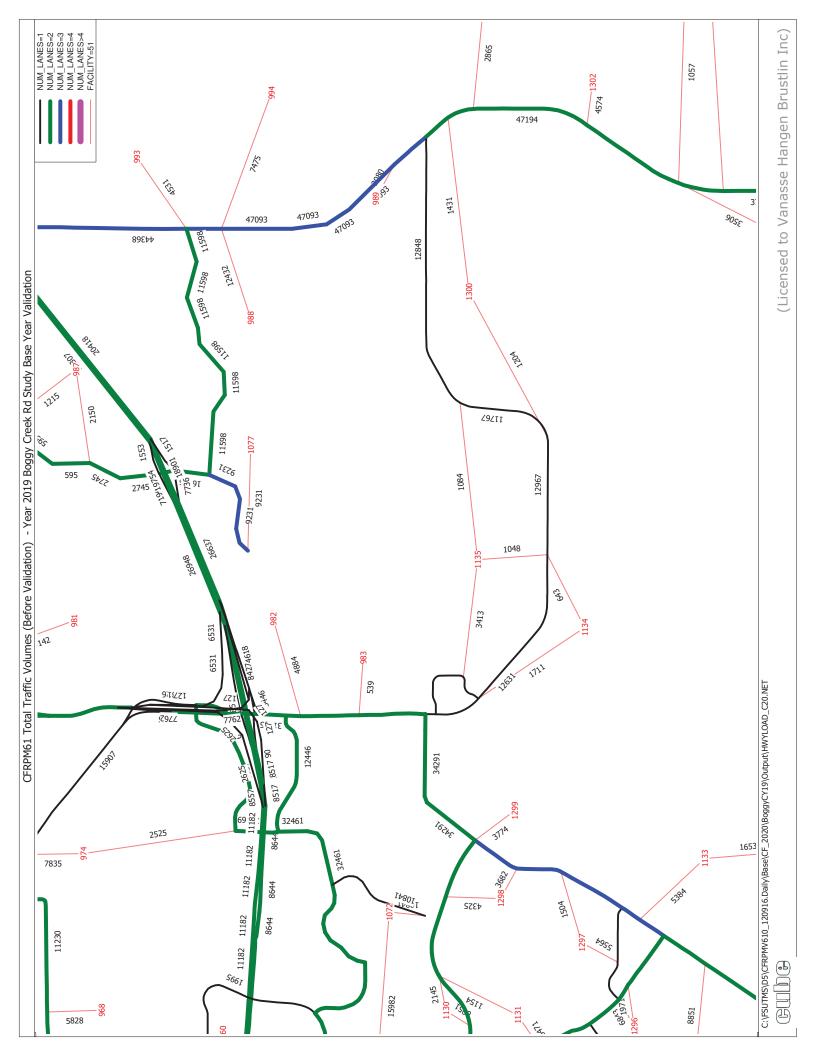


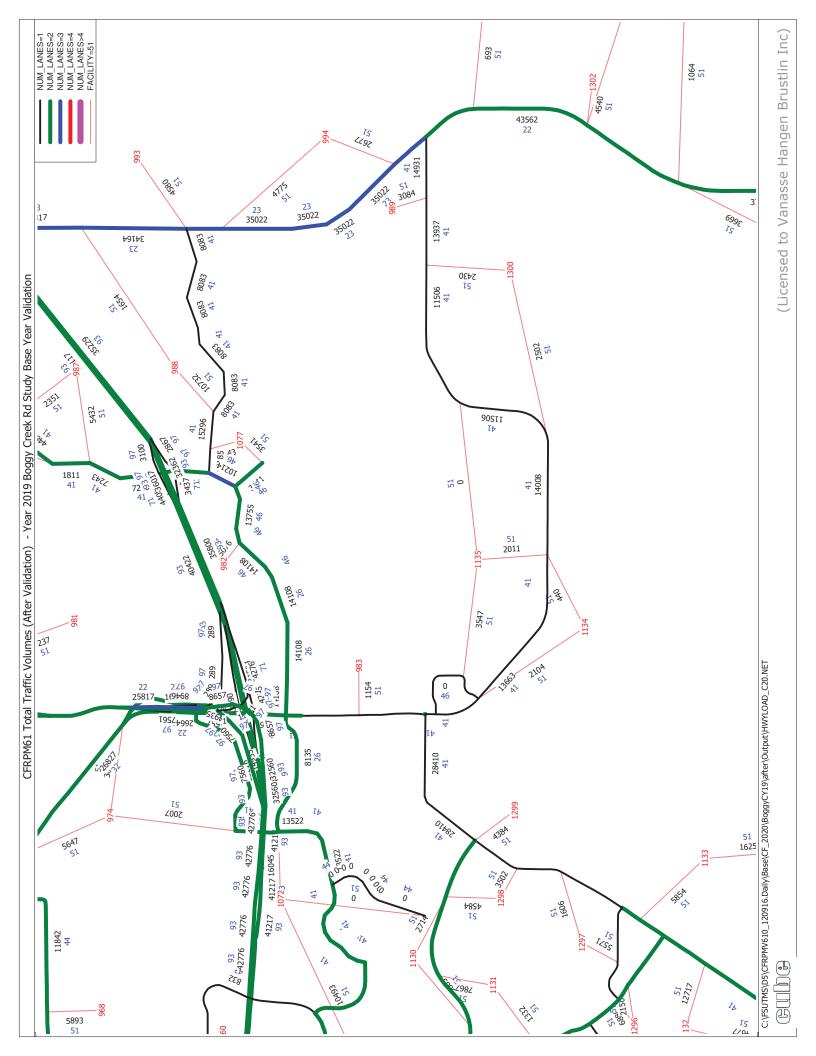
# APPENDIX B Base Year 2019 Model Validation - Land Uses Changes

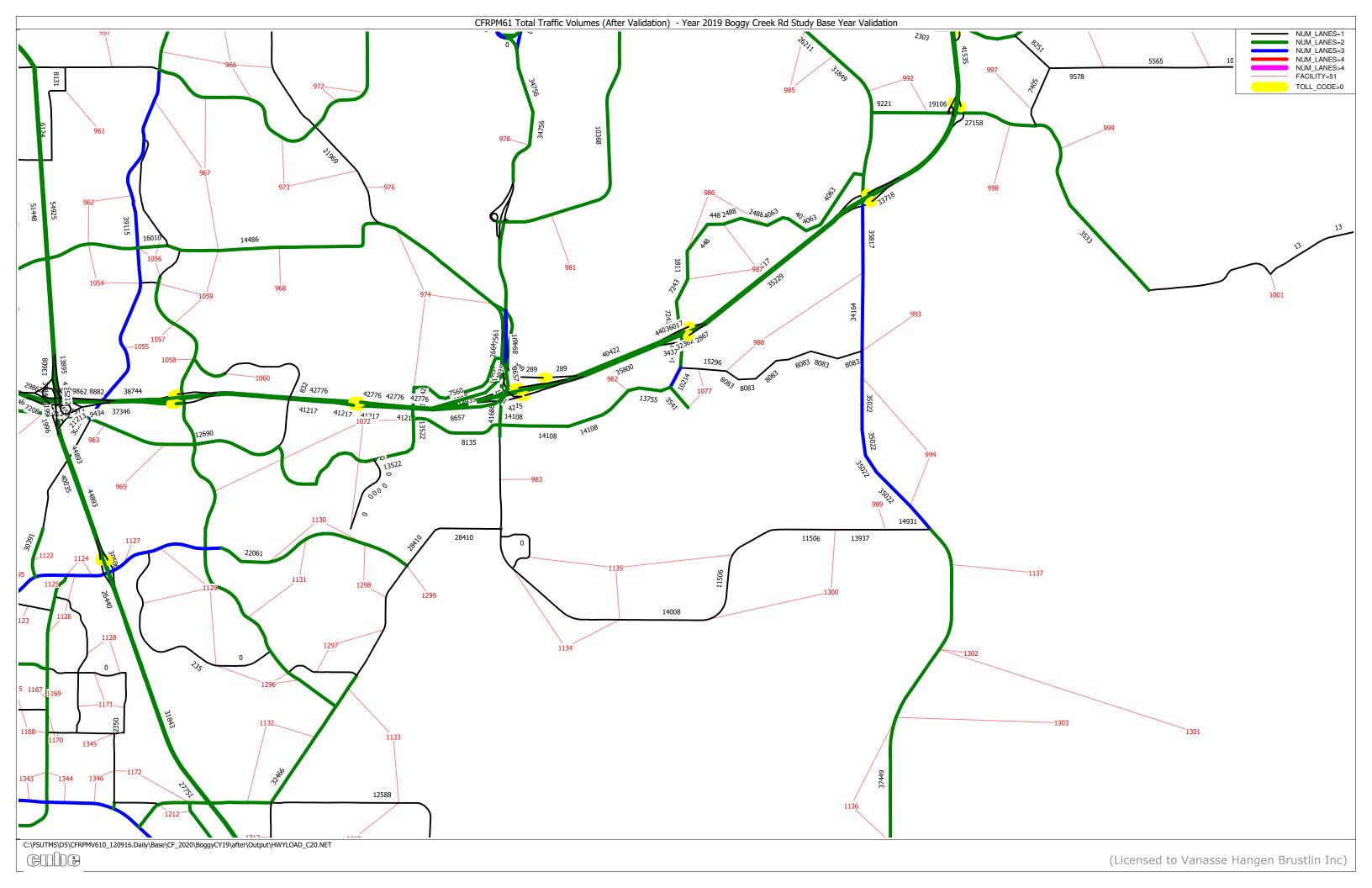
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	ai emp scn		111 0		121 2266	0 0	1215 0	0 0		1595 3834		41 0			31 0			148 856	111 0	80	120 0	59 0	103		101	17 0	$\overline{}$	293 960		39 0	95		92 0				517 760	153 1885	314 0	0 0	16 0
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Year 2019 (interpolated)	2	2 72	0 9	1450	1430 0/		874 0			221 0 2553 87		841 0	1674 0								153 0	0 24		o				588 16			4	97 0			α			72 0		20 0	
	Ŋ,	3	222 3		790 66/1		1304 409			265 103 3322 1194	73 30	650 418	9891 740								1020 45	1019 0		2907 0			- 1	2795 236				2667 351			8245 3			2869 22		318 6	
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# APPENDIX B Base Year 2019 Model Validation - Land Uses Changes

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ı		SER		304	0				
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ı		F POP			0				
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ı		Sch	0	141	0	0	0	0	0
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ı		otel P	0	1	0	0	0	0	0
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ı		IF MF	15	8	0	0	0	0	0
ı		o N N	883	1948	0	0	0	0	0
		SF	3 628	21 19	0	0	0	0	0
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ı	CFRPM7	zon	5200	5236	5219	5193	5166	5175	Total
ı		Sch	099		1488				
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	ated)	Hotel P	0	0	389				
	nterpol	Hotel 1	0	0	181				
	Year 2019 (interpolated)	SF SF POP MF MF POP Hotel Hotel P IND COM SER Sch	22	94	2537				
	Ye	MF	7	35	761				
		F POP	830	2105 35	2674 761				
		SF S	300	828	1133				
	CFRPM61	zones	1302	1133	1301				

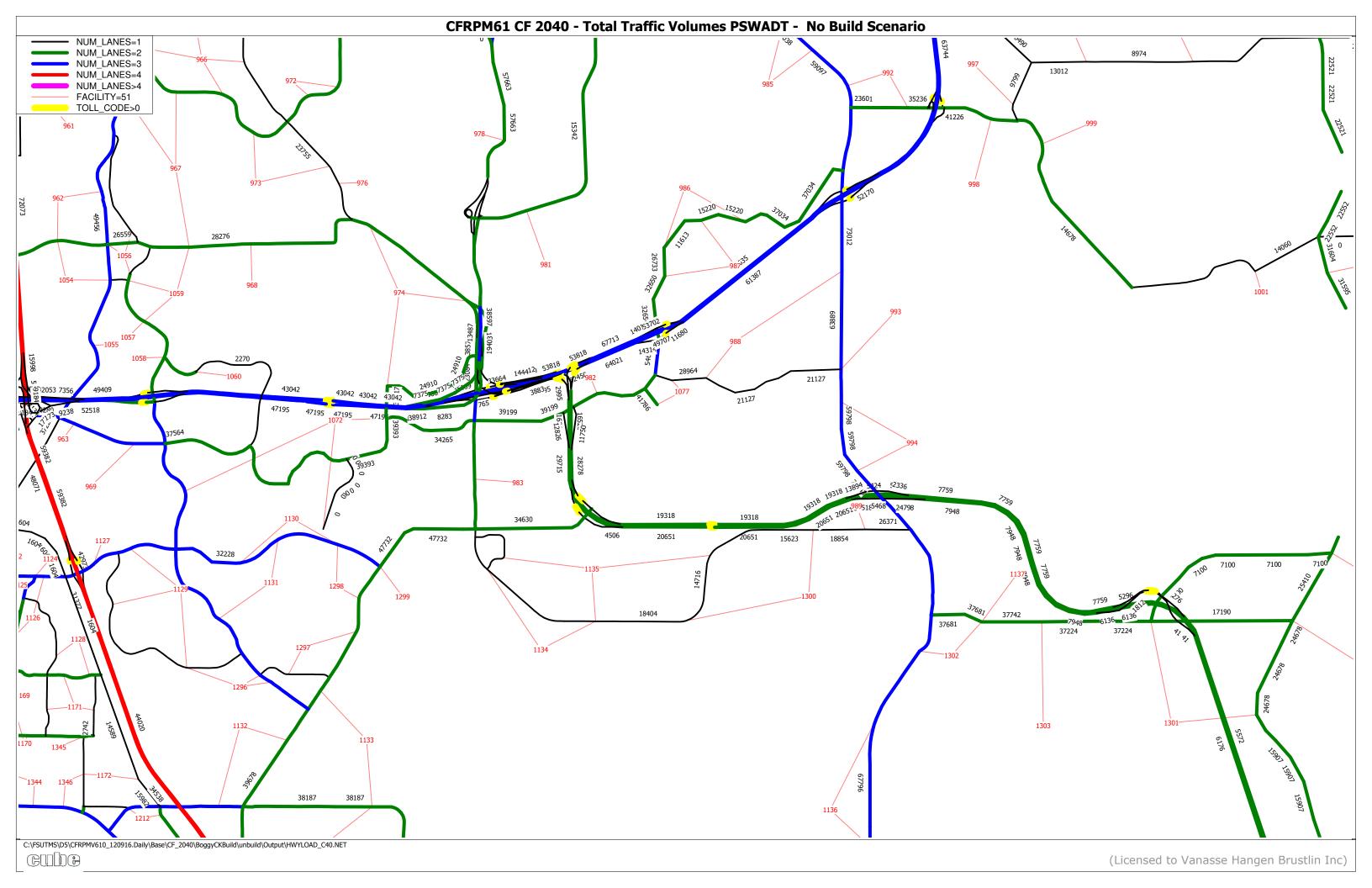


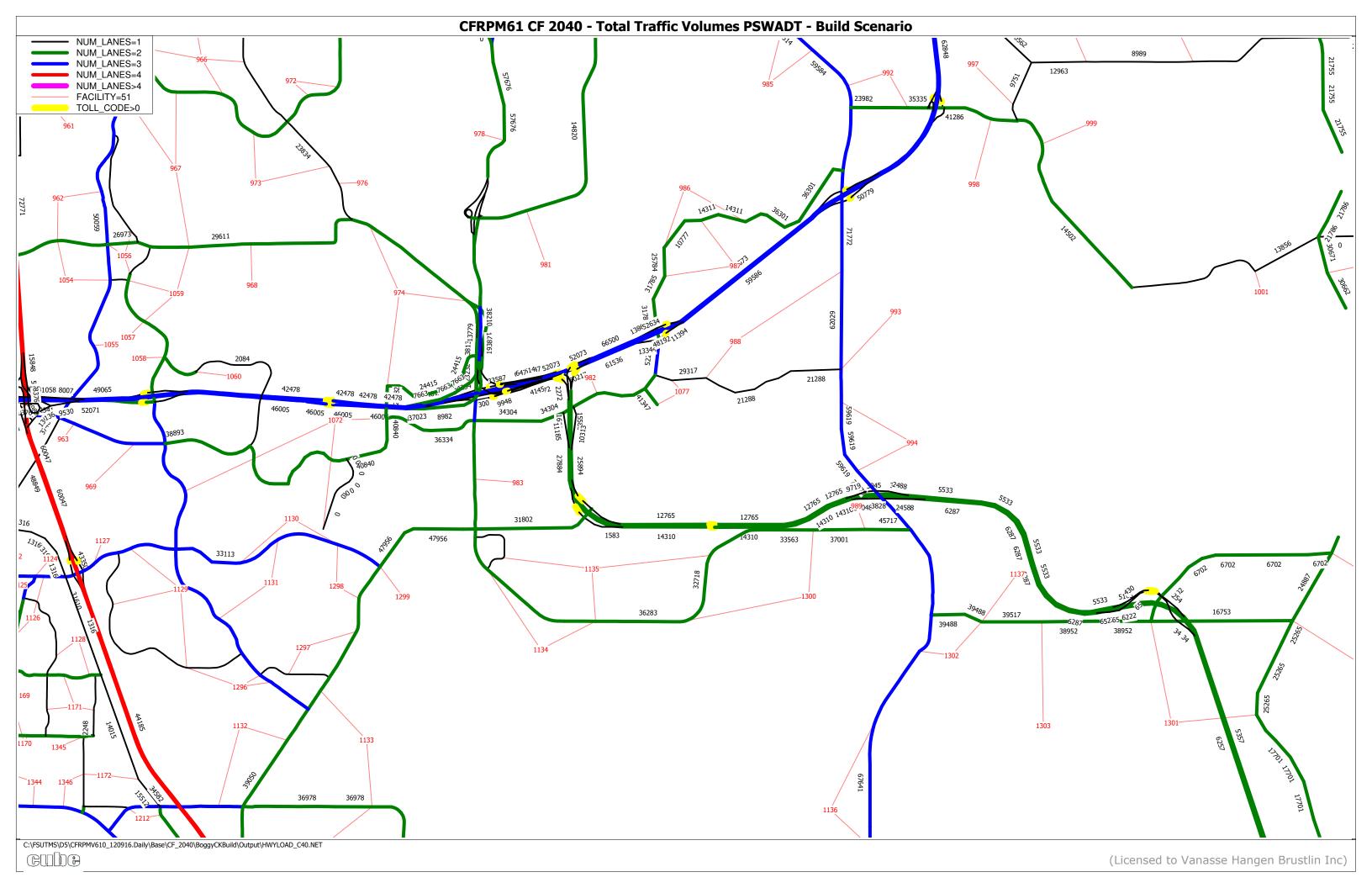




# Appendix F

2040 Model Plots





## **Appendix G**

## **BEBR Population Forecasts**



### Florida Population Studies

Volume 53, Bulletin 186, January 2020

# Projections of Florida Population by County, 2020–2045, with Estimates for 2019

Stefan Rayer, Population Program Director Ying Wang, Research Demographer

The Bureau of Economic and Business Research (BEBR) has been making population projections for Florida and its counties since the 1970s. This report presents our most recent set of projections and describes the methodology used to construct those projections. To account for uncertainty regarding future population growth, we publish three series of projections. We believe the medium series is the most likely to provide accurate forecasts in most circumstances, but the low and high series provide an indication of the uncertainty surrounding the medium series. It should be noted that these projections refer solely to permanent residents of Florida; they do not include tourists or seasonal residents.

### State projections

The starting point for the state-level projections was the April 1, 2010 census population count by age, sex, race, and Hispanic origin, as adjusted by the National Center for Health Statistics (NCHS) in the Vintage 2017 bridged race population estimates. Projections were made in one-year intervals using a cohort-component methodology in which births, deaths, and migration are projected separately for each age-sex cohort in Florida for non-Hispanic whites, non-Hispanic nonwhites, and Hispanics. We applied three different sets of assumptions to provide low, medium, and high series of projections. Although the

low and high series do not provide absolute bounds on future population change, they provide a reasonable range in which Florida's future population is likely to fall.

Survival rates were applied by single year of age, sex, race, and Hispanic origin to project future deaths in the population. These rates were based on Florida Life Tables for 2007–2013, using mortality data published by the Office of Vital Statistics in the Florida Department of Health. The survival rates were adjusted upward each year until 2044 to account for projected increases in life expectancy. These adjustments were based on projected increases in survival rates released by the U.S. Census Bureau. We used the same mortality assumptions for all three series of projections because there is less uncertainty regarding future changes in mortality rates than is true for migration and fertility rates.

Domestic migration rates by age and sex were based on Public Use Microdata Sample (PUMS) files from the 2005–2009 and 2013–2017 American Community Survey (ACS) 5-year estimates. We chose an average of those two sets of migration estimates because the recession of 2007–2009 had a substantial impact on migration patterns in Florida, affecting inand out-migration in both time periods; in addition, projections based on more than one time period

# Projections of Florida Population by County, 2020–2045, with Estimates for 2019 (continued)

County	Estimates			Projections, /	April 1		
and State	April 1, 2019	2020	2025	2030	2035	2040	2045
MIAMI-DADE Low Medium High	2,812,130	2,734,000 2,849,900 2,961,800	2,815,500 3,022,600 3,214,300	2,873,400 3,167,900 3,458,200	2,917,900 3,294,700 3,679,000	2,938,500 3,399,200 3,875,800	2,944,500 3,489,900 4,057,700
MONROE Low Medium High	76,212	73,200 76,300 79,300	71,500 76,500 81,900	69,800 76,800 84,500	68,100 77,100 87,000	66,400 77,400 89,200	64,700 77,700 91,400
NASSAU Low Medium High	85,070	81,600 86,900 92,100	86,200 95,800 104,300	89,400 103,100 116,100	91,200 109,100 127,200	92,100 114,300 137,500	92,500 118,900 148,000
OKALOOSA Low Medium High	201,514	195,500 203,800 211,800	199,600 214,300 227,900	202,500 223,300 243,700	203,600 230,400 256,800	203,900 236,600 269,000	203,900 242,300 280,900
OKEECHOBEE Low Medium High	41,808	40,400 42,100 43,800	40,600 43,400 46,500	40,400 44,400 48,900	40,200 45,300 51,300	39,800 46,000 53,500	39,400 46,700 55,700
ORANGE Low Medium High	1,386,080	1,346,300 1,418,900 1,488,000	1,439,500 1,573,000 1,686,200	1,504,600 1,696,800 1,869,600	1,548,500 1,797,400 2,029,700	1,584,300 1,888,700 2,188,600	1,610,900 1,972,200 2,344,100
OSCEOLA Low Medium High	370,552	361,000 384,800 407,000	406,300 452,100 488,400	442,500 510,200 568,000	469,700 558,900 640,700	491,000 602,200 711,600	508,900 642,600 783,900
PALM BEACH Low Medium High	1,447,857	1,406,300 1,465,800 1,523,500	1,441,300 1,547,200 1,645,400	1,465,900 1,616,500 1,764,200	1,483,700 1,676,600 1,870,700	1,494,900 1,729,500 1,971,800	1,497,500 1,775,200 2,063,600
PASCO Low Medium High	527,122	515,300 537,300 558,300	545,800 586,100 623,100	569,400 626,800 685,200	585,600 659,200 738,300	597,100 686,700 787,600	605,200 711,000 833,900
PINELLAS Low Medium High	978,045	955,000 984,900 1,014,100	962,400 1,014,400 1,069,900	962,500 1,035,600 1,120,200	957,600 1,051,300 1,158,700	953,600 1,066,600 1,197,400	948,200 1,080,600 1,233,300
POLK Low Medium High	690,606	668,200 704,100 738,500	701,500 766,400 821,700	723,800 817,000 899,500	737,600 858,000 966,700	745,000 893,100 1,029,200	748,800 924,700 1,089,600
PUTNAM Low Medium High	73,268	70,400 73,300 76,300	68,700 73,600 78,700	66,900 73,700 81,100	65,300 73,900 83,400	63,500 74,100 85,400	61,800 74,300 87,300
ST. JOHNS Low Medium High	254,412	247,500 263,900 279,200	278,000 309,300 334,200	301,300 347,600 386,800	318,500 379,400 434,500	332,400 408,100 481,800	343,900 434,900 529,700
ST. LUCIE Low Medium High	309,359	302,300 315,200 327,500	319,300 342,900 364,600	333,800 367,500 401,700	344,300 387,400 434,100	352,000 404,400 464,300	357,600 419,400 492,800

## **Appendix H**

## Trends Analysis

# Traffic Trends - V3.0 North of Simpson Road

FIN#	Boggy Creek Road PTAR
Location	1

County:	Orange (75)
Station #:	8141
Highway:	BOGGY CREEK RD

	90000				
	80000	Observed Count  Fitted Curve			
(Day)	70000				
nicles/	60000				
Average Daily Traffic (Vehicles/Day)	50000 -				
y Traff	40000 -				
Je Dail	30000				
Averaç	20000				
	10000				
	0 2016	2021 2026	2031	2036	2041
	2010	2021 2020	Year	2000	2071

** Annual Trend Increase:	1,760					
Trend R-squared:	88.91%					
Trend Annual Historic Growth Rate:	6.12%					
Trend Growth Rate (2019 to Design Year):	5.26%					
Printed:	28-Oct-20					
Straight Line Growth Option						

	Traffic (AD	T/AADT)
Year	Count*	Trend**
2016	27500	28300
2017	31000	30000
2018	32100	31800
2019	33000	33500
	5 Opening Yea	
2025	N/A	44100
	035 Mid-Year T	
2035	N/A I5 Design Year	61700 Trend
2045	N/A	79300
	PLAN Forecas	
	T EANT GIECAS	io/Helius

\*Axle-Adjusted

### **Traffic Trends - V3.0**

### Simpson Road to Austin Tyndell Park

	<del></del>	
FIN#	Boggy Creek	Road PTAR
Location	2	

County:	Osceola (92)
Station #:	474
Highway:	BOGGY CREEK ROAD

	0000
	5000 - Observed Count
ay)	0000 -
les/D	5000 -
Vehic	0000 -
raffic	5000 -
aily T	0000 -
Average Daily Traffic (Vehicles/Day)	5000
Aver	0000
	5000 -
	0 2012 2017 2022 2027 2032 2037 2042
	Year

** Annual Trend Increase:	940
Trend R-squared:	83.37%
Trend Annual Historic Growth Rate:	7.03%
Trend Growth Rate (2019 to Design Year):	4.78%
Printed:	28-Oct-20
Straight Line Growth Option	

Traffic (ADT/AADT)				
Year	Count*	Trend**		
2012	14200	13200		
2013	12500	14100		
2014	14300	15000		
2015	16200	16000		
2016	18000	16900		
2017	18600	17900		
2018	19200	18800		
2019	18600	19700		
	5 Opening Yea			
2025	N/A	25400		
2035	035 Mid-Year T N/A	rend 34800		
	N/A I5 Design Year			
2045	N/A	44200		
	PLAN Forecas			
	LANT OFCOAS			

\*Axle-Adjusted

### **Traffic Trends - V3.0**

### **Austin Tyndell Park to Narcoossee Road**

FIN#	Boggy Creek Road PTAR
Location	3

County:	Osceola (92)	
Station #:	475	
Highway:	BOGGY CREEK ROAD	

	45000
	40000 - Observed Count - Fitted Curve
Day	35000
hicles/	30000 -
(Ve	25000 -
V Traff	20000 -
le Dail	15000
Average Daily Traffic (Vehicles/Dav)	10000
	5000
	0 2012 2017 2022 2027 2032 2037 2042
	Year

** Annual Trend Increase:	1,038
Trend R-squared:	92.38%
Trend Annual Historic Growth Rate:	13.90%
Trend Growth Rate (2019 to Design Year):	6.99%
Printed:	28-Oct-20
Straight Line Growth Option	

Traffic (ADT/AADT)				
Year	Count*	Trend**		
2012	7400	7500		
2013	8400	8500		
2014	9500	9600		
2015	10500	10600		
2016	12600	11600		
2017	13100	12700		
2018	12200	13700		
2019	15300	14800		
	5 Opening Yea			
2025	N/A	21000		
2035	035 Mid-Year T N/A	rena 31400		
2035 204				
2045	Design real N/A	41700		
	PLAN Forecas			
	LANT OFCES	io/ Helius		

\*Axle-Adjusted

## Traffic Trends - V3.0 North of Simpson Road

FIN#	Boggy Creek Road PTAR
Location	1

County:	Orange (75)	
Station #:	8064	
Highway:	BOGGY CREEK RD	

120000 —						
100000 - <b>(kg</b>						
/ehicles/E						
Average Daily Traffic (Vehicles/Day) 00000 000008						
age Dail)						
20000 - 0						
20	013 2018	2023	2028	2033	2038	2043
			Year			

i eai	
** Annual Trend Increase:	2,625
Trend R-squared:	84.75%
Trend Annual Historic Growth Rate:	14.79%
Trend Growth Rate (2019 to Design Year):	7.81%
Printed:	28-Oct-20
Straight Line Growth Option	

	Traffic (AD	T/AADT)
Year	Count*	Trend**
2013	17200	17800
2014	21200	20500
2015	23000	23100
2016	22800	25700
2017	33100	28300
2018	30700	31000
2019	32000	33600
	5 Opening Yea	
2025	N/A	49300
	035 Mid-Year T N/A	rend 75600
2035	N/A 15 Design Year	
2045	N/A	101800
	PLAN Forecas	

\*Axle-Adjusted

### Traffic Trends - V3.0 South of Boggy Creek Road

FIN#	Boggy Creek Road PTAR
Location	1

County:	Orange (75)		
Station #:	551		
Highway:	NARCOOSSEE RD		

	90000				
	80000	Observed Count Fitted Curve			
(Day)	70000				
hicles/	60000 +				
Average Daily Traffic (Vehicles/Day)	50000				
y Trafi	40000				
ge Dail	30000				
Avera	20000				
	10000				
	0 2017	2022 2027	2032	2037 20	042
			Year		

Year	Count*	Trend**
2017	31200	30800
2018	31900	32700
2019	35100	34700
202	5 Opening Yea	r Trend
2025	N/A	46400
2	035 Mid-Year 1	rend
2035	N/A	65900
204	15 Design Year	Trend
2045	N/A	85400
TRAN	PLAN Forecas	ts/Trends

Traffic (ADT/AADT)

\*\* Annual Trend Increase: 1,950
Trend R-squared: 87.95%
Trend Annual Historic Growth Rate: 6.33%
Trend Growth Rate (2019 to Design Year): 5.62%
Printed: 28-Oct-20
Straight Line Growth Option

\*Axle-Adjusted

### **Traffic Trends - V3.0**

### Simpson Road to Austin Tyndell Park

	Jiiii peeti.	reduce to readening symmetry
FIN#	Boggy Creek	Road PTAR
Location	2	

County:	Osceola (92)	
Station #:	479	
Highway:	SIMPSON ROAD	

	50000				
	45000	Observed Count Fitted Curve			
ay)	40000	, 1100 04110			
les/D	35000				
(Vehic	30000 +				
raffic	25000				
aily T	20000				
Average Daily Traffic (Vehicles/Day)	15000				
Aver	10000				
	5000				
	0 2012	2017 202	22 2027	2032	2037 2042
				ear	

Year	Count*	Trend**
2012	22900	22700
2013	23600	23400
2014	24000	24000
2015	24400	24700
2016	25100	25400
2017	25800	26100
2018 2019	26800 27900	26800 27400
2019	27900	27400
	5 Opening Yea	
2025	N/A	31500
	035 Mid-Year T	
2035	N/A	38300
	15 Design Year	
2045	N/A	45100
TRAN	PLAN Forecas	ts/ I rends

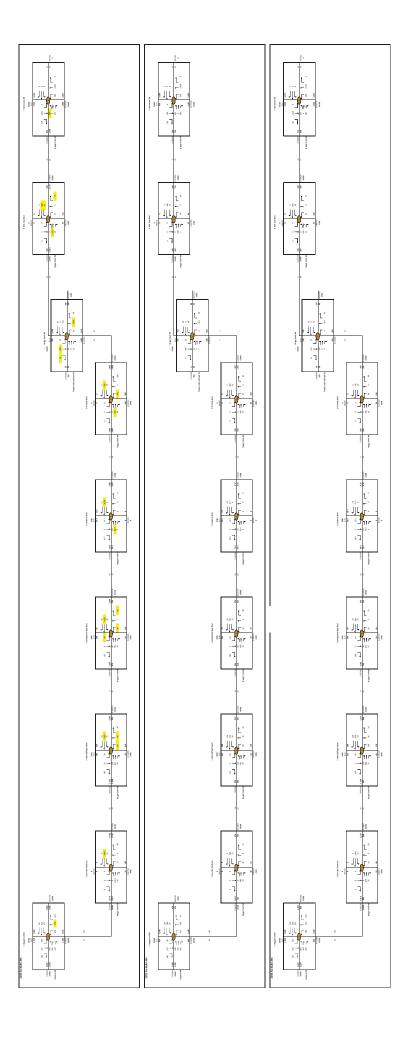
Traffic (ADT/AADT)

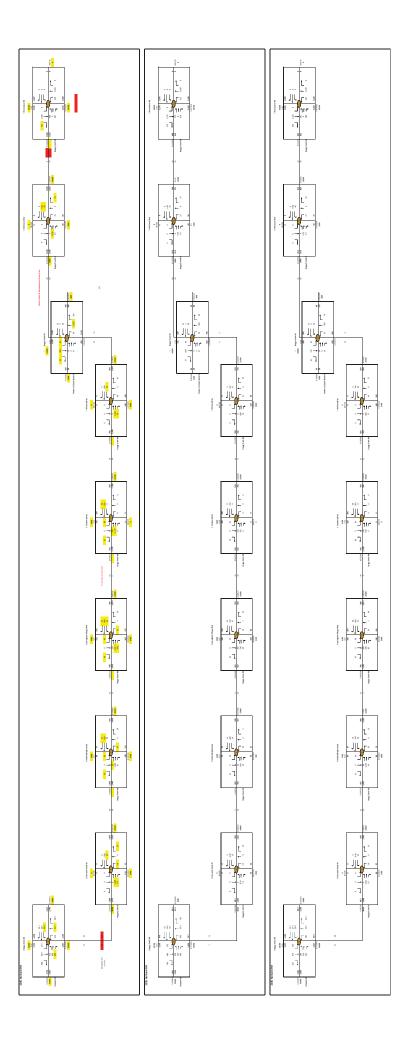
** Annual Trend Increase:	680
Trend R-squared:	97.04%
Trend Annual Historic Growth Rate:	2.96%
Trend Growth Rate (2019 to Design Year):	2.48%
Printed:	28-Oct-20
Straight Line Growth Option	

\*Axle-Adjusted

## Appendix I

## TURNS5 Output Sheets



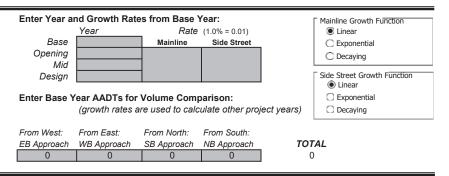


Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	BOGGY CRE	EK RD	If not, which 3 approaches exist in the
Intersection:	SIMPSON RD- N	o Build AM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 9.00%	D Factors Northbound (NB) Southbound (SB) Westbound (WB) Eastbound (EB)	Mainline 58.9% 41.1% Side street 55.6% 44.4%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

Year		
Base	2020	
Opening	2025	
Mid	2035	
Design	2045	
Model	2045	

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2020	34000	100	31000	20000	85100
2045	42000	36000	34000	29000	141000

	1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2020	ited	First Guess Turning % Option Used FSUTMS Model Year AADTs
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	41.8% 33.3% 24.9%	0 0 0	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	21.6% 42.2% 36.2% 31.2% 23.2% 45.6%	0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to-West (NB THRU) South-to-North (NB RT) South-to-East  Desired Closure:	39.3% 33.8% 26.9%	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: BOGGY CREEK RD SIMPSON RD- No Build AM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

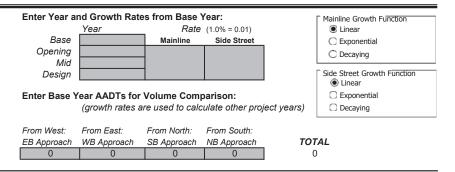
	2020	2	2020	2	2025	2	2035	2045	45
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.418	0.719	226	0.638	806	0.504	781	0.401	673
West-To-East (Thru)	0.333	0.001	~	0.083	118	0.230	357	0.353	592
West-To-South (RT)	0.249	0.280	381	0.279	397	0.266	412	0.246	413
Total Flow From West:	it:		1359		1423		1550		1678
East-To-South (LT)	0.216	0.146	1	0.160	58	0.186	201	0.208	375
East-To-West (Thru)	0.422	0.480	5	0.474	173	0.461	200	0.453	815
East-To-North (RT)	0.362	0.374	5	0.366	133	0.353	382	0.339	611
Total Flow From East:			2		364		1083		1801
North-To-East (LT)	0.312	0.001	~	0.070	82	0.200	243	0.312	392
North-To-South (Thru)	0.232	0.232	266 880	0.234	273 814	0.229	277 693	0.216	272
Total Flow From North:	:h:		1147		1169		1213		1258
South-To-West (LT)	0.393	0.560	594	0.533	616	0.472	635	0.415	638
South-To-North (Thru)	0.338	0.439	465	0.413	478	0.363	489	0.311	478
South-To-East (RT)	0.269	0.001	_	0.054	62	0.165	222	0.274	421
Total Flow From South:	th:		1060		1156		1346		1537

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	BOGGY CRE	EEK RD	If not, which 3 approaches exist in the
Intersection:	SIMPSON RD- N	lo Build PM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	ee Rd	◯ EB, WB, and NB
County:	Osceo	la	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		○ WB, SB, and NB
K Factors	Mainline 9.00% Side street	D Factors Northbound (NB) Southbound (SB)	Mainline 41.1% 58.9%
	9.00%	Westbound (WB) Eastbound (EB)	Side street 44.4% 55.6%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2020
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2020	34000	100	31000	20000	85100
2045	42000	36000	34000	29000	141000

		1st Guess urning %'s for DT Balancing	Actual/Coun Traffic for 2020	ted	First Guess Turning % Option Used FSUTMS Model Year AADTs
(EB THRU) (EB RT)	West-to-North West-to-East West-to-South	27.4% 39.2% 33.4%	0 0 0	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB THRU) I (WB RT) I (SB LT) (SB THRU)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	34.4% 37.5% 28.1% 35.9% 30.6% 33.5%	0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> distribution of turning volumes <u>entered</u> . No balancing technique is used.
(NB THRU)	South-to-West South-to-North South-to-East re:	35.4% 26.6% 38.0%	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: BOGGY CREEK RD SIMPSON RD- No Build PM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

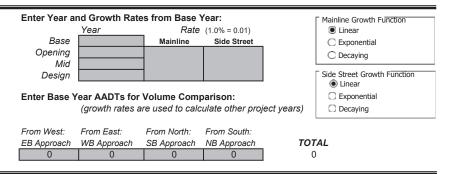
	2020	2	2020	20	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.274	0.596	1014	0.508	902	0.379	736	0.290	610
West-To-East (Thru) West-To-South (RT)	0.392 0.334	0.002	3 684	0.107 0.385	190 686	0.273 0.348	530 676	0.399 0.311	838 654
Total Flow From West:	est:		1701		1781		1942		2102
East-To-South (LT)	0.344	0.219	← c	0.238	69	0.273	236	0.300	432
East-To-North (RT)	0.281	0.324	7 —	0.430	91	0.295	255	0.279	401
Total Flow From East:	ıst:		4		291		865		1439
North-To-East (LT)	0.359	0.001	2	0.088	147	0.232	403	0.347	625
North-To-West (RT)	0.335	0.676	1111	0.597	1000	0.471	819	0.382	9,88 9,88 9,88
Total Flow From North:	orth:		1643		1675		1739		1802
South-To-West (LT)	0.354	0.584	432	0.542	437	0.459	431	0.388	416
South-To-North (Thru) South-To-East (RT)	0.266 0.380	0.415 0.001	307	0.378	305 64	0.314 0.227	296 213	0.258	277
Total Flow From South:	outh:		740		806		940		1073

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build AM	If not, which 3 approaches exist in the
Intersection:	E lake Poi	nt Dr	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	■ EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No  ○ Yes  ● No		○ WB, SB, and NB
K Factors	Mainline 9.00%	D Factors Westbound (WB)	Mainline 58.9%
,	Side street	Eastbound (EB)	41.1%
l	8.50%	_	Side street
		Northbound (NB)	70.0%
		Southbound (SB)	0.0%
·			

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	20000	19000	0	1100	40100
2045	29000	27500	0	2200	58700

	1st Guess Actua Furning %'s for Traffic ADT Balancing for 20		First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	0.0%         0           98.3%         58           1.7%         10	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	1.0% 8 99.0% 82 0.0% 0 0.0% 0 0.0% 0 0.0% 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> distribution of turning volumes <u>entered</u> . No balancing technique is used.
(NB LT) South-to-West (NB THRU) South-to-North (NB RT) South-to-East  Desired Closure:		FSUTMS Model Year	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build AM E lake Point Dr Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

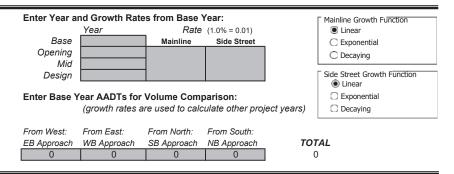
	2019	2	2019	2(	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru)	0.000	0.000	0 713	0.000	0 788	0.000 0.963	0 910	0.000	0 1031
West-To-South (RT)  Total Flow From West:	0.017 est:	0.036	27 <b>740</b>	0.036	29	0.037	35 <b>945</b>	0.039	42 1073
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.010 0.990 0.000	0.003 0.997 0.000	3 1004 0	0.006 0.994 0.000	7 1104 0	0.008 0.992 0.000	10 1274 0	0.010 0.990 0.000	15 1443 0
Total Flow From East:	ast:		1007		1111		1284		1458
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000	0.000	0	0.000 0.000 0.000	000	0.000 0.000 0.000	0 0 0	0.000	000
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.696 0.000 0.304	0.944 0.000 0.056	61 0 4	0.893 0.000 0.107	72 0 9	0.860 0.000 0.140	91 0 15	0.839 0.000 0.161	110 0 21
Total Flow From South:	outh:		65		81		106		131

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build PM	If not, which 3 approaches exist in the
Intersection:	E lake Poir	nt Dr	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No  ○ Yes  ● No		O WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
I	9.00%	Westbound (WB)	41.1%
	Side street	Eastbound (EB)	58.9%
	8.50%		Side street
		Northbound (NB)	70.0%
		Southbound (SB)	0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	20000	19000	0	1100	40100
2045	29000	27500	0	2200	58700

		1st Guess urning %'s for DT Balancing	Actual/Coun Traffic for 2019	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	0.0% 95.4% 4.6%	0 843 41	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North  North-to-East North-to-South North-to-West	3.2% 96.8% 0.0% 0.0% 0.0% 0.0%	18 549 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Closu	South-to-West South-to-North South-to-East Ire:	50.0% 0.0% 50.0%	18 0 18	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build PM E lake Point Dr Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

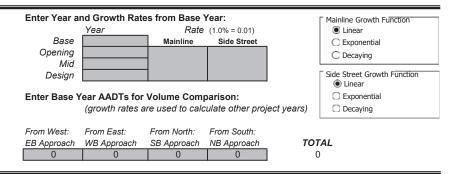
2019	2019	20	019	2(	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-East (Thru)	0.954	0.976	1035	0.974	1140	0.971	1315	0.969	1489
West-To-South (RT)	0.046	0.024	25	0.026	30	0.029	36	0.031	48
Total Flow From West:	est:		1060		1170		1354		1537
East-To-South (LT) East-To-West (Thru)	0.032	0.005	4	0.007	5	0.009	8 888	0.010	10
East-To-North (RT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
Total Flow From East:	ıst:		703		775		968		1017
North-To-East (LT)	0.000	0.000	Õ	0.000	Ô	0.000	0	0.000	0
North-To-South (Thru) North-To-West (RT)	0.000	0.000	0 0	0.000	0 0	0.000	0 0	0.000	0 0
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT)	0.500	0.767	50	0.725	59	0.702	74	0.685	06
South-To-North (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
South-To-East (RT)	0.500	0.233	15	0.275	22	0.298	32	0.315	41
Total Flow From South:	outh:		65		81		106		131

Analyst:	VHE	3	Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- No Build AM	If not, which 3 approaches exist in the
Intersection:	Nele F	₹d	intersection?
Project:	Boggy Creek Rd fror	n Simpson Rd to	◯ EB, WB, and SB
	Narcooss	ee Rd	○ EB, WB, and NB
County:	Osceo	ola	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No  Yes  No		O WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
I	9.00%	Westbound (WB)	58.9%
	Side street	Eastbound (EB)	41.1%
	9.00%	_	Side street
		Northbound (NB)	54.0%
		Southbound (SB)	46.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	19000	18000	5800	600	43400
2045	27500	26000	6600	2300	62400

	1st Guess Turning %'s for	Actual/Coun Traffic	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT)         West-to-N           (EB THRU)         West-to-E           (EB RT)         West-to-S	ast 76.9%	110 453 26	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB LT)	Pest 81.1% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 16.3% 1	19 587 118 85 0 170	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual distribution of turning volumes entered</u> . No balancing technique is used.
(NB LT) South-to-I (NB THRU) South-to-I (NB RT) South-to-Desired Closure:	Vorth 44.4%	33 40 17	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build AM Nele Rd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	2	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.187	0.174	122	0.159	123	0.141	126	0.127	129
West-To-East (Thru) West-To-South (RT)	0.769 0.044	0.807	568 13	0.812 0.029	630 22	0.817	732 38	0.821 0.052	835 53
Total Flow From West:	est:		703		775		896		1017
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.026 0.811 0.163	0.011 0.840 0.149	10 802 142	0.017 0.846 0.137	18 890 144	0.024 0.855 0.121	29 1039 147	0.030 0.861 0.109	41 1187 150
Total Flow From East:	st:		954		1052		1215		1378
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.333 0.000 0.667	0.332 0.000 0.668	80 0 160	0.332 0.000 0.668	82 0 166	0.331 0.000 0.669	86 0 174	0.331 0.000 0.669	90 0 183
Total Flow From North:	rth:		240		248		260		273
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.367 0.444 0.189	0.387 0.414 0.199	11 12 6	0.402 0.392 0.206	61 01	0.423 0.361 0.216	34 29 17	0.440 0.336 0.224	49 38 25
Total Flow From South:	uth:		29		48		80		112

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build PM	If not, which 3 approaches exist in the
Intersection:	Nele F	Rd	intersection?
Project:	Boggy Creek Rd fron	n Simpson Rd to	○ EB, WB, and SB
	Narcooss	ee Rd	○ EB, WB, and NB
County:	Osceo	ola	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		○ WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
I	9.00%	Westbound (WB)	41.1%
	Side street	Eastbound (EB)	58.9%
	9.00%	_	Side street
		Northbound (NB)	46.0%
		Southbound (SB)	54.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

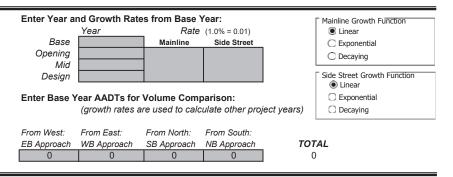
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	19000	18000	5800	600	43400
2045	27500	26000	6600	2300	62400

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	4.6% 93.6% 1.8%	39 792 15	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	1.8% 96.0% 2.2% 35.3% 0.0% 64.7%	10 526 12 24 0 44	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	83.3% 0.0% 16.7%	5 0 1	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build PM Nele Rd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

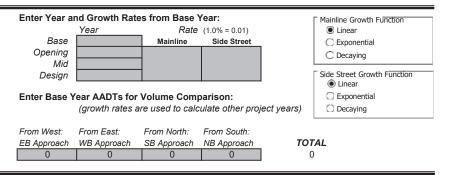
	2019	2	2019	2	2025	2	2035	20	2045
Approach-To-	Initial	Final	Calculated	Final	Calculated	Final	Calculated	Final	Calculated
Approach	Estimate	Estimate	Volume	Estimate	Volume	Estimate	Volume	Estimate	Volume
West-To-North (LT)	0.046	0.162	163	0.150	167	0.137	176	0.127	185
West-To-East (Thru)	0.936	0.824	830	0.829	921	0.832	1068	0.834	1216
West-To-South (RT)	0.018	0.014	14	0.021	23	0.031	40	0.039	57
Total Flow From West:	st:		1007		1111		1284		1458
East-To-South (LT)	0.018	0.022	15	0.035	26	0.050	42	0.061	59
East-To-West (Thru)	0.960	0.854	568	0.848	622	0.845	717	0.843	811
East-To-North (RT)	0.022	0.124	83	0.117	86	0.105	89	0.096	92
Total Flow From East:	st:		999		734		848		962
North-To-East (LT)	0.353	0.464	131	0.471	137	0.470	144	0.468	150
North-To-South (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
North-To-West (RT)	0.647	0.536	151	0.529	154	0.530	162	0.532	171
Total Flow From North:	rth:		282		291		306		321
South-To-West (LT)	0.833	0.759	19	0.753	31	0.754	51	0.755	72
South-To-North (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
South-To-East (RT)	0.167	0.241	6	0.247	10	0.246	17	0.245	23
Total Flow From South:	uth:		25		41		68		95

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build AM	If not, which 3 approaches exist in the
Intersection:	Springlake Villa	age Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	◯ EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	0.00		O WB, SB, and NB
K Factors		D Factors	Mainline
	9.00%	Westbound (WB)	58.9%
	Side street	Eastbound (EB)	41.1%
	8.60%		Side street
		Northbound (NB)	25.0%
		Southbound (SB)	75.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	18000	16000	3800	1700	39500
2045	26000	23000	4300	2600	55900

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	7.0% 90.2% 2.8%	38 489 15	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	1.0% 94.2% 4.8% 23.3% 0.0% 76.7%	5 487 25 57 0 188	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual distribution of turning volumes entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	48.4% 4.8% 46.8%	30 3 29	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build AM Springlake Village Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Intersection: Project: Highway:

	2019	.,	2019	2	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru) West-To-South (RT)	0.070 0.902 0.028	0.067 0.816 0.117	45 543 78	0.062 0.819 0.119	46 601 87	0.056 0.823 0.121	47 698 103	0.052 0.823 0.125	50 792 120
Total Flow From West:	st:		999		734		848		962
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.010 0.942 0.048	0.041 0.914 0.045	35 775 38	0.042 0.917 0.041	39 857 38	0.042 0.921 0.037	45 992 40	0.041 0.926 0.033	50 1129 40
Total Flow From East:	st:		848		934		1077		1219
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.233 0.000 0.767	0.219 0.000 0.781	54 0 191	0.218 0.000 0.782	55 0 198	0.215 0.000 0.785	57 0 208	0.208 0.000 0.792	58 0 219
Total Flow From North:	rth:		245		253		265		277
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.484 0.048 0.468	0.503 0.048 0.449	19 17	0.507 0.044 0.449	21 2 18	0.512 0.041 0.447	25 2 21	0.525 0.037 0.438	29 2 25
Total Flow From South:	uth:		37		41		48		56

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build PM	If not, which 3 approaches exist in the
Intersection:	Springlake Vill	age Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
-	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Westbound (WB)	41.1%
	Side street	Eastbound (EB)	58.9%
	8.60%		Side street
		Northbound (NB)	75.0%
		Southbound (SB)	25.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year a	nd Growth Rate	s from Base \	ear:		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		○ Exponential
Opening Mid					O Decaying
Design					Side Street Growth Function  © Linear
Enter Base Y	ear AADTs for \		○ Exponential		
	(growth rates ar	e used to calc	ulate other proj	iect years)	☐ Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TOT	TAL
0	0	0	0	(	)

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	18000	16000	3800	1700	39500
2045	26000	23000	4300	2600	55900

	1st Guess Turning %'s for AADT Balancing	Traffic	ed	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-No (EB THRU) West-to-Ea: (EB RT) West-to-Soi	th 19.7% et 73.8%	164 614 54	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB LT)         East-to-Sou           (WB THRU)         East-to-We           (WB RT)         East-to-Nor           (SB LT)         North-to-Ea           (SB THRU)         North-to-So           (SB RT)         North-to-We	81.0% h 14.0% st 34.0% uth 0.0%	28 450 78 33 0 64	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT)         South-to-W           (NB THRU)         South-to-Nc           (NB RT)         South-to-Ea           Desired Closure:	rth 9.3%	41 7 27	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build PM Springlake Village Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

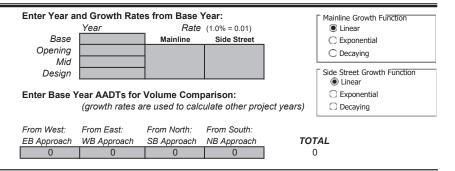
	2019	2	2019	20	2025	2	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-East (Thru)	0.197	0.171	163 766	0.162	170 854	0.151	183 998	0.143	197 1141
West-To-South (RT)  Total Flow From West:	0.065 sst:	0.026	25 <b>954</b>	0.027	28 <b>1052</b>	0.028	34 1215	0.029	40 1378
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.050 0.810 0.140	0.019 0.868 0.113	11 514 67	0.019 0.876 0.105	12 572 68	0.018 0.890 0.092	14 668 69	0.018 0.900 0.082	15 766 70
Total Flow From East:	st:		592		652		751		851
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.340 0.000 0.660	0.326 0.000 0.674	27 0 55	0.323 0.000 0.677	27 0 57	0.309 0.000 0.691	27 0 61	0.296 0.000 0.704	27 0 65
Total Flow From North:	rth:		82		84		88		92
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.547 0.093 0.360	0.573 0.073 0.354	63 8 39	0.578 0.069 0.353	71 9 43	0.598 0.061 0.341	87 9 49	0.614 0.055 0.331	103 9 56
Total Flow From South:	uth:		110		123		145		168

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build AM	If not, which 3 approaches exist in the
Intersection:	Turnberry	Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	● EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.30%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 58.9% 41.1% Side street 0.0% 66.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	4500	0	36500
2045	23000	23000	5100	0	51100

		1st Guess urning %'s for DT Balancing	Actual/Coun Traffic for 2019	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB THRU)	West-to-North West-to-East West-to-South	11.8% 88.2% 0.0%	55 412 0	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB THRU) (WB RT) (SB LT) (SB THRU)	East-to-South East-to-West East-to-North  North-to-East North-to-South North-to-West	0.0% 90.7% 9.3% 37.9% 0.0% 62.1%	0 361 37 120 0 197	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered.</u> No balancing technique is used.
(NB THRU)	South-to-West South-to-North South-to-East re:	0.0% 0.0% 0.0% 0.50	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build AM Turnberry Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	2(	2025		2035	2045	45
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru)	0.118	0.106 0.894	63 529	0.099	65 587	0.090	68 683	0.083 0.917	71 780
West-To-South (RT)  Total Flow From West:	0.000 est:	0.000	0 <b>592</b>	0.000	0 <b>652</b>	0.000	0 <b>751</b>	0.000	0 <b>851</b>
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.000 0.907 0.093	0.000 0.913 0.087	0 774 74	0.000 0.919 0.081	0 858 76	0.000 0.927 0.073	0 998 79	0.000 0.932 0.068	0 1136 83
Total Flow From East:	ıst:		848		934		1077		1219
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.379 0.000 0.621	0.389 0.000 0.611	96 0 151	0.389 0.000 0.611	99 0 155	0.389 0.000 0.611	104 0 163	0.389 0.000 0.611	109 0 170
Total Flow From North:	orth:		247		254		267		279
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.000	0.000	0	0.000	0 0 0	0.000	0	0.000	0 0 0
Total Flow From South:	outh:		0		0		0		0

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build PM	If not, which 3 approaches exist in the
Intersection:	Turnberry I	Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	● EB, WB, and SB
	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.30%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 41.1% 58.9% Side street 0.0% 66.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

Enter Yes or No

Yes

No

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year a	nd Growth Rate	s from Base \	Year:		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		Linear
Base		Mainline	Side Street		○ Exponential
Opening Mid					○ Decaying
Design					Side Street Growth Function  © Linear
Enter Base Y	ear AADTs for	Volume Comi	parison:		○ Exponential
	(growth rates ar			ect years)	☐ Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TO1	TAL
0	0	0	0	C	)

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	4500	0	36500
2045	23000	23000	5100	0	51100

,	1st Guess Turning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	84.1%	109 578 0	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West		0 451 71 79 0 77	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to-Wes (NB THRU) South-to-Norti (NB RT) South-to-East Desired Closure:	0.0%	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build PM Turnberry Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	20	2025	.7	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.159	0.092	78	0.085	62	220.0	83	0.071	87
West-To-East (Thru) West-To-South (RT)	0.841	0.908	770 0	0.915 0.000	855 0	0.923	994	0.929	1132 0
Total Flow From West:	est:		848		934		1077		1219
East-To-South (LT) East-To-West (Thru)	0.000	0.000	0 533	0.000	0 591	0.000	0 688	0.000	0 785
East-10-North (R1)  Total Flow From East:	0. 130 I <b>st:</b>	0.100	59 <b>2</b>	0.093	652	0.004	63 <b>751</b>	0.07.0	851
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.506 0.000 0.494	0.576 0.000 0.424	142 0 105	0.575 0.000 0.425	146 0 108	0.575 0.000 0.425	154 0 113	0.575 0.000 0.425	160 0 119
Total Flow From North:	orth:		247		254		267		279
South-To-West (LT) South-To-North (Thru)	0.000	0.000	000	0.000	0	000.0	0	0.000	000
Total Flow From South:	outh:		o <b>o</b>	500.5	0	0000	0	0000	0

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Boggy Creek Rd -	No Build AM	If not, which 3 approaches exist in the
Intersection:	North Po	int	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	● EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.00%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 41.1% 58.9% Side street 63.9% 0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

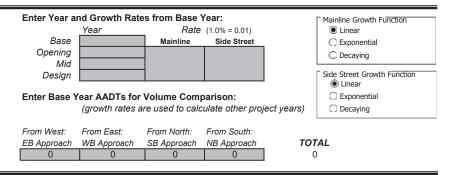
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	0	3100	35100
2045	23000	23000	0	3500	49500

	1st Guess Turning %'s for AADT Balancing	Actual/Count Traffic for 2019	ed	First Guess Turning % Option Used Existing Turning Movement Counts
(EB THRU) West-t (EB RT) West-t	to-North 0.0% to-East 90.1% to-South 9.9%	0 482 53	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB THRU) East-to (WB RT) East-to (SB LT) North- (SB THRU) North-	o-South 8.6% 91.4% o-West 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	29 307 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB THRU) South-	to-West 50.0% to-North to-East 50.0% 50.0%	90 0 90	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build AM North Point Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

2019	2019	20	019	2(	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-East (Thru)	0.901	0.938	795	0.943	881	0.947	1020	0.952	1160
West-To-South (RT)	0.099	0.062	53	0.057	53	0.053	22	0.048	29
Total Flow From West:	est:		848		934		1077		1219
East-To-South (LT)	0.086	0.070	41	0.064	42	0.059	44	0.054	46
East-To-West (Thru)	0.914	0.930	551	0.936	610	0.941	707	0.946	805
East-To-North (KT)	0.000	0.000	<b>&gt;</b>	0.000	- <b>-</b>	0.000	D	0.000	<b>&gt;</b>
Total Flow From East:	ıst:		592		652		751		851
North-To-East (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
North-To-South (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
North-To-West (RT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT)	0.500	0.429	89	0.430	70	0.431	74	0.431	77
South-To-North (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
South-To-East (RT)	0.500	0.571	06	0.570	93	0.569	26	0.569	102
Total Flow From South:	outh:		158		163		171		179

Analyst:	VHB		☐ Is this a	4 way intersection?	
Date:	15-Dec-20		☐ Yes, r	my intersection has four approaches	
Highway:	Boggy Creek Rd -	No Build PM		hich 3 approaches exist in the	
Intersection:	North Po	int	intersecti		
Project:	Boggy Creek Rd from	Simpson Rd to		○ EB, WB, and SB	
	Narcoosse	e Rd		EB, WB, and NB	
County:	Osceol	a		○ EB, SB, and NB	
Is the Mainline Oriented North/South?	Enter Yes or No Yes No			○ WB, SB, and NB	
K Factors	Mainline	D Factors	Mai	inline	
	9.00%	Westbound (WB)	41	.1%	
	Side street	Eastbound (EB)	58	3.9%	
	8.00%		Side	street	
		Northbound (NB)	63	5.9%	
		Southbound (SB)	0.	0%	
					=

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31

Enter Vear a	nd Growth Rate	e from Raco \	/oar·		E Maialia a Countly E Tarker
Litter rear ar		s ii Oiii Dase i	cai.		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		○ Exponential
Opening Mid					○ Decaying
Design					Side Street Growth Function
_					Linear
Enter Base Y	ear AADTs for \	Volume Comp	arison:		☐ Exponential
	(growth rates ar	e used to calc	ulate other proj	ect years)	☐ Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TO1	AL
0	0	0	0	C	)

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	0	3100	35100
2045	23000	23000	0	3500	49500

	1st Guess Turning %'s for	Actual/Counte	ed	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-tc (EB THRU) West-tc (EB RT) West-tc (WB LT) East-to	o-East 88.2% o-South 11.8%	0 566 76	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB THRU) East-to (WB RT) East-to (SB LT) North-to (SB THRU) North-to	91.0% 9-North 0.0%	534 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
,	to-West 43.8% to-North 0.0% to-East 56.2%	39 0 50	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - No Build PM North Point Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

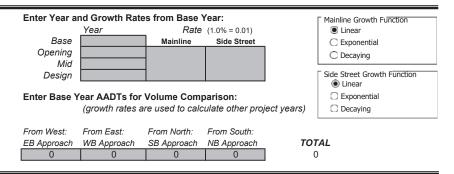
2019	2019	2019	019	2	2025	7	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-East (Thru) West-To-South (RT)	0.882 0.118	0.928 0.072	787 61	0.934	872 62	0.939 0.061	1011 66	0.945 0.055	1152 67
Total Flow From West:	est:		848		934		1077		1219
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.090 0.910 0.000	0.056 0.944 0.000	33 559 0	0.052 0.948 0.000	34 618 0	0.048 0.952 0.000	36 715 0	0.043 0.957 0.000	37 814 0
Total Flow From East:	ıst:		592		652		751		851
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000	0.000	0	0.000	0	0.000 0.000 0.000	0 0 0	0.000 0.000 0.000	0 0 0
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.438 0.000 0.562	0.428 0.000 0.572	06 89	0.428 0.000 0.572	70 0 93	0.429 0.000 0.571	73 0 98	0.429 0.000 0.571	77 0 102
Total Flow From South:	outh:		158		163		171		179

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Cree	ek Rd	If not, which 3 approaches exist in the
Intersection:	Timber Ln - No	Build AM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
-	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		○ WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.60%	D Factors Northbound (NB) Southbound (SB) Westbound (WB) Eastbound (EB)	Mainline 58.9% 41.1% Side street 62.1% 37.9%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	1000	1100	16000	16000	34100
2045	1100	3000	23000	23000	50100

		1st Guess urning %'s for ADT Balancing	Traffic	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	66.7% 0.0% 33.3%	10 0 5	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	54.2% 0.0% 45.8% 4.9% 94.5% 0.6%	32 0 27 16 310 2	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	0.0% 96.5% 3.5%	0 546 20	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1- D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd Timber Ln - No Build AM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	20	2019	2(	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated   Volume
West-To-North (LT)	0.667	0.568	19	0.603	20	0.636	22	0.651	23
West-To-East (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-South (RT)	0.333	0.432	14	0.397	13	0.364	13	0.349	13
Total Flow From West:	est:		33		33		35		36
East-To-South (LT)	0.542	0.643	38	609:0	50	925.0	70	0.560	06
East-To-West (Thru)	0.000	0.000	0 7	0.000	0 %	0.000	0 [	0.000	0 6
East-10-North (K1)	0.438	70.0	7	0.391	37	0.424	- 0	0.440	2
Total Flow From East:	st:		59		82		121		160
North-To-East (LT)	0.049	0.023	14	0.031	20	0.044	33	0.054	46
North-To-South (Thru)	0.945	0.890	526	0.887	629	0.881	662	0.877	746
North-To-West (RT)	900.0	0.087	52	0.082	53	0.075	56	0.069	26
Total Flow From North:	rth:		592		652		751		851
South-To-West (LT)	0.000	0.000	0	0.000	0	000'0	0	0.000	0
South-To-North (Thru)	0.965	0.973	825	0.968	904	0.961	1035	0.956	1165
South-To-East (RT)	0.035	0.027	23	0.032	30	0.039	42	0.044	54
Total Flow From South:	uth:		848		934		1077		1219

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Cree	ek Rd	If not, which 3 approaches exist in the
Intersection:	Timber Ln - No	Build PM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		O WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Northbound (NB)	41.1%
	Side street	Southbound (SB)	58.9%
	8.60%	_	Side street
		Westbound (WB)	62.1%
		Eastbound (EB)	37.9%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year and Growth Rates from Base Year:					
Liller rear ar		s ii oiii base i	ear.		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		Linear
Base		Mainline	Side Street		☐ Exponential
Opening					○ Decaying
Mid					
Design					Side Street Growth Function
3				!	<ul><li>Linear</li></ul>
Enter Base Year AADTs for Volume Comparison:				☐ Exponential	
	(growth rates are used to calculate other project years)			ect years)	☐ Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	T01	AL
0	0	0	0	C	

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

## Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	1000	1100	16000	16000	34100
2045	1100	3000	23000	23000	50100

		1st Guess urning %'s for ADT Balancing	Actual/Cour Traffic for 2019	nted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	40.0% 0.0% 60.0%	6 0 9	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	52.8% 2.8% 44.4% 4.2% 87.3% 8.5%	19 1 16 27 565 55	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	20.9% 50.0% 29.1%	23 55 32	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd Timber Ln - No Build PM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	20	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.400	0.532	18	0.531	18	0:230	19	0.538	19
West-To-East (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-South (RT)	0.600	0.468	15	0.469	15	0.470	16	0.462	17
Total Flow From West:	est:		33		33		35		36
East-To-South (LT)	0.528	0.408	24	0.410	34	0.411	20	0.403	64
East-To-West (Thru)	0.028	900.0	0	0.005	0	0.004	0	0.004	~
East-To-North (RT)	0.444	0.586	35	0.585	48	0.585	71	0.593	92
Total Flow From East:	st:		59		82		121		160
North-To-East (LT)	0.042	0.008	7	0.010	6	0.012	13	0.015	18
North-To-South (Thru)	0.873	0.968	821	0.968	904	0.968	1042	0.966	1178
North-10-West (KI)	0.085	0.024	02	0.022	7.7	0.020	7.7	0.019	 23
Total Flow From North:	rth:		848		934		1077		1219
South-To-West (LT)	0.209	0.055	33	0.051	33	0.047	35	0.042	36
South-To-North (Thru)	0.500	0.896	530	0.887	629	0.873	929	0.864	735
South-To-East (RT)	0.291	0.049	59	0.062	40	0.080	09	0.094	80
Total Flow From South:	uth:		592		652		751		851

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Boggy Creek - No	o Build AM	If not, which 3 approaches exist in the
Intersection:	Fells Cove	Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	● EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 6.40%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 41.1% 58.9% Side street 63.0% 0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

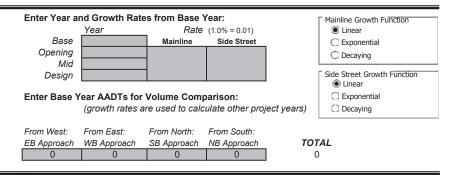
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	15000	0	1900	32900
2045	23000	21500	0	2100	46600

,	1st Guess Turning %'s for AADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-Sout	99.6%	0 511 2	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the typical personage first guess
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	92.9% 0.0% 0.0%	29 381 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual distribution of turning volumes entered</u> . No balancing technique is used.
(NB LT) South-to-Wes (NB THRU) South-to-Nort (NB RT) South-to-East Desired Closure:	h 0.0%	28 0 63	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek - No Build AM Fells Cove Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

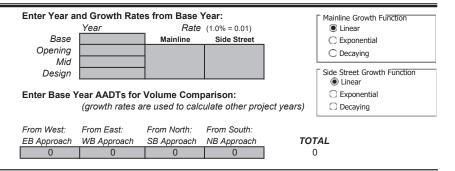
	2019	20	2019	2(	2025		2035	2045	45
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-East (Thru)	966.0	0.966	819	0.965	901	0.964	1038	0.963	1174
West-To-South (RT)	0.004	0.034	59	0.035	33	0.036	36	0.037	45
Total Flow From West:	est:		848		934		1077		1219
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.071 0.929 0.000	0.032 0.968 0.000	18 537 0	0.025 0.975 0.000	15 595 0	0.016 0.984 0.000	11 692 0	0.008 0.992 0.000	9 0 0
Total Flow From East:	ıst:		555		610		703		795
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000	0.000 0.000 0.000	0	0.000 0.000 0.000	0	0.000	0	0.000	000
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT) South-To-North (Thru)	0.308	0.900	0 69	0.925	72 0	0.951	92	0.976	83
South-To-East (RT)	0.692	0.100	$\infty$	0.075	9	0.049	4 6	0.024	2
l otal Flow From South:	outn:		//		/8		82		82

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek - No	Build PM	If not, which 3 approaches exist in the
Intersection:	Fells Cove	Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	EB, WB, and NB
County:	Osceol	а	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		○ WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Westbound (WB)	58.9%
	Side street	Eastbound (EB)	41.1%
	6.40%	_	Side street
		Northbound (NB)	51.0%
		Southbound (SB)	0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	15000	0	1900	32900
2045	23000	21500	0	2100	46600

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	nted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	0.0% 97.7% 2.3%	0 521 12	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	6.6% 93.4% 0.0% 0.0% 0.0% 0.0%	40 562 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	34.0% 0.0% 66.0%	17 0 33	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek - No Build PM Fells Cove Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019		2019	20	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru) West-To-South (RT)	0.000 0.977 0.023	0.000 0.927 0.073	0 549 43	0.000 0.928 0.072	0 605 47	0.000 0.928 0.072	0 697 54	0.000 0.928 0.072	0 790 61
Total Flow From West:	st:		592		652		751		851
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.066 0.934 0.000	0.021 0.979 0.000	17 778 0	0.016 0.984 0.000	14 861 0	0.009 0.991 0.000	6 866 0	0.004 0.996 0.000	5 1135 0
Total Flow From East:	st:		795		875		1007		1140
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000	0.000 0.000 0.000	0	0.000 0.000 0.000	000	000.0 000.0 000.0	0 0 0	0.000	000
Total Flow From North:	rth:		0		0		0		0
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.340 0.000 0.660	0.848 0.000 0.152	53 0 9	0.882 0.000 0.118	56 0 8	0.931 0.000 0.069	61 0 5	0.971 0.000 0.029	67 0 2
Total Flow From South:	uth:		62		64		99		69

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20	•	Yes, my intersection has four approaches
Highway:	Narcoosse	e Rd	If not, which 3 approaches exist in the
Intersection:	Boggy Creek Rd -	No Build AM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceol	a	● EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		○ WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Northbound (NB)	64.8%
	Side street	Southbound (SB)	35.2%
	9.00%	_	Side street
		Westbound (WB)	0.0%
		Eastbound (EB)	58.9%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

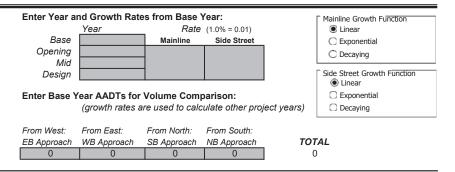
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	15000	0	32000	33000	80000
2045	21500	0	54000	55500	131000

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	57.8% 0.0% 42.2%	356 0 260	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	0.0% 0.0% 0.0% 0.0% 87.3% 12.7%	0 0 0 0 600 87	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	16.4% 83.6% 0.0%	331 1682 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Narcoossee Rd Boggy Creek Rd - No Build AM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	2	2025	7	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-Fast (Thru)	0.578	0.601	478	0.601	526	0.600	604	0.599	683
West-To-South (RT)	0.422	0.399	317	0.399	349	0.400	403	0.401	457
Total Flow From West:	est:		795		875		1007		1140
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.000 0.000 0.000	0.000	000	0.000	0 0 0	0.000	000	0.000	000
Total Flow From East:	st:		0		0		0		0
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000 0.873 0.127	0.000 0.818 0.182	0 829 185	0.000 0.828 0.172	0 973 202	0.000 0.840 0.160	0 1212 231	0.000 0.848 0.152	0 1451 260
Total Flow From North:	orth:		1014		1175		1443		1711
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.164 0.836 0.000	0.214 0.786 0.000	412 1513 0	0.203 0.797 0.000	452 1775 0	0.190 0.810 0.000	519 2213 0	0.181 0.819 0.000	586 2651 0
Total Flow From South:	uth:		1925		2227		2732		3237

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Narcoosse	e Rd	If not, which 3 approaches exist in the
Intersection:	Boggy Creek Rd -	No Build PM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceol	a	● EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		O WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Northbound (NB)	35.2%
	Side street	Southbound (SB)	64.8%
l	9.00%	_	Side street
		Westbound (WB)	0.0%
		Eastbound (EB)	58.9%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

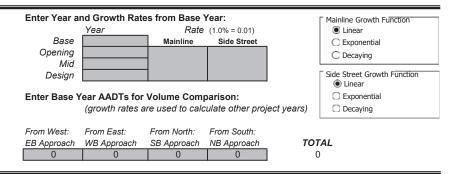
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

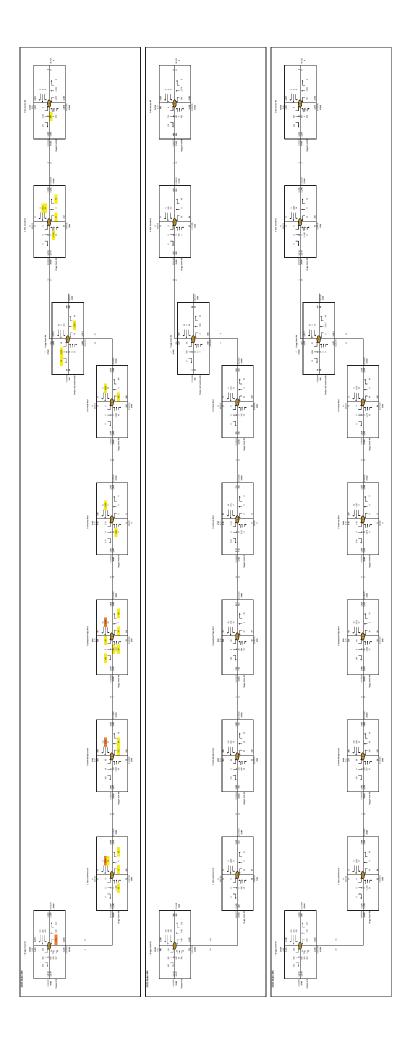
### Enter Base and Model Year AADTs for Volume Comparison:

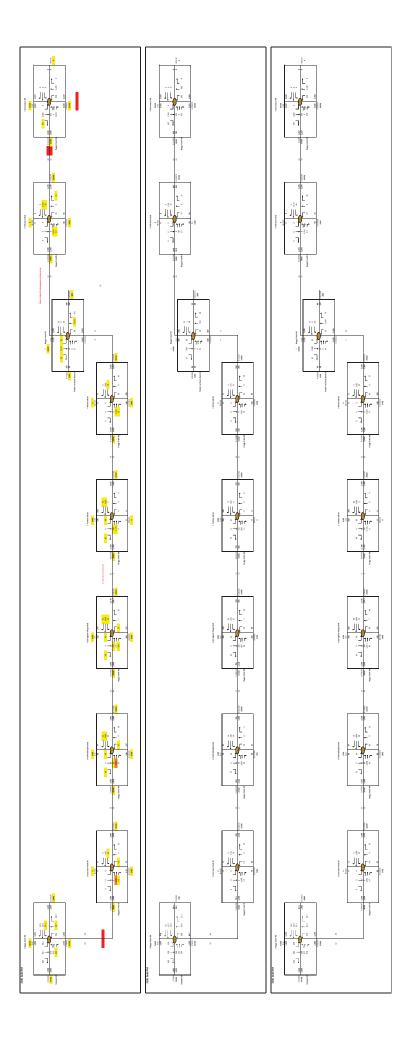
	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	15000	0	32000	33000	80000
2045	21500	0	54000	55500	131000

		1st Guess irning %'s for	Actual/Count	ed	First Guess Turning % Option Used Existing Turning Movement Counts
(EB THRU) We	/est-to-North /est-to-East /est-to-South	45.7% 0.0% 54.3%	233 0 277	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB THRU) Ea (WB RT) Ea (SB LT) No (SB THRU) No	ast-to-South ast-to-West ast-to-North orth-to-East orth-to-South orth-to-West	0.0% 0.0% 0.0% 0.0% 83.8% 16.2%	0 0 0 0 1614 311	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes entered</u> . No balancing technique is used.
(NB THRU) So	outh-to-West outh-to-North outh-to-East	23.4% 76.6% 0.0%	271 886 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Narcoossee Rd Boggy Creek Rd - No Build PM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Intersection: Project: Highway:

	2019	2	2019	2	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.457	0.432	343	0.434	380	0.422	425	0.424	483
West-To-East (Thru) West-To-South (RT)	0.000	0.000	0 452	0.000	0 495	0.000	0 582	0.000 0.576	0
Total Flow From West:	est:		795		875		1007		1140
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.000	00000	0	0.000	0	00000	0	0.000	0 0 0
Total Flow From East:	st:		0		0		0		0
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000 0.838 0.162	0.000 0.831 0.169	0 1551 315	0.000 0.839 0.161	0 1814 348	0.000 0.853 0.147	0 2266 390	0.000 0.860 0.140	0 2708 441
Total Flow From North:	orth:		1866		2162		2656		3149
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.234 0.766 0.000	0.262 0.738 0.000	274 771 0	0.249 0.751 0.000	301 909 0	0.239 0.761 0.000	355 1129 0	0.227 0.773 0.000	399 1359 0
Total Flow From South:	uth:		1045		1210		1484		1758



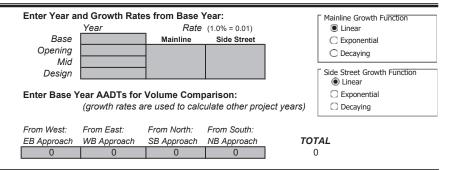


Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	BOGGY CRE	EK RD	If not, which 3 approaches exist in the
Intersection:	SIMPSON RD-	Build AM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 9.00%	D Factors Northbound (NB) Southbound (SB) Westbound (WB) Eastbound (EB)	Mainline 58.9% 41.1% Side street 55.6% 44.4%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2020
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2020	34000	100	31000	20000	85100
2045	42000	33000	39500	41500	156000

		1st Guess irning %'s for	Actual/Coun Traffic	ted	First Guess Turning % Option Used FSUTMS Model Year AADTs
		DT Balancing	for 2020		
(/	Vest-to-North	42.3%	0	Existing Year	Only the existing year total
- /	Vest-to-East	26.7%	0	AADTs	departure volumes [AADT*K*(1-
(EB RT) W	Vest-to-South	31.0%	0	, , , , ,	D)] will be used to calculate the
'	ast-to-South	26.8%	0		turning percentages first guess.
(	ast-to-West	36.7%	0		
(WB RT) E	ast-to-North	36.5%	0	Existing	The turning percentages first
(SB THRU) N	lorth-to-East lorth-to-South lorth-to-West	26.6% 31.0% 42.4%	0 0 0	Turning Movement Counts	guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB THRU) S	South-to-West South-to-North South-to-East	38.1% 38.0% 23.9%	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the
Desired Closure	<b>e</b> :	0.50			

VHB 15-Dec-20 Osceola Analyst: Date: County: BOGGY CREEK RD SIMPSON RD- Build AM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2020	2	2020	2	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.423	0.720	978	0.627	892	0.493	764	0.407	683
West-To-East (Thru)	0.267	0.001	2	0.071	101	0.179	278	0.255	428
West-To-South (RT)	0.310	0.279	379	0.302	430	0.328	508	0.338	267
Total Flow From West:	est:		1359		1423		1550		1678
East-To-South (LT)	0.268	0.146	1	0.181	09	0.242	240	0.288	475
East-To-West (Thru)	0.367	0.478	2	0.443	148	0.396	394	0.366	605
East-To-North (RT)	0.365	0.376	2	0.376	126	0.362	359	0.346	571
Total Flow From East:	st:		5		334		993		1651
North-To-East (LT)	0.266	0.001	_	0.064	77	0.170	227	0.249	364
North-To-South (Thru)	0.310	0.234	269	0.272	330	0.315	420	0.331	483
North-10-West (K1)	0.424	0.765	8//	0.004	803	0.515	988	0.420	4.0
Total Flow From North:	orth:		1147		1210		1335		1461
South-To-West (LT)	0.381	0.559	593	0.514	662	0.445	776	0.393	865
South-To-North (Thru)	0.380	0.440	466	0.436	562	0.408	712	0.373	820
South-To-East (RT)	0.239	0.001	~	0.050	64	0.147	256	0.234	515
Total Flow From South:	uth:		1060		1288		1744		2200

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	BOGGY CRE	EK RD	If not, which 3 approaches exist in the
Intersection:	SIMPSON RD-	Build PM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	☐ EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No  Yes  No		○ WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Northbound (NB)	41.1%
	Side street	Southbound (SB)	58.9%
	9.00%	_	Side street
		Westbound (WB)	44.4%
		Eastbound (EB)	55.6%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31

Enter Vear a	nd Growth Rate	e from Baco \	/oar:		- M : II - O - II
Liller rear ar		S II UIII Dase I	ear.		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		○ Exponential
Opening Mid					○ Decaying
					Cida Chuach Cucuth Function
Design					Side Street Growth Function <ul><li>Linear</li></ul>
Enter Base Y	ear AADTs for	Volume Comp	arison:		○ Exponential
	(growth rates ar	re used to calc	ulate other proj	ect years)	○ Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TOT	AL
0	0	0	0	C	)

### **Enter Project and Model Years**

	Year
Base	2020
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2020	34000	100	31000	20000	85100
2045	42000	33000	39500	41500	156000

	1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2020	ited	First Guess Turning % Option Used FSUTMS Model Year AADTs
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	27.5% 31.1% 41.4%	0 0 0	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	41.2% 31.4% 27.4% 29.9% 39.7% 30.4%	0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered.</u> No balancing technique is used.
(NB LT) South-to-West (NB THRU) South-to-North (NB RT) South-to-East  Desired Closure:	35.0% 30.5% 34.5% 0.50	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: BOGGY CREEK RD SIMPSON RD- Build PM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

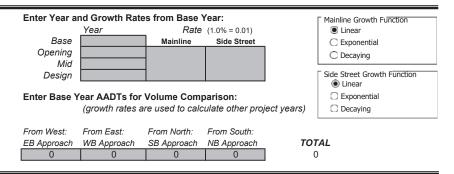
	2020	.4	2020	2	2025		2035	20	2045
Approach-To-	Initial	Final	Calculated	Final	Calculated	Final	Calculated	Final	Calculated Volume
Approach	Estimate	Estimate	Volume	Estimate	Volume	Estimate	Volume	Estimate	
West-To-North (LT)	0.275	0.597	1015	0.498	887	0.370	719	0.293	616
West-To-East (Thru)	0.311	0.002	4	0.092	164	0.211	409	0.291	612
West-To-South (RT)	0.414	0.401	682	0.410	730	0.419	814	0.416	874
Total Flow From West:	est:		1701		1781		1942		2102
East-To-South (LT)	0.412	0.219	127	0.264	70	0.339	269	0.396	522
East-To-West (Thru)	0.314	0.454		0.415	111	0.361	286	0.325	429
East-To-North (RT)	0.274	0.327		0.321	86	0.300	238	0.279	368
Total Flow From East:	ıst:		4		267		793		1319
North-To-East (LT)	0.299	0.001	2	0.080	139	0.196	375	0.278	582
North-To-South (Thru)	0.397	0.325	534	0.356	617	0.389	745	0.395	827
North-To-West (RT)	0.304	0.674	1107	0.564	977	0.415	794	0.327	685
Total Flow From North:	orth:		1643		1733		1914		2094
South-To-West (LT)	0.350	0.581	430	0.523	470	0.434	528	0.369	566
South-To-North (Thru)	0.305	0.418	309	0.403	362	0.360	438	0.317	487
South-To-East (RT)	0.345	0.001	1	0.074	67	0.206	251	0.314	482
Total Flow From South:	outh:		740		899		1217		1535

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build AM	If not, which 3 approaches exist in the
Intersection:	E lake Poi	nt Dr	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	EB, WB, and NB
County:	Osceol	а	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.50%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 58.9% 41.1% Side street 70.0% 0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

## Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	20000	19000	0	1100	40100
2045	41500	39500	0	2200	83200

	1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	0.0% 98.3% 1.7%	0 583 10	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	1.0% 99.0% 0.0% 0.0% 0.0% 0.0%	8 821 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to-West (NB THRU) South-to-North (NB RT) South-to-East  Desired Closure:	69.6% 0.0% 30.4%	39 0 17	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build AM E lake Point Dr Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

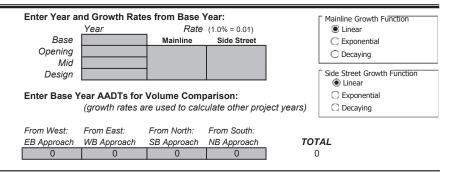
2019	2019	2019	019	2(	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru) West-To-South (RT)	0.000 0.983 0.017	0.000 0.964 0.036	0 713 27	0.000 0.965 0.035	0 891 32	0.000 0.964 0.036	0 1185 44	0.000 0.964 0.036	0 1480 55
Total Flow From West:	it:		740		923		1229		1535
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.010 0.990 0.000	0.003 0.997 0.000	3 1004 0	0.003 0.997 0.000	4 1254 0	0.001 0.999 0.000	2 1674 0	0.001 0.999 0.000	2 2092 0
Total Flow From East:	::		1007		1258		1676		2094
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000	0.000	000	0.000	000	0.000.0	000	0.000	000
Total Flow From North:	th:		0		0		0		0
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.696 0.000 0.304	0.944 0.000 0.056	0 4	0.941 0.000 0.059	76 0 5	0.986 0.000 0.014	105 0 1	0.976 0.000 0.024	128 0 3
Total Flow From South:	th:		65		81		106		131

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build PM	If not, which 3 approaches exist in the
Intersection:	E lake Poir	nt Dr	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.50%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 41.1% 58.9% Side street 70.0% 0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	20000	19000	0	1100	40100
2045	41500	39500	0	2200	83200

		1st Guess urning %'s for DT Balancing	Actual/Count Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	0.0% 95.4% 4.6%	0 843 41	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	3.2% 96.8% 0.0% 0.0% 0.0% 0.0%	18 549 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East sure:	50.0% 0.0% 50.0%	18 0 18	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build PM E lake Point Dr Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	20	019	2	2025	.,	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-East (Thru)	0.954	0.976	1035	0.975	1290	0.976	1720	0.976	2147
West-To-South (RT)	0.046	0.024	25	0.025	33	0.024	42	0.024	53
Total Flow From West:	st:		1060		1323		1762		2200
East-To-South (LT)	0.032	0.005	4	0.005	4 [	0.004	5	0.003	4
East-Io-West (Ihru) East-To-North (RT)	0.968	0.995	669 0	0.995	8/4 0	0.000.0	1164 0	0.000	145/ 0
Total Flow From East:	st:		703		878		1169		1461
North-To-East (LT)	0.000	000'0	0	0.000	0	0.000	0	0.000	0
North-To-South (Thru) North-To-West (RT)	0.000	0.000	0 0	0.000	0 0	0.000	0 0	0.000	0 0
Total Flow From North:	rth:		0		0		0		0
South-To-West (LT)	0.500	0.767	90	0.770	62	0.809	98	0.828	108
South-To-North (Thru)  South-To-East (RT)	0.000	0.000	0 27	0.000	0 6	0.000	0 0	0.000	0 23
Total Flow Erom South:					ξ α		106		131
I OLAI FIOW FIOIII SO	util.		60		10		100		101

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build AM	If not, which 3 approaches exist in the
Intersection:	Nele R	d	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
-	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceol	а	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Westbound (WB)	58.9%
	Side street	Eastbound (EB)	41.1%
	9.00%	` '	Side street
		Northbound (NB)	54.0%
		Southbound (SB)	46.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31

Enter Vear a	nd Growth Rate	s from Rasa \	/oar·		□ Mainline Growth Function
Lintoi roai ai					
	Year	Rate	(1.0% = 0.01)		Linear
Base		Mainline	Side Street	1	○ Exponential
Opening Mid					○ Decaying
Design					Side Street Growth Function
					Linear
Enter Base Year AADTs for Volume Comparison:					☐ Exponential
	(growth rates ar	☐ Decaying			
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TO1	AL
0	0	0	0	C	)
				'	

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	19000	18000	5800	600	43400
2045	39500	37500	6600	2300	85900

,	1st Guess Turning %'s for AADT Balancing	Actual/Coun Traffic for 2019	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	18.7% 76.9%	110 453 26	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	81.1% 16.3% 33.3% 0.0%	19 587 118 85 0 170	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to-Wes (NB THRU) South-to-Nort (NB RT) South-to-East Desired Closure:	44.4%	33 40 17	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build AM Nele Rd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	2	2025	2	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.187	0.174	122	0.143	126	0.112	131	0.093	136
West-To-East (Thru) West-To-South (RT)	0.769 0.044	0.807 0.019	568 13	0.831 0.026	729 23	0.856	1001 37	0.870 0.037	1271 54
Total Flow From West:	est:		703		878		1169		1461
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.026 0.811 0.163	0.011 0.840 0.149	10 802 142	0.015 0.863 0.122	18 1029 146	0.019 0.886 0.095	30 1409 151	0.020 0.904 0.076	40 1797 151
Total Flow From East:	st:		954		1193		1590		1988
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.333 0.000 0.667	0.332 0.000 0.668	80 0 160	0.331 0.000 0.669	82 0 166	0.330 0.000 0.670	86 0 174	0.322 0.000 0.678	88 0 185
Total Flow From North:	rth:		240		248		260		273
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.367 0.444 0.189	0.387 0.414 0.199	11 12 6	0.424 0.359 0.217	20 18 10	0.465 0.299 0.236	37 24 19	0.501 0.253 0.246	56 28 28
Total Flow From South:	uth:		29		48		80		112

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build PM	If not, which 3 approaches exist in the
Intersection:	Nele Ro	d	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	◯ EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 9.00%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 41.1% 58.9% Side street 46.0% 54.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

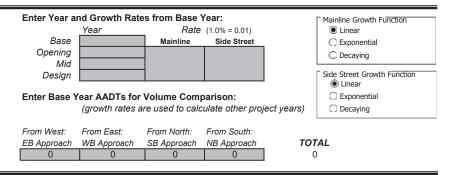
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	19000	18000	5800	600	43400
2045	39500	37500	6600	2300	85900

	1st Guess Turning %'s for AADT Balancing	Actual/Coun Traffic for 2019	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT)         West-to-I           (EB THRU)         West-to-I           (EB RT)         West-to-S	ast 93.6%	39 792 15	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) East-to-S (WB THRU) East-to-V (WB RT) East-to-N (SB LT) North-to- (SB THRU) North-to- (SB RT) North-to-	96.0%	10 526 12 24 0 44	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to- (NB THRU) South-to- (NB RT) South-to- Desired Closure:	North 0.0%	5 0 1	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build PM Nele Rd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	20	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.046	0.162	163	0.135	170	0.108	181	0.092	193
West-To-East (Thru) West-To-South (RT)	0.936 0.018	0.824	830 14	0.846	1064 24	0.867 0.025	1453 42	0.879 0.029	1840
Total Flow From West:	est:		1007		1258		1676		2094
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.018 0.960 0.022	0.022 0.854 0.124	15 568 83	0.030 0.870 0.100	25 724 83	0.036 0.889 0.075	40 987 83	0.039 0.901 0.060	54 1250 83
Total Flow From East:	ıst:		999		832		1110		1387
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.353 0.000 0.647	0.464 0.000 0.536	131 0 151	0.458 0.000 0.542	133 0 158	0.440 0.000 0.560	135 0 171	0.427 0.000 0.573	137 0 184
Total Flow From North:	orth:		282		291		306		321
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.833 0.000 0.167	0.759 0.000 0.241	19 0 6	0.763 0.000 0.237	31 0 10	0.776 0.000 0.224	53 0 15	0.785 0.000 0.215	75 0 20
Total Flow From South:	outh:		25		41		68		95

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build AM	If not, which 3 approaches exist in the
Intersection:	Springlake Villa	age Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		○ WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.60%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 58.9% 41.1% Side street 25.0% 75.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

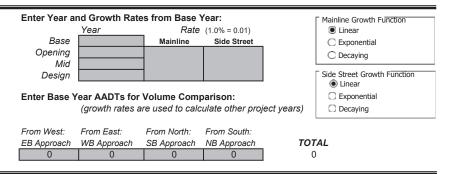
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	18000	16000	3800	1700	39500
2045	37500	39000	4300	2600	83400

	1st Guess Turning %'s for AADT Balancing		ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-Nort (EB THRU) West-to-East (EB RT) West-to-Sout	90.2%	38 489 15	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-Sou           (SB RT)         North-to-West	94.2% 4.8% 23.3% 0.0%	5 487 25 57 0 188	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to-Wes (NB THRU) South-to-Nor (NB RT) South-to-Eas  Desired Closure:	h 4.8%	30 3 29	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build AM Springlake Village Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Intersection: Project: Highway:

	2019	2	2019	2	2025	2	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru)	0.070	0.067	45 543	0.050	42 708	0.028	31 1002	0.018	25 1293
West-To-South (RT)	0.028	0.117	78	0.098	82	0.069	77	0.050	69
Total Flow From West:	st:		999		832		1110		1387
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.010 0.942 0.048	0.041 0.914 0.045	35 775 38	0.039 0.923 0.038	44 1043 43	0.046 0.918 0.036	74 1466 58	0.049 0.918 0.033	101 1898 68
Total Flow From East:	st:		848		1130		1598		2067
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.233 0.000 0.767	0.219 0.000 0.781	54 0 191	0.246 0.000 0.754	62 0 191	0.367 0.000 0.633	97 0 168	0.470 0.000 0.530	130 0 147
Total Flow From North:	rth:		245		253		265		277
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.484 0.048 0.468	0.503 0.048 0.449	19 17	0.471 0.039 0.490	19 2 20	0.342 0.026 0.632	16 2 30	0.257 0.018 0.725	4 + + + + + + + + + + + + + + + + + + +
Total Flow From South:	uth:		37		41		48		56

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build PM	If not, which 3 approaches exist in the
Intersection:	Springlake Villa	age Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	0100		○ WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.60%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 41.1% 58.9% Side street 75.0% 25.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year a	nd Growth Rate	s from Base `	rear:		☐ Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		☐ Exponential
Opening Mid					○ Decaying
Design					☐ Side Street Growth Function
Doolgii				ı	<ul><li>Linear</li></ul>
Enter Base Y	ear AADTs for	Volume Comp	parison:		☐ Exponential
	(growth rates a	re used to calc	ulate other proj	iect years)	☐ Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TOT	AL
0	0	0	0	C	)

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	18000	16000	3800	1700	39500
2045	37500	39000	4300	2600	83400

	1st Guess Furning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	19.7% 73.8% 6.5%	164 614 54	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	5.0% 81.0% 14.0% 34.0% 0.0% 66.0%	28 450 78 33 0 64	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to-West (NB THRU) South-to-North (NB RT) South-to-East  Desired Closure:		41 7 27	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build PM Springlake Village Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Intersection: Project: Highway:

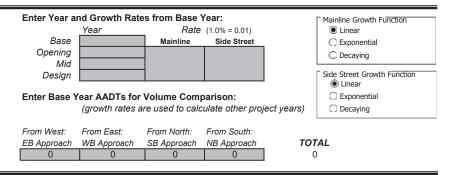
	2019	2	2019	2	2025	2	2035	20	2045
Approach-To-	Initial	Final	Calculated	Final	Calculated	Final	Calculated	Final	Calculated
Approach	Estimate	Estimate	Volume	Estimate	Volume	Estimate	Volume	Estimate	Volume
West-To-North (LT)	0.197	0.171	163	0.135	161	0.089	142	0.060	119
West-To-East (Thru)	0.738	0.803	766	0.843	1006	0.895	1423	0.928	1845
West-To-South (RT)	0.065	0.026	25	0.022	26	0.016	25	0.012	24
Total Flow From West:	st:		954		1193		1590		1988
East-To-South (LT)	0.050	0.019	11	0.017	13	0.019	21	0.021	30
East-To-West (Thru)	0.810	0.868	514	0.884	697	0.884	986	0.879	1269
East-To-North (RT)	0.140	0.113	67	0.099	78	0.097	108	0.100	144
Total Flow From East:	st:		592		788		1115		1443
North-To-East (LT)	0.340	0.326	27	0.358	30	0.468	41	0.581	53
North-To-South (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
North-To-West (RT)	0.660	0.674	55	0.642	54	0.532	47	0.419	39
Total Flow From North:	rth:		82		84		88		92
South-To-West (LT)	0.547	0.573	63	0.548	67	0.448	65	0.347	58
South-To-North (Thru)	0.093	0.073	8	0.061	8	0.049	7	0.038	7
South-To-East (RT)	0.360	0.354	39	0.391	48	0.503	73	0.615	103
Total Flow From South:	uth:		110		123		145		168

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build AM	If not, which 3 approaches exist in the
Intersection:	Turnberry	Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	EB, WB, and SB
	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.30%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 52.0% 48.0% Side street 0.0% 66.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	4500	0	36500
2045	39000	39000	5100	0	83100

	1st Guess Turning %'s for AADT Balancing	Actual/Count Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB THRU) West-	to-North 11.8% to-East 88.2% to-South 0.0%	55 412 0	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB THRU) East-to (WB RT) East-to (SB LT) North- (SB THRU) North-	0-South 0.0% 90.7% 90.7% 93% 0-North 9.3% 0-North 9.3% 0-North 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	0 361 37 120 0 197	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB THRU) South-	to-West 0.0% to-North 0.0% to-East 0.0% 0.50	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build AM Turnberry Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	20	019	2	2025	N	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.118	0.098	89	0.076	70	0.056	73	0.046	78
West-To-East (Thru)	0.882	0.902	623	0.924	851	0.944	1230	0.954	1607
West-To-South (RT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
Total Flow From West:	est:		691		921		1303		1685
East-To-South (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
East-To-West (Thru) East-To-North (RT)	0.907	0.907	679 70	0.931	928 69	0.950	1340 71	0.961	1754
Total Flow From East:	st:		749		997		1411		1825
North-To-East (LT)	0.379	0.428	106	0.420	107	0.413	110	0.401	112
North-To-South (Thru)	0.000	0.000	0 7	0.000	0 77 7	0.000	0	0.000	0
North-10-west (K1)	0.021	7/0.0	4	0.380	, - <u>-</u>	700.0	/61	886. 0	/0
Total Flow From North:	orth:		247		254		267		279
South-To-West (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
South-To-North (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
South-To-East (RT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
Total Flow From South:	uth:		0		0		0		0

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build PM	If not, which 3 approaches exist in the
Intersection:	Turnberry	Blvd	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	● EB, WB, and SB
	Narcoosse	e Rd	◯ EB, WB, and NB
County:	Osceol	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		O WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.30%	D Factors Westbound (WB) Eastbound (EB)  Northbound (NB) Southbound (SB)	Mainline 48.0% 52.0% Side street 0.0% 66.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year a	nd Growth Rate	s from Base \	Year:		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		○ Exponential
Opening Mid					○ Decaying
Design					Side Street Growth Function  © Linear
Enter Base Y	ear AADTs for	Volume Comi	parison:		○ Exponential
	(growth rates ar			ect years)	Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TO1	TAL
0	0	0	0	C	)

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	4500	0	36500
2045	39000	39000	5100	0	83100

	1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	15.9% 84.1% 0.0%	109 578 0	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	0.0% 86.4% 13.6% 50.6% 0.0% 49.4%	0 451 71 79 0 77	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT)         South-to-West           (NB THRU)         South-to-North           (NB RT)         South-to-East           Desired Closure:	0.0% 0.0% 0.0% 0.01	0 0 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build PM Turnberry Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	2	2025	2	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru) West-To-South (RT)	0.159 0.841 0.000	0.099 0.901 0.000	74 675 0	0.075 0.925 0.000	75 922 0	0.055 0.945 0.000	78 1333 0	0.044 0.956 0.000	80 1745 0
Total Flow From West:	st:		749		997		1411		1825
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.000 0.864 0.136	0.000 0.909 0.091	0 628 63	0.000 0.931 0.069	0 857 64	0.000 0.949 0.051	0 1237 66	0.000 0.959 0.041	0 1616 69
Total Flow From East:	t:		691		921		1303		1685
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.506 0.000 0.494	0.529 0.000 0.471	131 0 116	0.530 0.000 0.470	135 0 119	0.530 0.000 0.470	142 0 125	0.529 0.000 0.471	148 0 131
Total Flow From North:	th:		247		254		267		279
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0 0 0
Total Flow From South:	ıth:		0		0		0		0

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Creek Rd	- Build AM	If not, which 3 approaches exist in the
Intersection:	North Po	pint	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	● EB, WB, and NB
County:	Osceol	а	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No  Yes  No		○ WB, SB, and NB
		J	
K Factors	Mainline	D Factors	Mainline
	9.00%	Westbound (WB)	52.0%
	Side street	Eastbound (EB)	48.0%
	8.00%	_	Side street
	<u>.</u>	Northbound (NB)	63.9%
		Southbound (SB)	0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year and Growth Ra	tes from Base Year:	☐ Mainline Growth Function
Year	Rate (1.0% = 0.01)	Linear
Base	Mainline Side Street	☐ Exponential
Opening Mid		○ Decaying
	_	Side Street Growth Function
Design		Linear
Enter Base Year AADTs fo	r Volume Comparison:	○ Exponential
	are used to calculate other project y	vears) Decaying
From West: From East:	From North: From South:	
EB Approach WB Approach	SB Approach NB Approach	TOTAL
0 0	0 0	0

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	0	3100	35100
2045	39000	39000	0	3500	81500

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	0.0% 90.1% 9.9%	0 482 53	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	8.6% 91.4% 0.0% 0.0% 0.0% 0.0%	29 307 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	50.0% 0.0% 50.0%	90 0 90	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build AM North Point Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

2019	2019	20	019	2(	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-East (Thru)	0.901	0.930	643	0.947	872	0.960	1251	0.968	1631
West-To-South (RT)	0.099	0.070	48	0.053	49	0.040	52	0.032	54
Total Flow From West:	est:		691		921		1303		1685
East-To-South (LT)	0.086	0.061	46	0.046	46	0.034	48	0.028	51
East-10-West (1nru) East-To-North (RT)	0.000	0.939	0 (03	0.000	951 0	0.000	1363 0	0.000	0
Total Flow From East:	ıst:		749		997		1411		1825
North-To-East (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
North-To-South (Thru) North-To-West (RT)	0.000	0.000	00	0.000	0 0	0.000	0 0	0.000	0 0
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT)	0.500	0.499	79	0.498	81	0.498	85	0.498	89
South-To-North (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
South-To-East (RT)	0.500	0.501	79	0.502	82	0.502	98	0.502	06
Total Flow From South:	outh:		158		163		171		179

Analyst:	VHE	3	Is this a 4 way intersection?	
Date:	15-Dec-20		Yes, my intersection has four approaches	
Highway:	Boggy Creek Ro	d - Build PM	If not, which 3 approaches exist in the	
Intersection:	North P	oint	intersection?	
Project:	Boggy Creek Rd fror	n Simpson Rd to	C EB, WB, and SB	
	Narcooss	ee Rd	EB, WB, and NB	
County:	Osceo	ola	○ EB, SB, and NB	
Is the Mainline Oriented North/South?	Enter Yes or No Yes No		○ WB, SB, and NB	
K Factors	Mainline	D Factors	Mainline	
	9.00%	Westbound (WB)	48.0%	
	Side street	Eastbound (EB)	52.0%	
	8.00%	_	Side street	
		Northbound (NB)	63.9%	
		Southbound (SB)	0.0%	
				i

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

Enter Yes or No

Yes

No

If "Yes" go to cell C47

If "No" go to cell C31

Enter Vear a	nd Growth Rate	e from Baco \	/oar:		
Liller rear a	ilu Growtii Kate	S II OIII Dase	leai.		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street	_	○ Exponential
Opening Mid					○ Decaying
					F 61 1 61 1 6 11 5
Design					Side Street Growth Function
			-	•	Linear
Enter Base Y	ear AADTs for	Volume Comp	parison:		☐ Exponential
	(growth rates ar	re used to calc	ulate other proj	iect years)	☐ Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TOT	TAL
0	0	0	0	] (	)

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	16000	0	3100	35100
2045	39000	39000	0	3500	81500

,	1st Guess Turning %'s for ADT Balancing	Actual/Cour Traffic for 2019	nted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) West-to-North (EB THRU) West-to-East (EB RT) West-to-South	0.0% 88.2%	0 566 76	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT)         East-to-South           (WB THRU)         East-to-West           (WB RT)         East-to-North           (SB LT)         North-to-East           (SB THRU)         North-to-South           (SB RT)         North-to-West	91.0% 0.0% 0.0%	53 534 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) South-to-Wes (NB THRU) South-to-Norti (NB RT) South-to-East  Desired Closure:	0.0%	39 0 50	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd - Build PM North Point Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	2	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
West-To-East (Thru)	0.882	0.926	694	0.944	941	0.958	1352	0.966	1763
West-To-South (RT)	0.118	0.074	22	0.056	26	0.042	59	0.034	62
Total Flow From West:	est:		749		997		1411		1825
East-To-South (LT)	0.090	0.056	39	0.043	40	0.032	42	0.026	44
East-To-West (Thru)	0.910	0.944	652	0.957	881	0.968	1261	0.974	1641
East-To-North (RT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
Total Flow From East:	st:		691		921		1303		1685
North-To-East (LT)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
North-To-South (Thru)	0.000	0.000	0 0	0.000	0 0	0.000	0 0	0.000	0 0
	0.000	0.000	Þ	0.00	Þ	0.00	o	0000	D .
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT)	0.438	0.436	69	0.435	71	0.434	74	0.433	78
South-To-North (Thru)	0.000	0.000	0	0.000	0	0.000	0	0.000	0
South-To-East (RT)	0.562	0.564	88	0.565	95	0.566	6	0.567	101
Total Flow From South:	uth:		158		163		171		179

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Boggy Cree	ek Rd	If not, which 3 approaches exist in the
Intersection:	Timber Ln - B	build AM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceola	a	○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		○ WB, SB, and NB
K Factors	Mainline 9.00% Side street 8.60%	D Factors Northbound (NB) Southbound (SB) Westbound (WB) Eastbound (EB)	Mainline 58.9% 41.1% Side street 62.1% 37.9%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year a	nd Growth Rate	s from Base `	Year:		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		○ Exponential
Opening Mid					○ Decaying
Design					Side Street Growth Function  © Linear
Enter Base Y	ear AADTs for	Volume Comi	parison:		○ Exponential
	(growth rates ar	Decaying			
From West: EB Approach	From East: WB Approach	From North: SB Approach	From South: NB Approach	TO1	- A1
0	0	0	0	(	

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	1000	1100	16000	16000	34100
2045	1100	3000	39000	39000	82100

	AA	1st Guess urning %'s for DT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	66.7% 0.0% 33.3%	10 0 5	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB LT) (WB THRU) (WB RT) (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	54.2% 0.0% 45.8% 4.9% 94.5% 0.6%	32 0 27 16 310 2	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual distribution of turning volumes entered.</u> No balancing technique is used.
(NB LT) (NB THRU) (NB RT)  Desired Clos	South-to-West South-to-North South-to-East	0.0% 96.5% 3.5%	0 546 20	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd from Simpson Rd to Narcoossee Rd Boggy Creek Rd Timber Ln - Build AM Highway: Intersection: Project:

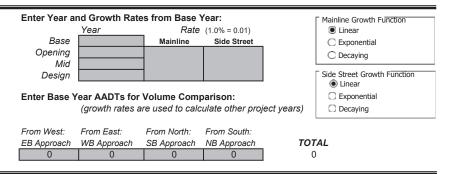
	2019	2	2019	20	2025	2	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.667	0.568	19	0.621	20	659.0	23	0.667	24
West-To-East (Thru) West-To-South (RT)	0.000	0.000	0 4	0.000	0 13	0.000	0 72	0.000	0 12
Total Flow From West:	sst:		33		33		35		36
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.542 0.000 0.458	0.643 0.000 0.357	38 0 21	0.592 0.000 0.408	49 0 33	0.551 0.000 0.449	67 0 54	0.542 0.000 0.458	87 0 73
Total Flow From East:	st:		59		82		121		160
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.049 0.945 0.006	0.023 0.890 0.087	14 526 52	0.027 0.905 0.068	21 713 54	0.032 0.917 0.051	36 1022 57	0.033 0.926 0.041	48 1336 59
Total Flow From North:	rth:		592		788		1115		1443
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.000 0.965 0.035	0.000 0.973 0.027	0 825 23	0.000 0.975 0.025	0 1102 28	0.000 0.975 0.025	0 1558 40	0.000 0.975 0.025	0 2015 52
Total Flow From South:	uth:		848		1130		1598		2067

Analyst:	VHB		Is this a 4 way intersection?	
Date:	15-Dec-20	<u> </u>	Yes, my intersection has four approaches	
Highway:	Boggy Cree	ek Rd	If not, which 3 approaches exist in the	
Intersection:	Timber Ln - B	uild PM	intersection?	
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB	
	Narcoosse	e Rd	◯ EB, WB, and NB	
County:	Osceola	a	○ EB, SB, and NB	
Is the Mainline Oriented North/South?	Enter Yes or No		○ WB, SB, and NB	
K Factors	Mainline 9.00% Side street 8.60%	D Factors Northbound (NB) Southbound (SB) Westbound (WB) Eastbound (EB)	Mainline 41.1% 58.9% Side street 62.1% 37.9%	

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	1000	1100	16000	16000	34100
2045	1100	3000	39000	39000	82100

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ited	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	40.0% 0.0% 60.0%	6 0 9	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT)  (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	52.8% 2.8% 44.4% 4.2% 87.3% 8.5%	19 1 16 27 565 55	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	20.9% 50.0% 29.1%	23 55 32	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek Rd from Simpson Rd to Narcoossee Rd Boggy Creek Rd Timber Ln - Build PM Highway: Intersection: Project:

	2019	2	2019	2	2025	2	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.400	0.532	18	0.532	18	0.532	19	0.531	19
West-To-East (Thru) West-To-South (RT)	0.000	0.000	0 15	0.000	0 15	0.000	0 16	0.000	0 17
Total Flow From West:	t:		33		33		35		36
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.528 0.028 0.444	0.408 0.006 0.586	24 0 35	0.409 0.004 0.587	34 0 48	0.410 0.003 0.587	50 0 71	0.411 0.002 0.587	66 0 94
Total Flow From East:	::		59		82		121		160
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.042 0.873 0.085	0.008 0.968 0.024	7 821 20	0.008 0.974 0.018	9 1101 20	0.008 0.978 0.014	13 1563 22	0.008 0.981 0.011	17 2027 23
Total Flow From North:	h:		848		1130		1598		2067
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.209 0.500 0.291	0.055 0.896 0.049	33 530 29	0.043 0.905 0.052	34 713 41	0.032 0.913 0.055	36 1018 61	0.026 0.918 0.056	38 1324 81
Total Flow From South:	th:		592		788		1115		1443

Date: 15-Dec-20  Highway: Boggy Creek - Build AM Intersection: Fells Cove Blvd Project: Boggy Creek Rd from Simpson Rd to Narcoossee Rd County: Osceola  Is the Mainline Oriented North/South?  K Factors Mainline 9.00%  Westbound (WB)  Yes, my intersection has four approach front, which 3 approaches exist in the intersection?  © EB, WB, and SB © EB, WB, and NB © EB, WB, and NB © WB, SB, and NB  Westbound (WB)  41.1%	Date:
Intersection: Project: Boggy Creek Rd from Simpson Rd to Narcoossee Rd County: Osceola  Is the Mainline Oriented North/South?  K Factors Mainline  D Factors    Intersection:   CEB, WB, and SB   EB, WB, and NB   CEB, WB, SB, SB, SB, SB, SB, SB, SB, SB, SB, S	
Project: Project: Boggy Creek Rd from Simpson Rd to Narcoossee Rd  County: Osceola  Enter Yes or No Yes  No  No  No  No  No  No  No  No  No  N	Highway:
Narcoossee Rd  County:  Osceola  Is the Mainline Oriented North/South?  K Factors  Mainline  D Factors  Mainline  Narcoossee Rd  © EB, WB, and NB  © EB, SB, and NB  WB, SB, and NB	Intersection:
County:  Osceola  EB, SB, and NB  SB, SB, and NB  WB, SB, and NB  WB, SB, and NB  WB, SB, and NB  The control of the control o	Project:
Is the Mainline Oriented North/South?  Enter Yes or No  Yes  No  K Factors Mainline D Factors Mainline	
Is the Mainline Oriented North/South?   K Factors Mainline  D Factors Mainline	County:
Side street         Eastbound (EB)         58.9%           6.40%         Side street           Northbound (NB)         63.0%           Southbound (SB)         0.0%	K Factors

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

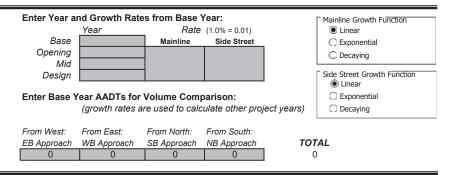
Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	15000	0	1900	32900
2045	39000	36500	0	2600	78100

	1st Guess Turning %'s for AADT Balancing	Actual/Counted Traffic for 2019		First Guess Turning % Option Used Existing Turning Movement Counts
(EB THRU) West-	to-North 0.0% to-East 99.6% to-South 0.4%	0 511 2	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB THRU)	to-South 7.1% 92.9% to-North 0.0%    -to-East 0.0%   -to-South 0.0%    -to-West 0.0%    -to-West 0.0%	29 381 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB THRU) South	1-to-West   30.8%   1-to-North   0.0%   1-to-East   69.2%	28 0 63	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek - Build AM Fells Cove Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

2019	2019	20	019	2(	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0 0	0.000	0	0.000	0	0.000	0
West-To-South (RT)	0.004	0.005	0 4 4 4	0.004	5	0.003	5 2	0.003	9
Total Flow From West:	est:		848		1130		1598		2067
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.071 0.929 0.000	0.068 0.932 0.000	38 517 0	0.057 0.943 0.000	42 696 0	0.044 0.956 0.000	46 998 0	0.039 0.961 0.000	53 1297 0
Total Flow From East:	ıst:		555		738		1044		1350
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000	0.000	0 0 0	0.000	0	0.000	0 0	0.000.0	0 0 0
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.308 0.000 0.692	0.356 0.000 0.644	27 0 50	0.355 0.000 0.645	29 0 54	0.355 0.000 0.645	33 0 61	0.355 0.000 0.645	37 0 68
Total Flow From South:	outh:		77		83		94		105

Analyst:	VHB		Γ	Is this a 4 way intersection?
Date:	15-Dec-20			Yes, my intersection has four approaches
Highway:	Boggy Creek -	Build PM		If not, which 3 approaches exist in the
Intersection:	Fells Cove	Blvd		intersection?
Project:	Boggy Creek Rd from	Simpson Rd to		EB, WB, and SB
	Narcoosse	e Rd		EB, WB, and NB
County:	Osceo	la		○ EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No Yes No			○ WB, SB, and NB
K Factors	Mainline	D Factors		Mainline
	9.00%	Westbound (WB)		58.9%
	Side street	Eastbound (EB)		41.1%
	6.40%			Side street
'		Northbound (NB)		51.0%
		Southbound (SB)		0.0%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year a	nd Growth Rate	s from Base `	Year:		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		○ Exponential
Opening Mid					○ Decaying
Design					Side Street Growth Function  © Linear
Enter Base Y	ear AADTs for	Volume Comi	parison:		○ Exponential
	(growth rates ar			iect years)	Decaying
From West: EB Approach	From East: WB Approach	From North: SB Approach	From South: NB Approach	TO1	- A1
0	0	0	0	(	

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

## Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	16000	15000	0	1900	32900
2045	39000	36500	0	2600	78100

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT) (WB LT)	West-to-North West-to-East West-to-South  East-to-South	0.0% 97.7% 2.3%	0 521 12	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB THRU) (WB RT) (SB LT) (SB THRU) (SB RT)	East-to-West East-to-North North-to-East North-to-South North-to-West	93.4% 0.0% 0.0% 0.0% 0.0%	562 0 0 0 0	Existing Turning Movement Counts	The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	34.0% 0.0% 66.0%	17 0 33	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Boggy Creek - Build PM Fells Cove Blvd Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

	2019	2	2019	20	2025	.7	2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.000	0.000	0	0.000	0	000.0	0	0.000	0
West-10-East (1nru) West-To-South (RT)	0.977	0.977	578 14	0.981	//3 15	0.985 0.015	1098 17	0.987 0.013	1424
Total Flow From West:	est:		592		788		1115		1443
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.066 0.934 0.000	0.055 0.945 0.000	44 751 0	0.045 0.955 0.000	48 1010 0	0.036 0.964 0.000	54 1443 0	0.031 0.969 0.000	60 1875 0
Total Flow From East:	ıst:		795		1058		1497		1935
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000	0.000 0.000 0.000	0	0.000 0.000 0.000	0	0.000 0.000 0.000	0	0.000	0 0 0
Total Flow From North:	orth:		0		0		0		0
South-To-West (LT) South-To-North (Thru)	0.340	0.390	24	0.388	26	0.387	29	0.386	33
South-To-East (RT) C  Total Flow From South:	0.660 outh:	0.610	38 <b>62</b>	0.612	41 <b>67</b>	0.613	47 <b>76</b>	0.614	52 <b>85</b>

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		Yes, my intersection has four approaches
Highway:	Narcoosse	e Rd	If not, which 3 approaches exist in the
Intersection:	Boggy Creek Rd	- Build AM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	○ EB, WB, and SB
	Narcoosse	e Rd	☐ EB, WB, and NB
County:	Osceol	a	EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		○ WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
	9.00%	Northbound (NB)	64.8%
	Side street	Southbound (SB)	35.2%
	9.00%	_	Side street
		Westbound (WB)	0.0%
		Eastbound (EB)	58.9%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

Enter Yes or No

● Yes

○ No

If "Yes" go to cell C47

If "No" go to cell C31

Enter Year a	nd Growth Rate	s from Base \	rear:		Mainline Growth Function
	Year	Rate	(1.0% = 0.01)		<ul><li>Linear</li></ul>
Base		Mainline	Side Street		○ Exponential
Opening Mid					○ Decaying
Design					Side Street Growth Function  © Linear
Enter Base Y	ear AADTs for	Volume Com	parison:		○ Exponential
	(growth rates ar			ect years)	Decaying
From West:	From East:	From North:	From South:		
EB Approach	WB Approach	SB Approach	NB Approach	TO1	TAL
0	0	0	0	C	)

### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	15000	0	32000	33000	80000
2045	36500	0	52500	58000	147000

		1st Guess urning %'s for	Actual/Count	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	57.8% 0.0% 42.2%	356 0 260	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the
(WB LT) (WB THRU) (WB RT) (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North  North-to-East North-to-South North-to-West	0.0% 0.0% 0.0% 0.0% 87.3% 12.7%	0 0 0 0 600 87	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual distribution of turning volumes entered</u> . No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Closu	South-to-West South-to-North South-to-East ure:	16.4% 83.6% 0.0%	331 1682 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Narcoossee Rd Boggy Creek Rd - Build AM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

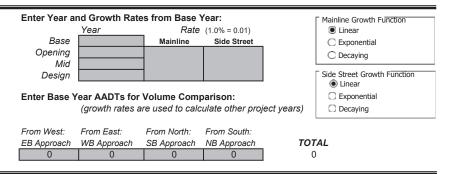
	2019		2019	2	2025	. 4	2035	2045	45
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT) West-To-East (Thru) West-To-South (RT)	0.578 0.000 0.422	0.601 0.000 0.399	478 0 317	0.591 0.000 0.409	625 0 433	0.579 0.000 0.421	867 0 630	0.572 0.000 0.428	1107 0 828
Total Flow From West:			795		1058		1497		1935
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.000	0.000 0.000 0.000	0 0 0	0.000	0 0	0.000 0.000 0.000	0 0 0	0.000	000
Total Flow From East:	ıst:		0		0		0		0
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000 0.873 0.127	0.000 0.818 0.182	0 829 185	0.000 0.794 0.206	0 924 240	0.000 0.766 0.234	0 1082 331	0.000 0.747 0.253	0 1242 421
Total Flow From North:	orth:		1014		1164		1413		1663
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.164 0.836 0.000	0.214 0.786 0.000	412 1513 0	0.249 0.751 0.000	563 1698 0	0.291 0.709 0.000	821 2001 0	0.319 0.681 0.000	1079 2304 0
Total Flow From South:	outh:		1925		2261		2822		3383

Analyst:	VHB		Is this a 4 way intersection?
Date:	15-Dec-20		☐ Yes, my intersection has four approaches
Highway:	Narcoosse	e Rd	If not, which 3 approaches exist in the
Intersection:	Boggy Creek Rd	- Build PM	intersection?
Project:	Boggy Creek Rd from	Simpson Rd to	C EB, WB, and SB
	Narcoosse	e Rd	○ EB, WB, and NB
County:	Osceol	a	EB, SB, and NB
Is the Mainline Oriented North/South?	Enter Yes or No		O WB, SB, and NB
K Factors	Mainline	D Factors	Mainline
I	9.00%	Northbound (NB)	35.2%
	Side street	Southbound (SB)	64.8%
	9.00%		Side street
		Westbound (WB)	0.0%
		Eastbound (EB)	58.9%

Do you have FTSUTMS Model Year traffic from which you would like to interpolate/extrapolate for project years? (Y/N)

If "Yes" go to cell C47

If "No" go to cell C31



### **Enter Project and Model Years**

	Year
Base	2019
Opening	2025
Mid	2035
Design	2045
Model	2045

### Enter Base and Model Year AADTs for Volume Comparison:

	From West:	From East:	From North:	From South:	
	EB Approach	WB Approach	SB Approach	NB Approach	TOTAL
2019	15000	0	32000	33000	80000
2045	36500	0	52500	58000	147000

		1st Guess urning %'s for ADT Balancing	Actual/Coun Traffic for 2019	ted	First Guess Turning % Option Used Existing Turning Movement Counts
(EB LT) (EB THRU) (EB RT)	West-to-North West-to-East West-to-South	45.7% 0.0% 54.3%	233 0 277	Existing Year AADTs	Only the existing year total departure volumes [AADT*K*(1-D)] will be used to calculate the turning percentages first guess.
(WB LT) (WB THRU) (WB RT) (SB LT) (SB THRU) (SB RT)	East-to-South East-to-West East-to-North North-to-East North-to-South North-to-West	0.0% 0.0% 0.0% 0.0% 83.8% 16.2%	0 0 0 0 1614 311	Existing Turning Movement Counts	The turning percentages first guess.  The turning percentages first guess is the same as the <u>actual</u> <u>distribution of turning volumes</u> <u>entered.</u> No balancing technique is used.
(NB LT) (NB THRU) (NB RT) Desired Clos	South-to-West South-to-North South-to-East ure:	23.4% 76.6% 0.0%	271 886 0	FSUTMS Model Year AADTs	Only the FSUTMS model year departure volumes [AADT*K*(1-D)] will be used to calculate the

VHB 15-Dec-20 Osceola Analyst: Date: County: Narcoossee Rd Boggy Creek Rd - Build PM Boggy Creek Rd from Simpson Rd to Narcoossee Rd Highway: Intersection: Project:

2019	2019	2019	910	2	2025		2035	20	2045
Approach-To- Approach	Initial Estimate	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume	Final Estimate	Calculated Volume
West-To-North (LT)	0.457	0.432	343	0.401	424	0.383	573	0.373	722
West-To-East (Thru) West-To-South (RT)	0.000 0.543	0.000	0 452	0.000	0 634	0.000	0 924	0.000	0 1213
Total Flow From West:	est:		795		1058		1497		1935
East-To-South (LT) East-To-West (Thru) East-To-North (RT)	0.000	0.000	000	0.000	000	0.000	000	0.000	000
Total Flow From East:	ıst:		0		0		0		0
North-To-East (LT) North-To-South (Thru) North-To-West (RT)	0.000 0.838 0.162	0.000 0.831 0.169	0 1551 315	0.000 0.812 0.188	0 1739 403	0.000 0.786 0.214	0 2045 557	0.000 0.769 0.231	0 2355 707
Total Flow From North:	orth:		1866		2142		2602		3062
South-To-West (LT) South-To-North (Thru) South-To-East (RT)	0.234 0.766 0.000	0.262 0.738 0.000	274 771 0	0.315 0.685 0.000	387 841 0	0.367 0.633 0.000	563 970 0	0.402 0.598 0.000	738 1099 0
Total Flow From South:	outh:		1045		1228		1533		1837

# Appendix J

No Build Conditions Synchro Intersection
Analysis Outputs

Intersection						
Int Delay, s/veh	3					
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		7	<u>ነ</u>		¥	
Traffic Vol, veh/h	686	19	11	965	49	21
Future Vol, veh/h	686	19	11	965	49	21
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	225	240	-	0	-
Veh in Median Storage, #	# 0			0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mymt Flow	722	20	12	1016	52	22
IVIVIIIL FIOW	122	20	IZ	1010	32	ZZ
Major/Minor Ma	ajor1	N	Major2		Minor1	
Conflicting Flow All	0	0	742	0	1762	722
Stage 1	_	_		_	722	-
Stage 2	_	_	_	_	1040	_
Critical Hdwy	_		4.14	-	6.42	6.22
Critical Hdwy Stg 1	_			_	5.42	0.22
Critical Hdwy Stg 2		-	-	_	5.42	-
		-				
Follow-up Hdwy	-		2.236	-	3.518	
Pot Cap-1 Maneuver	-	-	856	-	93	427
Stage 1	-	-	-	-	481	-
Stage 2	-	-	-	-	341	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	856	-	92	427
Mov Cap-2 Maneuver	-	-	-	-	92	-
Stage 1	-	-	-	-	481	-
Stage 2	-	-	-	-	336	-
J						
A			MD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		74	
HCM LOS					F	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
	- 1			LDK		VVDI
Capacity (veh/h)		120	-	-	856	-
HCM Carety Dates (2)		0.614	-	-	0.014	-
HCM Control Delay (s)		74	-	-	9.3	-
HCM Lane LOS		F	-	-	A	-
HCM 95th %tile Q(veh)		3.1	-	-	0	-

	۶	<b>→</b>	*	•	<b>←</b>	4	1	<b>†</b>	<i>&gt;</i>	<b>/</b>	<b>↓</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>↑</b>	7		<b>^</b>	7		4			र्स	7
Traffic Volume (veh/h)	114	541	30	20	725	126	60	40	20	86	2	173
Future Volume (veh/h)	114	541	30	20	725	126	60	40	20	86	2	173
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	139	660	37	24	884	154	73	49	24	105	2	211
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	322	1131	959	444	1046	886	77	29	9	207	2	191
Arrive On Green	0.09	0.61	0.61	0.04	0.57	0.57	0.12	0.12	0.12	0.12	0.12	0.12
Sat Flow, veh/h	1753	1841	1560	1753	1841	1560	136	244	75	1057	20	1585
Grp Volume(v), veh/h	139	660	37	24	884	154	146	0	0	107	0	211
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1753	1841	1560	455	0	0	1077	0	1585
Q Serve(g_s), s	2.7	19.3	8.0	0.5	35.8	4.2	2.1	0.0	0.0	0.0	0.0	10.8
Cycle Q Clear(g_c), s	2.7	19.3	8.0	0.5	35.8	4.2	10.8	0.0	0.0	8.7	0.0	10.8
Prop In Lane	1.00		1.00	1.00		1.00	0.50		0.16	0.98		1.00
Lane Grp Cap(c), veh/h	322	1131	959	444	1046	886	115	0	0	209	0	191
V/C Ratio(X)	0.43	0.58	0.04	0.05	0.85	0.17	1.27	0.00	0.00	0.51	0.00	1.11
Avail Cap(c_a), veh/h	327	1131	959	530	1046	886	115	0	0	209	0	191
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.5	10.4	6.8	8.3	16.1	9.3	42.6	0.0	0.0	38.6	0.0	39.5
Incr Delay (d2), s/veh	0.7	2.2	0.1	0.0	8.4	0.4	173.3	0.0	0.0	0.9	0.0	96.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.3	11.2	0.4	0.3	21.0	2.4	13.9	0.0	0.0	4.2	0.0	14.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.1	12.6	6.9	8.3	24.5	9.7	215.9	0.0	0.0	39.5	0.0	136.0
LnGrp LOS	В	В	Α	Α	С	Α	F	Α	Α	D	Α	<u> </u>
Approach Vol, veh/h		836			1062			146			318	
Approach Delay, s/veh		12.9			22.0			215.9			103.5	
Approach LOS		В			С			F			F	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.1	62.6		16.0	15.2	58.5		16.0				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	51.0		* 11	8.0	51.0		* 11				
Max Q Clear Time (q_c+l1), s	2.5	21.3		12.8	4.7	37.8		12.8				
Green Ext Time (p_c), s	0.0	9.3		0.0	0.1	8.7		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			41.7									
HCM 6th LOS			D									
Notos												

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	3.9					
		NIVAD	NET	NED	CIAII	CMT
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	<b>\</b>	7	<b>†</b>	7	<b>ነ</b>	1//
Traffic Vol, veh/h	92	92	599	55	31	466
Future Vol, veh/h	92	92	599	55	31	466
Conflicting Peds, #/hr	0	0	0	0	_ 0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-		-	None
Storage Length	0	0	-	295	390	-
Veh in Median Storag		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	97	97	631	58	33	491
N A /N A .	N. 1		1 1 1		NA ' O	
	Minor1		Major1		Major2	
Conflicting Flow All	1188	631	0	0	689	0
Stage 1	631	-	-	-	-	-
Stage 2	557	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.14	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.236	-
Pot Cap-1 Maneuver	208	481	-	-	896	-
Stage 1	530	-	-	-	-	-
Stage 2	574	-	-	-	-	-
Platoon blocked, %			_	-		-
Mov Cap-1 Maneuver	200	481	_	_	896	-
Mov Cap-2 Maneuver		-	_		-	_
Stage 1	530	_				_
Stage 2	553	_	_	_	_	_
Jiage 2	555					
Approach	NW		NE		SW	
HCM Control Delay, s	26.6		0		0.6	
HCM LOS	D					
Minan Lana/Maian Mu	1	NICT	NEDA	11.1.11 11	IVA/I O	CVVII
Minor Lane/Major Mvr	nt	NET		IWLn1N		SWL
Capacity (veh/h)		-	-	200	481	896
HCM Lane V/C Ratio		-	-	0.484		0.036
HCM Control Delay (s	5)	-	-	00.0	14.4	9.2
HCM Lane LOS		-	-	Ε	В	Α
HCM 95th %tile Q(veh	1)	-	-	2.4	0.7	0.1

	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>↓</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	- 1	<b>+</b>			<b>•</b>	7	ሻ	<b>†</b>	7		ર્ન	7
Traffic Volume (veh/h)	57	520	0	0	517	40	0	0	0	124	0	202
Future Volume (veh/h)	57	520	0	0	517	40	0	0	0	124	0	202
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	4.00	1.00	1.00	4.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1041	No	٥	0	No	10/11	1070	No	1070	1070	No	1070
Adj Sat Flow, veh/h/ln	1841	1841 547	0	0	1841 544	1841 42	1870 0	1870 0	1870 0	1870 131	1870 0	1870 213
Adj Flow Rate, veh/h Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Cap, veh/h	546	1357	0	0	1115	945	1	2	1	274	0	244
Arrive On Green	0.07	0.74	0.00	0.00	0.61	0.61	0.00	0.00	0.00	0.15	0.00	0.15
Sat Flow, veh/h	1753	1841	0.00	0.00	1841	1560	1781	1870	1585	1781	0.00	1585
Grp Volume(v), veh/h	60	547	0	0	544	42	0	0	0	131	0	213
Grp Sat Flow(s), veh/h/ln	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	1.3	13.3	0.0	0.0	19.8	1.3	0.0	0.0	0.0	8.1	0.0	15.8
Cycle Q Clear(g_c), s	1.3	13.3	0.0	0.0	19.8	1.3	0.0	0.0	0.0	8.1	0.0	15.8
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	546	1357	0	0	1115	945	1	2	1	274	0	244
V/C Ratio(X)	0.11	0.40	0.00	0.00	0.49	0.04	0.00	0.00	0.00	0.48	0.00	0.87
Avail Cap(c_a), veh/h	566	1357	0	0	1115	945	445	468	396	341	0	304
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.9	5.9	0.0	0.0	13.2	9.6	0.0	0.0	0.0	46.4	0.0	49.6
Incr Delay (d2), s/veh	0.1	0.9	0.0	0.0	1.5	0.1	0.0	0.0	0.0	1.3	0.0	20.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.7	7.3	0.0	0.0	12.0	8.0	0.0	0.0	0.0	6.6	0.0	12.1
Unsig. Movement Delay, s/veh	0.0	/ 0	0.0	0.0	140	0.7	0.0	0.0	0.0	477	0.0	/0.7
LnGrp Delay(d),s/veh	8.0	6.8	0.0	0.0	14.8 B	9.7	0.0	0.0	0.0	47.7	0.0 A	69.7
LnGrp LOS	A	A 607	A	A		A	A	<u>A</u>	A	D		<u>E</u>
Approach Polay, s/yoh		6.9			586 14.4			0.0			344 61.3	
Approach Delay, s/veh Approach LOS		0.9 A			14.4 B			0.0			01.3 E	
Approach EO3											L	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		95.5		24.5	15.7	79.8		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		47.9		23.0	10.0	30.8		30.0				
Max Q Clear Time (g_c+I1), s		15.3		17.8	3.3	21.8		0.0				
Green Ext Time (p_c), s		6.8		0.7	0.0	3.6		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			21.9									
HCM 6th LOS			С									

Int Delay, S/veh   3   Movement   EBL   EBT   EBR   WBL   WBT   WBR   NBL   NBT   NBR   SBL   SBT   SBR   Cane Configurations	Intersection												
Lane Configurations		3											
Traffic Vol, veh/h	Movement	FBI	FRT	FBR	WBI	WRT	WBR	NBI	NBT	NBR	SBI	SBT	SBR
Traffic Vol, veh/h				LDIT	******		WER						ODIT
Future Vol, veh/h Conflicting Peds, #fhr O O O O O O O O O O O O O O O O O O O		13		7	48		40						6
Conflicting Peds, #/hr   Sign   Stop   Stop   Stop   Stop   Stop   Stop   Stop   Stop   Free   Fre			_	•		_							
Sign Control   Stop	·			0									
RT Channelized						Stop	Stop	Free		Free	Free		Free
Storage Length		•	-									-	
Grade, %	Storage Length	-	-	-	-	-	-	240	-	300	425	-	-
Peak Hour Factor	Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %   2   2   2   2   2   2   2   4   4   4	Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Mymt Flow         14         0         7         51         0         42         2         696         31         25         468         6           Major/Minor         Minor2         Minor1         Major1         Major2           Conflicting Flow All         1258         1252         471         1225         1224         696         474         0         0         727         0         0           Stage 1         521         521         -         700         700         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>Peak Hour Factor</td> <td>95</td>	Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Major/Minor         Minor2         Minor1         Major1         Major2           Conflicting Flow All         1258         1252         471         1225         1224         696         474         0         0         727         0         0           Stage 1         521         521         -         700         700         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Heavy Vehicles, %		2	2	2	2		4		4	4	4	4
Conflicting Flow All   1258   1252   471   1225   1224   696   474   0   0   727   0   0	Mvmt Flow	14	0	7	51	0	42	2	696	31	25	468	6
Conflicting Flow All   1258   1252   471   1225   1224   696   474   0   0   727   0   0													
Conflicting Flow All   1258   1252   471   1225   1224   696   474   0   0   727   0   0	Major/Minor	Minor2			Minor1			Major1		N	Major2		
Stage 1         521         521         - 700         700		1258	1252			1224			0			0	0
Stage 2				-	700	700	-	-	-	-	-	-	-
Critical Hdwy       7.12       6.52       6.22       7.12       6.52       6.22       4.14       - 4.14       - 4.14       2.236         Critical Hdwy Stg 1       6.12       5.52       - 6.12       5.52				-			-	-	-	-	-	-	-
Critical Hdwy Stg 2         6.12         5.52         -         6.12         5.52         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <t< td=""><td>Critical Hdwy</td><td>7.12</td><td>6.52</td><td>6.22</td><td>7.12</td><td>6.52</td><td>6.22</td><td>4.14</td><td>-</td><td>-</td><td>4.14</td><td>-</td><td>-</td></t<>	Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.14	-	-	4.14	-	-
Follow-up Hdwy 3.518 4.018 3.318 3.518 4.018 3.318 2.236 - 2.236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 - 5.2236 -	Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Pot Cap-1 Maneuver	Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Stage 1         539         532         -         430         441         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -									-	-		-	-
Stage 2         410         427         -         536         530         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Pot Cap-1 Maneuver			593			442	1078	-	-	867	-	-
Platoon blocked, %				-			-	-	-	-	-	-	-
Mov Cap-1 Maneuver         131         167         593         150         173         442         1078         -         -         867         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -		410	427	-	536	530	-	-	-	-	-	-	-
Mov Cap-2 Maneuver         131         167         -         150         173         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - </td <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>-</td>		,					,		-	-		-	-
Stage 1         538         517         -         429         440         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -							442	1078	-	-	867	-	-
Stage 2         370         426         -         514         515         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	•						-	-	-	-	-	-	-
Approach         EB         WB         NB         SB           HCM Control Delay, s         27.6         34.1         0         0.5           HCM LOS         D         D         D         D           Minor Lane/Major Mvmt         NBL         NBT         NBR EBLn1WBLn1         SBL         SBT         SBR           Capacity (veh/h)         1078         -         -         180         214         867         -         -           HCM Lane V/C Ratio         0.002         -         -         0.117         0.433         0.029         -         -           HCM Control Delay (s)         8.3         -         -         27.6         34.1         9.3         -         -           HCM Lane LOS         A         -         -         D         D         A         -         -	Ü			-			-	-	-	-	-	-	-
HCM Control Delay, s       27.6       34.1       0       0.5         HCM LOS       D       D       D         Minor Lane/Major Mvmt       NBL       NBT       NBR EBLn1WBLn1       SBL       SBT       SBR         Capacity (veh/h)       1078       -       180       214       867       -       -         HCM Lane V/C Ratio       0.002       -       -       0.117       0.433       0.029       -       -         HCM Control Delay (s)       8.3       -       27.6       34.1       9.3       -       -         HCM Lane LOS       A       -       D       D       A       -       -	Stage 2	3/0	426	-	514	515	-	-	-	-	-	-	-
HCM Control Delay, s       27.6       34.1       0       0.5         HCM LOS       D       D       D         Minor Lane/Major Mvmt       NBL       NBT       NBR EBLn1WBLn1       SBL       SBT       SBR         Capacity (veh/h)       1078       -       180       214       867       -       -         HCM Lane V/C Ratio       0.002       -       -       0.117       0.433       0.029       -       -         HCM Control Delay (s)       8.3       -       27.6       34.1       9.3       -       -         HCM Lane LOS       A       -       D       D       A       -       -													
Minor Lane/Major Mvmt         NBL         NBT         NBR EBLn1WBLn1         SBL         SBT         SBR           Capacity (veh/h)         1078         -         -         180         214         867         -         -           HCM Lane V/C Ratio         0.002         -         -         0.117         0.433         0.029         -         -           HCM Control Delay (s)         8.3         -         -         27.6         34.1         9.3         -         -           HCM Lane LOS         A         -         -         D         D         A         -         -	Approach	EB			WB			NB			SB		
Minor Lane/Major Mvmt         NBL         NBT         NBR EBLn1WBLn1         SBL         SBT         SBR           Capacity (veh/h)         1078         -         -         180         214         867         -         -           HCM Lane V/C Ratio         0.002         -         -         0.117         0.433         0.029         -         -           HCM Control Delay (s)         8.3         -         -         27.6         34.1         9.3         -         -           HCM Lane LOS         A         -         -         D         D         A         -         -	<b>J</b> .							0			0.5		
Capacity (veh/h)       1078       -       -       180       214       867       -       -         HCM Lane V/C Ratio       0.002       -       -       0.117       0.433       0.029       -       -         HCM Control Delay (s)       8.3       -       -       27.6       34.1       9.3       -       -         HCM Lane LOS       A       -       -       D       D       A       -       -	HCM LOS	D			D								
Capacity (veh/h)       1078       -       -       180       214       867       -       -         HCM Lane V/C Ratio       0.002       -       -       0.117       0.433       0.029       -       -         HCM Control Delay (s)       8.3       -       -       27.6       34.1       9.3       -       -         HCM Lane LOS       A       -       -       D       D       A       -       -													
HCM Lane V/C Ratio       0.002       -       -       0.117       0.433       0.029       -       -         HCM Control Delay (s)       8.3       -       -       27.6       34.1       9.3       -       -         HCM Lane LOS       A       -       -       D       D       A       -       -	Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V	WBLn1	SBL	SBT	SBR			
HCM Lane V/C Ratio       0.002       -       -       0.117       0.433       0.029       -       -         HCM Control Delay (s)       8.3       -       -       27.6       34.1       9.3       -       -         HCM Lane LOS       A       -       -       D       D       A       -       -	Capacity (veh/h)		1078	-	-	180	214	867	-	-			
HCM Control Delay (s) 8.3 27.6 34.1 9.3 HCM Lane LOS A - D D A				-	-				-	-			
HCM Lane LOS A D D A	HCM Control Delay (s)	)		-					-	-			
HCM 95th %tile Q(veh) 0 0.4 2 0.1				-	-				-	-			
	HCM 95th %tile Q(veh	ı)	0	-	-	0.4	2	0.1	-	-			

	<b>y</b>	74	$\mathbf{x}$	4	ightharpoonup	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	*	7	<b>^</b> ^	7	*	<b>^</b> ^	
Traffic Volume (veh/h)	431	305	796	138	390	1859	
Future Volume (veh/h)	431	305	796	138	390	1859	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No	1100	No	1100	1100	No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	454	321	838	0	411	1957	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	434	387	2077		470	3026	
Arrive On Green	0.25	0.25	0.41	0.00	0.11	0.60	
Sat Flow, veh/h	1753	1560	5191	1560	1753	5191	
Grp Volume(v), veh/h	454	321	838	0	411	1957	
Grp Sat Flow(s), veh/h/ln	1753	1560	1675	1560	1753	1675	
Q Serve(g_s), s	22.3	17.5	10.6	0.0	10.2	22.8	
Cycle Q Clear(q_c), s	22.3	17.5	10.6	0.0	10.2	22.8	
Prop In Lane	1.00	1.00	10.0	1.00	1.00	22.0	
Lane Grp Cap(c), veh/h	434	387	2077	1.00	470	3026	
V/C Ratio(X)	1.05	0.83	0.40		0.88	0.65	
Avail Cap(c_a), veh/h	434	387	2077		470	3026	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh	33.8	32.1	18.6	0.0	17.4	11.7	
Incr Delay (d2), s/veh	55.5	13.8	0.6	0.0	16.1	1.1	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	22.2	11.9	6.9	0.0	10.3	11.5	
Unsig. Movement Delay, s/veh		11.7	0.7	0.0	10.0	11.0	
LnGrp Delay(d),s/veh	89.3	45.9	19.2	0.0	33.5	12.7	
LnGrp LOS	67.5 F	43.7 D	17.2 B	0.0	C	В	
Approach Vol, veh/h	775	D	838	А	<u> </u>	2368	
Approach Delay, s/veh	71.3		19.2	A		16.3	
Approach LOS	71.5 F		19.2 B			10.3 B	
· ·	L		Ъ			ъ	
Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	17.0	44.0				61.0	29.0
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	10.2	37.2				54.2	22.3
Max Q Clear Time (g_c+I1), s	12.2	12.6				24.8	24.3
Green Ext Time (p_c), s	0.0	6.7				19.9	0.0
Intersection Summary							
HCM 6th Ctrl Delay			27.6				
HCM 6th LOS			С				
Notes							

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<u>LDL</u>	<u></u>	VVD1	VVDIX	JDL	7 JUK
Traffic Vol, veh/h	0	<b>T</b>	<b>T</b>	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	None
Storage Length	465	-	_	0	0	0
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mymt Flow	0	0	0	0	0	0
IVIVIIIL I IOW	U	U	U	U	U	U
	Major1	N	Major2		Vinor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1609	-	-	-	1022	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1609	-	-	-	1022	1084
Mov Cap-2 Maneuver	-	-	-	-	1022	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s HCM LOS	0		0		0 A	
HCIVI LUS					А	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR:	SBLn1 S
Capacity (veh/h)		1609	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	-	0
HCM Lane LOS		Α	-	-	-	Α
HCM 95th %tile Q(veh	)	0	-	-	-	-
•						

Intersection						
Int Delay, s/veh	1.7					
		EDD	MDI	WDT	NDI	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>†</b>	- 7	<u>ነ</u>	100	<b>\</b>	7
Traffic Vol, veh/h	648	5	32	498	30	66
Future Vol, veh/h	648	5	32	498	30	66
Conflicting Peds, #/hr	_ 0	0	0	_ 0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	682	5	34	524	32	69
Major/Minor	olor1		Majora		Minor1	
	ajor1		Major2		Minor1	/ 22
Conflicting Flow All	0	0	687	0	1274	682
Stage 1	-	-	-	-	682	-
Stage 2	-	-	-	-	592	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.236	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	898	-	184	450
Stage 1	-	-	-	-	502	-
Stage 2	-	-	-	-	553	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	_	-	898	-	177	450
Mov Cap-2 Maneuver	-	_	-	-	177	-
Stage 1	_	_	_	_	502	_
Stage 2	_	_	_	_	532	_
Juge 2					552	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.6		19.3	
HCM LOS					С	
Minor Long/Major Marest	N	UDI 51	VIDI ~2	EDT	<b>FDD</b>	WDI
Minor Lane/Major Mvmt	ſ	VBLn11		EBT	EBR	WBL
Capacity (veh/h)		177	450	-	-	898
HCM Lane V/C Ratio		0.178		-	-	0.038
HCM Control Delay (s)		29.7	14.5	-	-	9.2
HCM Lane LOS		D	В	-	-	Α
HCM 95th %tile Q(veh)		0.6	0.5	-	-	0.1

Intersection												
Int Delay, s/veh	10.1											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<u> </u>	7	ሻ	<u> </u>	7	NDL	4	HOIL	ODL	4	7
Traffic Vol, veh/h	40	559	19	13	635	28	32	4	38	60	0	189
Future Vol, veh/h	40	559	19	13	635	28	32	4	38	60	0	189
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	460	-	250	345	-	400	-	-	-	-	-	0
Veh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2
Mvmt Flow	42	588	20	14	668	29	34	4	40	63	0	199
Major/Minor N	/lajor1		1	Major2			Minor1			Minor2		
Conflicting Flow All	697	0	0	608	0	0	1482	1397	588	1400	1388	668
Stage 1	-	-	-	-	-	-	672	672	-	696	696	-
Stage 2	-	-	-	-	-	-	810	725	-	704	692	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.236	-	-	2.236	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	890	-	-	961	-	-	103	141	509	118	143	458
Stage 1	-	-	-	-	-	-	445 374	454 430	-	432 428	443 445	-
Stage 2 Platoon blocked, %	-	-	-	-	-	-	3/4	430	-	4 <b>2</b> ŏ	443	-
Mov Cap-1 Maneuver	890	-	-	961	-	-	56	132	509	101	134	458
Mov Cap-2 Maneuver	070	-	_	- 701	-	_	56	132	307	101	134	430
Stage 1	_	_	_	-	_	-	424	433	-	412	436	-
Stage 2	_	_	_	_	_	_	208	424	-	372	424	-
5 ~										3, 2		
Approach	EB			WB			NB			SB		
HCM Control Delay, s	0.6			0.2			95.2			35.3		
HCM LOS	0.0			0.2			95.2 F			33.3 E		
TOW LOO							'					
Minor Long/Maior M		UDL1	EDI	EDT	EDD	WDI	MDT	MDD	CDL1	CDI 2		
Minor Lane/Major Mvm	t l	VBLn1	EBL	EBT	EBR	WBL	WBT		SBLn1			
Capacity (veh/h)		109	890	-	-	961	-	-	101	458		
HCM Control Dolay (s)		0.715		-		0.014	-		0.625			
HCM Control Delay (s) HCM Lane LOS		95.2 F	9.2 A	-	-	8.8 A	-	-	87.2 F	18.8 C		
HCM 95th %tile Q(veh)		3.8	0.1	-	-	0	-	-	3	2.2		
HOW 75th 70the Q(VeH)		5.0	U. I			U		_	3	2.2		

	۶	<b>→</b>	*	•	<b>←</b>	•	1	<b>†</b>	/	<b>/</b>	Ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	7	<b>^</b>	7	ሻ	<b>•</b>	7	ሻ	<b>^</b>	7
Traffic Volume (veh/h)	646	137	325	87	188	141	521	562	97	90	257	487
Future Volume (veh/h)	646	137	325	87	188	141	521	562	97	90	257	487
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	680	144	342	92	198	148	548	592	102	95	271	513
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	610	1117	494	211	210	94	473	771	653	213	940	920
Arrive On Green	0.32	0.32	0.32	0.06	0.06	0.06	0.16	0.42	0.42	0.03	0.27	0.27
Sat Flow, veh/h	1739	3497	1547	1753	3497	1560	1753	1841	1560	1753	3497	1560
Grp Volume(v), veh/h	680	144	342	92	198	148	548	592	102	95	271	513
Grp Sat Flow(s), veh/h/ln	1739	1749	1547	1753	1749	1560	1753	1841	1560	1753	1749	1560
Q Serve(g_s), s	48.2	4.4	29.0	7.3	8.5	9.0	24.3	41.3	6.1	5.1	9.2	30.1
Cycle Q Clear(g_c), s	48.2	4.4	29.0	7.3	8.5	9.0	24.3	41.3	6.1	5.1	9.2	30.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	610	1117	494	211	210	94	473	771	653	213	940	920
V/C Ratio(X)	1.11	0.13	0.69	0.44	0.94	1.58	1.16	0.77	0.16	0.45	0.29	0.56
Avail Cap(c_a), veh/h	610	1145	507	223	210	94	473	771	653	213	940	920
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.9	36.2	44.6	61.0	70.2	70.5	37.7	37.4	27.1	42.2	43.5	18.8
Incr Delay (d2), s/veh	71.9	0.1	3.9	1.4	46.3	306.3	93.0	7.2	0.5	1.5	8.0	2.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	44.9	3.4	17.0	5.9	8.8	19.2	27.3	26.8	4.2	1.3	7.3	16.4
Unsig. Movement Delay, s/veh		2/2	40 F	(2.4	11//	27/ 0	120.7	447	27 /	40.7	44.0	21.2
LnGrp Delay(d),s/veh	114.7	36.3	48.5	62.4	116.6	376.8	130.7	44.6	27.6	43.7	44.3	21.2
LnGrp LOS	F	D	D	E	F 420	F	F	D 1242	С	D	D 070	С
Approach Vol, veh/h		1166			438			1242			879	
Approach Delay, s/veh		85.6			193.1			81.2			30.8	
Approach LOS		ŀ			F			F			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	32.1	47.1	16.1	54.7	9.6	69.6	55.0	15.8				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	4.5	6.8	6.8	6.8				
Max Green Setting (Gmax), s	24.3	40.3	10.4	* 49	5.1	62.8	48.2	9.0				
Max Q Clear Time (g_c+I1), s	26.3	32.1	9.3	31.0	7.1	43.3	50.2	11.0				
Green Ext Time (p_c), s	0.0	2.3	0.0	1.8	0.0	3.8	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			83.8									
HCM 6th LOS			F									

User approved ignoring U-Turning movement.

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	<u>ች</u>	<b>*</b>	<b>^</b>	7	<u>ች</u>	<b>^</b>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
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	160	-	400	310	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	0	0	0	0	0	0
		_		_		
	Minor1		/lajor1		/lajor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	_	-
Follow-up Hdwy	3.52	3.32	-	_	2.24	_
Pot Cap-1 Maneuver	1021	-	_	_		-
Stage 1	-	_	_	_	_	_
Stage 2	1022	_		_	_	_
Platoon blocked, %	1022		_			_
	1001		-			
Mov Cap-1 Maneuver	1021	-	-	-	-	-
Mov Cap-2 Maneuver	1021	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A					
	,,					
		NET	NES	MDL 411	/DL 0	001
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1V	/BLn2	SBL
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	)	-	-	-	-	-

Intersection						
Int Delay, s/veh	1.4					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		7	<b>ነ</b>		, A	
Traffic Vol, veh/h	992	51	23	660	25	19
Future Vol, veh/h	992	51	23	660	25	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	225	240	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
	1044	54	24	695	26	20
		0.		0,0		
	ajor1	1	Major2	ľ	Vinor1	
Conflicting Flow All	0	0	1098	0	1787	1044
Stage 1	-	-	-	-	1044	-
Stage 2	-	-	-	-	743	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-		-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.236	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	628	-	89	278
Stage 1	_	-	-	-	339	-
Stage 2	-	_	_	-	470	_
Platoon blocked, %	_	_		_	170	
Mov Cap-1 Maneuver	_	_	628	_	86	278
Mov Cap-1 Maneuver Mov Cap-2 Maneuver	_		020	_	86	210
Stage 1	-	-	-	-	339	
	-	-	-	-	452	
Stage 2	-	-	-	-	402	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.4		51	
HCM LOS					F	
Minor Lane/Major Mvmt	1	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		123	-	-	628	-
HCM Lane V/C Ratio		0.377	-	-	0.039	-
HCM Control Delay (s)		51	-	-	11	-
HCM Lane LOS		F	-	-	В	-
HCM 95th %tile Q(veh)		1.6	-	-	0.1	-
/ 54 / 54 54 54 54 54		1.0			3.1	

	۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	/	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	¥	<b></b>	7	¥	<b>+</b>	7		4			र्स	7
Traffic Volume (veh/h)	43	924	26	24	608	14	26	0	5	28	0	47
Future Volume (veh/h)	43	924	26	24	608	14	26	0	5	28	0	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	45	973	27	25	640	15	27	0	5	29	0	49
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	510	1177	998	287	1142	968	159	7	17	216	0	136
Arrive On Green	0.06	0.64	0.64	0.04	0.62	0.62	0.09	0.00	0.09	0.09	0.00	0.09
Sat Flow, veh/h	1753	1841	1560	1753	1841	1560	964	76	193	1546	0	1585
Grp Volume(v), veh/h	45	973	27	25	640	15	32	0	0	29	0	49
Grp Sat Flow(s), veh/h/ln	1753	1841	1560	1753	1841	1560	1233	0	0	1547	0	1585
Q Serve(g_s), s	0.7	35.0	0.6	0.4	17.6	0.3	1.4	0.0	0.0	0.0	0.0	2.5
Cycle Q Clear(g_c), s	0.7	35.0	0.6	0.4	17.6	0.3	2.7	0.0	0.0	1.3	0.0	2.5
Prop In Lane	1.00	33.0	1.00	1.00	17.0	1.00	0.84	0.0	0.16	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	510	1177	998	287	1142	968	182	0	0.10	216	0	136
V/C Ratio(X)	0.09	0.83	0.03	0.09	0.56	0.02	0.18	0.00	0.00	0.13	0.00	0.36
Avail Cap(c_a), veh/h	565	1177	998	375	1142	968	191	0.00	0.00	225	0.00	146
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
	6.4	11.9	5.7	11.7	9.6	6.3	37.7	0.00	0.00	36.8	0.00	37.4
Uniform Delay (d), s/veh		6.7			2.0		0.5					
Incr Delay (d2), s/veh	0.1		0.1	0.1		0.0		0.0	0.0	0.1	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.4	18.6	0.3	0.3	10.2	0.2	1.2	0.0	0.0	1.0	0.0	1.8
Unsig. Movement Delay, s/veh		10 /	г о	11.0	11 /	/ 2	20.1	0.0	0.0	27.0	0.0	20.0
LnGrp Delay(d),s/veh	6.5	18.6	5.8	11.8	11.6	6.3	38.1	0.0	0.0	37.0	0.0	38.0
LnGrp LOS	A	В	A	В	В	A	D	A	Α	D	A	<u>D</u>
Approach Vol, veh/h		1045			680			32			78	
Approach Delay, s/veh		17.8			11.5			38.1			37.6	
Approach LOS		В			В			D			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.1	63.0		12.6	12.8	61.3		12.6				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	53.8		* 8	8.0	53.8		* 8				
Max Q Clear Time (q_c+l1), s	2.4	37.0		4.5	2.7	19.6		4.7				
Green Ext Time (p_c), s	0.0	10.9		0.0	0.0	9.2		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			16.6									
HCM 6th LOS			В									
Notes			<i>D</i>									

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection							
Int Delay, s/veh	2.2						
		NULTO	NICT	NEE	0114	ONT	
Movement	NWL	NWR	NET	NER	SWL	SWT	
Lane Configurations	ች	7	<b>↑</b>	7	ች		
Traffic Vol, veh/h	41	53	690	76	57	617	
Future Vol, veh/h	41	53	690	76	57	617	
Conflicting Peds, #/hr		0	0	0	0	0	
Sign Control	Stop	Stop	Free	Free	Free	Free	
RT Channelized	-	None	-	None	-	None	
Storage Length	0	0	-	295	390	-	
Veh in Median Storage	e, # 0	-	0	-	-	0	
Grade, %	0	-	0	-	-	0	
Peak Hour Factor	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	4	4	4	4	
Mvmt Flow	43	56	726	80	60	649	
	.0		, 20			017	
	Minor1		Major1		Major2		
Conflicting Flow All	1495	726	0	0	806	0	
Stage 1	726	-	-	-	-	-	
Stage 2	769	-	-	-	-	-	
Critical Hdwy	6.42	6.22	-	-	4.14	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-	
Critical Hdwy Stg 2	5.42	-	-	-	-	-	
Follow-up Hdwy		3.318	-	_	2.236	-	
Pot Cap-1 Maneuver	135	425	_	_	810	_	
Stage 1	479	-	_	-	-	_	
Stage 2	457	_	_	_	_	_	
Platoon blocked, %	707		_	_		_	
Mov Cap-1 Maneuver	125	425	-	-	810	_	
				-	010	-	
Mov Cap-2 Maneuver		-	-	-			
Stage 1	479	-			-	-	
Stage 2	423	-	-	-	-	-	
Approach	NW		NE		SW		Į
HCM Control Delay, s			0		0.8		
HCM LOS	D				0.0		
1.5101 2.00							
Minor Lane/Major Mvr	nt	NET	NERN	JWLn1N	IWLn2	SWL	
Capacity (veh/h)		-	-	125	425	810	ĺ
HCM Lane V/C Ratio		-	-	0.345	0.131	0.074	
HCM Control Delay (s	.)	-	-	48.3	14.7	9.8	
HCM Lane LOS		-	-	Ε	В	Α	

	-	_		-
12/	18	/2	020	0

	۶	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	- 4	<b>+</b>			<b>+</b>	7	ሻ	<b>•</b>	7		4	7
Traffic Volume (veh/h)	112	702	0	0	537	77	0	0	0	81	0	79
Future Volume (veh/h)	112	702	0	0	537	77	0	0	0	81	0	79
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach Adj Sat Flow, veh/h/ln	1841	No 1841	0	0	No 1841	1841	1870	No 1870	1870	1870	No 1870	1870
Adj Flow Rate, veh/h	118	739	0	0	565	81	0	0	0	85	0	83
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0.73	0.75	4	4	2	2	2	2	2	2
Cap, veh/h	589	1455	0	0	1174	995	2	2	1	161	0	143
Arrive On Green	0.09	0.79	0.00	0.00	0.64	0.64	0.00	0.00	0.00	0.09	0.00	0.09
Sat Flow, veh/h	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	118	739	0	0	565	81	0	0	0	85	0	83
Grp Sat Flow(s), veh/h/ln	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	2.0	15.5	0.0	0.0	17.7	2.2	0.0	0.0	0.0	5.0	0.0	5.5
Cycle Q Clear(g_c), s	2.0	15.5	0.0	0.0	17.7	2.2	0.0	0.0	0.0	5.0	0.0	5.5
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	589	1455	0	0	1174	995	2	2	1	161	0	143
V/C Ratio(X)	0.20	0.51	0.00	0.00	0.48	0.08	0.00	0.00	0.00	0.53	0.00	0.58
Avail Cap(c_a), veh/h	593	1455	0	0	1174	995	486	510	432	162	0	144
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	5.9	4.0	0.0	0.0	10.4	7.6	0.0	0.0	0.0	47.8	0.0	48.0
Incr Delay (d2), s/veh	0.1	1.3	0.0	0.0	1.4	0.2	0.0	0.0	0.0	3.1	0.0	5.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.9	6.2	0.0	0.0	10.3	1.2	0.0	0.0	0.0	4.3	0.0	4.3
Unsig. Movement Delay, s/veh LnGrp Delay(d),s/veh	6.1	5.3	0.0	0.0	11.8	7.8	0.0	0.0	0.0	50.9	0.0	53.7
LnGrp LOS	Α	3.3 A	Α	Α	11.0 B	7.6 A	0.0 A	Α	Α	50.9 D	0.0 A	55.7 D
Approach Vol, veh/h		857			646			0		<u> </u>	168	
Approach Vol, venin		5.4			11.3			0.0			52.3	
Approach LOS		Α			В			0.0			52.5 D	
											D	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		94.1		15.9	16.8	77.2		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		50.9		10.0	10.0	33.8		30.0				
Max Q Clear Time (g_c+l1), s		17.5		7.5	4.0	19.7		0.0				
Green Ext Time (p_c), s		10.5		0.1	0.1	5.4		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			12.4									
HCM 6th LOS			В									

Intersection												
Int Delay, s/veh	2.6											
										001	0.55	225
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		ሻ		7		₽	
Traffic Vol, veh/h	9	0	11	28	1	24	26	666	48	40	644	57
Future Vol, veh/h	9	0	11	28	1	24	26	666	48	40	644	57
Conflicting Peds, #/hr	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
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	240	-	300	425	-	-
Veh in Median Storag	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4
Mvmt Flow	9	0	12	29	1	25	27	701	51	42	678	60
Major/Minor	Minor2			Minor1			Major1			/lajor2		
Conflicting Flow All	1586	1598	708	1553	1577	701	738	0	0	752	0	0
Stage 1	792	792	708	755	755	701	130	U	U	132	U	-
Stage 1 Stage 2	792	806	-	798	822	•	-	-	•	-	-	•
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.14	-	-	4.14	-	-
Critical Hdwy Stg 1	6.12	5.52	0.22	6.12	5.52	0.22	4.14	-	-	4.14	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.236	-	•	2.236	-	•
Pot Cap-1 Maneuver	3.518	106	435	3.518	110	439	859	-	-	849	-	-
	382	401	433	401	417	437	009	-	-	049	-	•
Stage 1	382	395	-	380	388	-	-	-	-	-	-	-
Stage 2 Platoon blocked, %	301	373	-	300	SOO	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	76	98	435	84	101	439	859	-	-	849	-	-
· · · · · · · · · · · · · · · · · · ·		98		84		439	009	-	-			-
Mov Cap-2 Maneuver			-		101	-	-	-	-	-	-	-
Stage 1	370	381	-	389	404	-	-	-	-	-	-	-
Stage 2	347	383	-	352	369	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	35.5			50.3			0.3			0.5		
HCM LOS	Е			F								
Minor Lane/Major Mvr	nt	NBL	NBT	MRD	EBLn1V	VRI n1	SBL	SBT	SBR			
	III		וטוו					301	SDR			
Capacity (veh/h)		859	-	-		133	849	-	-			
HCM Central Delay (	`	0.032	-		0.151	0.419	0.05	-	-			
HCM Control Delay (s	)	9.3	-	-	00.0	50.3	9.5	-	-			
HCM Lane LOS	-\	A	-	-	E	F	A	-	-			
HCM 95th %tile Q(veh	1)	0.1	-	-	0.5	1.8	0.2	-	-			

	>	74	$\mathbf{x}$	4	•	*	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	*	7	ተተተ	7	ሻ	<b>^</b> ^	
Traffic Volume (veh/h)	273	353	1797	376	312	1018	
Future Volume (veh/h)	273	353	1797	376	312	1018	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	287	372	1892	0	328	1072	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	337	300	2184		361	3305	
Arrive On Green	0.19	0.19	0.43	0.00	0.15	0.66	
Sat Flow, veh/h	1753	1560	5191	1560	1753	5191	
Grp Volume(v), veh/h	287	372	1892	0	328	1072	
Grp Sat Flow(s), veh/h/ln	1753	1560	1675	1560	1753	1675	
Q Serve(g_s), s	14.2	17.3	30.7	0.0	11.2	8.4	
Cycle Q Clear(q_c), s	14.2	17.3	30.7	0.0	11.2	8.4	
Prop In Lane	1.00	1.00	30.7	1.00	1.00	0.4	
Lane Grp Cap(c), veh/h	337	300	2184	1.00	361	3305	
V/C Ratio(X)	0.85	1.24	0.87		0.91	0.32	
Avail Cap(c_a), veh/h	337	300	2184		379	3305	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh	35.1	36.3	23.1	0.00	24.4	6.7	
Incr Delay (d2), s/veh	18.1	133.4	4.9	0.0	23.9	0.7	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	11.7	26.5	17.3	0.0	13.9	4.2	
Unsig. Movement Delay, s/veh		20.5	17.3	0.0	13.7	4.2	
Unsig. Movement Delay, s/ven LnGrp Delay(d),s/veh	53.2	169.7	28.0	0.0	48.3	7.0	
LnGrp LOS	55.2 D	109.7 F	26.0 C	0.0	40.3 D	7.0 A	
•	659	Г	1892	А	D	1400	
Approach Vol, veh/h	119.0		28.0	А			
Approach LOS	119.0		28.0 C			16.6	
Approach LOS	Γ		C			В	
Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	20.1	45.9				66.0	24.0
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	14.2	38.2				59.2	17.3
Max Q Clear Time (g_c+l1), s	13.2	32.7				10.4	19.3
Green Ext Time (p_c), s	0.1	4.8				10.8	0.0
Intersection Summary							
HCM 6th Ctrl Delay			39.1				
1 10 m out out boldy			07.1				
HCM 6th LOS			D				

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	T T	<u></u>	<u>₩</u>	T T	JDL	₹ T
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	0	0	0
Veh in Median Storage	,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor N	/lajor1	<u> </u>	Major2		Minor2	
Conflicting Flow All	1	0		0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
	2.236	-	-	-		3.318
Pot Cap-1 Maneuver	1609	-	-	-	1022	1084
Stage 1	-	-	-	-	1022	-
Stage 2 Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	1609	-	-	-	1022	1084
Mov Cap-2 Maneuver	1009	-	-	-	1022	1004
Stage 1	_			-	1022	<u>-</u>
Stage 2	_	_	_	_	1022	_
Stuge 2						
A mana a a la	ED		MA		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					А	
Minor Lane/Major Mvm	t	EBL	EBT	WBT	WBR:	SBLn1 SBL
Capacity (veh/h)		1609	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	-	0
HCM Lane LOS		A	-	-	-	А
HCM 95th %tile Q(veh)		0	-	-	-	-

Intersection						
Int Delay, s/veh	1.1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>LDI</u>	LDIX.	VVDL	<u>₩</u>	NDL	NDK 7
Traffic Vol, veh/h	<b>T</b> 634	16	42	662	21	37
Future Vol, veh/h	634	16	42	662	21	37
Conflicting Peds, #/hr	034	0	0	002	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage,		-	-	0	0	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mymt Flow	667	17	44	697	22	39
IVIVIIIC I IOVV	007	17	77	071	LL	37
	ajor1		Major2		Minor1	
Conflicting Flow All	0	0	684	0	1452	667
Stage 1	-	-	-	-	667	-
Stage 2	-	-	-	-	785	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.236	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	900	-	144	459
Stage 1	-	-	-	-	510	-
Stage 2	-	-	-	-	449	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	900	-	137	459
Mov Cap-2 Maneuver	-	-	-	-	137	-
Stage 1	-	-	-	-	510	-
Stage 2	-	-	-	-	427	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		21.8	
HCM LOS	U		0.5		21.0 C	
TICIVI LOS					C	
Minor Lane/Major Mvmt		VBLn1 I	VBLn2	EBT	EBR	WBL
Capacity (veh/h)		137	459	-	-	900
HCM Lane V/C Ratio		0.161		-	-	0.049
HCM Control Delay (s)		36.3	13.6	-	-	9.2
HCM Lane LOS		Е	В	-	-	Α
HCM 95th %tile Q(veh)		0.6	0.3	-	-	0.2

Intersection													
Int Delay, s/veh	21.7												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	<b>1</b>	7	ች	<b>†</b>	7		4			र्स	7	
Traffic Vol, veh/h	165	736	66	37	532	82	44	7	33	35	0	65	
Future Vol, veh/h	165	736	66	37	532	82	44	7	33	35	0	65	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	460	-	250	345	_	400	-	-	-	-	-	0	
eh in Median Storage	,# -	0	-	-	0	-	-	0	_	-	0	-	
Grade, %	-	0	-	-	0	_	-	0	-	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
leavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2	
Nymt Flow	174	775	69	39	560	86	46	7	35	37	0	68	
Will Flow	171	770	07	07	000	00	10		00	07	U	00	
lajor/Minor N	Major1		_	Major2		1	Minor1			Minor2			
Conflicting Flow All	646	0	0	844	0	0	1838	1847	775	1817	1830	560	
Stage 1	-	-	-	-	-	-	1123	1123	-	638	638	-	
Stage 2	_	_	_	_	_	_	715	724	_	1179	1192	_	
ritical Hdwy	4.14	-		4.14	_		7.12	6.52	6.22	7.12	6.52	6.22	
ritical Hdwy Stg 1	4.14	_	_	4.14	_	_	6.12	5.52	0.22	6.12	5.52	0.22	
ritical Hdwy Stg 2		_		-	-	-	6.12	5.52	_	6.12	5.52	-	
ollow-up Hdwy	2.236	-	-	2.236	-	-	3.518	4.018	3.318	3.518	4.018	3.318	
ot Cap-1 Maneuver	930		_	784	-	_	58	75	398	60	76	528	
	930	-	-	704		-	250	281		465	471		
Stage 1	-	-	-	-	-	-	422	430	-			-	
Stage 2	-	-	-	-	-	-	422	430	-	232	261	-	
latoon blocked, %	020	-	-	704	-	-	10	Ε0.	200	41	Ε0.	F20	
lov Cap-1 Maneuver	930	-	-	784	-	-	~ 42	58	398	41	59	528	
lov Cap-2 Maneuver	-	-	-	-	-	-	~ 42	58	-	41	59	-	
Stage 1	-	-	-	-	-	-	203	228	-	378	447	-	
Stage 2	-	-	-	-	-	-	349	409	-	167	212	-	
nnraach	ED			WD			MD			CD			
Approach	EB			WB			NB			SB			
ICM Control Delay, s	1.7			0.6		\$	323.2			99.3			
ICM LOS							F			F			
Minor Lane/Major Mvm	t N	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)		67	930	-	-	784	-	-	41	528			
CM Lane V/C Ratio			0.187	-	-	0.05	-		0.899	0.13			
ICM Control Delay (s)	\$	323.2	9.8	-	-	9.8	-	-	259.8	12.8			
ICM Lane LOS		F	Α	-	-	Α	-	-	F	В			
HCM 95th %tile Q(veh)		7.3	0.7	-	-	0.2	-	-	3.5	0.4			
lotes													
: Volume exceeds cap	acity	\$: De	elay exc	eeds 3	00s	+: Com	putation	n Not D	efined	*: All	major	volume	in platoon
			<i>y</i>								J-		

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	<b>↑</b>	7	ሻ	<b>^</b>	7
Traffic Volume (veh/h)	558	193	483	93	140	93	345	324	88	133	460	566
Future Volume (veh/h)	558	193	483	93	140	93	345	324	88	133	460	566
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1870	1826	1870	1870	1870	1841	1841	1870	1870	1841	1841
Adj Flow Rate, veh/h	587	203	508	98	147	98	363	341	93	140	484	596
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	2	5	2	2	2	4	4	2	2	4	4
Cap, veh/h	590	1045	455	242	305	136	535	1459	1257	832	2580	1580
Arrive On Green	0.28	0.29	0.29	0.07	0.09	0.09	0.07	0.79	0.79	0.04	0.74	0.74
Sat Flow, veh/h	1739	3554	1547	1781	3554	1585	1753	1841	1585	1781	3497	1560
Grp Volume(v), veh/h	587	203	508	98	147	98	363	341	93	140	484	596
Grp Sat Flow(s),veh/h/ln	1739	1777	1547	1781	1777	1585	1753	1841	1585	1781	1749	1560
Q Serve(g_s), s	33.0	5.1	35.3	5.9	4.7	7.2	5.8	5.7	1.5	2.3	5.1	0.0
Cycle Q Clear(g_c), s	33.0	5.1	35.3	5.9	4.7	7.2	5.8	5.7	1.5	2.3	5.1	0.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	590	1045	455	242	305	136	535	1459	1257	832	2580	1580
V/C Ratio(X)	1.00	0.19	1.12	0.40	0.48	0.72	0.68	0.23	0.07	0.17	0.19	0.38
Avail Cap(c_a), veh/h	590	1045	455	242	305	136	583	1459	1257	858	2580	1580
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.3	31.7	42.3	45.6	52.3	53.4	3.3	3.2	2.7	3.2	4.8	0.0
Incr Delay (d2), s/veh	35.9	0.1	77.8	1.1	1.2	16.9	2.1	0.4	0.1	0.1	0.2	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	28.6	3.9	32.6	4.7	3.8	6.2	2.7	2.8	0.7	1.1	2.7	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.2	31.8	120.1	46.7	53.5	70.3	5.4	3.5	2.8	3.3	5.0	0.7
LnGrp LOS	E	С	F	D	D	<u>E</u>	A	A	A	A	A	A
Approach Vol, veh/h		1298			343			797			1220	
Approach Delay, s/veh		84.6			56.4			4.3			2.7	
Approach LOS		F			Е			Α			Α	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	16.0	96.0	14.8	42.1	9.5	102.5	39.8	17.1				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	4.5	6.8	6.8	6.8				
Max Green Setting (Gmax), s	11.6	39.2	8.0	* 35	6.7	47.4	33.0	8.0				
Max Q Clear Time (g_c+l1), s	7.8	7.1	7.9	37.3	4.3	7.7	35.0	9.2				
Green Ext Time (p_c), s	0.2	5.8	0.0	0.0	0.1	2.2	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			37.1									
HCM 6th LOS			D									

Notes

User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	0					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	<u>ች</u>		<b>^</b>	<b>*</b>	<u>້</u>	<b>^</b>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
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	160	-	400	310	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	0	0	0	0	0	0
Major/Minor	Minor1	N	Anior1	N	/laior2	
	Minor1		Major1		Major2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.24	-
Pot Cap-1 Maneuver	1021	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1021	-	-	-	-	-
Mov Cap-2 Maneuver	1021	-	_	-	_	_
Stage 1	-	_	_	_	_	_
Stage 2	1022	_	_	_	_	_
Juge 2	1022					
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	nt	NBT	NRDV	VBLn1W	/RI n2	SBL
	IC	וטוו	ואוטוו	VDLITTY	V DEIIZ	JDL
Capacity (veh/h)		-	-	-	-	-
HCM Cantral Dalay (a)		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	)	-	-	-	-	-

Intersection								
Int Delay, s/veh	17.8							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	<b>^</b>	7	ች	<b>†</b>	W			
Traffic Vol, veh/h	859	35	17	1204	66	29		
Future Vol, veh/h	859	35	17	1204	66	29		
Conflicting Peds, #/hi	r 0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	-	None		
Storage Length	-	225	240	-	0	-		
Veh in Median Storag	ge, # 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	4	4	4	4	2	2		
Mvmt Flow	904	37	18	1267	69	31		
Major/Minor	Major1	1	Major2	_	Minor1			
Conflicting Flow All	0	0	941		2207	904		
Stage 1	-	-	-	-	904	-		
Stage 2	-	-	_	-	1303	_		
Critical Hdwy	-	-	4.14	_	6.42	6.22		
Critical Hdwy Stg 1	-	-	_	-	5.42	_		
Critical Hdwy Stg 2	-	-	-	_	5.42	-		
Follow-up Hdwy	-	-	2.236	-	3.518	3.318		
Pot Cap-1 Maneuver	-	-	720	-	~ 49	335		
Stage 1	-	-	-	-	395	-		
Stage 2	-	-	-	-	254	-		
Platoon blocked, %	-	-		-				
Mov Cap-1 Maneuve	r -	-	720	-	~ 48	335		
Mov Cap-2 Maneuve		-	-	-	~ 48	-		
Stage 1	-	-	-	-	395	-		
Stage 2	-	-	-	-	248	-		
Approach	EB		WB		NB			
HCM Control Delay,			0.1	\$	411.8			
HCM LOS	-			•	F			
					•			
Minor Lane/Major Mv	ımt I	NBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		65	201	LDIN.	720	,,,,,,		
HCM Lane V/C Ratio		1.538	-	_	0.025	-		
HCM Control Delay (		3 411.8	-	_	10.1	-		
HCM Lane LOS	<i>J</i>	F	-	-	В	-		
HCM 95th %tile Q(ve	h)	8.7	_	_	0.1	_		
	,	0.1			0.1			
Notes								
~: Volume exceeds c	apacity	\$: De	elay exc	eeds 3	00s	+: Com	putation Not Defined	*: All major volume in platoor

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<u></u>	7	ሻ	<u></u>	7		ቆ			ર્ન	7
Traffic Volume (veh/h)	122	688	37	23	956	138	106	40	24	88	6	178
Future Volume (veh/h)	122	688	37	23	956	138	106	40	24	88	6	178
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	149	839	45	28	1166	168	129	49	29	107	7	217
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	158	1202	1018	342	1160	983	105	26	15	235	12	262
Arrive On Green	0.06	0.65	0.65	0.04	0.63	0.63	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1753	1841	1560	1753	1841	1560	386	157	88	1122	73	1585
Grp Volume(v), veh/h	149	839	45	28	1166	168	207	0	0	114	0	217
Grp Sat Flow(s),veh/h/ln	1753	1841	1560	1753	1841	1560	631	0	0	1195	0	1585
Q Serve(g_s), s	7.7	40.7	1.4	0.8	88.2	6.3	10.8	0.0	0.0	0.0	0.0	18.5
Cycle Q Clear(g_c), s	7.7	40.7	1.4	0.8	88.2	6.3	23.1	0.0	0.0	12.3	0.0	18.5
Prop In Lane	1.00		1.00	1.00		1.00	0.62		0.14	0.94		1.00
Lane Grp Cap(c), veh/h	158	1202	1018	342	1160	983	146	0	0	247	0	262
V/C Ratio(X)	0.94	0.70	0.04	0.08	1.01	0.17	1.42	0.00	0.00	0.46	0.00	0.83
Avail Cap(c_a), veh/h	158	1202	1018	375	1160	983	146	0	0	247	0	262
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	49.1	15.5	8.7	13.1	25.9	10.7	65.9	0.0	0.0	54.0	0.0	56.5
Incr Delay (d2), s/veh	54.8	3.4	0.1	0.1	27.8	0.4	223.7	0.0	0.0	0.5	0.0	18.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	12.1	23.1	0.9	0.5	53.9	3.9	23.5	0.0	0.0	6.8	0.0	13.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	103.9	18.9	8.8	13.2	53.7	11.1	289.6	0.0	0.0	54.5	0.0	75.1
LnGrp LOS	F	В	A	В	F	В	F	Α	Α	D	A	<u>E</u>
Approach Vol, veh/h		1033			1362			207			331	
Approach Delay, s/veh		30.7			47.6			289.6			68.0	
Approach LOS		С			D			F			Е	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.8	98.9		28.3	16.0	95.7		28.3				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	88.7		* 23	8.5	88.2		* 23				
Max Q Clear Time (g_c+l1), s	2.8	42.7		20.5	9.7	90.2		25.1				
Green Ext Time (p_c), s	0.0	15.7		0.2	0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			61.0									
HCM 6th LOS			E									

Intersection								
Int Delay, s/veh	10.5							
Movement	NWL	NWR	NET	NER	SWL	SWT		
Lane Configurations	ሻ	7	<b>1</b>	7	ች	<b>†</b>		
Traffic Vol, veh/h	96	96	795	59	35	730		
Future Vol, veh/h	96	96	795	59	35	730		
Conflicting Peds, #/hi		0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-	None		
Storage Length	0	0	-	295	390	-		
Veh in Median Storag		-	0	-	-	0		
Grade, %	0	-	0	-	-	0		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	2	2	4	4	4	4		
Mvmt Flow	101	101	837	62	37	768		
		101	- 507	- 02	- 07	, 00		
Major/Minor	Minor1		Major1		Major2			
Conflicting Flow All	1679	837	0	0	899	0		
Stage 1	837	-	-	-	-	-		
Stage 2	842	_				_		
Critical Hdwy	6.42	6.22	-	-	4.14	-		
Critical Hdwy Stg 1	5.42	0.22			4.14			
Critical Hdwy Stg 2	5.42	-			-	-		
Follow-up Hdwy	3.518		_	-	2.236			
Pot Cap-1 Maneuver		367	-	-	747	-		
Stage 1	425	30 <i>1</i>			141			
Stage 2	423	-	-	-	-	-		
Platoon blocked, %	423	-	-	-	•	-		
	r ~ 99	367	-	-	747	-		
Mov Cap-1 Maneuve			-	-				
Mov Cap-2 Maneuve		-	-	-	-	-		
Stage 1	425	-	-	-	-	-		
Stage 2	402	-	-	-	-	-		
Approach	NW		NE		SW			
HCM Control Delay, s			0		0.5			
HCM LOS	F							
Minor Lane/Major Mv	mt	NET	NERN	JWLn1N	IWLn2	SWL	SWT	
Capacity (veh/h)		-		99	367	747	-	
HCM Lane V/C Ratio		-	_		0.275		-	
HCM Control Delay (		-		175.4	18.5	10.1	-	
	-7	-	_	F	С	В	-	
HCM Lane LOS								
HCM Lane LOS HCM 95th %tile Q(ve	h)	-	_	6.3	1.1	().2	-	
HCM 95th %tile Q(ve	h)	-	-	6.3	1.1	0.2	•	
HCM Lane LOS HCM 95th %tile Q(ve Notes -: Volume exceeds c		-	-	6.3 ceeds 30			putation Not Defined	*: All major volume in platoon

	۶	<b>→</b>	•	•	•	•	4	<b>†</b>	<b>/</b>	<b>/</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>•</b>			<b>†</b>	7		<b>•</b>	7		4	7
Traffic Volume (veh/h)	61	700	0	0	776	46	0	0	0	130	0	209
Future Volume (veh/h)	61	700	0	0	776	46	0	0	0	130	0	209
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	4000
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	64	737	0	0	817	48	0	0	0	137	0	220
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	381	1380	0	0	1166	989	1	1	1	279	0	248
Arrive On Green	0.07	0.75	0.00	0.00	0.63	0.63	0.00	0.00	0.00	0.16	0.00	0.16
Sat Flow, veh/h	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	64	737	0	0	817	48	0	0	0	137	0	220
Grp Sat Flow(s),veh/h/ln	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	1.5	23.4	0.0	0.0	40.9	1.6	0.0	0.0	0.0	9.8	0.0	19.0
Cycle Q Clear(g_c), s	1.5	23.4	0.0	0.0	40.9	1.6	0.0	0.0	0.0	9.8	0.0	19.0
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	381	1380	0	0	1166	989	1	1	1	279	0	248
V/C Ratio(X)	0.17	0.53	0.00	0.00	0.70	0.05	0.00	0.00	0.00	0.49	0.00	0.89
Avail Cap(c_a), veh/h	392	1380	0	0	1166	989	382	401	340	356	0	317
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	13.3	7.3	0.0	0.0	16.9	9.7	0.0	0.0	0.0	54.0	0.0	57.8
Incr Delay (d2), s/veh	0.2	1.5	0.0	0.0	3.5	0.1	0.0	0.0	0.0	1.3	0.0	20.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.0	12.1	0.0	0.0	22.8	1.0	0.0	0.0	0.0	8.0	0.0	14.0
Unsig. Movement Delay, s/veh		0.0	0.0	0.0	20.4	0.0	0.0	0.0	0.0	EE 2	0.0	70.0
LnGrp Delay(d),s/veh	13.4	8.8	0.0	0.0	20.4	9.8	0.0	0.0	0.0	55.3	0.0	78.8
LnGrp LOS	В	A 001	A	A	C	A	A	A	A	E	A 257	<u>E</u>
Approach Vol, veh/h		801			865			0			357	
Approach Delay, s/veh		9.2			19.8			0.0			69.8	
Approach LOS		Α			В						Е	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		112.1		27.9	16.3	95.8		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		62.9		28.0	10.0	45.8		30.0				
Max Q Clear Time (g_c+l1), s		25.4		21.0	3.5	42.9		0.0				
Green Ext Time (p_c), s		10.9		0.9	0.0	2.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			24.4									
HCM 6th LOS			С									

Intersection													
Int Delay, s/veh	23.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	LDL	4	LDIN	WDL	4	WDIX	ሻ	<b>1</b>	7	<u> </u>	<b>1</b>	ODIT	
Fraffic Vol, veh/h	19	0	9	74	0	63	6	853	43	37	671	12	
future Vol, veh/h	19	0	9	74	0	63	6	853	43	37	671	12	
Conflicting Peds, #/hr	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	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	240	-	300	425	-	-	
eh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
/Ivmt Flow	20	0	9	78	0	66	6	898	45	39	706	13	
lajor/Minor	Minor2			Minor1			Major1			Major2			
Conflicting Flow All	1757	1746	713	1705	1707	898	719	0	0	943	0	0	
Stage 1	791	791	-	910	910	-	-	-	-	-	-	-	
Stage 2	966	955	-	795	797	-	-	-	-	-	-	-	
ritical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.14	-	-	4.14	-	-	
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-	
ollow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.236	-	-	2.236	-	-	
Pot Cap-1 Maneuver	66	86	432	~ 72	91	338	873	-	-	719	-	-	
Stage 1	383	401	-	329	353	-	-	-	-	-	-	-	
Stage 2	306	337	-	381	399	-	-	-	-	-	-	-	
Platoon blocked, %	Г1	01	422	/7	٥٢	220	072	-	-	710	-	-	
Mov Cap-1 Maneuver	51 51	81 81	432	~ 67 ~ 67	85 85	338	873	-	-	719	-	-	
Mov Cap-2 Maneuver Stage 1	380	379	-	327	351	-	-	-	-	-	-	-	
Stage 2	244	335	-	352	377	-	-	-	-	-	-	-	
Stage 2	244	333	-	332	311	-	-	-	-	-	-	-	
nnraach	ED			MD			ND			CD			
Approach	EB			WB 285.5			0.1			SB 0.5			
HCM Control Delay, s HCM LOS	87.8 F			285.5 F			0.1			0.5			
ICIVI LOS	Г			Г									
Minor Lane/Major Mvm	nt	NBL	NBT	NRR	EBLn1\	WBI n1	SBL	SBT	SBR				
Capacity (veh/h)		873	,,,,,		71	106	719						
ICM Lane V/C Ratio		0.007	-		0.415	1.36	0.054	-	-				
ICM Control Delay (s)		9.2		_		285.5	10.3	_	_				
ICM Lane LOS		Α.Σ	_	_	67.6	F	В	_	_				
HCM 95th %tile Q(veh	)	0	-	-	1.6	10.1	0.2	-	-				
Votes													
	n o o!1	¢ D	alou se	200d= 2	000	· · · C · · ·	nute!!	Net D	ofinl	*. 1	ma ole a	olum -	in plataar
: Volume exceeds ca	pacity	\$: D6	elay exc	ceeds 3	UUS	+: Com	putation	i not D	elinea	: All	major v	volume i	in platoon

	>	74	$\mathbf{x}$	4	•	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	*	7	<b>^</b> ^	7	ች	<b>^</b> ^	
Traffic Volume (veh/h)	557	381	1124	224	488	2155	
Future Volume (veh/h)	557	381	1124	224	488	2155	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	586	401	1183	0	514	2268	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	558	497	1450		503	2903	
Arrive On Green	0.32	0.32	0.29	0.00	0.24	0.58	
Sat Flow, veh/h	1753	1560	5191	1560	1753	5191	
Grp Volume(v), veh/h	586	401	1183	0	514	2268	
Grp Sat Flow(s), veh/h/ln	1753	1560	1675	1560	1753	1675	
2 Serve(g_s), s	41.4	30.7	28.5	0.0	30.8	45.2	
Cycle Q Clear(g_c), s	41.4	30.7	28.5	0.0	30.8	45.2	
Prop In Lane	1.00	1.00		1.00	1.00		
Lane Grp Cap(c), veh/h	558	497	1450		503	2903	
V/C Ratio(X)	1.05	0.81	0.82		1.02	0.78	
Avail Cap(c_a), veh/h	558	497	1450		503	2903	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Jniform Delay (d), s/veh	44.3	40.6	43.0	0.0	36.2	21.1	
ncr Delay (d2), s/veh	51.8	9.3	5.2	0.0	45.7	2.2	
nitial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	34.2	18.2	17.8	0.0	30.2	23.4	
Jnsig. Movement Delay, s/veh							
_nGrp Delay(d),s/veh	96.1	49.9	48.2	0.0	82.0	23.3	
nGrp LOS	F	D	D		F	С	
Approach Vol, veh/h	987		1183	Α		2782	
pproach Delay, s/veh	77.3		48.2			34.1	
pproach LOS	Е		D			С	
imer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	37.6	44.3				81.9	48.1
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	30.8	37.5				75.1	41.4
Max Q Clear Time (g_c+I1), s	32.8	30.5				47.2	43.4
Green Ext Time (p_c), s	0.0	4.4				22.1	0.0
ntersection Summary							
ICM 6th Ctrl Delay			46.1				
HCM 6th LOS			D				
Notes							

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>\</b>	<b>↑</b>		ř	<b>\</b>	<b>7</b>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	0	0	0
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor	Major1	N	//oior?		Minor	
			/lajor2		Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	-	-	3.518	
Pot Cap-1 Maneuver	1609	-	-	-	1022	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1609	-	-	-	1022	1084
Mov Cap-2 Maneuver		-	_	-	1022	-
Stage 1	_	_	-	_	1022	_
Stage 2	-	_	_	_	-	-
otago 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WRD	SBLn1 S
	III		LDI	WDI	WDIX .	JULIII J
Capacity (veh/h)		1609	-	-	-	-
HCM Cantal Data (		-	-	-	-	-
HCM Control Delay (s	)	0	-	-	-	0
HCM Lane LOS	,	Α	-	-	-	Α
HCM 95th %tile Q(veh	1)	0	-	-	-	-

Intersection						
Int Delay, s/veh	2.3					
		EDD	14/51	MOT	ND	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>↑</b>	7		<b>↑</b>		7
Traffic Vol, veh/h	876	11	36	694	34	70
Future Vol, veh/h	876	11	36	694	34	70
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	922	12	38	731	36	74
	ajor1	ľ	Major2		Minor1	
Conflicting Flow All	0	0	934	0	1729	922
Stage 1	-	-	-	-	922	-
Stage 2	-	-	-	-	807	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy		-	2.236	_	3.518	3.318
Pot Cap-1 Maneuver	_	_	725	_	97	327
Stage 1	_	_	-	_	387	-
Stage 2	_	_	_	_	439	_
Platoon blocked, %	_	_		_	737	
Mov Cap-1 Maneuver	_	_	725	_	92	327
					92	321
Mov Cap-2 Maneuver	-	-	-	-		
Stage 1	-	-	-	-	387	-
Stage 2	-	-	-	-	416	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		34.9	
HCM LOS	U		0.0		D	
HOW EOS						
Minor Lane/Major Mvmt	1	NBLn11	VBLn2	EBT	EBR	WBL
Capacity (veh/h)		92	327	-	-	725
HCM Lane V/C Ratio		0.389		-	-	0.052
HCM Control Delay (s)		67.1	19.2	-	-	10.2
HCM Lane LOS		F	С	-	-	В
HCM 95th %tile Q(veh)		1.6	0.8	-	_	0.2
1101VI 70111 701110 Q(VCII)		1.0	0.0			0.2

Intersection													
Int Delay, s/veh	52												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	<b></b>	7	ሻ	<b>↑</b>	7		4			4	1	
Traffic Vol, veh/h	44	675	27	27	882	34	36	5	53	64	0	190	
Future Vol, veh/h	44	675	27	27	882	34	36	5	53	64	0	190	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	460	-	250	345	_	400	-	-	-	-	-	0	
eh in Median Storage	,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	_	-	0	-	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
leavy Vehicles, %	4	4	4	4	4	4	2	2	2		2	2	
1vmt Flow	46	711	28	28	928	36	38	5	56	67	0	200	
Willer low	10	, , , ,	20	20	720	00	00	J	00	01		200	
Major/Minor N	Major1		N	Major2		1	Minor1			Minor2			
Conflicting Flow All	964	0	0	739	0	0	1905	1823	711	1832	1815	928	
Stage 1	704	-	U	137	-	-	803	803	711		984	920	
Stage 2	-	-	-	-	-	-	1102	1020	-		831	-	
ritical Hdwy	4.14	-	-	4.14	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
,	4.14		-	4.14	-	_	6.12	5.52	0.22		5.52	0.22	
ritical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-		5.52	-	
ritical Hdwy Stg 2		-	-	2.236		-	3.518				4.018	3.318	
ollow-up Hdwy	2.236	-	-	858	-	-	52	4.018	3.318 433	3.518	78		
ot Cap-1 Maneuver	706	-	-	838	-	-				~ 59	327	325	
Stage 1	-	-	-	-	-	-	377	396	-			-	
Stage 2	-	-	-	-	-	-	257	314	-	356	384	-	
latoon blocked, %	707	-	-	050	-	-	10	70	422	45	71	225	
lov Cap-1 Maneuver	706	-	-	858	-	-	~ 19	70	433	~ 45	71	325	
ov Cap-2 Maneuver	-	-	-	-	-	-	~ 19	70	-		71	-	
Stage 1	-	-	-	-	-	-	352	370	-		316	-	
Stage 2	-	-	-	-	-	-	96	304	-	286	359	-	
www.a.a.b	ED			MD			ND			CD			
Approach	EB			WB			NB			SB			
ICM Control Delay, s	0.6			0.3		\$	744.5			138.7			
ICM LOS							F			F			
Minor Lane/Major Mvm	t N	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR:		SBLn2			
Capacity (veh/h)		45	706	-	-	858	-	-	45	325			
CM Lane V/C Ratio		2.199	0.066	-	-	0.033	-			0.615			
ICM Control Delay (s)	\$	744.5	10.5	-	-	9.3	-	-\$	454.5	32.3			
ICM Lane LOS		F	В	-	-	Α	-	-	F	D			
HCM 95th %tile Q(veh)		10.3	0.2	-	-	0.1	-	-	6.6	3.9			
lotes													
: Volume exceeds cap	acity	\$: De	elay exc	eeds 30	00s	+: Com	putation	n Not D	efined	*: All	major	volume	in platoon
			<i>y</i> 20										

	۶	<b>→</b>	*	•	<b>←</b>	•	1	<b>†</b>	<i>&gt;</i>	<b>/</b>	Ţ	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	<b>•</b>	7	ሻ	<b>^</b>	7
Traffic Volume (veh/h)	660	364	369	231	502	376	580	570	259	241	264	541
Future Volume (veh/h)	660	364	369	231	502	376	580	570	259	241	264	541
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	695	383	388	243	528	396	611	600	273	254	278	569
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	526	915	405	367	424	189	417	653	553	221	1007	878
Arrive On Green	0.27	0.26	0.26	0.13	0.12	0.12	0.13	0.35	0.35	0.08	0.29	0.29
Sat Flow, veh/h	1739	3497	1547	1753	3497	1560	1753	1841	1560	1753	3497	1560
Grp Volume(v), veh/h	695	383	388	243	528	396	611	600	273	254	278	569
Grp Sat Flow(s),veh/h/ln	1739	1749	1547	1753	1749	1560	1753	1841	1560	1753	1749	1560
Q Serve(g_s), s	41.2	13.6	37.1	18.0	18.2	18.2	19.2	46.8	20.5	12.5	9.2	37.7
Cycle Q Clear(g_c), s	41.2	13.6	37.1	18.0	18.2	18.2	19.2	46.8	20.5	12.5	9.2	37.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	526	915	405	367	424	189	417	653	553	221	1007	878
V/C Ratio(X)	1.32	0.42	0.96	0.66	1.24	2.09	1.46	0.92	0.49	1.15	0.28	0.65
Avail Cap(c_a), veh/h	526	915	405	403	424	189	417	653	553	221	1007	878
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.4	45.9	54.6	48.2	65.9	65.9	39.6	46.3	37.9	41.9	41.3	22.6
Incr Delay (d2), s/veh	157.9	0.3	34.1	3.6	128.4	509.1	221.6	20.2	3.1	107.3	0.7	3.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	57.2	9.9	24.9	12.8	24.0	53.6	48.2	32.5	12.9	19.0	7.3	20.2
Unsig. Movement Delay, s/veh		47.0	00.7	F1 0	1040	F7F 0	2/1.2	// -	41.0	1400	40.0	2/ 2
LnGrp Delay(d),s/veh	202.3	46.2	88.7	51.8	194.3	575.0	261.2	66.5	41.0	149.2	42.0	26.3
LnGrp LOS	F	D	F	D	F	F	F	E	D	F	D	С
Approach Vol, veh/h		1466			1167			1484			1101	
Approach Delay, s/veh		131.5			293.8			142.0			58.6	
Approach LOS		F			F			ŀ			E	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	27.0	50.0	27.0	46.0	17.0	60.0	48.0	25.0				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	4.5	6.8	6.8	6.8				
Max Green Setting (Gmax), s	19.2	43.2	23.2	* 39	12.5	53.2	41.2	18.2				
Max Q Clear Time (g_c+I1), s	21.2	39.7	20.0	39.1	14.5	48.8	43.2	20.2				
Green Ext Time (p_c), s	0.0	1.4	0.2	0.0	0.0	1.9	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			155.4									
HCM 6th LOS			F									

Notes

User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	0					
		WDD	NDT	NDD	CDI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	<u> </u>		<b>_</b> ↑↑		<u>ች</u>	<b>^</b>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
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	160	-	400	310	-
Veh in Median Storage	e, # 0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	0	0	0	0	0	0
	_		-		-	
	Minor1		/lajor1		Major2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	_	-
Follow-up Hdwy	3.52	3.32	-	_	2.24	_
Pot Cap-1 Maneuver	1021	-	_	_		_
Stage 1	-	_	_	_	_	_
Stage 2	1022	_		_	_	_
Platoon blocked, %	1022		_	_		_
Mov Cap-1 Maneuver	1021	_	-	-	_	-
Mov Cap-2 Maneuver	1021	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A		U		U	
TIOM EGG	,,					
Minor Lane/Major Mvm	ıt <u> </u>	NBT	NBRV	VBLn1V	VBLn2	SBL
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	)	-	-	-	-	-

Intersection						
Int Delay, s/veh	6.2					
		ED.	MA	WE	ND	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		7	<u> ነ</u>		Y	
Traffic Vol, veh/h	1241	67	32	846	36	21
Future Vol, veh/h	1241	67	32	846	36	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	225	240	-	0	-
Veh in Median Storage,	, # 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	1306	71	34	891	38	22
	.000		- 01	J, 1	- 00	
	/lajor1		Major2		Minor1	
Conflicting Flow All	0	0	1377	0	2265	1306
Stage 1	-	-	-	-	1306	-
Stage 2	-	-	-	-	959	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	_	5.42	-
Follow-up Hdwy	_	_	2.236	_		3.318
Pot Cap-1 Maneuver	_	_	492	_	45	195
Stage 1	_	_	- 7/2	_	254	-
Stage 2				-	372	
Platoon blocked, %	_	_		_	312	_
	-	-	492		.42	105
Mov Cap-1 Maneuver	-	-		-	42	195
Mov Cap-2 Maneuver	-	-	-	-	42	-
Stage 1	-	-	-	-	254	-
Stage 2	-	-	-	-	346	-
Approach	EB		WB		NB	
	0		0.5		237	
HCM Control Delay, s HCM LOS	U		0.5		23 <i>1</i>	
HOW LUS					Г	
Minor Lane/Major Mvm	t ſ	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		59			492	_
HCM Lane V/C Ratio		1.017	_		0.068	_
HCM Control Delay (s)		237	_	_		_
HCM Lane LOS		F	_	_	12.7 B	-
HCM 95th %tile Q(veh)		4.8	-		0.2	-
HOW YOU WILL CLASS		4.ŏ	-	_	0.2	

Movement		•	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	<b>&gt;</b>	ļ	4
Traffic Volume (veh/h)	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Traffic Volume (veh/h)	Lane Configurations	¥	<b>^</b>	7	ň	<b></b>	7		4			ર્ન	7
Initial Co (Ob), weh   0   0   0   0   0   0   0   0   0		49		43	46			62		13	34		
Ped-Bike Adji(A_ptr)	Future Volume (veh/h)	49	1145	43	46	744	18	62	0	13	34	0	51
Parking Bus. Adj	Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Parking Bus, Adj	Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Mork Zone On Approach		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sale Islow, veh/hr/lin         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1840         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870         1870 <th< td=""><td></td><td></td><td>No</td><td></td><td></td><td>No</td><td></td><td></td><td>No</td><td></td><td></td><td>No</td><td></td></th<>			No			No			No			No	
Adj Flow Rate, veh/h         52         1205         45         48         783         19         65         0         14         36         0         54           Peak Hour Factor         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.00         0.00         0.00         0.00         <		1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Peak Hour Factor         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.95         0.92         0.12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12 <th< td=""><td></td><td>52</td><td>1205</td><td>45</td><td>48</td><td>783</td><td>19</td><td>65</td><td>0</td><td>14</td><td>36</td><td>0</td><td>54</td></th<>		52	1205	45	48	783	19	65	0	14	36	0	54
Percent Heavy Veh, %		0.95	0.95		0.95	0.95	0.95		0.95			0.95	0.95
Cap, veh/h         443         1202         1018         178         1198         1015         136         5         16         202         0         129           Arrive On Green         0.06         0.65         0.65         0.65         0.08         0.00         0.08         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         1585         GP Wolume(v), veh/h         52         1205         45         48         783         19         79         0         0         36         0         54           Gry Sat Flow(s), veh/h/h         13         1841         1560         1753         1841         1560         1700         0         0         1570         0         1585           O Serve(g_S), s         0.9         64.0         1.0         0.8         25.4         0.4         7.2         0.0         0.0         0.0         0.0         0.0         0.0         0.0<													
Arrive On Green         0.06         0.65         0.65         0.06         0.65         0.65         0.08         0.00         0.08         0.00         0.08           Sat Flow, veh/h         1753         1841         1560         1753         1841         1560         843         62         195         1570         0         1585           Gry Volume(v), veh/h         52         1205         45         48         783         19         79         0         0         36         0         54           Gry Sat Flow(s), veh/h/ln         1753         1841         1560         1753         1841         1560         1100         0         0         1570         0         1585         0         640         1.0         0.8         25.4         0.4         5.1         0.0         0.0         0.0         3.2         Cycle Q Clear(g_c), s         0.9         64.0         1.0         0.8         25.4         0.4         5.1         0.0         0.0         0.2         2.1         0.0         3.2         Prop In Lane         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00													
Sat Flow, veh/h         1753         1841         1560         1753         1841         1560         843         62         195         1570         0         1585           Grp Volume(v), veh/h         52         1205         45         48         783         19         79         0         0         36         0         54           GP Sat Flow(s), veh/h/h         1753         1841         1560         1753         1841         1560         1100         0         0         0         0         50         0         5         0         9         64.0         1.0         0.8         25.4         0.4         5.1         0.0         0.0         0.0         0.0         0.0         3.2           Cycle O Clear(g_c), s         0.9         64.0         1.0         0.8         25.4         0.4         7.2         0.0         0.0         2.1         0.0         3.2           Prop In Lane         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00													
Grp Volume(v), veh/h         52         1205         45         48         783         19         79         0         0         36         0         54           Grp Sat Flow(s), veh/h/ln         1753         1841         1560         1753         1841         1560         1100         0         0         1570         0         1585           O Serve(g_S), s         0.9         64.0         1.0         0.8         25.4         0.4         5.1         0.0         0.0         0.0         0.0         3.2           Cycle Q Clear(g_c), s         0.9         64.0         1.0         0.8         25.4         0.4         7.2         0.0         0.0         2.1         0.0         3.2           Prop In Lane         1.00         1.00         1.00         1.00         0.82         0.18         1.00         1.00         1.00           Lane Grp Cap(c), veh/h         448         1202         1018         118         1198         1015         157         0         0         202         0         129           V/C Ratio(X)         0.12         1.00         0.07         0.07         0.05         0.05         0.00         0.00         0.12         0.12 <td></td>													
Grp Sat Flow(s), veh/h/ln         1753         1841         1560         1753         1841         1560         1100         0         0         1570         0         1585           O Serve(g_s), s         0.9         64.0         1.0         0.8         25.4         0.4         5.1         0.0         0.0         0.0         3.2           Prop In Lane         1.00         1.00         1.00         1.00         1.00         1.00         3.2           Prop In Lane         1.00         1.00         1.00         1.00         0.82         0.18         1.00         1.00           Lane Grp Cap(c), veh/h         443         1202         1018         118         1198         1015         157         0         0         202         0         129           V/C Ratio(X)         0.12         1.00         0.04         0.27         0.65         0.02         0.50         0.00         0.0         0.0         0.4           Avail Cap(c_a), veh/h         448         1202         1018         216         1198         1015         157         0         0         202         0         129           HCM Platoon Ratio         1.00         1.00         1.00													
Q Serve(g_s), s         0.9         64.0         1.0         0.8         25.4         0.4         5.1         0.0         0.0         0.0         0.0         3.2           Cycle O Clear(g_c), s         0.9         64.0         1.0         0.8         25.4         0.4         7.2         0.0         0.0         2.1         0.0         3.2           Prop In Lane         1.00         1.00         1.00         1.00         1.00         0.02         0.18         1.00         1.00           Lane Grp Cap(c), veh/h         443         1202         1018         178         1198         1015         157         0         0         202         0         129           V/C Ratio(X)         0.12         1.00         0.04         0.27         0.65         0.02         0.50         0.00         0.018         0.00         0.42           V/C Ratio(X)         0.12         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													
Cycle Q Clear(g_c), s         0.9         64.0         1.0         0.8         25.4         0.4         7.2         0.0         0.0         2.1         0.0         3.2           Prop In Lane         1.00         1.00         1.00         1.00         0.82         0.18         1.00         1.00           Lane Grp Cap(c), veh/h         443         1202         1018         178         1198         1015         157         0         0         202         0         129           V/C Ratio(X)         0.12         1.00         0.04         0.27         0.65         0.02         0.50         0.00         0.00         0.42           Avail Cap(c_a), veh/h         478         1202         1018         216         1198         1015         157         0         0         202         0         129           HCM Platonn Ratio         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00													
Prop In Lane	, o _ ,												
Lane Grp Cap(c), veh/h			04.0			20.4			0.0			0.0	
V/C Ratio(X)         0.12         1.00         0.04         0.27         0.65         0.02         0.50         0.00         0.18         0.00         0.42           Avail Cap(c_a), veh/h         478         1202         1018         216         1198         1015         157         0         0         202         0         129           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         0.00         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.			1202			1198			Ω			0	
Avail Cap(c_a), veh/h													
HCM Platoon Ratio													
Upstream Filter(I)         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         0.00         0.00         0.00         1.00         0.00         1.00           Uniform Delay (d), s/veh         7.7         17.0         6.1         25.0         10.4         6.1         45.3         0.0         0.0         42.3         0.0         42.8           Incr Delay (d2), s/veh         0.1         26.6         0.1         0.6         2.8         0.0         2.6         0.0         0.0         0.2         0.0         0.8           Initial O Delay(d3), s/veh         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         <													
Uniform Delay (d), s/veh 7.7 17.0 6.1 25.0 10.4 6.1 45.3 0.0 0.0 42.3 0.0 42.8 Incr Delay (d2), s/veh 0.1 26.6 0.1 0.6 2.8 0.0 2.6 0.0 0.0 0.0 0.2 0.0 0.8 Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.													
Incr Delay (d2), s/veh													
Initial Q Delay(d3),s/veh													
%ile BackOfQ(95%),veh/ln       0.4       38.3       0.5       1.3       14.0       0.2       3.6       0.0       0.0       1.5       0.0       2.3         Unsig. Movement Delay, s/veh       7.8       43.6       6.2       25.6       13.2       6.1       47.9       0.0       0.0       42.5       0.0       43.6         LnGrp LOS       A       F       A       C       B       A       D       A       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       D       A       A       D       A       A       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D       D													
Unsig. Movement Delay, s/veh  LnGrp Delay(d),s/veh  7.8  43.6  6.2  25.6  13.2  6.1  47.9  0.0  0.0  42.5  0.0  43.6  LnGrp LOS  A  F  A  C  B  A  D  A  D  A  D  A  A  D  A  D  A  A													
LnGrp Delay(d),s/veh         7.8         43.6         6.2         25.6         13.2         6.1         47.9         0.0         0.0         42.5         0.0         43.6           LnGrp LOS         A         F         A         C         B         A         D         A         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         A         D         A         A         D         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A			30.3	0.5	1.0	14.0	0.2	3.0	0.0	0.0	1.0	0.0	2.5
LnGrp LOS         A         F         A         C         B         A         D         A         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         D         A         A         B         D         D         D         D         D         D         D         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A         A			13.6	6.2	25.6	12.2	6.1	<i>1</i> 7 0	0.0	0.0	12.5	0.0	13.6
Approach Vol, veh/h       1302       850       79       90         Approach Delay, s/veh       40.9       13.7       47.9       43.2         Approach LOS       D       B       D       D         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s       13.3       71.5       13.2       13.6       71.3       13.2         Change Period (Y+Rc), s       7.5       7.5       *5.2       7.5       7.5       *5.2         Max Green Setting (Gmax), s       8.0       63.8       *8       8.0       63.8       *8         Max Q Clear Time (g_c+I1), s       2.8       66.0       5.2       2.9       27.4       9.2         Green Ext Time (p_c), s       0.0       0.0       0.0       12.7       0.0         Intersection Summary         HCM 6th Ctrl Delay       31.3         HCM 6th LOS       C													
Approach Delay, s/veh       40.9       13.7       47.9       43.2         Approach LOS       D       B       D       D         Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s       13.3       71.5       13.2       13.6       71.3       13.2         Change Period (Y+Rc), s       7.5       7.5       *5.2       7.5       *5.2         Max Green Setting (Gmax), s       8.0       63.8       *8       *8         Max Q Clear Time (g_c+l1), s       2.8       66.0       5.2       2.9       27.4       9.2         Green Ext Time (p_c), s       0.0       0.0       0.0       12.7       0.0         Intersection Summary         HCM 6th LOS       C								<u> </u>			<u> </u>		
Approach LOS D B D D  Timer - Assigned Phs 1 2 4 5 6 8  Phs Duration (G+Y+Rc), s 13.3 71.5 13.2 13.6 71.3 13.2  Change Period (Y+Rc), s 7.5 7.5 *5.2 7.5 7.5 *5.2  Max Green Setting (Gmax), s 8.0 63.8 *8 8.0 63.8 *8  Max Q Clear Time (g_c+l1), s 2.8 66.0 5.2 2.9 27.4 9.2  Green Ext Time (p_c), s 0.0 0.0 0.0 12.7 0.0  Intersection Summary  HCM 6th Ctrl Delay 31.3  HCM 6th LOS C													
Timer - Assigned Phs       1       2       4       5       6       8         Phs Duration (G+Y+Rc), s       13.3       71.5       13.2       13.6       71.3       13.2         Change Period (Y+Rc), s       7.5       7.5       *5.2       7.5       *5.2         Max Green Setting (Gmax), s       8.0       63.8       *8       *8         Max Q Clear Time (g_c+I1), s       2.8       66.0       5.2       2.9       27.4       9.2         Green Ext Time (p_c), s       0.0       0.0       0.0       12.7       0.0         Intersection Summary         HCM 6th Ctrl Delay       31.3         HCM 6th LOS       C													
Phs Duration (G+Y+Rc), s 13.3 71.5 13.2 13.6 71.3 13.2  Change Period (Y+Rc), s 7.5 7.5 *5.2 7.5 7.5 *5.2  Max Green Setting (Gmax), s 8.0 63.8 *8 8.0 63.8 *8  Max Q Clear Time (g_c+l1), s 2.8 66.0 5.2 2.9 27.4 9.2  Green Ext Time (p_c), s 0.0 0.0 0.0 12.7 0.0  Intersection Summary  HCM 6th Ctrl Delay 31.3  HCM 6th LOS C	Approach LOS		D			D			D			D	
Change Period (Y+Rc), s       7.5       7.5       * 5.2       7.5       * 5.2         Max Green Setting (Gmax), s       8.0       63.8       * 8       8.0       63.8       * 8         Max Q Clear Time (g_c+I1), s       2.8       66.0       5.2       2.9       27.4       9.2         Green Ext Time (p_c), s       0.0       0.0       0.0       12.7       0.0         Intersection Summary         HCM 6th Ctrl Delay       31.3         HCM 6th LOS       C	Timer - Assigned Phs	1	2		4	5	6		8				
Change Period (Y+Rc), s       7.5       7.5       * 5.2       7.5       * 5.2         Max Green Setting (Gmax), s       8.0       63.8       * 8       8.0       63.8       * 8         Max Q Clear Time (g_c+I1), s       2.8       66.0       5.2       2.9       27.4       9.2         Green Ext Time (p_c), s       0.0       0.0       0.0       12.7       0.0         Intersection Summary         HCM 6th Ctrl Delay       31.3         HCM 6th LOS       C	Phs Duration (G+Y+Rc), s	13.3	71.5		13.2	13.6	71.3		13.2				
Max Green Setting (Gmax), s       8.0       63.8       * 8       8.0       63.8       * 8         Max Q Clear Time (g_c+l1), s       2.8       66.0       5.2       2.9       27.4       9.2         Green Ext Time (p_c), s       0.0       0.0       0.0       12.7       0.0         Intersection Summary         HCM 6th Ctrl Delay       31.3         HCM 6th LOS       C													
Max Q Clear Time (g_c+I1), s       2.8       66.0       5.2       2.9       27.4       9.2         Green Ext Time (p_c), s       0.0       0.0       0.0       12.7       0.0         Intersection Summary         HCM 6th Ctrl Delay       31.3         HCM 6th LOS       C		8.0			* 8	8.0			* 8				
Green Ext Time (p_c), s         0.0         0.0         0.0         12.7         0.0           Intersection Summary         HCM 6th Ctrl Delay         31.3           HCM 6th LOS         C													
HCM 6th Ctrl Delay 31.3 HCM 6th LOS C													
HCM 6th Ctrl Delay 31.3 HCM 6th LOS C	Intersection Summary												
HCM 6th LOS C				31 3									
	,												
				U									

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	3.9					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	INVVL	TOVE	INE I	INER	3VVL	<u>3₩1</u>
Traffic Vol, veh/h		<b>5</b> 7	<b>T</b> 896	<b>1</b> 77	63	<b>7</b> 56
Future Vol, veh/h	45 45	57	896	77	63	756
		0	090	0	03	750
Conflicting Peds, #/hr				Free	Free	Free
Sign Control RT Channelized	Stop	Stop	Free	None		
	-	None	-		200	None
Storage Length	0	0	-	295	390	-
Veh in Median Storag		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	47	60	943	81	66	796
Major/Minor	Minor1	N	/lajor1		Major2	
Conflicting Flow All	1871	943	0	0	1024	0
Stage 1	943	743	-	U	1024	-
Stage 2	928	-	-		-	_
Critical Hdwy	6.42	6.22	-		4.14	
			-	-		-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.236	-
Pot Cap-1 Maneuver	79	318	-	-	670	-
Stage 1	379	-	-	-	-	-
Stage 2	385	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver		318	-	-	670	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	379	-	-	-	-	-
Stage 2	347	-	-	-	-	-
Approach	NW		NE		SW	
HCM Control Delay, s			0		0.8	
HCM LOS	F				0.0	
	,					
Minor Lanc/Major My	mt	NET	NEDN	I\A/I n1N	I\\\/I p2	C/V/I
Minor Lane/Major Mvr	III	NET	NEKN	<u> </u>		SWL
Capacity (veh/h)		-	-	71	318	670
HCM Lane V/C Ratio	,	-		0.667		
HCM Control Delay (s	5)	-	-	125.1	18.9	11
HCM Lane LOS		-	-	F	С	В
HCM 95th %tile Q(veh	1)	-	-	3	0.7	0.3

	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<b>+</b>			<b>•</b>	7	ሻ	<b>•</b>	7		4	7
Traffic Volume (veh/h)	116	910	0	0	681	88	0	0	0	85	0	83
Future Volume (veh/h)	116	910	0	0	681	88	0	0	0	85	0	83
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1011	No	0	0	No	4044	4070	No	4070	4070	No	4070
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	122	958	0	0	717	93	0	0	0	89	0	87
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	504	1487	0.00	0	1227	1040	0.00	0.00	1	148	0	132 0.08
Arrive On Green	0.08 1753	0.81	0.00	0.00	0.67 1841	0.67 1560		1870	0.00 1585	0.08 1781	0.00	1585
Sat Flow, veh/h		1841		0			1781					
Grp Volume(v), veh/h	122	958	0	0	717	93	1701	0	1505	89	0	87
Grp Sat Flow(s), veh/h/ln	1753	1841	0	0	1841	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	2.1	25.0 25.0	0.0	0.0	25.5	2.5 2.5	0.0	0.0	0.0	5.8 5.8	0.0	6.4 6.4
Cycle Q Clear(g_c), s Prop In Lane	1.00	25.0	0.00	0.00	25.5	1.00	1.00	0.0	1.00	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	504	1487	0.00	0.00	1227	1040	1.00	2	1.00	1.00	0	1.00
V/C Ratio(X)	0.24	0.64	0.00	0.00	0.58	0.09	0.00	0.00	0.00	0.60	0.00	0.66
Avail Cap(c_a), veh/h	507	1487	0.00	0.00	1227	1040	445	468	396	148	0.00	132
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.4	4.6	0.0	0.0	10.9	7.1	0.0	0.0	0.0	53.1	0.00	53.4
Incr Delay (d2), s/veh	0.2	2.2	0.0	0.0	2.0	0.2	0.0	0.0	0.0	6.6	0.0	11.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.0	9.6	0.0	0.0	14.0	1.4	0.0	0.0	0.0	5.2	0.0	5.3
Unsig. Movement Delay, s/veh		7.0	0.0	0.0			0.0	0.0	0.0	0.2	0.0	0.0
LnGrp Delay(d),s/veh	7.6	6.8	0.0	0.0	13.0	7.3	0.0	0.0	0.0	59.7	0.0	64.9
LnGrp LOS	A	А	Α	Α	В	A	Α	Α	Α	Е	Α	Е
Approach Vol, veh/h		1080			810			0			176	
Approach Delay, s/veh		6.9			12.3			0.0			62.2	
Approach LOS		А			В						Е	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		104.0		16.0	16.9	87.1		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		60.9		10.0	10.0	43.8		30.0				
Max Q Clear Time (g_c+I1), s		27.0		8.4	4.1	27.5		0.0				
Green Ext Time (p_c), s		15.9		0.1	0.1	7.6		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			13.7									
HCM 6th LOS			В									

ntersection													
nt Delay, s/veh	13.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations		4			4		ሻ	<b>↑</b>	7	ች	ĵ.		
Traffic Vol, veh/h	14	0	14	43	0	37	32	850	74	63	776	61	
uture Vol, veh/h	14	0	14	43	0	37	32	850	74	63	776	61	
onflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
ign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
T Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
torage Length	-	-	-	-	-	-	240	-	300	425	-	-	
eh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-	
rade, %	-	0	-	-	0	-	-	0	-	-	0	-	
eak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
eavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
vmt Flow	15	0	15	45	0	39	34	895	78	66	817	64	
ajor/Minor M	linor2			Minor1		1	Major1		N	/lajor2			
	2003	2022	849	1952	1976	895	881	0	0	973	0	0	
Stage 1	981	981	-	963	963	-	-	-	-	-	-	-	
	1022	1041	_	989	1013	_	_	_	_	_	_	_	
ritical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.14	_	_	4.14	_	_	
itical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	_	_	-	_	_	
itical Hdwy Stg 2	6.12	5.52	_	6.12	5.52	_	_	_	_	_	_	_	
	3.518	4.018	3.318	3.518	4.018	3.318	2.236	_	_	2.236	_	_	
ot Cap-1 Maneuver	44	58	361	48	62	339	759	_	_	701	_	_	
Stage 1	300	328	-	307	334	-	-	_	-	-	_	_	
Stage 2	285	307	_	297	316	_	_	_	_	_	_	_	
latoon blocked, %	200	007		_,,	010			_	_		_	_	
lov Cap-1 Maneuver	35	50	361	~ 41	54	339	759	_	_	701	_	_	
ov Cap-2 Maneuver	35	50	-	~ 41	54	-	-	_	_	-	_	_	
Stage 1	287	297	-	293	319	_	_		_	_	_	_	
Stage 2	241	293	_	258	286	_	_	_	_	_	_	_	
Olugo 2	211	270		200	200								
pproach	EB			WB			NB			SB			
CM Control Delay, s				283.2			0.3			0.7			
CM LOS	F			F			0.0			3.7			
10W 200	•			•									
/linor Lane/Major Mvmt		NBL	NBT	NBR	EBLn1V	VBI n1	SBL	SBT	SBR				
Capacity (veh/h)		759			64	69	701						
ICM Lane V/C Ratio		0.044			0.461		0.095						
CM Control Delay (s)		10			102.3		10.7	_	-				
CM Lane LOS		A	-		F	203.2 F	В		-				
CM 95th %tile Q(veh)		0.1	-	-	1.8	6.7	0.3	-	-				
· ,		U. I			1.0	0.7	0.5						
otes				ceeds 3	00		putation	A1	<b>a</b> .	4			
: Volume exceeds capa									- C'I	* A II			in platoon

	>	-	$\mathbf{x}$	4	*	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	*	7	<b>^</b> ^	7	*	<b>^</b> ^	
Traffic Volume (veh/h)	341	480	2103	483	381	1239	
Future Volume (veh/h)	341	480	2103	483	381	1239	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00	U	1.00	1.00	· ·	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No	1.00	No	1.00	1.00	No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	359	505	2214	0	401	1304	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	363	323	2250	7	389	3463	
Arrive On Green	0.21	0.21	0.45	0.00	0.19	0.69	
Sat Flow, veh/h	1753	1560	5191	1560	1753	5191	
Grp Volume(v), veh/h	359	505	2214	15/0	401	1304	
Grp Sat Flow(s),veh/h/ln	1753	1560	1675	1560	1753	1675	
Q Serve(g_s), s	26.6	26.9	56.5	0.0	24.6	14.2	
Cycle Q Clear(g_c), s	26.6	26.9	56.5	0.0	24.6	14.2	
Prop In Lane	1.00	1.00	0050	1.00	1.00	0.470	
Lane Grp Cap(c), veh/h	363	323	2250		389	3463	
V/C Ratio(X)	0.99	1.56	0.98		1.03	0.38	
Avail Cap(c_a), veh/h	363	323	2250		389	3463	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh	51.4	51.6	35.4	0.0	44.2	8.5	
Incr Delay (d2), s/veh	44.3	268.6	15.6	0.0	53.5	0.3	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	22.1	53.0	33.0	0.0	24.7	8.1	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	95.7	320.2	51.0	0.0	97.7	8.8	
LnGrp LOS	F	F	D		F	А	
Approach Vol, veh/h	864		2214	Α		1705	
Approach Delay, s/veh	226.9		51.0			29.7	
Approach LOS	F		D			С	
Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	31.4	65.0				96.4	33.6
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	24.6	58.2				89.6	26.9
Max Q Clear Time (g_c+l1), s	26.6	58.5				16.2	28.9
Green Ext Time (p_c), s	0.0	0.0				15.4	0.0
4 – 7	0.0	0.0				13.4	0.0
ntersection Summary			75.0				
HCM 6th Ctrl Delay			75.2				
HCM 6th LOS			E				
Notes							

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

Intersection						
Int Delay, s/veh	0					
		EDT	MDT	WDD	CDI	CDD
Movement Lane Configurations	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>\</b>	<b>↑</b>	<b>↑</b>	7	<u>ነ</u>	7
Traffic Vol, veh/h Future Vol, veh/h	0		0	0	0	0
		0		0	0	0
Conflicting Peds, #/hr	0	0	0		0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	- 4/ F	None	-	None	-	None
Storage Length	465	-	-	0	0	0
Veh in Median Storage		0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor	Major1	Λ	Major2	- 1	Minor2	
Conflicting Flow All	1 1	0	viajui z	0	1	1
		U	-		1	
Stage 1	-	-	-	-		-
Stage 2	111	-	-	-	0	- / 22
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	-	-	3.518	
Pot Cap-1 Maneuver	1609	-	-	-	1022	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1609	-	-	-	1022	1084
Mov Cap-2 Maneuver	-	-	-	-	1022	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Annroach	ED		MD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WRR	SBLn1 S
Capacity (veh/h)		1609	LDI	1101	VV DIC.	ODLIII O
			-	-		-
HCM Control Dolay (c	١	-	-	-	-	-
HCM Control Delay (s	)	0	-	-	-	0
HCM Lane LOS		A	-	-	-	A
HCM 95th %tile Q(veh	1)	0	-	-	-	-

Intersection						
Int Delay, s/veh	1.8					
		EDD	14/51	MOT	ND	NDD
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		7			- 7	7
Traffic Vol, veh/h	822	23	46	828	27	45
Future Vol, veh/h	822	23	46	828	27	45
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	865	24	48	872	28	47
	lajor1	N	Major2		Minor1	
Conflicting Flow All	0	0	889	0	1833	865
Stage 1	-	-	-	-	865	-
Stage 2	-	-	-	-	968	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	_	2.236	_	3.518	3.318
Pot Cap-1 Maneuver	_	_	754	_	84	353
Stage 1	_	_	-	_	412	-
Stage 2	_	_		_	368	_
Platoon blocked, %	_	_		_	300	
Mov Cap-1 Maneuver	_	_	754	_	79	353
		-	754	-	79	- 333
Mov Cap-2 Maneuver	-	-	-			
Stage 1	-	-	-	-	412	-
Stage 2	-	-	-	-	344	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		38.3	
HCM LOS			0.0		E	
TIOW EOO						
Minor Lane/Major Mvmt	1	NBLn1 N	VBLn2	EBT	EBR	WBL
Capacity (veh/h)		79	353	-	_	754
HCM Lane V/C Ratio			0.134	-	_	0.064
HCM Control Delay (s)		74.2	16.8	-	-	10.1
HCM Lane LOS		F	С	-	-	В
HCM 95th %tile Q(veh)		1.4	0.5	-	_	0.2
HOW 75th 70the Q(VEH)		1.4	0.5			0.2

Intersection													
Int Delay, s/veh	74.2												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ሻ	<u></u>	7	ሻ	<b>†</b>	7		4			ની	7	
Traffic Vol, veh/h	168	938	85	51	669	88	50	7	44	39	0	67	
Future Vol, veh/h	168	938	85	51	669	88	50	7	44	39	0	67	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	_	None	_	-	None	-	_	None	
Storage Length	460	_	250	345	_	400	_	_	_	_	_	0	
/eh in Median Storage,		0	-	-	0	-	_	0	_	_	0	-	
Grade, %		0	_	_	0	_	_	0	_	_	0	_	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
leavy Vehicles, %	4	4	4	4	4	4	2	2	2		2	2	
Nymt Flow	177	987	89	54	704	93	53	7	46	41	0	71	
NVIIIL I IOW	177	707	07	34	704	73	55	I	40	41	U	71	
lajor/Minor M	lajor1		N	Major2			Minor1			Minor2			
Conflicting Flow All	797	0	0	1076	0	0	2235	2246	987	2224	2242	704	
Stage 1	191		U	1070			1341	1341	707		812	704	
0	-	-	-	-	-	-	894	905		1412	1430	-	
Stage 2	111		-	111		-			- 4 22				
ritical Hdwy	4.14	-	-	4.14	-	-	7.12	6.52	6.22	7.12	6.52	6.22	
ritical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	0.12	5.52	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	0.12	5.52	-	
	2.236	-	-	2.236	-	-	3.518	4.018	3.318		4.018	3.318	
ot Cap-1 Maneuver	816	-	-	640	-	-	~ 30	42	300	~ 31	42	437	
Stage 1	-	-	-	-	-	-	188	221	-	0.0	392	-	
Stage 2	-	-	-	-	-	-	336	355	-	171	200	-	
latoon blocked, %		-	-		-	-							
Nov Cap-1 Maneuver	816	-	-	640	-	-	~ 20	30	300	~ 17	30	437	
Nov Cap-2 Maneuver	-	-	-	-	-	-	~ 20	30	-	• • •	30	-	
Stage 1	-	-	-	-	-	-	147	173	-		359	-	
Stage 2	-	-	-	-	-	-	258	325	-	108	157	-	
pproach	EB			WB			NB			SB			
HCM Control Delay, s	1.5			0.7		\$ 1	1158.6			\$ 418			
HCM LOS							F			F			
/linor Lane/Major Mvmt		NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1	SBLn2			
Capacity (veh/h)		35	816	-	-	640	-	-	17	437			
ICM Lane V/C Ratio				_	-	0.084	-	_		0.161			
ICM Control Delay (s)	\$ 1	1158.6	10.6	-	-	11.1	-		1110.8	14.8			
ICM Lane LOS	Ψ	F	В	_	_	В	_	Ψ -	F	В			
ICM 95th %tile Q(veh)		12.2	0.8	_	_	0.3	-	-	5.7	0.6			
<u> </u>		12.2	3.0			5.0			0.7	0.0			
otes	-,	φ		1.0	20			N	C .				
: Volume exceeds capa	acity	\$: De	elay exc	eeds 30	JUS	+: Com	putatior	n Not D	etined	*: Al	major	volume	in platoon

	۶	<b>→</b>	•	•	<b>←</b>	1	1	<b>†</b>	/	<b>/</b>	<b>†</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	<b>•</b>	7	ሻ	<b>^</b>	7
Traffic Volume (veh/h)	584	516	544	249	373	247	381	335	234	354	474	627
Future Volume (veh/h)	584	516	544	249	373	247	381	335	234	354	474	627
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1870	1826	1870	1870	1870	1841	1841	1870	1870	1841	1841
Adj Flow Rate, veh/h	615	543	573	262	393	260	401	353	246	373	499	660
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	2	5	2	2	2	4	4	2	2	4	4
Cap, veh/h	583	1038	452	348	441	197	473	1046	900	625	1885	1311
Arrive On Green	0.30	0.29	0.29	0.13	0.12	0.12	0.12	0.57	0.57	0.11	0.54	0.54
Sat Flow, veh/h	1739	3554	1547	1781	3554	1585	1753	1841	1585	1781	3497	1560
Grp Volume(v), veh/h	615	543	573	262	393	260	401	353	246	373	499	660
Grp Sat Flow(s),veh/h/ln	1739	1777	1547	1781	1777	1585	1753	1841	1585	1781	1749	1560
Q Serve(g_s), s	45.2	19.2	43.8	19.2	16.3	18.6	15.3	15.4	11.9	14.0	11.5	17.6
Cycle Q Clear(g_c), s	45.2	19.2	43.8	19.2	16.3	18.6	15.3	15.4	11.9	14.0	11.5	17.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	583	1038	452	348	441	197	473	1046	900	625	1885	1311
V/C Ratio(X)	1.05	0.52	1.27	0.75	0.89	1.32	0.85	0.34	0.27	0.60	0.26	0.50
Avail Cap(c_a), veh/h	583	1038	452	348	441	197	500	1046	900	671	1885	1311
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.5	44.4	53.1	48.5	64.7	65.7	14.3	17.3	16.6	12.5	18.6	3.3
Incr Delay (d2), s/veh	52.3	0.5	137.2	8.9	19.9	176.2	11.5	0.9	0.7	1.3	0.3	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	37.0	13.1	49.6	14.3	13.3	26.5	11.5	10.8	7.8	9.3	8.2	7.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	93.8	44.9	190.3	57.4	84.6	241.9	25.8	18.2	17.3	13.7	18.9	4.7
LnGrp LOS	F	D	F	E	F	F	С	В	В	В	В	A
Approach Vol, veh/h		1731			915			1000			1532	
Approach Delay, s/veh		110.4			121.5			21.0			11.5	
Approach LOS		F			F			С			В	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	25.3	87.7	26.8	50.6	20.9	92.0	52.0	25.4				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	4.5	6.8	6.8	6.8				
Max Green Setting (Gmax), s	19.8	40.5	20.0	* 44	20.3	43.3	45.2	16.3				
Max Q Clear Time (g_c+I1), s	17.3	19.6	21.2	45.8	16.0	17.4	47.2	20.6				
Green Ext Time (p_c), s	0.2	5.8	0.0	0.0	0.5	2.8	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			65.9									
HCM 6th LOS			Е									

Notes

User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	NDL	VVDIX	<b>↑</b> ↑	NDK *	JDL Š	<b>↑</b> ↑
Traffic Vol, veh/h	0	0	<b>TT</b>	0	0	<b>TT</b>
Future Vol, veh/h	0	0	0	0	0	0
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	160	_	400	310	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	0	0	0	0	0	0
IVIVIIIL I IUW	U	U	U	U	U	U
Major/Minor 1	Minor1	N	/lajor1	Λ	/lajor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.24	-
Pot Cap-1 Maneuver	1021	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1021	-	-	-	-	-
Mov Cap-2 Maneuver	1021	-	-	-	-	-
Stage 1	_	-	_	-	_	-
Stage 2	1022	_	_	-	_	-
5 12 gt _						
	MD		ND		CD.	
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1W	/BLn2	SBL
Capacity (veh/h)				_	_	
HCM Lane V/C Ratio		_	_	_	_	_
HCM Control Delay (s)		_	_	0	0	0
HCM Lane LOS		_	_	A	A	A
HCM 95th %tile Q(veh)		_	_		-	
How but tout a (ven)		_		_		_

Int Delay, s/veh  Movement  Lane Configurations  Traffic Vol, veh/h  Future Vol, veh/h  Conflicting Peds, #/hr  Sign Control  RT Channelized  Storage Length	67.4 EBT 1031 1031 0 Free	EBR 50 50 0	WBL 22 22	WBT  ↑ 1443	NBL	NBR		
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized	1031 1031 0 Free	<b>5</b> 0	<b>\</b> 22	<b>†</b>		NBR		
Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized	1031 1031 0 Free	50 50	22	<b>†</b>				
Future Vol, veh/h Conflicting Peds, #/hr Sign Control RT Channelized	1031 0 Free	50			- W			
Conflicting Peds, #/hr Sign Control RT Channelized	r 0 Free		22	1443	83	36		
Sign Control RT Channelized	Free	0	22	1443	83	36		
Sign Control RT Channelized	Free		0	0	0	0		
RT Channelized	_	Free	Free	Free	Stop	Stop		
Storage Length		None	-	None	-	None		
	-	225	240	-	0	-		
Veh in Median Storag	ge, # 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	4	4	4	4	2	2		
Mvmt Flow	1085	53	23	1519	87	38		
Major/Minor	Major1	ı	Major2	N	/linor1			
Conflicting Flow All	0			0	2650	1085		
Stage 1	-	-	-	-	1085	-		
Stage 2	-	_	-	_	1565	-		
Critical Hdwy	-	-	4.14	-	6.42	6.22		
Critical Hdwy Stg 1	-	-	-	-	5.42	-		
Critical Hdwy Stg 2	-	-	-	-	5.42	-		
Follow-up Hdwy	-	-	2.236	-	3.518	3.318		
Pot Cap-1 Maneuver	-	-	607	-	~ 25	263		
Stage 1	-	-	-	-	324	-		
Stage 2	-	-	-	-	189	-		
Platoon blocked, %	-	-		-				
Mov Cap-1 Maneuve	r -	-	607	-	~ 24	263		
Mov Cap-2 Maneuve		-	-	-	~ 24	-		
Stage 1	-	-	-	-	324	-		
Stage 2	-	-	-	-	182	-		
Approach	EB		WB		NB			
HCM Control Delay, s			0.2	\$ 1	1506.1			
HCM LOS	J 0		0.2	Ψ	F			
TOWI LOS					ı			
Minor Lanc/Major Ma	ımt N	\IDI n1	EDT	EDD	WDI	WDT		
Minor Lane/Major Mv	mu f	VBLn1	EBT	EBR	WBL	WBT		
Capacity (veh/h)		33	-	-	607	-		
HCM Cantrol Dalay (		3.796	-		0.038	-		
HCM Control Delay (s	S) \$1	1506.1	-	-	11.2	-		
HCM Lane LOS	<b>b</b> \	F	-	-	В	-		
HCM 95th %tile Q(ve	n)	14.7	-	-	0.1	-		
Notes								
-: Volume exceeds c	apacity	\$: De	elay exc	eeds 3	00s	+: Com	putation Not Defined	*: All major volume in plato

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	/	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>†</b>	7	ሻ	<b>†</b>	7		4			4	7
Traffic Volume (veh/h)	129	835	44	25	1187	151	151	40	28	90	10	183
Future Volume (veh/h)	129	835	44	25	1187	151	151	40	28	90	10	183
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	157	1018	54	30	1448	184	184	49	34	110	12	223
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	141	1194	1012	225	1166	988	125	23	16	260	23	283
Arrive On Green	0.05	0.65	0.65	0.04	0.63	0.63	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	1753	1841	1560	1753	1841	1560	473	126	87	1199	131	1585
Grp Volume(v), veh/h	157	1018	54	30	1448	184	267	0	0	122	0	223
Grp Sat Flow(s), veh/h/ln	1753	1841	1560	1753	1841	1560	687	0	0	1330	0	1585
Q Serve(g_s), s	8.0	65.2	1.9	0.9	95.0	7.4	14.4	0.0	0.0	0.0	0.0	20.2
Cycle Q Clear(g_c), s	8.0	65.2	1.9	0.9	95.0	7.4	26.8	0.0	0.0	12.4	0.0	20.2
Prop In Lane	1.00		1.00	1.00		1.00	0.69		0.13	0.90		1.00
Lane Grp Cap(c), veh/h	141	1194	1012	225	1166	988	163	0	0	283	0	283
V/C Ratio(X)	1.11	0.85	0.05	0.13	1.24	0.19	1.64	0.00	0.00	0.43	0.00	0.79
Avail Cap(c_a), veh/h	141	1194	1012	252	1166	988	163	0	0	283	0	283
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	53.7	20.7	9.6	22.3	27.5	11.4	69.6	0.0	0.0	55.7	0.0	58.9
Incr Delay (d2), s/veh	108.1	7.8	0.1	0.2	116.4	0.4	312.2	0.0	0.0	0.4	0.0	12.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	12.3	36.5	1.2	0.8	105.8	4.6	33.5	0.0	0.0	7.7	0.0	14.1
Unsig. Movement Delay, s/veh		00.0	1.2	0.0	100.0	1.0	00.0	0.0	0.0	,.,	0.0	
LnGrp Delay(d),s/veh	161.8	28.5	9.7	22.4	143.9	11.8	381.8	0.0	0.0	56.1	0.0	71.5
LnGrp LOS	F	C	A	C	F	В	F	A	A	E	A	E
Approach Vol, veh/h	<u> </u>	1229			1662		•	267	, , , , , , , , , , , , , , , , , , ,	<u> </u>	345	_
Approach Vol, venin		44.7			127.0			381.8			66.1	
Approach LOS		44.7 D			127.0 F			501.0 F			E	
								•				
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.2	104.8		32.0	15.5	102.5		32.0				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	95.0		* 27	8.0	95.0		* 27				
Max Q Clear Time (g_c+I1), s	2.9	67.2		22.2	10.0	97.0		28.8				
Green Ext Time (p_c), s	0.0	16.6		0.4	0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			111.6									
HCM 6th LOS			F									
Notos												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection								
Int Delay, s/veh	33.2							
Movement	NWL	NWR	NET	NER	SWL	SWT		
Lane Configurations		7	<b></b>	7	ች	<b></b>		
Traffic Vol, veh/h	100	100	990	63	39	995		
Future Vol, veh/h	100	100	990	63	39	995		
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	0	-	295	390	-		
Veh in Median Storage		-	0		-	0		
Grade, %	0	-	0	-	-	0		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	2	2	4	4	4	4		
Mvmt Flow	105	105	1042	66	41	1047		
Major/Minor	Minor1	N	Major1	ľ	Major2			
Conflicting Flow All	2171	1042	0		1108	0		
Stage 1	1042	-	-	-	-	-		
Stage 2	1129	-	_	-	-	-		
Critical Hdwy	6.42	6.22	-	-	4.14	-		
Critical Hdwy Stg 1	5.42	-	_	-	-	_		
Critical Hdwy Stg 2	5.42	-	-	-	-	-		
Follow-up Hdwy	3.518		_	_	2.236	_		
Pot Cap-1 Maneuver	~ 51	279	_	_	623	_		
Stage 1	340	-	_	_	- 023	_		
Stage 2	309	_		_	_	_		
Platoon blocked, %	307					_		
Mov Cap-1 Maneuver	~ 48	279	-	-	623	-		
Mov Cap-1 Maneuver		219	_		023	_		
Stage 1	340	-	-	-	-	-		
Stage 2	289	-			-			
Jiaye 2	209	-	-	-	-	-		
Approach	NW		NE		SW			
HCM Control Delay, s			0		0.4			
HCM LOS	\$ 378.1 F		U		0.4			
TIGIVI LUS	Г							
Minor Long/Major M.	mt.	NET	NEDA	1\1/1 1\	11/1/1 2	CIMI	CVA/T	
Minor Lane/Major Mvn	III	NET	NERN	JWLn1N		SWL	SWT	
Capacity (veh/h)		-	-	48	279	623	-	
HCM Lane V/C Ratio		-		2.193			-	
HCM Control Delay (s	)	-	-\$	730.6	25.5	11.2	-	
HCM Lane LOS	`	-	-	F	D	В	-	
HCM 95th %tile Q(veh	1)	-	-	10.8	1.7	0.2	-	
Notes								
~: Volume exceeds ca	apacity	\$: De	elay exc	ceeds 30	00s	+: Com	putation Not Defined	*: All major volume in platoon

	۶	<b>→</b>	•	•	-	4	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<b>†</b>			<b>+</b>	7	7	<b>↑</b>	7		र्स	7
Traffic Volume (veh/h)	65	880	0	0	1036	51	0	0	0	137	0	217
Future Volume (veh/h)	65	880	0	0	1036	51	0	0	0	137	0	217
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1041	No	0	0	No	1041	1070	No	1070	1070	No	1070
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	68	926	0	0	1091	54	0	0	0	144	0	228
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4 215	1201	0	0	1170	4 999	2	2	2	289	2	2 257
Cap, veh/h Arrive On Green		1381 0.75	0.00	0.00	1179 0.64	0.64	0.00	0.00	0.00	0.16	0.00	0.16
Sat Flow, veh/h	0.06 1753	1841	0.00	0.00	1841	1560	1781	1870	1585	1781	0.00	1585
Grp Volume(v), veh/h	68	926	0	0	1091	54 1540	1701	1070	1505	144	0	228
Grp Sat Flow(s), veh/h/ln	1753 1.7	1841 37.9	0.0	0.0	1841 78.5	1560	1781	1870	1585	1781 11.1	0	1585 21.1
Q Serve(g_s), s	1.7	37.9	0.0	0.0	78.5	1.9 1.9	0.0	0.0	0.0	11.1	0.0	21.1
Cycle Q Clear(g_c), s Prop In Lane	1.00	37.9	0.00	0.00	70.3	1.00	1.00	0.0	1.00	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	215	1381	0.00	0.00	1179	999	1.00	1	1.00	289	0	257
V/C Ratio(X)	0.32	0.67	0.00	0.00	0.93	0.05	0.00	0.00	0.00	0.50	0.00	0.89
Avail Cap(c_a), veh/h	222	1381	0.00	0.00	1179	999	356	374	317	404	0.00	359
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	31.4	9.4	0.0	0.0	23.8	10.0	0.0	0.0	0.0	57.3	0.0	61.5
Incr Delay (d2), s/veh	0.6	2.6	0.0	0.0	13.5	0.1	0.0	0.0	0.0	1.3	0.0	17.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.7	18.8	0.0	0.0	43.4	1.2	0.0	0.0	0.0	8.8	0.0	14.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	32.0	12.0	0.0	0.0	37.3	10.1	0.0	0.0	0.0	58.6	0.0	79.0
LnGrp LOS	С	В	А	А	D	В	Α	А	А	Е	А	Е
Approach Vol, veh/h		994			1145			0			372	
Approach Delay, s/veh		13.4			36.0			0.0			71.1	
Approach LOS		В			D						Е	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		119.7		30.3	16.5	103.2		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		66.9		34.0	10.0	49.8		30.0				
Max Q Clear Time (g_c+I1), s		39.9		23.1	3.7	80.5		0.0				
Green Ext Time (p_c), s		13.4		1.2	0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			32.3									
HCM 6th LOS			С									

Intersection													
Int Delay, s/veh	132.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ሻ	<u></u>	7	ሻ	<del>(</del> î		
Traffic Vol, veh/h	24	0	12	101	0	85	10	1045	58	50	896	19	
Future Vol, veh/h	24	0	12	101	0	85	10	1045	58	50	896	19	
Conflicting Peds, #/hr	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	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	_	240	-	300	425	-	-	
Veh in Median Storage	. # -	0	-	-	0	-	_	0	_	-	0	_	
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
Mvmt Flow	25	0	13	106	0	89	11	1100	61	53	943	20	
WWITH TOW	20	U	13	100	U	07	- 11	1100	O I	55	743	20	
Major/Minor N	Minor2			Minor1		1	Major1		N	Major2			
Conflicting Flow All	2256	2242	953	2188	2191	1100	963	0	0	1161	0	0	
Stage 1	1059	1059	900	1122	1122	1100	703	-	-	-	-	-	
Stage 2	1197	1183	-	1066	1069		-	-	-	-	-	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.14		-	4.14			
<b>J</b>	6.12	5.52	0.22	6.12	5.52	0.22	4.14	-	-		-	-	
Critical Hdwy Stg 1			-			-	-		-	-	-	-	
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	- 0.007	-	-	
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.236	-	-	2.236	-	-	
Pot Cap-1 Maneuver	29	42	314	~ 33	45	258	707	-	-	595	-	-	
Stage 1	271	301	-	250	281	-	-	-	-	-	-	-	
Stage 2	227	263	-	269	298	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	~ 17	38	314	~ 29	40	258	707	-	-	595	-	-	
Mov Cap-2 Maneuver	~ 17	38	-	~ 29	40	-	-	-	-	-	-	-	
Stage 1	267	274	-	246	277	-	-	-	-	-	-	-	
Stage 2	146	259	-	235	271	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s\$	599.3		\$	1518.3			0.1			0.6			
HCM LOS	F			F									
Minor Lane/Major Mvm	nt	NBL	NBT	NBR	EBLn1V	VBLn1	SBL	SBT	SBR				
Capacity (veh/h)		707			25	49	595						
HCM Lane V/C Ratio		0.015				3.996		_					
HCM Control Delay (s)		10.2	-		599.\$		11.6		-				
HCM Lane LOS			•	-⊅	599. <b>3</b>	1016.3 F		-	-				
		В	-	-			В	-					
HCM 95th %tile Q(veh)	)	0	-	-	4.7	21.7	0.3	-	-				
Notes													
~: Volume exceeds cap	oacity	\$: De	elay exc	ceeds 3	00s	+: Com	putatior	Not D	efined	*: All	major v	olume i	in platoon

	>	74	$\mathbf{x}$	4	*	*	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	*	7	<b>^</b> ^	7	*	<b>^</b> ^	
Traffic Volume (veh/h)	683	457	1451	310	586	2451	
Future Volume (veh/h)	683	457	1451	310	586	2451	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	719	481	1527	0	617	2580	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	516	459	1600	•	450	2982	
Arrive On Green	0.29	0.29	0.32	0.00	0.22	0.59	
Sat Flow, veh/h	1753	1560	5191	1560	1753	5191	
Grp Volume(v), veh/h	719	481	1527	0	617	2580	
Grp Sat Flow(s), veh/h/ln	1753	1560	1675	1560	1753	1675	
	35.3		35.7	0.0	26.2	51.5	
Q Serve(g_s), s		35.3	35.7		26.2		
Cycle Q Clear(g_c), s	35.3	35.3	33.7	0.0		51.5	
Prop In Lane	1.00	1.00	1/00	1.00	1.00	2002	
Lane Grp Cap(c), veh/h	516	459	1600		450	2982	
V/C Ratio(X)	1.39	1.05	0.95		1.37	0.87	
Avail Cap(c_a), veh/h	516	459	1600	1.00	450	2982	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Uniform Delay (d), s/veh	42.3	42.3	40.1	0.0	36.9	20.4	
Incr Delay (d2), s/veh	189.0	55.2	14.0	0.0	181.0	3.7	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	62.0	27.8	22.7	0.0	46.1	25.8	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	231.3	97.6	54.1	0.0	218.0	24.1	
LnGrp LOS	F	F	D		F	С	
Approach Vol, veh/h	1200		1527	А		3197	
Approach Delay, s/veh	177.7		54.1			61.5	
Approach LOS	F		D			Е	
	1	2					
Timer - Assigned Phs		2				6	
Phs Duration (G+Y+Rc), s	33.0	45.0				78.0	
Change Period (Y+Rc), s	6.8	6.8				6.8	
Max Green Setting (Gmax), s	26.2	38.2				71.2	
Max Q Clear Time (g_c+I1), s	28.2	37.7				53.5	
Green Ext Time (p_c), s	0.0	0.4				16.1	
Intersection Summary							
HCM 6th Ctrl Delay			83.1				
HCM 6th LOS			F				
Notes							

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>\</b>	<b>↑</b>		ř	<b>\</b>	<b>7</b>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	0	0	0
Veh in Median Storag	e,# -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor	Major1	N	//oior?		Minor	
			/lajor2		Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	-	-	3.518	
Pot Cap-1 Maneuver	1609	-	-	-	1022	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1609	-	-	-	1022	1084
Mov Cap-2 Maneuver		-	-	-	1022	-
Stage 1	_	_	-	_	1022	_
Stage 2	-	_	_	_	-	-
otago 2						
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvr	nt	EBL	EBT	WBT	WRD	SBLn1 S
	III		LDI	WDI	WDIX .	JULIII J
Capacity (veh/h)		1609	-	-	-	-
HCM Cantal Data (		-	-	-	-	-
HCM Control Delay (s	)	0	-	-	-	0
HCM Lane LOS	,	Α	-	-	-	Α
HCM 95th %tile Q(veh	1)	0	-	-	-	-

Intersection						
Int Delay, s/veh	5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<u>LDI</u>	T T	YVDL	<u>₩</u>	NDL Š	TO INDIK
	1104	16	41	889	37	75
	1104	16	41	889	37	75
Conflicting Peds, #/hr	0	0	0	007	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	- -	None
Storage Length	_	400	415	-	0	0
Veh in Median Storage,		400	413	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
	4	4	4	4	2	2
Heavy Vehicles, %		17	43		39	79
Mvmt Flow	1162	17	43	936	39	19
Major/Minor Major/Minor	ajor1	ľ	Major2	- 1	Vinor1	
Conflicting Flow All	0	0	1179	0	2184	1162
Stage 1	-	-	-	-	1162	-
Stage 2	-	-	-	-	1022	-
Critical Hdwy	_	_	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	_	_	5.42	_
Critical Hdwy Stg 2	_	-	_	_	5.42	_
Follow-up Hdwy	_	_	2.236	-		3.318
Pot Cap-1 Maneuver	_	_	585	_	50	237
Stage 1	_	_	-	_	298	
Stage 2	_	_	_	_	347	_
Platoon blocked, %	_	_		_	547	
Mov Cap-1 Maneuver	_	_	585	_	46	237
Mov Cap-1 Maneuver	-	-	303	-	46	231
		_	-		298	
Stage 1	-	-	-	-		-
Stage 2	-	-	-	-	321	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		92.8	
HCM LOS			0.0		F	
					•	
					EDD	WBL
Minor Long /Minima		UDL 4-8	VIDI 0			WHI
Minor Lane/Major Mvmt	1	NBLn1 N		EBT	EBR	
Capacity (veh/h)		46	237	EBT -	-	585
Capacity (veh/h) HCM Lane V/C Ratio		46 0.847	237 0.333		-	585 0.074
Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	ſ	46 0.847 224.9	237 0.333 27.6	-	-	585 0.074 11.6
Capacity (veh/h) HCM Lane V/C Ratio	ľ	46 0.847	237 0.333	-	-	585 0.074

Intersection													
Int Delay, s/veh	350.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	ች	<b>↑</b>	7		<b>↑</b>	7		4			4	7	
Traffic Vol, veh/h	48	792	34	40	1129	40	39	7	68	68	0	192	
Future Vol, veh/h	48	792	34	40	1129	40	39	7	68	68	0	192	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None		-	None	
Storage Length	460	-	250	345	-	400	-	-	-	-	-	0	
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	_	0	_	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	4	4	4	4	4	4	2	2	2		2	2	
Mvmt Flow	51	834	36	42	1188	42	41	7	72		0	202	
	- 01	- 007		12	1100	12			12			202	
Major/Minor	Major1		N	Major2			Minor1			Minor2			
Conflicting Flow All	1230	0	0	870	0	0	2330	2250	834		2244	1188	
Stage 1	1230	-	<u> </u>	070	-	-	936	936	- 034		1272	1100	
Stage 2	-	-	-	-	-	-	1394	1314	-		972	-	
Critical Hdwy	4.14	-	-	4.14	-	-	7.12	6.52	6.22		6.52	6.22	
Critical Hdwy Stg 1	4.14	-	-	4.14	_	-	6.12	5.52	0.22	6.12	5.52	0.22	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-		5.52	-	
Follow-up Hdwy	2.236	-	-	2.236	-	-	3.518	4.018			4.018	3.318	
	560		-	766		-	~ 26	4.016	368		4.016	229	
Pot Cap-1 Maneuver	200	-	-	/00	-	-	318						
Stage 1	-	-	-	-	-	-		344	-	200	239	-	
Stage 2	-	-	-	-	-	-	175	228	-	295	331	-	
Platoon blocked, %	F/0	-	-	7//	-	-	2	27	2/0	10	27	220	
Mov Cap-1 Maneuver		-	-	766	-	-	~ 3	36	368	~ 18	36	229	
Mov Cap-2 Maneuver		-	-	-	-	-	~ 3	36	-		36	-	
Stage 1	-	-	-	-	-	-	289	313	-		226	-	
Stage 2	-	-	-	-	-	-	~ 19	215	-	211	301	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.7			0.3		\$ (	6358.1			\$ 521			
HCM LOS							F			F			
Minor Lane/Major Mvr	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1	SBLn2			
Capacity (veh/h)		9	560	-	-	766	-	-	18				
HCM Lane V/C Ratio	1	13.333	0.09	_		0.055	_	_		0.883			
HCM Control Delay (s		5358.1	12.1	_	-	10	_	\$.	1772.8				
HCM Lane LOS	, ψ	F	В	_	_	A	_	Ψ	F	77.0 F			
HCM 95th %tile Q(veh	າ)	16.6	0.3	-	-	0.2	-	-	9.5				
	<b>'</b>	. 3.3							7.0				
Notes	no =!4	ф D	alov:	0.0 -1 - 0.0	200		mulal!	o Nacio	ofice	* ^!!	m =!	unleres -	in platasia
~: Volume exceeds ca	apacity	\$: D6	elay exc	eeds 30	JUS	+: Com	putatio	1 NOT D	etined	: All	major	volume	in platoon

	۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	~	<b>/</b>	<b>↓</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	<b>†</b>	7	ሻ	<b>^</b>	7
Traffic Volume (veh/h)	673	592	413	375	815	611	638	578	421	392	272	594
Future Volume (veh/h)	673	592	413	375	815	611	638	578	421	392	272	594
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00	1.00	4.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	100/	No	1007	1041	No	1041	1041	No	1041	1041	No	1041
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	708	623	435	395	858	643	672	608	443	413	286	625
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5 <b>456</b>	4 725	5 321	4 416	4 601	4 268	4 484	4 810	4 686	4 359	4 1492	1032
Cap, veh/h Arrive On Green	0.23	0.21	0.21	0.20	0.17	0.17	0.12	0.44	0.44	0.13	0.43	0.43
Sat Flow, veh/h	1739	3497	1547	1753	3497	1560	1753	1841	1560	1753	3497	1560
Grp Volume(v), veh/h	708	623	435	395	858	643	672	608	443	413	286	625
Grp Sat Flow(s), veh/h/ln	1739	1749	1547	1753	1749	1560	1753	1841	1560	1753	1749	1560
	35.2	25.8	31.1	27.6	25.8	25.8	18.2	41.4	33.3	1755	7.7	34.0
Q Serve(g_s), s Cycle Q Clear(g_c), s	35.2	25.8	31.1	27.6	25.8	25.8	18.2	41.4	33.3	19.5	7.7	34.0
Prop In Lane	1.00	23.0	1.00	1.00	23.0	1.00	1.00	41.4	1.00	1.00	1.1	1.00
Lane Grp Cap(c), veh/h	456	725	321	416	601	268	484	810	686	359	1492	1032
V/C Ratio(X)	1.55	0.86	1.36	0.95	1.43	2.40	1.39	0.75	0.65	1.15	0.19	0.61
Avail Cap(c_a), veh/h	456	725	321	436	601	268	484	810	686	359	1492	1032
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.2	57.3	59.4	40.8	62.1	62.1	30.0	35.1	32.8	34.8	26.8	14.4
Incr Delay (d2), s/veh	259.2	10.2	179.2	30.1	202.3	641.4	186.6	6.3	4.6	95.6	0.3	2.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	72.3	17.9	42.3	21.5	42.9	90.7	50.7	26.6	19.1	25.8	5.8	17.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	305.4	67.5	238.7	70.9	264.5	703.5	216.6	41.4	37.5	130.3	27.1	17.0
LnGrp LOS	F	Е	F	Е	F	F	F	D	D	F	С	В
Approach Vol, veh/h		1766			1896			1723			1324	
Approach Delay, s/veh		205.1			373.0			108.8			54.5	
Approach LOS		F			F			F			D	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	26.0	71.4	36.7	37.9	24.0	73.4	42.0	32.6				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	4.5	6.8	6.8	6.8				
Max Green Setting (Gmax), s	18.2	43.2	31.6	* 31	19.5	45.2	35.2	25.2				
Max Q Clear Time (g_c+l1), s	20.2	36.0	29.6	33.1	21.5	43.4	37.2	27.8				
Green Ext Time (p_c), s	0.0	2.5	0.3	0.0	0.0	1.0	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			198.1									
HCM 6th LOS			F									
HOW OUT LOS			1									

User approved ignoring U-Turning movement.

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	ሻ	7	<b>^</b>	7	<u> </u>	<b>^</b>
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
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	160	-	400	310	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	0	0	0	0	0	0
	•					
	Minor1		/lajor1		/lajor2	_
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.24	-
Pot Cap-1 Maneuver	1021	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1021	-	-	-	-	-
Mov Cap-2 Maneuver	1021	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	A		U		U	
FICIVI LOS	А					
Minor Lane/Major Mvm	nt	NBT	NBRV	VBLn1W	/BLn2	SBL
Capacity (veh/h)		-	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		-	-	0	0	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	)	-	-	-	-	-
HOW 9501 7600 Q(Ven)	)	_	-	-	_	-

Intersection								
Int Delay, s/veh	27.8							
Movement	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	<u></u>	T T	YVDL	<u>₩</u>	₩.	ווטוז		
Traffic Vol, veh/h	1489	83	40	1032	48	23		
uture Vol, veh/h	1489	83	40	1032	48	23		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None		None	- -	None		
Storage Length	-	225	240	-	0	-		
eh in Median Storag	e, # 0	-	-	0	0	-		
Grade, %	0	-	-	0	0	-		
eak Hour Factor	95	95	95	95	95	95		
leavy Vehicles, %	4	4	4	4	2	2		
1vmt Flow	1567	87	42	1086	51	24		
ajor/Minor	Major1		Major2	N	Minor1			
onflicting Flow All	0	0	1654		2737	1567		
Stage 1	-	-	-	-	1567	-		
Stage 2	-	-	-	-	1170	-		
ritical Hdwy	-	-	4.14	-	6.42	6.22		
itical Hdwy Stg 1	-	-	-	-	5.42	-		
itical Hdwy Stg 2	-	-	-	-	5.42	-		
llow-up Hdwy	-	-	2.236	-	3.518	3.318		
ot Cap-1 Maneuver	-	-	385	-	~ 22	137		
Stage 1	-	-	-	-	189	-		
Stage 2	-	-	-	-	295	-		
latoon blocked, %	-	-		-				
lov Cap-1 Maneuver		-	385	-	~ 20	137		
lov Cap-2 Maneuver		-	-	-	~ 20	-		
Stage 1	-	-	-	-	189	-		
Stage 2	-	-	-	-	263	-		
proach	EB		WB		NB			
ICM Control Delay, s	0		0.6	\$ 1	052.7			
CM LOS					F			
nor Lane/Major Mvr	mtI	NBLn1	EBT	EBR	WBL	WBT		
apacity (veh/h)		28	-	-	385			
CM Lane V/C Ratio		2.669	-	-	0.109	-		
CM Control Delay (s	s) \$ <sup>1</sup>	1052.7	-	-	15.5	-		
CM Lane LOS		F	-	-	С	-		
CM 95th %tile Q(vel	n)	9	-	-	0.4	-		
lotes								
Volume exceeds ca	anacity	\$. Da	alay eye	eeds 30	nns.	+· Com	putation Not Defined	*: All major volume in platoon
rolullie exceeds ca	apacity	φ. De	lay exc	CCU2 31	003	T. CUIII	paration Not Delined	. All major volume in piatoon

	ၨ	<b>→</b>	•	•	•	•	4	<b>†</b>	/	<b>/</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>†</b>	7	ሻ		7		4			र्स	7
Traffic Volume (veh/h)	55	1366	61	69	881	22	97	0	20	40	0	56
Future Volume (veh/h)	55	1366	61	69	881	22	97	0	20	40	0	56
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	58	1438	64	73	927	23	102	0	21	42	0	59
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	437	1400	1187	137	1404	1190	76	0	7	133	0	85
Arrive On Green	0.05	0.76	0.76	0.05	0.76	0.76	0.05	0.00	0.05	0.05	0.00	0.05
Sat Flow, veh/h	1753	1841	1560	1753	1841	1560	592	0	122	1582	0	1585
Grp Volume(v), veh/h	58	1438	64	73	927	23	123	0	0	42	0	59
Grp Sat Flow(s), veh/h/ln	1753	1841	1560	1753	1841	1560	714	0	0	1582	0	1585
Q Serve(g_s), s	1.0	113.8	1.5	1.9	36.0	0.5	4.1	0.0	0.0	0.0	0.0	5.5
Cycle Q Clear(g_c), s	1.0	113.8	1.5	1.9	36.0	0.5	8.0	0.0	0.0	3.9	0.0	5.5
Prop In Lane	1.00		1.00	1.00		1.00	0.83		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	437	1400	1187	137	1404	1190	82	0	0	133	0	85
V/C Ratio(X)	0.13	1.03	0.05	0.53	0.66	0.02	1.50	0.00	0.00	0.32	0.00	0.70
Avail Cap(c_a), veh/h	445	1400	1187	142	1404	1190	82	0	0	133	0	85
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.5	17.9	4.5	49.1	8.5	4.3	73.8	0.0	0.0	68.8	0.0	69.6
Incr Delay (d2), s/veh	0.1	31.2	0.1	2.7	2.5	0.0	276.8	0.0	0.0	0.5	0.0	18.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.8	62.8	0.8	3.9	18.5	0.3	16.1	0.0	0.0	2.9	0.0	4.8
Unsig. Movement Delay, s/veh												,,,,
LnGrp Delay(d),s/veh	7.6	49.1	4.6	51.8	10.9	4.3	350.7	0.0	0.0	69.4	0.0	88.5
LnGrp LOS	A	F	A	D	В	А	F	A	A	E	A	F
Approach Vol, veh/h		1560	, , , , , , , , , , , , , , , , , , ,		1023		•	123			101	
Approach Delay, s/veh		45.8			13.7			350.7			80.5	
Approach LOS		D			В			F			F	
											'	
Timer - Assigned Phs	1 1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.1	121.3		13.2	14.8	121.6		13.2				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	113.8		* 8	8.0	113.8		* 8				
Max Q Clear Time (g_c+l1), s	3.9	115.8		7.5	3.0	38.0		10.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	21.3		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			48.7									
HCM 6th LOS			D									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection								
Int Delay, s/veh	9.3							
					0.11			
Movement	NWL	NWR	NET	NER	SWL	SWT		
Lane Configurations	ች	7	<b>↑</b>	7		<b>↑</b>		
Traffic Vol, veh/h	48	61	1102	78	70	894		
Future Vol, veh/h	48	61	1102	78	70	894		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-	None		
Storage Length	0	0	-	295	390	-		
Veh in Median Storag		-	0	-	-	0		
Grade, %	0	-	0	-	-	0		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	2	2	4	4	4	4		
Vivmt Flow	51	64	1160	82	74	941		
Major/Minor	Minor1	N	Major1	N	/lajor2			
Conflicting Flow All	2249	1160	0		1242	0		
Stage 1	1160	-	-	-	-	-		
Stage 2	1089	_	_	_		_		
Critical Hdwy	6.42	6.22	_	_	4.14	_		
Critical Hdwy Stg 1	5.42	-	_	_	-	_		
Critical Hdwy Stg 2	5.42	_	_	_	_	_		
Follow-up Hdwy	3.518		_	_	2.236	-		
Pot Cap-1 Maneuver	~ 46	238	_	_	554	_		
Stage 1	298	-	_	_	- 55	_		
Stage 2	323	_						
Platoon blocked, %	JZJ			_				
Mov Cap-1 Maneuver	~ 40	238	-		554			
Mov Cap-1 Maneuver Mov Cap-2 Maneuver		230	-		-			
Stage 1	298	-	-	-	-	-		
Stage 2	280	-		_		_		
Jiaye Z	200	-	-	-		_		
Approach	NW		NE		SW			
HCM Control Delay, s			0		0.9			
HCM LOS	F							
Minor Lane/Major Mvr	mt	NET	NERN	JWLn1N	WLn2	SWL	SWT	
Capacity (veh/h)		-		40	238	554	-	
HCM Lane V/C Ratio		_	_	1.263	0.27	0.133	-	
HCM Control Delay (s	:)	_		\$ 388	25.6	12.5	-	
HCM Control Delay (3 HCM Lane LOS	'/	_	_	<del>у</del> 300	23.0 D	12.3 B	-	
HCM 95th %tile Q(vel	n)	-	-	5.1	1.1	0.5	-	
·	7			J. I	1.1	0.0		
Votes								
<ul><li>: Volume exceeds ca</li></ul>	apacity	\$: De	elay exc	eeds 30	00s	+: Com	putation Not Defined	*: All major volume in platoon

	۶	<b>→</b>	•	•	•	4	1	<b>†</b>	<b>/</b>	<b>/</b>	Ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>†</b>			<b>†</b>	7	ሻ	<b>†</b>	7		र्स	7
Traffic Volume (veh/h)	120	1117	0	0	825	99	0	0	0	89	0	87
Future Volume (veh/h)	120	1117	0	0	825	99	0	0	0	89	0	87
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	10.11	No	0	0	No	10.11	4070	No	4070	4070	No	4070
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	126	1176	0	0	868	104	0	0	0	94	0	92
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h Arrive On Green	437	1544	0.00	0.00	1335 0.73	1131	0.00	0.00	0.00	132 0.07	0.00	117 0.07
Sat Flow, veh/h	0.07 1753	0.84 1841	0.00	0.00	1841	0.73 1560	1781	1870	1585	1781	0.00	1585
Grp Volume(v), veh/h	126	1176	0	0	868	104	1701	1070	1505	94	0	92
Grp Sat Flow(s), veh/h/ln	1753	1841	0.0	0	1841 36.8	1560	1781	1870	1585	1781 7.7	0	1585 8.6
Q Serve(g_s), s	2.3	42.8 42.8	0.0	0.0	36.8	2.9 2.9	0.0	0.0	0.0	7.7	0.0	8.6
Cycle Q Clear(g_c), s Prop In Lane	1.00	42.0	0.00	0.00	30.0	1.00	1.00	0.0	1.00	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	437	1544	0.00	0.00	1335	1131	1.00	1	1.00	132	0	117
V/C Ratio(X)	0.29	0.76	0.00	0.00	0.65	0.09	0.00	0.00	0.00	0.71	0.00	0.79
Avail Cap(c_a), veh/h	438	1544	0.00	0.00	1335	1131	356	374	317	249	0.00	222
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	9.5	5.4	0.0	0.0	10.7	6.1	0.0	0.0	0.0	67.9	0.0	68.3
Incr Delay (d2), s/veh	0.3	3.6	0.0	0.0	2.5	0.2	0.0	0.0	0.0	7.0	0.0	10.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.0	15.6	0.0	0.0	19.1	1.6	0.0	0.0	0.0	6.8	0.0	6.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.8	9.0	0.0	0.0	13.2	6.2	0.0	0.0	0.0	74.9	0.0	79.2
LnGrp LOS	Α	Α	Α	Α	В	Α	Α	Α	Α	Е	А	Е
Approach Vol, veh/h		1302			972			0			186	
Approach Delay, s/veh		9.1			12.4			0.0			77.0	
Approach LOS		А			В						Е	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		132.9		17.1	17.0	115.9		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		79.9		21.0	10.0	62.8		30.0				
Max Q Clear Time (g_c+I1), s		44.8		10.6	4.3	38.8		0.0				
Green Ext Time (p_c), s		22.7		0.5	0.1	12.2		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			15.5									
HCM 6th LOS			В									

Intersection													
Int Delay, s/veh	65.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ሻ	<u></u>	7	ሻ	<del>(</del> î		
Traffic Vol, veh/h	19	0	17	58	0	50	38	1035	101	85	908	65	
uture Vol, veh/h	19	0	17	58	0	50	38	1035	101	85	908	65	
Conflicting Peds, #/hr	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	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	240	-	300	425	-	-	
/eh in Median Storage	.# -	0	-	-	0	-	-	0	-	-	0	-	
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
Nymt Flow	20	0	18	61	0	53	40	1089	106	89	956	68	
VIVIIICT IOW	20	U	10	01	U	55	70	1007	100	07	750	00	
Major/Minor N	Minor2			Minor1		1	Major1		N	Major2			
Conflicting Flow All	2417	2443	990	2346	2371	1089	1024	0	0	1195	0	0	
Stage 1	1168	1168	990	1169	1169	1009	1024	-	-	1195	-	-	
Stage 2	1249	1275	-	1109	1202	-	-	-	-	-	_	-	
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.14		-	4.14		-	
<i>y</i>	6.12	5.52	0.22	6.12	5.52	0.22	4.14	-	-	4.14	-		
ritical Hdwy Stg 1	6.12		-			-	-		-	-	-	-	
Critical Hdwy Stg 2		5.52	-	6.12	5.52	2 210	2.227	-	-	2 227	-	-	
follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.236	-	-	2.236	-	-	
Pot Cap-1 Maneuver	22	31	299	~ 25	35	262	670	-	-	577	-	-	
Stage 1	236	267	-	235	267	-	-	-	-	-	-	-	
Stage 2	212	238	-	233	258	-	-	-	-	-	-	-	
Platoon blocked, %		~-	0.5.5		~ ~	0.10	,	-	-		-	-	
Mov Cap-1 Maneuver	~ 15	25	299	~ 20	28	262	670	-	-	577	-	-	
Mov Cap-2 Maneuver	~ 15	25	-	~ 20	28	-	-	-	-	-	-	-	
Stage 1	222	226	-	221	251	-	-	-	-	-	-	-	
Stage 2	159	224	-	185	218	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s\$			(	\$ 1251			0.3			1			
HCM LOS	F			F									
Minor Lane/Major Mvm	ıt	NBL	NBT	NBR I	EBLn1V	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)		670	-	-	27	35	577	-	-				
HCM Lane V/C Ratio		0.06	-	-	1.404	3.248	0.155	-	-				
HCM Control Delay (s)		10.7	-		533.23		12.4	-	-				
ICM Lane LOS		В	_	_	F	F	В	_	-				
HCM 95th %tile Q(veh)		0.2	-	-	4.5	13.1	0.5	-	-				
Notes													
	ancity.	¢. D.	Nov. ove	oods 2	000	L. Com	nutation	Mot D	ofinod	*, AJI	malar	oluma :	in plataan
-: Volume exceeds cap	Dacity	\$: D€	elay exc	ceeds 3	UUS	+: Com	pulalior	ו ואטנ טי	ennea	: All	major \	volume I	in platoon

	>	74	$\mathbf{x}$	4	*	*	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	ች	7	<b>^</b> ^	7	ች	<b>^</b> ^	
Traffic Volume (veh/h)	408	607	2408	591	449	1459	
Future Volume (veh/h)	408	607	2408	591	449	1459	
nitial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00	· ·	1.00	1.00	U	
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No	1.00	No	1.00	1.00	No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	429	639	2535	0	473	1536	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	366	326	2318	7	389	3524	
Arrive On Green	0.21	0.21	0.46	0.00	0.19	0.70	
Sat Flow, veh/h	1753	1560	5191	1560	1753	5191	
Grp Volume(v), veh/h	429	639	2535	1540	473	1536	
Grp Sat Flow(s), veh/h/ln	1753	1560	1675	1560	1753	1675	
2 Serve(g_s), s	31.3	31.3	69.2	0.0	29.2	19.7	
Cycle Q Clear(g_c), s	31.3	31.3	69.2	0.0	29.2	19.7	
rop In Lane	1.00	1.00	0010	1.00	1.00	0504	
ane Grp Cap(c), veh/h	366	326	2318		389	3524	
/C Ratio(X)	1.17	1.96	1.09		1.22	0.44	
wail Cap(c_a), veh/h	366	326	2318	1.00	389	3524	
ICM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
lpstream Filter(I)	1.00	1.00	1.00	0.00	1.00	1.00	
Iniform Delay (d), s/veh	59.3	59.3	40.4	0.0	52.5	9.6	
ncr Delay (d2), s/veh	103.0	444.4	49.7	0.0	118.2	0.4	
nitial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	34.7	81.9	51.2	0.0	39.5	10.9	
Insig. Movement Delay, s/veh							
.nGrp Delay(d),s/veh	162.3	503.7	90.1	0.0	170.7	10.0	
nGrp LOS	F	F	F		F	В	
pproach Vol, veh/h	1068		2535	Α		2009	
pproach Delay, s/veh	366.6		90.1			47.9	
pproach LOS	F		F			D	
imer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	36.0	76.0				112.0	38.0
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	29.2	69.2				105.2	31.3
Max Q Clear Time (g_c+l1), s	31.2	71.2				21.7	33.3
Green Ext Time (p_c), s	0.0	0.0				21.7	0.0
4 - 7	0.0	0.0				21.0	0.0
ntersection Summary			107 /				
HCM 6th Ctrl Delay			127.6				
HCM 6th LOS			F				
Votes							

Unsignalized Delay for [SER] is excluded from calculations of the approach delay and intersection delay.

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	EDL	EDI	WDI	WDK	JDL N	JDR ř
Traffic Vol, veh/h	0	<b>T</b>	<b>T</b>	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	0	0	0
Veh in Median Storage	e, # -	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor I	Major1	N	Major2		Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.14	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.236	-	-	-	3.518	
Pot Cap-1 Maneuver	1609	-	-	-	1022	1084
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1609	-	-	-	1022	1084
Mov Cap-2 Maneuver	-	-	-	-	1022	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT	WBR:	SBLn1 SBLı
Capacity (veh/h)		1609	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	-	0
HCM Lane LOS		Α	-	-	-	А
HCM 95th %tile Q(veh)	)	0	-	-	-	-

Intersection						
Int Delay, s/veh	4					
			14/51	14/5-		NES
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations		7	- ሻ			7
Traffic Vol, veh/h	1010	30	50	995	33	52
Future Vol, veh/h	1010	30	50	995	33	52
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	1063	32	53	1047	35	55
WWW. Flow	1000	02	00	1017	00	00
Major/Minor N	/lajor1		Major2	1	Vinor1	
Conflicting Flow All	0	0	1095	0	2216	1063
Stage 1	-	-	-	-	1063	-
Stage 2	-	-	-	-	1153	-
Critical Hdwy	-	-	4.14	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	_	-	2.236	-	3.518	3.318
Pot Cap-1 Maneuver	_	_	630	_	48	271
Stage 1	_	_	-	_	332	
Stage 2	_	_	_	_	301	_
Platoon blocked, %	_	_		_	301	
Mov Cap-1 Maneuver	-	-	630	_	44	271
Mov Cap-2 Maneuver	-	-	-	-	44	-
Stage 1	-	-	-	-	332	-
Stage 2	-	-	-	-	276	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		97.2	
HCM LOS	U		0.5		F	
HOW EOS					'	
Minor Lane/Major Mvmt	t ľ	VBLn1 N	NBLn2	EBT	EBR	WBL
Capacity (veh/h)		44	271	-	-	630
HCM Lane V/C Ratio		0.789		-	_	0.084
HCM Control Delay (s)		216.4	21.6	-	-	11.2
HCM Lane LOS		F	С	-	-	В
HCM 95th %tile Q(veh)		3.1	0.7	-	_	0.3
HOW 75th 70th Q(VeH)		J. I	0.1			0.5

Intersection												
Int Delay, s/veh	230.4											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<b>^</b>	7	ሻ	<b>↑</b>	7		4			र्स	1
Traffic Vol, veh/h	170	1141	104	65	806	94	55	7	55	43	0	69
Future Vol, veh/h	170	1141	104	65	806	94	55	7	55	43	0	69
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	460	-	250	345	-	400	-	-	-	-	-	0
Veh in Median Storage	e,# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2
Mvmt Flow	179	1201	109	68	848	99	58	7	58	45	0	73
Major/Minor I	Major1		ľ	Major2		1	Minor1			Minor2		
Conflicting Flow All	947	0	0	1310	0	0	2629	2642	1201	2630	2652	848
Stage 1	-	-	-	-	-	-	1559	1559	-	984	984	-
Stage 2	-	-	-	-	-	-	1070	1083	-	1646	1668	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.236	-	-	2.236	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	717	-	-	522	-	-	~ 16	23	225	~ 16	23	361
Stage 1	-	-	-	-	-	-	141	173	-	299	327	-
Stage 2	-	-	-	-	-	-	268	293	-	125	153	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	717	-	-	522	-	-	~ 9	15	225	~ 5	15	361
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 9	15	-	~ 5	15	-
Stage 1	-	-	-	-	-	-	106	130	-	224	284	-
Stage 2	-	-	-	-	-	-	186	255	-	66	115	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	1.4			0.9		\$ 3	3254.1		\$	1941.9		
HCM LOS						•	F		•	F		
Minor Lane/Major Mvm	nt N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR :	SBLn1	SBLn2		
Capacity (veh/h)		17	717			522		-	5	361		
HCM Lane V/C Ratio		7.245	0.25	_	_	0.131	_	_				
HCM Control Delay (s)	\$ 3	3254.1	11.7	_	-	12.9	-		\$ 5030	17.5		
HCM Lane LOS	Ψ	F	В	_	_	В	_	_	F 3030	C		
HCM 95th %tile Q(veh)	)	16.1	1	-	-	0.4	-	-	7.3	0.7		
`												
Notes	nacity	¢. D.	alay aya	oods 2	) <u>)</u>	u Com	nutation	a Not D	ofinad	*. AII	major	volumo
~: Volume exceeds cap	pacity	\$: D6	elay exc	eeus 30	JUS	+: Com	putation	n Not D	eimed	: All	major	volume

	۶	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	/	<b>/</b>	<b>†</b>	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	<b>•</b>	7	ሻ	<b>^</b>	7
Traffic Volume (veh/h)	610	838	604	404	606	401	416	347	380	575	489	688
Future Volume (veh/h)	610	838	604	404	606	401	416	347	380	575	489	688
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1870	1826	1870	1870	1870	1841	1841	1870	1870	1841	1841
Adj Flow Rate, veh/h	642	882	636	425	638	422	438	365	400	605	515	724
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	2	5	2	2	2	4	4	2	2	4	4
Cap, veh/h	468	888	387	312	557	248	486	1141	983	670	2216	1365
Arrive On Green	0.24	0.25	0.25	0.15	0.16	0.16	0.11	0.62	0.62	0.14	0.63	0.63
Sat Flow, veh/h	1739	3554	1547	1781	3554	1585	1753	1841	1585	1781	3497	1560
Grp Volume(v), veh/h	642	882	636	425	638	422	438	365	400	605	515	724
Grp Sat Flow(s), veh/h/ln	1739	1777	1547	1781	1777	1585	1753	1841	1585	1781	1749	1560
Q Serve(g_s), s	36.2	37.1	37.5	22.2	23.5	23.5	13.7	14.1	19.2	18.4	9.5	16.2
Cycle Q Clear(g_c), s	36.2	37.1	37.5	22.2	23.5	23.5	13.7	14.1	19.2	18.4	9.5	16.2
Prop In Lane	1.00	000	1.00	1.00	CC7	1.00	1.00	1111	1.00	1.00	221/	1.00
Lane Grp Cap(c), veh/h	468	888	387	312	557	248	486	1141	983	670	2216	1365
V/C Ratio(X)	1.37	0.99	1.64	1.36	1.15	1.70	0.90	0.32	0.41	0.90	0.23	0.53
Avail Cap(c_a), veh/h HCM Platoon Ratio	468	888 1.00	387 1.00	312 1.00	557 1.00	248 1.00	513	1141	983 1.00	708 1.00	2216 1.00	1365
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.0	56.1	56.3	45.9	63.2	63.3	11.7	13.5	14.5	11.2	11.8	2.2
Incr Delay (d2), s/veh	180.9	28.3	301.3	181.5	85.2	331.4	17.7	0.7	1.3	14.5	0.2	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
%ile BackOfQ(95%),veh/ln	57.5	27.0	72.3	38.3	25.3	50.3	11.3	9.8	11.2	13.3	6.5	5.0
Unsig. Movement Delay, s/veh		21.0	12.5	30.3	20.0	30.3	11.5	7.0	11.2	10.0	0.5	5.0
LnGrp Delay(d),s/veh	226.9	84.4	357.5	227.4	148.5	394.7	29.4	14.2	15.7	25.7	12.0	3.7
LnGrp LOS	F	F	557.5 F	F	F	F	C	В	В	C	В	Α
Approach Vol, veh/h	<u> </u>	2160	<u> </u>	<u> </u>	1485	•		1203			1844	
Approach Delay, s/veh		207.2			241.0			20.3			13.2	
Approach LOS		F			F			C			В	
•						,	_					
Timer - Assigned Phs	1	2	3	4	5	6	/	8				
Phs Duration (G+Y+Rc), s	23.7	101.9	29.0	44.3	25.8	99.8	43.0	30.3				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	4.5	6.8	6.8	6.8				
Max Green Setting (Gmax), s	18.2	46.2	22.2	* 38	24.5	43.2	36.2	21.2				
Max Q Clear Time (g_c+l1), s	15.7	18.2	24.2	39.5	20.4	21.2	38.2	25.5				
Green Ext Time (p_c), s	0.2	6.8	0.0	0.0	0.9	3.4	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			127.6									
HCM 6th LOS			F									

Notes

User approved ignoring U-Turning movement.

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	0					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	NDL	VVDIX	<b>↑</b> ↑	NDK *	JDL Š	<b>↑</b> ↑
Traffic Vol, veh/h	0	0	<b>TT</b>	0	0	<b>TT</b>
Future Vol, veh/h	0	0	0	0	0	0
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	160	_	400	310	-
Veh in Median Storage		-	0	-	-	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	0	0	0	0	0	0
IVIVIIIL I IUW	U	U	U	U	U	U
Major/Minor 1	Minor1	N	/lajor1	Λ	/lajor2	
Conflicting Flow All	1	0	0	0	0	0
Stage 1	0	-	-	-	-	-
Stage 2	1	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.24	-
Pot Cap-1 Maneuver	1021	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	1022	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1021	-	-	-	-	-
Mov Cap-2 Maneuver	1021	-	-	-	-	-
Stage 1	_	-	_	-	_	-
Stage 2	1022	_	_	-	_	-
5 12 gt _						
	MD		ND		CD.	
Approach	WB		NB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	Α					
Minor Lane/Major Mvm	t	NBT	NBRV	VBLn1W	/BLn2	SBL
Capacity (veh/h)				_	_	
HCM Lane V/C Ratio		_	_	_	_	_
HCM Control Delay (s)		_	_	0	0	0
HCM Lane LOS		_	_	A	A	A
HCM 95th %tile Q(veh)		_	_		-	
Holvi 75th 70the Q(VeH)		_		_		_

## **Appendix K**

Build Conditions Synchro Intersection Analysis
Outputs

Intersection						
Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>^</b>	- 7		<b>^</b>	¥	
Traffic Vol, veh/h	790	19	11	1114	49	21
Future Vol, veh/h	790	19	11	1114	49	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	225	240	-	0	-
Veh in Median Storage	, # 0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	832	20	12	1173	52	22
WWW. Tiow	002	20	12	1170	02	
	/lajor1	N	/lajor2	1	Minor1	
Conflicting Flow All	0	0	852	0	1443	416
Stage 1	-	-	-	-	832	-
Stage 2	-	-	-	-	611	-
Critical Hdwy	-	-	4.18	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.24	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	770	-	123	585
Stage 1	_	_	, 5	_	388	-
Stage 2	_		-	-	504	_
Platoon blocked, %	_				507	
Mov Cap-1 Maneuver	-	-	770	-	121	585
	-	-				
Mov Cap-2 Maneuver	-	-	-	-	253	-
Stage 1	-	-	-	-	388	-
Stage 2	-	-	-	-	496	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		20.5	
HCM LOS	U		0.1		C	
HOW LOS					C	
Minor Lane/Major Mvm	t N	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		305	_	-	770	-
HCM Lane V/C Ratio		0.242	-	-	0.015	-
HCM Control Delay (s)		20.5	-	-	9.7	-
HCM Lane LOS		C	_	_	A	_
HCM 95th %tile Q(veh)		0.9	_		0	_
110W 73W 70WE Q(VEH)		0.7			U	_

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	<b>/</b>	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	7	₽			र्स	7
Traffic Volume (veh/h)	114	649	30	20	866	126	60	40	20	86	2	173
Future Volume (veh/h)	114	649	30	20	866	126	60	40	20	86	2	173
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	139	791	37	24	1056	154	73	49	24	105	2	211
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	392	1896	846	436	1689	753	133	172	84	237	4	230
Arrive On Green	0.10	0.54	0.54	0.04	0.48	0.48	0.14	0.14	0.14	0.14	0.14	0.14
Sat Flow, veh/h	1753	3497	1560	1753	3497	1560	1168	1185	581	976	25	1585
Grp Volume(v), veh/h	139	791	37	24	1056	154	73	0	73	107	0	211
Grp Sat Flow(s),veh/h/ln	1753	1749	1560	1753	1749	1560	1168	0	1766	1001	0	1585
Q Serve(g_s), s	2.7	10.0	8.0	0.5	16.7	4.2	2.3	0.0	2.7	5.7	0.0	9.8
Cycle Q Clear(g_c), s	2.7	10.0	8.0	0.5	16.7	4.2	10.8	0.0	2.7	8.5	0.0	9.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.33	0.98		1.00
Lane Grp Cap(c), veh/h	392	1896	846	436	1689	753	133	0	256	241	0	230
V/C Ratio(X)	0.35	0.42	0.04	0.06	0.63	0.20	0.55	0.00	0.29	0.44	0.00	0.92
Avail Cap(c_a), veh/h	403	1896	846	551	1689	753	133	0	256	241	0	230
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	9.7	10.1	8.0	8.7	14.3	11.1	36.7	0.0	28.4	32.2	0.0	31.4
Incr Delay (d2), s/veh	0.4	0.7	0.1	0.0	1.8	0.6	4.8	0.0	0.6	0.5	0.0	37.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.4	5.8	0.4	0.3	9.8	2.4	2.7	0.0	2.1	3.4	0.0	10.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.1	10.8	8.1	8.8	16.0	11.7	41.5	0.0	29.0	32.6	0.0	68.8
LnGrp LOS	В	В	Α	Α	В	В	D	Α	С	С	Α	<u> </u>
Approach Vol, veh/h		967			1234			146			318	
Approach Delay, s/veh		10.6			15.4			35.2			56.6	
Approach LOS		В			В			D			Е	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.6	47.9		16.0	15.1	43.5		16.0				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	36.0		* 11	8.0	36.0		* 11				
Max Q Clear Time (g_c+l1), s	2.5	12.0		11.8	4.7	18.7		12.8				
Green Ext Time (p_c), s	0.0	9.8		0.0	0.1	11.3		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			19.6									
HCM 6th LOS			В									

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	2.1					
Movement	NWL	NWR	NET	NER	C/V/I	SWT
			NET		SWL	
Lane Configurations	<u>ነ</u>	7	<b>^</b>	7	<b>\</b>	<b>^</b>
Traffic Vol, veh/h	92	92	741	55	31	613
Future Vol, veh/h	92	92	741	55	31	613
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	0	-	295	390	-
Veh in Median Storage	e,# 1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mvmt Flow	97	97	780	58	33	645
N.A. '. /N.A'	NA: 4				4 1 0	
	Minor1		/lajor1		Major2	
Conflicting Flow All	1169	390	0	0	838	0
Stage 1	780	-	-	-	-	-
Stage 2	389	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.24	-
Pot Cap-1 Maneuver	186	609	-	-	779	-
Stage 1	412	-	-	-	-	-
Stage 2	654	-	-	-	-	-
Platoon blocked, %			_	-		_
Mov Cap-1 Maneuver	178	609	_	_	779	_
Mov Cap-2 Maneuver	303	-	_	_	-	_
Stage 1	412	_	_	_	_	
Stage 2	627	_			_	_
Staye 2	027		-			-
Approach	NW		NE		SW	
HCM Control Delay, s	17.2		0		0.5	
HCM LOS	С					
NA: 1 /NA: NA		NIET	NIEDA	NA/I 48	WA/I O	CVA/I
Minor Lane/Major Mvn	nt	NET	NERN	IWLn1N		SWL
Capacity (veh/h)		-	-	303	609	779
HCM Lane V/C Ratio		-	-		0.159	
HCM Control Delay (s)	)	-	-	22.4	12	9.8
HCM Lane LOS		-	-	С	В	Α
HCM 95th %tile Q(veh	1)	-	-	1.3	0.6	0.1

	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		<b>^</b>			<b>^</b>	7	ሻ	<b>†</b>	7		4	7
Traffic Volume (veh/h)	57	659	0	0	671	40	0	0	0	124	0	202
Future Volume (veh/h)	57	659	0	0	671	40	0	0	0	124	0	202
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	10/1	No	0	0	No	1041	1070	No	1070	1070	No	1070
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h Peak Hour Factor	60 0.95	694 0.95	0 0.95	0 0.95	706 0.95	42 0.95	0.95	0 0.95	0.95	131 0.95	0 0.95	213 0.95
Percent Heavy Veh, %	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Cap, veh/h	542	2578	0	0	2119	945	1	2	1	274	0	244
Arrive On Green	0.07	0.74	0.00	0.00	0.61	0.61	0.00	0.00	0.00	0.15	0.00	0.15
Sat Flow, veh/h	1753	3589	0.00	0.00	3589	1560	1781	1870	1585	1781	0.00	1585
Grp Volume(v), veh/h	60	694	0	0	706	42	0	0	0	131	0	213
Grp Sat Flow(s), veh/h/ln	1753	1749	0	0	1749	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	1.3	7.8	0.0	0.0	12.0	1.3	0.0	0.0	0.0	8.1	0.0	15.8
Cycle Q Clear(g_c), s	1.3	7.8	0.0	0.0	12.0	1.3	0.0	0.0	0.0	8.1	0.0	15.8
Prop In Lane	1.00		0.00	0.00	12.0	1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	542	2578	0	0	2119	945	1	2	1	274	0	244
V/C Ratio(X)	0.11	0.27	0.00	0.00	0.33	0.04	0.00	0.00	0.00	0.48	0.00	0.87
Avail Cap(c_a), veh/h	562	2578	0	0	2119	945	445	468	396	341	0	304
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.7	5.2	0.0	0.0	11.7	9.6	0.0	0.0	0.0	46.4	0.0	49.6
Incr Delay (d2), s/veh	0.1	0.3	0.0	0.0	0.4	0.1	0.0	0.0	0.0	1.3	0.0	20.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.7	3.9	0.0	0.0	7.5	0.8	0.0	0.0	0.0	6.6	0.0	12.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	6.7	5.4	0.0	0.0	12.1	9.7	0.0	0.0	0.0	47.7	0.0	69.7
LnGrp LOS	A	A	A	A	В	A	A	<u>A</u>	A	D	Α	<u>E</u>
Approach Vol, veh/h		754			748			0			344	
Approach Delay, s/veh		5.5			12.0			0.0			61.3	
Approach LOS		А			В						Е	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		95.5		24.5	15.7	79.8		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		47.9		23.0	10.0	30.8		30.0				
Max Q Clear Time (g_c+I1), s		9.8		17.8	3.3	14.0		0.0				
Green Ext Time (p_c), s		9.3		0.7	0.0	7.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			18.5									
HCM 6th LOS			В									

Int Delay, s/veh  1.5  Movement  EBL EBT EBR WBL WBT WBR NBL NBT NBR SBL SBT SBR
Lane Configurations
Traffic Vol, veh/h 13 0 7 48 0 40 2 804 29 24 593 6
Future Vol, veh/h 13 0 7 48 0 40 2 804 29 24 593 6
Conflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0
Sign Control Stop Stop Stop Stop Stop Free Free Free Free Free Free
RT Channelized None None None
Storage Length 240 - 300 425
Veh in Median Storage, # - 1 1 0 0 -
Grade, % - 0 0 0 -
Peak Hour Factor 95 95 95 95 95 95 95 95 95 95 95
Heavy Vehicles, % 2 2 2 2 2 4 4 4 4 4 4 4
Mvmt Flow 14 0 7 51 0 42 2 846 31 25 624 6
Major/Minor Minor2 Minor1 Major1 Major2
Conflicting Flow All 1104 1558 315 1212 1530 423 630 0 0 877 0 0
Stage 1 677 677 - 850 850
Stage 2 427 881 - 362 680
Critical Hdwy 7.54 6.54 6.94 7.54 6.54 6.94 4.18 4.18 -
Critical Hdwy Stg 1 6.54 5.54 - 6.54 5.54
Critical Hdwy Stg 2 6.54 5.54 - 6.54 5.54
Follow-up Hdwy 3.52 4.02 3.32 3.52 4.02 3.32 2.24 2.24 -
Pot Cap-1 Maneuver 166 111 681 138 116 579 935 753
Stage 1 409 450 - 322 375
Stage 2 576 363 - 629 449
Platoon blocked, %
Mov Cap-1 Maneuver 150 107 681 133 112 579 935 753 -
Mov Cap-2 Maneuver 274 221 - 244 234
Stage 1 408 435 - 321 374
Stage 2 533 362 - 602 434
Approach EB WB NB SB
HCM Control Delay, s 16.1 20 0 0.4
HCM LOS C C
TICW LOS
Minor Long/Major Mumt NDL NDT NDD FDL 51MDL 51 CDT CDD
Minor Lane/Major Mvmt NBL NBT NBR EBLn1WBLn1 SBL SBT SBR
Capacity (veh/h) 935 346 331 753
HCM Lane V/C Ratio 0.002 0.061 0.28 0.034
HCM Control Delay (s) 8.9 16.1 20 9.9
HCM Lane LOS A C C A
HCM 95th %tile Q(veh) 0 0.2 1.1 0.1

ane Configurations		>	-	$\mathbf{x}$	4	•	*	
riaffic Volume (veh/h)	Movement	EBL	EBR	SET	SER	NWL	NWT	
riaffic Volume (veh/h)		75	##	<b>^</b>	111	**	<b>^</b>	
ruture Volume (veh/h)								
nitial Q (Qb), veh	Future Volume (veh/h)							
Ped-Bike Adj(A_pbT)	, ,							
Parking Bus, Adj	Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Nork Zone On Ápproach No  Not Stow, veh/huln 1841 1841 1841 1841 1841 1841 1841 184	Parking Bus, Adj			1.00			1.00	
Mg   Sat Flow, veh/h/ln   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   1841   44	Work Zone On Approach			No			No	
Neak Hour Factor   Neak Hour F	Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Peak Hour Factor	Adj Flow Rate, veh/h				185		1873	
Percent Heavy Veh, %	Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Cap, veh/h         587         956         2142         1170         597         3404           Arrive On Green         0.17         0.17         0.43         0.43         0.18         0.68           Sate Flow, veh/h         3401         2745         5191         2745         3401         5191           Sarp Sat Flow(s), veh/h/h         508         424         763         185         531         1873           Sarp Sat Flow(s), veh/h/h         1700         1373         1675         1373         1700         1675           Quele C Clear(g_c), s         13.1         10.7         9.2         3.7         13.7         17.2           Orop In Lane         1.00         1.00         1.00         1.00         1.00           Arm Gar Cap(c), veh/h         587         956         2142         1170         597         3404           Aric Ratio(X)         0.87         0.44         0.36         0.16         0.89         0.55           Avail Cap(c_a), veh/h         616         979         2142         1170         612         3404           HCM Platon Ratio         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00	Percent Heavy Veh, %			4	4	4	4	
Arrive On Green 0.17 0.17 0.43 0.43 0.18 0.68 at Flow, veh/h 3401 2745 5191 2745 3401 5191 5191 5191 5191 5191 5191 5191 51	Cap, veh/h							
Sat Flow, veh/h 3401 2745 5191 2745 3401 5191  Sarp Volume(v), veh/h 508 424 763 185 531 1873  Sarp Sat Flow(s), veh/h/ln 1700 1373 1675 1373 1700 1675  Sa Serve(g_s), s 13.1 10.7 9.2 3.7 13.7 17.2  Sycle Q Clear(g_c), s 13.1 10.7 9.2 3.7 13.7 17.2  Sycle Q Clear(g_c), s 13.1 10.7 9.2 3.7 13.7 17.2  Sycle Q Clear(g_c), veh/h 587 956 2142 1170 597 3404  I/C Ratio(X) 0.87 0.44 0.36 0.16 0.89 0.55  I/C Ratio(X) 0.87 0.44 0.36 0.16 0.89 0.55  I/C Ratio(X) 1.00 1.00 1.00 1.00  Inform Delay (d), s/veh 36.2 22.6 17.5 15.9 36.2 7.5  Incr Delay (d2), s/veh 11.7 0.2 0.5 0.3 14.2 0.6  Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0  Initig. Movement Delay, s/veh  InGrp Delay(d), s/veh 47.9 22.9 17.9 16.2 50.5 8.1  InGrp Delay(d), s/veh 36.5 17.6 17.5  Ingr Delay(d), s/veh 36.5 17.6 17.5  Ingr Delay, s/veh 36.5 17.6 17.5  Ingr Delay, s/veh 36.5 17.6 17.5  Ingr Delay, s/veh 36.5 17.6 17.5  Ingr Assigned Phs 1 2 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Phs 1 2 6 6 8  Imer - Assigned Priod (Y+Rc), s 6.8 6.8 6.8 6.7  India Q Clear Time (g_c+l1), s 15.7 11.2 19.2 15.1	Arrive On Green							
Strong   Volume(v), veh/h   508   424   763   185   531   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873   1873	Sat Flow, veh/h							
Sarp Sat Flow(s), veh/h/ln								
Serve(g_s), s								
Cycle Q Clear(g_c), s								
Prop In Lane 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0								
Arane Grp Cap(c), veh/h  S87  956  2142  1170  597  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3404  3406  3406  3407  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3404  3404  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  3408  34	(6- )							
AVC Ratio(X)       0.87       0.44       0.36       0.16       0.89       0.55         Avail Cap(c_a), veh/h       616       979       2142       1170       612       3404         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       1.00       1.00       1.00       1.00       1.00       1.00         Uniform Delay (d), s/veh       36.2       22.6       17.5       15.9       36.2       7.5         ncr Delay (d2), s/veh       11.7       0.2       0.5       0.3       14.2       0.6         nitial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0         ielle BackOfQ(95%),veh/ln       9.9       5.6       6.0       2.0       10.7       8.2         Unsig. Movement Delay, s/veh       47.9       22.9       17.9       16.2       50.5       8.1         nGrp Dols Vol, veh/h       932       948       2404         Approach Vol, veh/h       932       948       2404         Approach LOS       D       B       B         Piss Duration (G+Y+Rc), s       22.6       45.2       67.8       22.2 <t< td=""><td></td><td></td><td></td><td>2142</td><td></td><td></td><td>3404</td><td></td></t<>				2142			3404	
Avail Cap(c_a), veh/h  G16 979 2142 1170 G12 3404  GM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00  Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00  Uniform Delay (d), s/veh 36.2 22.6 17.5 15.9 36.2 7.5  Incr Delay (d2), s/veh 11.7 0.2 0.5 0.3 14.2 0.6  Initial Q Delay(d3), s/veh 0.0 0.0 0.0 0.0 0.0 0.0  Initial Q Delay(d95%), veh/ln 9.9 5.6 6.0 2.0 10.7 8.2  Unsig. Movement Delay, s/veh  InGrp Delay(d), s/veh 47.9 22.9 17.9 16.2 50.5 8.1  InGrp LOS D C B B D A  Improach Vol, veh/h 932 948 2404  Approach Vol, veh/h 932 948 2404  Approach LOS D B B B  Immer - Assigned Phs 1 2 6 8  Phs Duration (G+Y+Rc), s 22.6 45.2 67.8 22.2  Change Period (Y+Rc), s 6.8 6.8 6.8 6.8  Index Green Setting (Gmax), s 16.2 37.2  Index Q Clear Time (g_c+I1), s 15.7 11.2 19.2 15.1								
ACM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	. ,							
Destream Filter(I)	1 ( = )							
### Drifform Delay (d), s/veh								
ncr Delay (d2), s/veh 11.7 0.2 0.5 0.3 14.2 0.6 nitial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 6ile BackOfQ(95%),veh/ln 9.9 5.6 6.0 2.0 10.7 8.2 Unsig. Movement Delay, s/veh anGrp Delay(d),s/veh 47.9 22.9 17.9 16.2 50.5 8.1 anGrp LOS D C B B D A Approach Vol, veh/h 932 948 2404 Approach Delay, s/veh 36.5 17.6 17.5 Approach LOS D B B  Filmer - Assigned Phs 1 2 6 8 Phs Duration (G+Y+Rc), s 22.6 45.2 67.8 22.2 Change Period (Y+Rc), s 6.8 6.8 6.8 6.7 Max Green Setting (Gmax), s 16.2 37.2 60.2 16.3 Max Q Clear Time (g_c+I1), s 15.7 11.2 19.2 15.1								
nitial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.								
Mile BackOfQ(95%),veh/ln       9.9       5.6       6.0       2.0       10.7       8.2         Unsig. Movement Delay, s/veh       47.9       22.9       17.9       16.2       50.5       8.1         UnGrp LOS       D       C       B       B       D       A         Approach Vol, veh/h       932       948       2404         Approach Delay, s/veh       36.5       17.6       17.5         Approach LOS       D       B       B         Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s       22.6       45.2       67.8       22.2         Change Period (Y+Rc), s       6.8       6.8       6.7         Max Green Setting (Gmax), s       16.2       37.2       60.2       16.3         Max Q Clear Time (g_c+I1), s       15.7       11.2       19.2       15.1	• ( ).							
Unsig. Movement Delay, s/veh UnGrp Delay(d),s/veh UnGrp Delay(d),s/veh UnGrp LOS Under								
Approach Vol, veh/h Approach LOS  D C B B D A Approach Vol, veh/h Approach LOS  D B B B A Approach LOS  D B B B A Approach LOS  D B Approach LOS  B Approach LOS  D B Approach LOS  B B Approach LOS  B Approach LOS  B B B Approach LOS  B B Approach LOS  B B B Approach LOS  B B B Approach LOS  B B Approach LOS  B B B B B Approach LOS  B B B B B Approach LOS  B B B B B B B B B B B B B B B B B B			0.0	0.0			V	
D C B B D A   Supproach Vol, veh/h   932   948   2404   Supproach Delay, s/veh   36.5   17.6   17.5   Supproach LOS   D B B   B   Supproach LOS   D B B   Supproach LOS   D B B B   Supproach LOS   D B B B B B B B B B B B B B B B B B B			22.9	17.9	16.2	50.5	8.1	
Approach Vol, veh/h 932 948 2404 Approach Delay, s/veh 36.5 17.6 17.5 Approach LOS D B B  Fimer - Assigned Phs 1 2 6 8 Phs Duration (G+Y+Rc), s 22.6 45.2 67.8 22.2 Change Period (Y+Rc), s 6.8 6.8 6.7 Max Green Setting (Gmax), s 16.2 37.2 60.2 16.3 Max Q Clear Time (g_c+l1), s 15.7 11.2 19.2 15.1								
Approach Delay, s/veh 36.5 17.6 17.5 Approach LOS D B B  Timer - Assigned Phs 1 2 6 8  Phs Duration (G+Y+Rc), s 22.6 45.2 67.8 22.2  Change Period (Y+Rc), s 6.8 6.8 6.8 6.7  Max Green Setting (Gmax), s 16.2 37.2 60.2 16.3  Max Q Clear Time (g_c+I1), s 15.7 11.2 19.2 15.1								
Approach LOS D B B  Timer - Assigned Phs 1 2 6 8  Phs Duration (G+Y+Rc), s 22.6 45.2 67.8 22.2  Change Period (Y+Rc), s 6.8 6.8 6.8 6.7  Max Green Setting (Gmax), s 16.2 37.2 60.2 16.3  Max Q Clear Time (g_c+I1), s 15.7 11.2 19.2 15.1								
Timer - Assigned Phs       1       2       6       8         Phs Duration (G+Y+Rc), s       22.6       45.2       67.8       22.2         Change Period (Y+Rc), s       6.8       6.8       6.7         Max Green Setting (Gmax), s       16.2       37.2       60.2       16.3         Max Q Clear Time (g_c+l1), s       15.7       11.2       19.2       15.1								
Phs Duration (G+Y+Rc), s 22.6 45.2 67.8 22.2 Change Period (Y+Rc), s 6.8 6.8 6.7 Max Green Setting (Gmax), s 16.2 37.2 60.2 16.3 Max Q Clear Time (g_c+l1), s 15.7 11.2 19.2 15.1		4	0				_	0
Change Period (Y+Rc), s       6.8       6.8       6.7         Max Green Setting (Gmax), s       16.2       37.2       60.2       16.3         Max Q Clear Time (g_c+l1), s       15.7       11.2       19.2       15.1		1						
Max Green Setting (Gmax), s       16.2       37.2       60.2       16.3         Max Q Clear Time (g_c+l1), s       15.7       11.2       19.2       15.1								
Max Q Clear Time (g_c+l1), s 15.7 11.2 19.2 15.1								
Green Ext Time (p_c), s U.1 7.2 23.3 0.5	Green Ext Time (p_c), s	0.1	7.2				23.3	0.5
,	Intersection Summary							
ICM 6th Ctrl Delay 21.6	HCM 6th Ctrl Delay			21.6				
HCM 6th LOS C	HCM 6th LOS			С				

Intersection						
Int Delay, s/veh	0					
		CDT	MOT	MED	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ሻ	<b>^</b>	<b>^</b>	•	7	7
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	_ 0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	-	0	0
Veh in Median Storage,	, # -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor N	/lajor1	N	Major2	N	/linor2	
		0		0		1
Conflicting Flow All	1		-		1	
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	- ( 0.4
Critical Hdwy	4.18	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	2.24	-	-	-	3.52	3.32
Pot Cap-1 Maneuver	1606	-	-	0	1021	1083
Stage 1	-	-	-	0	1022	-
Stage 2	-	-	-	0	-	-
Platoon blocked, %		-	-			
Mov Cap-1 Maneuver	1606	-	-	-	1021	1083
Mov Cap-2 Maneuver	-	-	-	-	933	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvmt	t	EBL	EBT	WBT S	SBLn1 S	SBLn2
Capacity (veh/h)		1606	-	_	-	_
HCM Lane V/C Ratio		-		_		_
HCM Control Delay (s)		0	_	-	0	0
HCM Lane LOS		A	_	_	A	A
HCM 95th %tile Q(veh)		0	_	_	-	- '.
110W 70W 70W Q(VCH)		- 0				

Movement EE  Lane Configurations  Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr	1.1 BT EB				
Movement EE  Lane Configurations  Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr					
Lane Configurations Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr	BT EB		=		
Traffic Vol, veh/h Future Vol, veh/h Conflicting Peds, #/hr			WBT	NBL	NBR
Future Vol, veh/h 79 Conflicting Peds, #/hr		* ħ	<b>^</b>	- ሽ	7
Conflicting Peds, #/hr		5 32	643	30	66
		5 32	643	30	66
		0 0	0	0	0
	ee Fre	e Free	Free	Stop	Stop
RT Channelized	- Non	e -	None	-	None
Storage Length	- 40	0 415	-	0	0
Veh in Median Storage, #	0		0	1	-
Grade, %	0		0	0	-
	95 9	5 95	95	95	95
Heavy Vehicles, %		4 4	4	2	2
		5 34	677	32	69
	<b>.</b>		0	02	0,
Major/Minor Majo		Major2		Minor1	
Conflicting Flow All	0	0 842	0	1244	419
Stage 1	-		-	837	-
Stage 2	-		-	407	-
Critical Hdwy	-	- 4.18	-	6.84	6.94
Critical Hdwy Stg 1	-		-	5.84	-
Critical Hdwy Stg 2	-		-	5.84	-
Follow-up Hdwy	-	- 2.24	-	3.52	3.32
Pot Cap-1 Maneuver	-	- 777	-	166	583
Stage 1	-		-	385	-
Stage 2	_		-	641	_
Platoon blocked, %	_	_	_	011	
	_	- 777	_	159	583
			-		505
Mov Cap-1 Maneuver	_			/× <	_
Mov Cap-1 Maneuver Mov Cap-2 Maneuver	-			283	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1	-		-	385	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver	-	 			
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1	-		-	385	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2	-		-	385	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach	- - EB	 - WB	-	385 613 NB	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach HCM Control Delay, s	-		-	385 613	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach	- - EB	 - WB	-	385 613 NB 14.3	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS	- - EB 0	WB 0.5	-	385 613 NB 14.3 B	-
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt	EB 0 NBLn	WB 0.5	-	385 613 NB 14.3	- - WBL
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h)	- - 0 - - - - - - - - - - - - - - - - -	WB 0.5 1 NBLn2 3 583	-	385 613 NB 14.3 B	WBL
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	- - 0 NBLn 28 0.11	WB 0.5  1 NBLn2 3 583 2 0.119	EBT	385 613 NB 14.3 B	WBL 777 0.043
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	- - 0 NBLn 28 0.11	WB 0.5  1 NBLn2 3 583 2 0.119 3 12	EBT	385 613 NB 14.3 B	WBL
Mov Cap-1 Maneuver Mov Cap-2 Maneuver Stage 1 Stage 2  Approach HCM Control Delay, s HCM LOS  Minor Lane/Major Mvmt Capacity (veh/h) HCM Lane V/C Ratio	- - 0 NBLn 28 0.11	WB 0.5  1 NBLn2 3 583 2 0.119	EBT	385 613 NB 14.3 B	WBL 777 0.043

Movement   EBL   EBT   EBR   WBL   WBT   WBR   NBL   NBT   NBR   SBL   SBT   SBR   SBL   SBR   SBK   Sak   SBK   SK   SK   SK   SK   SK   SK   S	Intersection												
Lane Configurations		3.4											
Lane Configurations	Movement	FRI	FRT	FRR	WRI	WRT	WRR	NRI	NRT	NRR	SRI	SRT	SBR
Traffic Vol, veh/h								IVDL		NDIX		<u> </u>	
Future Vol, veh/h         40         684         19         13         790         28         32         4         38         60         0         189           Conflicting Peds, #/hr         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         <								32		38		0	
Conflicting Peds, #/hr   O   O   O   O   O   O   O   O   O												0	
Sign Control         Free Rree         Free Rree Rree Rree Rree Rree Rree Rree	·												
Storage Length         460         -         250         345         -         400         -         -         0         -         0         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         -         1         -         -         1         -         -         1         -         -         1         -         -         1         -         -         1         -         -         1         -         -         1         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95		Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
Weh in Median Storage, #         0         -         -         0         -         -         1         -         1         -         1         -         1         -         1         -         0         -         0         -         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95	RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Grade, %         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         -         -         0         0         -         -         0         0         -         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4<	Storage Length	460	-	250	345	-	400	-	-	-	0	-	0
Peak Hour Factor         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95	Veh in Median Storage,	# -	0	-	-	0	-	-	1	-	-	1	-
Heavy Vehicles, %         4         4         4         4         4         4         4         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         3         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4													
Momt Flow         42         720         20         14         832         29         34         4         40         63         0         199           Major/Minor         Major1         Major2         Minor1         Minor2           Conflicting Flow All         861         0         0         740         0         0         1248         1693         360         1306         -         416           Stage 1         -         -         -         -         -         804         804         -         860         -         -           Stage 2         -         -         -         -         -         444         889         -         446         -         -           Critical Hdwy         4.18         -         -         4.18         -         -         7.54         6.54         6.94         7.54         -         6.94           Critical Hdwy Stg 1         -         -         -         -         -         6.54         5.54         -         6.54         -         -         -         Critical Hdwy Stg 2         -         -         -         -         -         6.54         5.54         -         6.54		95	95	95	95	95	95	95	95				
Major/Minor         Major1         Major2         Minor1         Minor2           Conflicting Flow All         861         0         0         740         0         0         1248         1693         360         1306         -         416           Stage 1         -         -         -         -         804         804         -         860         -         -           Stage 2         -         -         -         -         444         889         -         446         -         -           Critical Hdwy         4.18         -         4.18         -         -         7.54         6.54         6.94         7.54         -         6.94           Critical Hdwy Stg 1         -         -         -         -         -         6.54         5.54         -         6.54         -         -           Critical Hdwy Stg 2         -         -         -         -         -         6.54         5.54         -         6.54         -         -           Follow-up Hdwy         2.24         -         2.24         -         3.52         4.02         3.32         3.52         -         3.32           Stage 1	3												
Conflicting Flow All 861 0 0 740 0 0 1248 1693 360 1306 - 416  Stage 1 804 804 - 860  Stage 2 444 889 - 446  Critical Hdwy 4.18 4.18 - 7.54 6.54 6.94 7.54 - 6.94  Critical Hdwy Stg 1 6.54 5.54 - 6.54  Critical Hdwy Stg 2 6.54 5.54 - 6.54  Follow-up Hdwy 2.24 - 2.24 - 3.52 4.02 3.32 3.52 - 3.32  Pot Cap-1 Maneuver 764 - 849 - 130 92 637 117 0 585  Stage 1 343 394 - 317 0 -   Stage 2 563 360 - 561 0 -   Platoon blocked, % 185 366 637 102 - 585  Mov Cap-2 Maneuver 764 - 849 - 181 86 637 102 - 585  Mov Cap-2 Maneuver 764 - 849 - 185 194 - 211  Stage 1 324 372 - 300  Stage 2 365 354 - 491  Stage 2 365 354 - 491	Mvmt Flow	42	720	20	14	832	29	34	4	40	63	0	199
Conflicting Flow All 861 0 0 740 0 0 1248 1693 360 1306 - 416  Stage 1 804 804 - 860  Stage 2 444 889 - 446  Critical Hdwy 4.18 4.18 7.54 6.54 6.94 7.54 - 6.94  Critical Hdwy Stg 1 6.54 5.54 - 6.54  Critical Hdwy Stg 2 6.54 5.54 - 6.54  Critical Hdwy Stg 2 6.54 5.54 - 6.54  Follow-up Hdwy 2.24 - 2.24 - 3.52 4.02 3.32 3.52 - 3.32  Pot Cap-1 Maneuver 764 - 849 - 130 92 637 117 0 585  Stage 1 343 394 - 317 0 -   Stage 2 563 360 - 561 0 -   Platoon blocked, % 185 360 - 561 0 -   Mov Cap-1 Maneuver 764 - 849 - 81 86 637 102 - 585  Mov Cap-2 Maneuver 185 194 - 211   Stage 1 324 372 - 300   Stage 2 365 354 - 491													
Stage 1       -       -       -       -       804       804       -       860       -       -         Stage 2       -       -       -       -       444       889       -       446       -       -         Critical Hdwy       4.18       -       -       4.18       -       7.54       6.54       6.94       7.54       -       6.94         Critical Hdwy Stg 1       -       -       -       -       6.54       5.54       -       6.54       -       -         Critical Hdwy Stg 2       -       -       -       -       6.54       5.54       -       6.54       -       -         Critical Hdwy Stg 2       -       -       -       -       6.54       5.54       -       6.54       -       -         Follow-up Hdwy       2.24       -       2.24       -       3.52       4.02       3.32       3.52       -       3.32         Pot Cap-1 Maneuver       764       -       849       -       130       92       637       117       0       585         Mov Cap-1 Maneuver       764       -       849       -       81       86       637 <td>Major/Minor M</td> <td>lajor1</td> <td></td> <td>P</td> <td>Major2</td> <td></td> <td>N</td> <td>/linor1</td> <td></td> <td>1</td> <td>Minor2</td> <td></td> <td></td>	Major/Minor M	lajor1		P	Major2		N	/linor1		1	Minor2		
Stage 2       -       -       -       -       444       889       -       446       -       -         Critical Hdwy       4.18       -       -       4.18       -       7.54       6.54       6.94       7.54       -       6.94         Critical Hdwy Stg 1       -       -       -       -       6.54       5.54       -       6.54       -       -         Critical Hdwy Stg 2       -       -       -       -       6.54       5.54       -       6.54       -       -         Follow-up Hdwy       2.24       -       2.24       -       3.52       4.02       3.32       3.52       -       3.32         Pot Cap-1 Maneuver       764       -       849       -       130       92       637       117       0       585         Stage 2       -       -       -       -       -       343       394       -       317       0       -         Platoon blocked, %       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Conflicting Flow All	861	0	0	740	0	0	1248	1693	360	1306	-	416
Critical Hdwy Stg 1 4.18 7.54 6.54 6.94 7.54 - 6.94 Critical Hdwy Stg 1 6.54 5.54 - 6.54 Critical Hdwy Stg 2 6.54 5.54 - 6.54 Follow-up Hdwy 2.24 - 2.24 - 3.52 4.02 3.32 3.52 - 3.32 Pot Cap-1 Maneuver 764 - 849 - 130 92 637 117 0 585 Stage 1 343 394 - 317 0 - Stage 2 563 360 - 561 0 - Platoon blocked, %  Mov Cap-1 Maneuver 764 - 849 - 81 86 637 102 - 585 Mov Cap-2 Maneuver 185 194 - 211 Stage 1 324 372 - 300 Stage 2 365 354 - 491	Stage 1	-	-	-	-	-	-	804	804	-	860	-	-
Critical Hdwy Stg 1       -       -       -       -       6.54       5.54       -       6.54       -       -         Critical Hdwy Stg 2       -       -       -       -       6.54       5.54       -       6.54       -       -         Follow-up Hdwy       2.24       -       2.24       -       3.52       4.02       3.32       3.52       -       3.32         Pot Cap-1 Maneuver       764       -       849       -       130       92       637       117       0       585         Stage 1       -       -       -       -       -       343       394       -       317       0       -         Stage 2       -       -       -       -       -       563       360       -       561       0       -         Platoon blocked, %       -       -       -       -       849       -       81       86       637       102       -       585         Mov Cap-1 Maneuver       764       -       849       -       81       86       637       102       -       585         Mov Cap-2 Maneuver       -       -       -       - <td< td=""><td>Stage 2</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>444</td><td></td><td></td><td>446</td><td>-</td><td>-</td></td<>	Stage 2	-	-	-	-	-	-	444			446	-	-
Critical Hdwy Stg 2 6.54 5.54 - 6.54 Follow-up Hdwy 2.24 - 2.24 - 3.52 4.02 3.32 3.52 - 3.32 Pot Cap-1 Maneuver 764 - 849 - 130 92 637 117 0 585 Stage 1 343 394 - 317 0 - Stage 2 563 360 - 561 0 - Platoon blocked, % 849 - 81 86 637 102 - 585 Mov Cap-1 Maneuver 764 - 849 - 81 86 637 102 - 585 Mov Cap-2 Maneuver 185 194 - 211 Stage 1 324 372 - 300 - Stage 2 365 354 - 491	•	4.18	-	-	4.18	-	-			6.94		-	6.94
Follow-up Hdwy 2.24 - 2.24 - 3.52 4.02 3.32 3.52 - 3.32  Pot Cap-1 Maneuver 764 - 849 - 130 92 637 117 0 585  Stage 1 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 317 0 - 343 394 - 31		-	-	-	-	-	-			-		-	-
Pot Cap-1 Maneuver         764         -         849         -         130         92         637         117         0         585           Stage 1         -         -         -         -         343         394         -         317         0         -           Stage 2         -         -         -         -         563         360         -         561         0         -           Platoon blocked, %         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -			-	-	-	-	-					-	-
Stage 1       -       -       -       -       -       343       394       -       317       0       -         Stage 2       -       -       -       -       563       360       -       561       0       -         Platoon blocked, %       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <t< td=""><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			-	-		-	-						
Stage 2       -       -       -       -       563       360       -       561       0       -         Platoon blocked, %       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	•	764	-	-	849	-	-						585
Platoon blocked, %  849 - 81 86 637 102 - 585  Mov Cap-2 Maneuver 185 194 - 211  Stage 1 324 372 - 300  Stage 2 365 354 - 491		-	-	-	-	-	-						-
Mov Cap-1 Maneuver       764       -       -       849       -       -       81       86       637       102       -       585         Mov Cap-2 Maneuver       -       -       -       -       -       185       194       -       211       -       -         Stage 1       -       -       -       -       -       324       372       -       300       -       -         Stage 2       -       -       -       -       -       365       354       -       491       -       -		-	-	-	-			563	360	-	561	0	-
Mov Cap-2 Maneuver 185 194 - 211 Stage 1 324 372 - 300 Stage 2 365 354 - 491		7/4		-	0.40			01	0/	(07	100		F0F
Stage 1       -       -       -       -       -       324       372       -       300       -       -         Stage 2       -       -       -       -       365       354       -       491       -       -				-	849								585
Stage 2 365 354 - 491	· ·		-	-	-	-						-	-
	ū	-	-	-	-	-	-					-	-
Approach FB WB NB SB	Staye Z	-	-	-	-	-	-	303	334	-	471	-	_
Approach FB WB NB SB	A	E0.			VA CD			ND			C.D.		
	Approach												
HCM Control Delay, s 0.5 0.1 21.8 17.9		0.5			0.1								
HCM LOS C C	HCM LOS							C			C		
Minor Lane/Major Mvmt NBLn1 EBL EBT EBR WBL WBT WBR SBLn1 SBLn2	Minor Lane/Major Mvmt				EBT	EBR		WBT	WBR S				
Capacity (veh/h) 292 764 849 211 585					-			-					
HCM Lane V/C Ratio 0.267 0.055 0.016 0.299 0.34					-	-		-	-				
HCM Control Delay (s) 21.8 10 9.3 29.2 14.3					-	-		-	-				
HCM Lane LOS C A A D B					-				-				
HCM 95th %tile Q(veh) 1.1 0.2 0 1.2 1.5	HCM 95th %tile Q(veh)		1.1	0.2	-	-	0	-	-	1.2	1.5		

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	14.54	<b>^</b>	77	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	7	ሻሻ	^↑	77
Traffic Volume (veh/h)	648	99	360	110	140	132	573	618	136	84	305	492
Future Volume (veh/h)	648	99	360	110	140	132	573	618	136	84	305	492
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	682	104	379	116	147	139	603	651	143	88	321	518
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	628	795	1063	209	359	222	555	1617	817	134	1158	1420
Arrive On Green	0.19	0.23	0.23	0.06	0.10	0.10	0.16	0.46	0.46	0.04	0.33	0.33
Sat Flow, veh/h	3374	3497	2723	3401	3497	1560	3401	3497	1560	3401	3497	2745
Grp Volume(v), veh/h	682	104	379	116	147	139	603	651	143	88	321	518
Grp Sat Flow(s), veh/h/ln	1687	1749	1362	1700	1749	1560	1700	1749	1560	1700	1749	1373
Q Serve(g_s), s	24.2	3.1	12.8	4.3	5.1	10.9	21.2	16.0	6.2	3.3	8.8	14.6
Cycle Q Clear(g_c), s	24.2	3.1	12.8	4.3	5.1	10.9	21.2	16.0	6.2	3.3	8.8	14.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	628	795	1063	209	359	222	555	1617	817	134	1158	1420
V/C Ratio(X)	1.09	0.13	0.36	0.55	0.41	0.63	1.09	0.40	0.17	0.66	0.28	0.36
Avail Cap(c_a), veh/h	628	861	1114	241	457	266	555	1617	817	199	1158	1420
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.9	40.0	28.1	59.3	54.6	52.5	54.4	23.1	16.2	61.6	32.0	18.7
Incr Delay (d2), s/veh	61.5	0.1	0.2	2.3	0.7	3.4	64.0	0.7	0.5	5.3	0.6	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	22.7	2.4	7.4	3.4	4.0	7.8	20.7	10.7	4.0	2.7	6.7	8.1
Unsig. Movement Delay, s/veh		40.1	20.2	/1 /	FF 4	FF 0	110.4	22.0	1/7	// 0	22.7	10.4
LnGrp Delay(d),s/veh	114.4	40.1	28.3	61.6	55.4	55.9	118.4	23.8	16.7	66.9	32.6	19.4
LnGrp LOS	F	D	С	E	E	E	F	C	В	E	С	В
Approach Vol, veh/h		1165			402			1397			927	
Approach Delay, s/veh		79.7			57.3			63.9			28.5	
Approach LOS		Е			Е			E			С	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	29.0	49.8	14.8	36.4	11.9	66.9	31.0	20.2				
Change Period (Y+Rc), s	7.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8				
Max Green Setting (Gmax), s	21.2	39.4	9.2	32.0	7.6	54.0	24.2	17.0				
Max Q Clear Time (g_c+l1), s		16.6	6.3	14.8	5.3	18.0	26.2	12.9				
Green Ext Time (p_c), s	0.0	4.1	0.1	1.9	0.0	5.0	0.0	0.5				
Intersection Summary												
HCM 6th Ctrl Delay			59.5									
HCM 6th LOS			Е									
NI I												

User approved pedestrian interval to be less than phase max green. User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	0.6					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
						אטוו
Lane Configurations	<b>^</b>	<b>7</b>	77	<b>^</b>	<b>\</b>	10
Traffic Vol, veh/h	1125	51	23	759	25	19
Future Vol, veh/h	1125	51	23	759	25	19
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	225	240	-	0	-
Veh in Median Storage	, # 0	-	-	0	1	-
Grade, %	0		_	0	0	
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mymt Flow	1184	54	24	799	26	20
IVIVIIIL FIOW	1184	54	24	199	20	20
Major/Minor N	Major1	N	//ajor2	N	Minor1	
Conflicting Flow All	0		1238	0	1632	592
Stage 1	-	U	1230		1184	J7Z -
		-	-	-		
Stage 2	-	-	-	-	448	-
Critical Hdwy	-	-	4.18	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.24	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	547	-	92	449
Stage 1	-	-	-	-	253	-
Stage 2	_	_	_	_	611	_
Platoon blocked, %	-	_		_	011	
Mov Cap-1 Maneuver	_		547	_	88	449
		_			193	
Mov Cap-2 Maneuver	-	-	-	-		-
Stage 1	-	-	-	-	253	-
Stage 2	-	-	-	-	584	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		22.1	
3	U		0.3			
HCM LOS					С	
Minor Lane/Major Mvm	t ſ	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		256		-	547	-
HCM Lane V/C Ratio		0.181			0.044	_
			-			
HCM Control Delay (s)		22.1	-	-	11.9	-
HCM Lane LOS		С	-	-	В	-
HCM 95th %tile Q(veh)		0.6	-	-	0.1	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>	7	ሻ	<b>^</b>	7	Ť	<b>₽</b>			र्स	7
Traffic Volume (veh/h)	43	1068	26	24	728	14	26	0	5	28	0	47
Future Volume (veh/h)	43	1068	26	24	728	14	26	0	5	28	0	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	52	1302	32	29	888	17	32	0	6	34	0	57
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	461	1978	882	311	1897	846	205	0	164	241	0	164
Arrive On Green	0.07	0.57	0.57	0.05	0.54	0.54	0.10	0.00	0.10	0.10	0.00	0.10
Sat Flow, veh/h	1753	3497	1560	1753	3497	1560	1346	0	1585	1363	0	1585
Grp Volume(v), veh/h	52	1302	32	29	888	17	32	0	6	34	0	57
Grp Sat Flow(s), veh/h/ln	1753	1749	1560	1753	1749	1560	1346	0	1585	1363	0	1585
Q Serve(g_s), s	0.8	18.4	0.7	0.5	11.1	0.4	1.6	0.0	0.2	1.6	0.0	2.4
Cycle Q Clear(g_c), s	0.8	18.4	0.7	0.5	11.1	0.4	3.4	0.0	0.2	1.8	0.0	2.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00	0.0	1.00	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	461	1978	882	311	1897	846	205	0	164	241	0	164
V/C Ratio(X)	0.11	0.66	0.04	0.09	0.47	0.02	0.16	0.00	0.04	0.14	0.00	0.35
Avail Cap(c_a), veh/h	531	1978	882	421	1897	846	217	0	177	254	0.00	177
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.4	10.8	6.9	8.2	10.0	7.6	31.2	0.0	28.9	29.7	0.0	29.8
Incr Delay (d2), s/veh	0.1	1.7	0.1	0.1	0.8	0.0	0.4	0.0	0.1	0.1	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.4	9.6	0.3	0.3	6.3	0.2	0.9	0.0	0.2	1.0	0.0	1.6
Unsig. Movement Delay, s/veh		7.0	0.5	0.0	0.0	0.2	0.7	0.0	0.2	1.0	0.0	1.0
LnGrp Delay(d),s/veh	6.5	12.5	7.0	8.3	10.9	7.6	31.5	0.0	29.0	29.8	0.0	30.3
LnGrp LOS	Α	12.3 B	7.0 A	Α	В	7.0 A	C C	Α	27.0 C	27.0 C	Α	30.3 C
Approach Vol, veh/h		1386			934		C	38			91	
Approach Delay, s/veh		12.1			10.7			31.1			30.1	
Approach LOS		В			В			С			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.0	47.9		12.6	12.7	46.3		12.6				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	38.8		* 8	8.0	38.8		* 8				
Max Q Clear Time (g_c+I1), s	2.5	20.4		4.4	2.8	13.1		5.4				
Green Ext Time (p_c), s	0.0	13.3		0.0	0.0	11.4		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			12.6									
HCM 6th LOS			В									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	1.2					
Movement	NWL	NWR	NET	NER	SWL	SWT
Lane Configurations	invol.	7	<b>↑</b> ↑	TVLIX	うWL う	<b>↑</b> ↑
Traffic Vol, veh/h	41	<b>5</b> 3	<b>TT</b> 842	76	57	<b>TT</b> 777
Future Vol, veh/h	41	53	842	76	57	777
Conflicting Peds, #/hr	0	0	042	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	Jiop -	None	-	None	-	None
Storage Length	0	0	-	295	390	-
Veh in Median Storage		-	0	275	370	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	4	4	4	4
Mymt Flow	43	56	886	80	60	818
IVIVIIIL FIOW	43	50	000	00	00	010
Major/Minor 1	Minor1	N	/lajor1	1	Major2	
Conflicting Flow All	1415	443	0	0	966	0
Stage 1	886	-	-	-	-	-
Stage 2	529	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.18	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.24	-
Pot Cap-1 Maneuver	128	562	-	-	697	-
Stage 1	363	-	-	-	-	-
Stage 2	555	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	117	562	-	-	697	-
Mov Cap-2 Maneuver	244	-	-	-	-	-
Stage 1	363	-	_	-	_	-
Stage 2	507	-	_	_	-	_
o tago 2	007					
Annraach	NIVA/		МЕ		CW	
Approach	NW 1/ 0		NE		SW	
HCM Control Delay, s	16.8		0		0.7	
HCM LOS	С					
Minor Lane/Major Mvm	nt	NET	NERN	JWLn1N	IWLn2	SWL
Capacity (veh/h)		-	_	244	562	697
HCM Lane V/C Ratio		-	_	0.177		
HCM Control Delay (s)		-	_	22.9	12.1	10.7
HCM Lane LOS		-	-	С	В	В
HCM 95th %tile Q(veh)	)	-	-	0.6	0.3	0.3
2(1011)				5.5	5.5	3.0

	۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	<i>&gt;</i>	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>			<b>^</b>	7	ሻ	<b>↑</b>	7		र्स	7
Traffic Volume (veh/h)	112	854	0	0	697	77	0	0	0	81	0	79
Future Volume (veh/h)	112	854	0	0	697	77	0	0	0	81	0	79
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	118	899	0	0	734	81	0	0	0	85	0	83
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	578	2765	0	0	2230	995	2	2	1	161	0	143
Arrive On Green	0.09	0.79	0.00	0.00	0.64	0.64	0.00	0.00	0.00	0.09	0.00	0.09
Sat Flow, veh/h	1753	3589	0	0	3589	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	118	899	0	0	734	81	0	0	0	85	0	83
Grp Sat Flow(s), veh/h/ln	1753	1749	0	0	1749	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	2.0	8.0	0.0	0.0	10.6	2.2	0.0	0.0	0.0	5.0	0.0	5.5
Cycle Q Clear(g_c), s	2.0	8.0	0.0	0.0	10.6	2.2	0.0	0.0	0.0	5.0	0.0	5.5
Prop In Lane	1.00	27/5	0.00	0.00	2220	1.00	1.00	2	1.00	1.00	0	1.00
Lane Grp Cap(c), veh/h	578	2765 0.33	0.00	0.00	2230	995 0.08	2 0.00	0.00	0.00	161 0.53	0.00	143 0.58
V/C Ratio(X) Avail Cap(c_a), veh/h	0.20 582	2765	0.00	0.00	0.33 2230	995	486	510	432	178	0.00	159
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	4.7	3.2	0.00	0.00	9.1	7.6	0.00	0.00	0.00	47.8	0.00	48.0
Incr Delay (d2), s/veh	0.1	0.3	0.0	0.0	0.4	0.2	0.0	0.0	0.0	2.7	0.0	4.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.9	2.8	0.0	0.0	6.1	1.2	0.0	0.0	0.0	4.2	0.0	4.2
Unsig. Movement Delay, s/veh		2.0	0.0	0.0	0.1	1.2	0.0	0.0	0.0	1.2	0.0	112
LnGrp Delay(d),s/veh	4.9	3.6	0.0	0.0	9.5	7.8	0.0	0.0	0.0	50.5	0.0	52.3
LnGrp LOS	Α	А	А	А	Α	А	А	А	А	D	А	D
Approach Vol, veh/h		1017			815			0			168	
Approach Delay, s/veh		3.7			9.4			0.0			51.4	
Approach LOS		Α			Α						D	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		94.1		15.9	16.8	77.2		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		49.9		11.0	10.0	32.8		30.0				
Max Q Clear Time (g_c+I1), s		10.0		7.5	4.0	12.6		0.0				
Green Ext Time (p_c), s		13.2		0.0	0.1	8.3		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			10.0									
HCM 6th LOS			В									

Intersection												
Int Delay, s/veh	1.2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	LDL	4	LDI	TVDL	4	VVDIX	NDL	<b>↑</b> ↑	T T	) T	<b>†</b>	ODIN
Traffic Vol, veh/h	9	0	11	28	1	24	26	813	48	40	799	57
Future Vol, veh/h	9	0	11	28	1	24	26	813	48	40	799	57
Conflicting Peds, #/hr	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
RT Channelized	-	-	None	-	-	None	-	-	None	_	-	None
Storage Length	-	-	-	-	-	-	240	-	300	425	-	-
Veh in Median Storage	,# -	1	-	-	1	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4
Mvmt Flow	9	0	12	29	1	25	27	856	51	42	841	60
Major/Minor N	/linor2			Minor1		ľ	Major1		N	Major2		
Conflicting Flow All	1438	1916	451	1415	1895	428	901	0	0	907	0	0
Stage 1	955	955	-	910	910	-	-	-	-	-	-	-
Stage 2	483	961	-	505	985	-	-	-	-	-	-	-
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.18	-	-	4.18	-	-
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.24	-	-	2.24	-	-
Pot Cap-1 Maneuver	94	67	556	97	69	575	738	-	-	734	-	-
Stage 1	278	335	-	296	352	-	-	-	-	-	-	-
Stage 2	534	333	-	518	324	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	83	61	556	88	63	575	738	-	-	734	-	-
Mov Cap-2 Maneuver	188	163	-	197	168	-	-	-	-	-	-	-
Stage 1	268	316	-	285	339	-	-	-	-	-	-	-
Stage 2	490	321	-	478	306	-	-	-	-	-	-	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s	18.1			21.1			0.3			0.5		
HCM LOS	С			С								
Minor Lane/Major Mvm	t	NBL	NBT	NBR I	EBLn1V	VBLn1	SBL	SBT	SBR			
Capacity (veh/h)		738	-	-		279	734	-	-			
HCM Lane V/C Ratio		0.037	_	_	0.071		0.057	_	_			
HCM Control Delay (s)		10.1	-	-		21.1	10.2	-	-			
HCM Lane LOS		В	-	-	С	С	В	-	-			
HCM 95th %tile Q(veh)		0.1	-	-	0.2	0.7	0.2	-	-			

	>	74	×	4	•	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	ሻሻ	77	ተተተ	77	ሻሻ	ተተተ	_
Traffic Volume (veh/h)	334	447	1704	437	402	981	
Future Volume (veh/h)	334	447	1704	437	402	981	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	352	471	1794	460	423	1033	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	438	757	2365	1292	500	3530	
Arrive On Green	0.13	0.13	0.47	0.47	0.15	0.70	
Sat Flow, veh/h	3401	2745	5191	2745	3401	5191	
Grp Volume(v), veh/h	352	471	1794	460	423	1033	
Grp Sat Flow(s),veh/h/ln	1700	1373	1675	1373	1700	1675	
Q Serve(g_s), s	8.0	10.3	23.5	8.5	9.7	6.2	
Cycle Q Clear(g_c), s	8.0	10.3	23.5	8.5	9.7	6.2	
Prop In Lane	1.00	1.00		1.00	1.00		
Lane Grp Cap(c), veh/h	438	757	2365	1292	500	3530	
V/C Ratio(X)	0.80	0.62	0.76	0.36	0.85	0.29	
Avail Cap(c_a), veh/h	438	757	2365	1292	519	3530	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	33.9	25.3	17.4	13.5	33.2	4.5	
Incr Delay (d2), s/veh	10.1	1.4	2.3	0.8	11.3	0.2	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	6.5	6.5	12.8	4.3	8.0	2.5	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	44.0	26.8	19.8	14.2	44.5	4.7	
LnGrp LOS	D	С	В	В	D	Α	_
Approach Vol, veh/h	823		2254			1456	Ī
Approach Delay, s/veh	34.1		18.6			16.3	
Approach LOS	С		В			В	
Timer - Assigned Phs	1	2				6	
Phs Duration (G+Y+Rc), s	18.6	44.4				63.0	
Change Period (Y+Rc), s	6.8	6.8				6.8	
Max Green Setting (Gmax), s	12.2	37.2				56.2	
Max Q Clear Time (g_c+l1), s	12.2	25.5				8.2	
	0.1	25.5 9.9				10.2	
Green Ext Time (p_c), s	0.1	9.9				10.2	
Intersection Summary							
HCM 6th Ctrl Delay			20.7				ĺ
			20.1				

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		<b>^</b>	<b>^</b>			- 7
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	-	0	0
Veh in Median Storage		0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
IVIVIII I IOVV	U	U	U	U	U	U
Major/Minor I	Major1	Λ	Najor2	N	Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.18	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-		_	5.84	_
Critical Hdwy Stg 2	-	-	_	_	5.84	_
Follow-up Hdwy	2.24	_	_	_	3.52	3.32
Pot Cap-1 Maneuver	1606	_	_	0	1021	1083
Stage 1	-	_	_	0	1022	-
Stage 2	_	_		0	-	
Platoon blocked, %		_	_	U		
	1404	-	-		1001	1002
Mov Cap-1 Maneuver	1606	-	-	-	1021	1083
Mov Cap-2 Maneuver	-	-	-	-	933	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS	U		U		A	
HOW LOS						
Minor Lane/Major Mvm	nt	EBL	EBT	WBT S	SBLn1 S	SBLn2
Capacity (veh/h)		1606			-	
HCM Lane V/C Ratio		-	-	_	-	-
HCM Control Delay (s)		0	-	-	0	0
HCM Lane LOS		A	_	-	A	A
HCM 95th %tile Q(veh)	)	0	_		-	-
HOW FOUT TOUTE Q(VEH)	)	U	-		-	-

Intersection						
Int Delay, s/veh	0.7					
	EBT	EDD	\M/DI	WDT	NDL	NBR
		EBR	WBL	WBT	NBL	
Lane Configurations	<b>^</b>	7	<u>ነ</u>	<b>^</b>	<u>ነ</u>	77
Traffic Vol, veh/h	787	16	42	819	21	37
Future Vol, veh/h	787	16	42	819	21	37
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage, #		-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	828	17	44	862	22	39
Major/Minor NA	nior1		Majora	N	liner1	
	ajor1		Major2		/linor1	41.4
Conflicting Flow All	0	0	845	0	1347	414
Stage 1	-	-	-	-	828	-
Stage 2	-	-	-	-	519	-
Critical Hdwy	-	-	4.18	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.24	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	775	-	142	587
Stage 1	-	-	-	-	389	-
Stage 2	-	-	-	-	562	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	775	-	134	587
Mov Cap-2 Maneuver	-	-	-	-	264	-
Stage 1	-	-	-	-	389	-
Stage 2	-	-	_	-	530	-
- · · · · · · · ·						
A	ED		MD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		14.6	
HCM LOS					В	
Minor Lane/Major Mvmt	N	NBLn1 N	VBI n2	EBT	EBR	WBL
Capacity (veh/h)	<u> </u>	264	587			775
HCM Lane V/C Ratio		0.084		-	-	0.057
				-		
HCM Long LOS		19.9	11.6	-	-	9.9
HCM Lane LOS		C	В	-	-	A
HCM 95th %tile Q(veh)		0.3	0.2	-	-	0.2

Intersection														
Int Delay, s/veh	4.5													
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
Lane Configurations	ች	<b>^</b>	7	ሻ	<b>^</b>	7		4			र्स	7		
Traffic Vol, veh/h	165	887	66	37	674	82	44	7	33	35	0	65		
Future Vol, veh/h	165	887	66	37	674	82	44	7	33	35	0	65		
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0		
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop		
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None		
Storage Length	460	-	250	345	-	400	-	-	-	-	-	0		
Veh in Median Storage	,# -	0	-	-	0	-	-	1	-	-	1	-		
Grade, %	_	0	_	-	0	-	-	0	-	_	0	-		
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95		
Heavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2		
Mvmt Flow	174	934	69	39	709	86	46	7	35	37	0	68		
WWW. Tiow	171	701	07	07	107	00	10	•	00	01	U	00		
Major/Minor N	/lajor1		N	Major2		ľ	Minor1			Minor2				
Conflicting Flow All	795	0	0	1003	0	0	1715	2155	467	1606	2138	355		
Stage 1		-	_	-	-	-	1282	1282	-	787	787	-		
Stage 2	_	_	_	_	_	_	433	873	_	819	1351	_		
Critical Hdwy	4.18	_	_	4.18	_	-	7.54	6.54	6.94	7.54	6.54	6.94		
Critical Hdwy Stg 1	T. 10	_		7.10	_	_	6.54	5.54	0.74	6.54	5.54	0.74		
Critical Hdwy Stg 2	_	_	<del>-</del>	_	_	-	6.54	5.54	-	6.54	5.54	_		
Follow-up Hdwy	2.24	_	_	2.24		_	3.52	4.02	3.32	3.52	4.02	3.32		
Pot Cap-1 Maneuver	809	_		674	-	_	58	4.02	542	70	4.02	641		
Stage 1	007		-	074	-	-	175	234	542	351	401	- 041		
Stage 2	-	-	_	-	-		571	366	-		217			
Platoon blocked, %	-		-	-		-	3/1	300	-	330	217	-		
	809	-	-	674	-	-	~ 41	35	542	49	35	641		
Mov Cap-1 Maneuver		-	-	0/4	-	-		97		127	100			
Mov Cap-2 Maneuver	-	-	-	-	-	-	102		-			-		
Stage 1	-	-	-	-	-	-	137	184	-	~	378	-		
Stage 2	-	-	-	-	-	-	481	345	-	237	170	-		
Annroach	EB			WB			NB			SB				
Approach	1.6			0.5			59.4			22.9				
HCM Control Delay, s	1.0			0.5										
HCM LOS							F			С				
Minor Lane/Major Mvm	+ 1	NBLn1	EBL	EBT	EBR	WBL	WBT	WRD	SBLn1	SRI n2				
Capacity (veh/h)		149	809	-	-	674	-	-	127	641				
HCM Control Dolov (a)			0.215	-		0.058	-	-		0.107				
HCM Control Delay (s)		59.4	10.7	-	-	10.7	-	-	44.5	11.3				
HCM Lane LOS		F	В	-	-	В	-	-	E	В				
HCM 95th %tile Q(veh)		3.1	8.0	-	-	0.2	-	-	1.1	0.4				
Notes														
~: Volume exceeds cap	acity	\$: D	elay exc	eeds 30	00s	+: Com	putatio	n Not D	efined	*: All	major	volume	in platoon	

	۶	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	~	<b>/</b>	<b>†</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	<b>^</b>	77	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	77
Traffic Volume (veh/h)	560	141	546	120	122	62	380	356	111	134	538	565
Future Volume (veh/h)	560	141	546	120	122	62	380	356	111	134	538	565
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	589	148	575	126	128	65	400	375	117	141	566	595
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	596	739	904	227	354	248	411	1531	787	196	1281	1491
Arrive On Green	0.18	0.21	0.21	0.07	0.10	0.10	0.12	0.44	0.44	0.06	0.37	0.37
Sat Flow, veh/h	3374	3497	2723	3401	3497	1560	3401	3497	1560	3401	3497	2745
Grp Volume(v), veh/h	589	148	575	126	128	65	400	375	117	141	566	595
Grp Sat Flow(s), veh/h/ln	1687	1749	1362	1700	1749	1560	1700	1749	1560	1700	1749	1373
Q Serve(g_s), s	20.9	4.2	21.5	4.3	4.1	4.4	14.1	8.1	4.8	4.9	14.7	15.2
Cycle Q Clear(g_c), s	20.9	4.2	21.5	4.3	4.1	4.4	14.1	8.1	4.8	4.9	14.7	15.2
Prop In Lane	1.00	720	1.00	1.00	354	1.00	1.00	1501	1.00	1.00	1201	1.00
Lane Grp Cap(c), veh/h	596 0.99	739	904 0.64	227 0.56	0.36	248 0.26	411	1531 0.24	787	196 0.72	1281 0.44	1491 0.40
V/C Ratio(X) Avail Cap(c_a), veh/h	596	0.20 880	1014	255	495	311	0.97 411	1531	0.15 787	278	1281	1491
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.3	39.0	33.9	54.3	50.3	44.3	52.6	21.2	15.9	55.6	28.7	16.0
Incr Delay (d2), s/veh	33.8	0.1	1.1	2.1	0.6	0.6	37.1	0.4	0.4	5.1	1.1	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	16.8	3.2	11.3	3.4	3.2	3.1	12.6	5.9	3.1	3.9	10.2	8.1
Unsig. Movement Delay, s/veh		0.2	11.5	5.4	0.2	5.1	12.0	0.7	5.1	5.7	10.2	0.1
LnGrp Delay(d),s/veh	83.0	39.1	35.0	56.4	50.9	44.8	89.7	21.6	16.3	60.7	29.9	16.8
LnGrp LOS	F	D	D	E	D	D	F	C	В	E	C	В
Approach Vol, veh/h	•	1312			319			892			1302	
Approach Delay, s/veh		57.0			51.9			51.5			27.2	
Approach LOS		E			D			D			C	
	1		2	4		,	7					
Timer - Assigned Phs	1 22.2	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	22.3	50.8	14.8	32.1	13.7	59.3	28.0	18.9				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	6.8	6.8	6.8	6.8				
Max Green Setting (Gmax), s	14.5	39.1	9.0 6.3	* 30	9.8 6.9	44.8	21.2	17.0 6.4				
Max Q Clear Time (g_c+l1), s Green Ext Time (p_c), s	16.1	17.2		23.5	0.9	10.1	22.9					
η = ,	0.0	6.2	0.1	1.9	U. I	2.7	0.0	0.6				
Intersection Summary												
HCM 6th Ctrl Delay			45.2									
HCM 6th LOS			D									

Notes

User approved pedestrian interval to be less than phase max green.

User approved ignoring U-Turning movement.

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

t Delay, s/veh
ovement         EBT         EBR         WBL         WBT         NBL         NBR           ane Configurations         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1
Anne Configurations Anne C
raffic Vol, veh/h 1135 35 17 1603 66 29 suture Vol, veh/h 1135 35 17 1603 66 29 sonflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
uture Vol, veh/h 1135 35 17 1603 66 29 conflicting Peds, #/hr 0 0 0 0 0 0 0 cgn Control Free Free Free Free Stop Stop T Channelized - None - None ctorage Length - 225 240 - 0 - ceh in Median Storage, # 0 0 1 - ceak Hour Factor 95 95 95 95 95 95 eavy Vehicles, % 4 4 4 4 2 2
onflicting Peds, #/hr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Ign Control Free Free Free Free Stop Stop T Channelized - None - None torage Length - 225 240 - 0 - eh in Median Storage, # 0 0 1 - rade, % 0 0 0 - eak Hour Factor 95 95 95 95 95 95 eavy Vehicles, % 4 4 4 4 2 2
T Channelized - None - None - None torage Length - 225 240 - 0 - eh in Median Storage, # 0 0 1 - eak Hour Factor 95 95 95 95 95 95 eavy Vehicles, % 4 4 4 4 2 2
torage Length - 225 240 - 0 - eh in Median Storage, # 0 0 1 - rade, % 0 0 0 - eak Hour Factor 95 95 95 95 95 eavy Vehicles, % 4 4 4 4 2 2
eh in Median Storage, # 0 0 1 - rade, % 0 0 0 - eak Hour Factor 95 95 95 95 95 eavy Vehicles, % 4 4 4 4 2 2
rade, % 0 0 0 - eak Hour Factor 95 95 95 95 95 eavy Vehicles, % 4 4 4 4 2 2
eak Hour Factor 95 95 95 95 95 eavy Vehicles, % 4 4 4 2 2
eavy Vehicles, % 4 4 4 2 2
<b>y</b> .
vmt Flow 1195 37 18 1687 69 31
oign/Minor Mojor1 Mojor2 Minor1
ajor/Minor Major1 Major2 Minor1
onflicting Flow All 0 0 1232 0 2075 598
Stage 1 1195 -
Stage 2 880 -
ritical Hdwy 4.18 - 6.84 6.94
ritical Hdwy Stg 1 5.84 -
ritical Hdwy Stg 2 5.84 -
ollow-up Hdwy 2.24 - 3.52 3.32
ot Cap-1 Maneuver 550 - ~ 46 445
Stage 1 250 -
Stage 2 366 -
atoon blocked, %
ov Cap-1 Maneuver 550 - ~ 44 445
ov Cap-2 Maneuver 153 -
Stage 1 250 -
Stage 2 354 -
pproach EB WB NB
CM Control Delay, s 0 0.1 42.9
CM LOS E
OWI LOO
inor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT
apacity (veh/h) 191 550 -
CM Lane V/C Ratio 0.524 0.033 -
CM Lane V/C Ratio 0.524 0.033 -
CM Lane V/C Ratio 0.524 0.033 - CM Control Delay (s) 42.9 11.8 -
CM Lane V/C Ratio 0.524 0.033 - CM Control Delay (s) 42.9 11.8 - CM Lane LOS E - B - CM 95th %tile Q(veh) 2.7 - 0.1 -
CM Lane V/C Ratio 0.524 0.033 - CM Control Delay (s) 42.9 11.8 - CM Lane LOS E - B -

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<b>/</b>	<b>/</b>	<b>↓</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	₽			र्स	7
Traffic Volume (veh/h)	122	977	37	23	1332	138	106	40	24	88	6	178
Future Volume (veh/h)	122	977	37	23	1332	138	106	40	24	88	6	178
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	149	1191	45	28	1624	168	129	49	29	107	7	217
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	275	1909	852	310	1733	773	131	170	101	233	13	245
Arrive On Green	0.10	0.55	0.55	0.05	0.50	0.50	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	1753	3497	1560	1753	3497	1560	1157	1101	652	940	81	1585
Grp Volume(v), veh/h	149	1191	45	28	1624	168	129	0	78	114	0	217
Grp Sat Flow(s), veh/h/ln	1753	1749	1560	1753	1749	1560	1157	0	1753	1022	0	1585
Q Serve(g_s), s	3.0	18.7	1.1	0.6	34.9	4.9	2.8	0.0	3.1	6.3	0.0	10.7
Cycle Q Clear(g_c), s	3.0	18.7	1.1	0.6	34.9	4.9	12.3	0.0	3.1	9.5	0.0	10.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00	_	0.37	0.94	_	1.00
Lane Grp Cap(c), veh/h	275	1909	852	310	1733	773	131	0	271	245	0	245
V/C Ratio(X)	0.54	0.62	0.05	0.09	0.94	0.22	0.98	0.00	0.29	0.46	0.00	0.89
Avail Cap(c_a), veh/h	281	1909	852	404	1733	773	131	0	271	245	0	245
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.8	12.5	8.5	9.9	18.9	11.4	39.4	0.0	29.8	33.9	0.0	33.0
Incr Delay (d2), s/veh	1.6	1.5	0.1	0.1	11.1	0.6	72.7	0.0	0.6	0.5	0.0	29.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.2	10.4	0.6	0.3	20.4	2.8	8.9	0.0	2.4	3.8	0.0	10.0
Unsig. Movement Delay, s/veh		110	0.7	10.0	00.0	10.0	110.1	0.0	00.4	0.4.4	0.0	(0.0
LnGrp Delay(d),s/veh	18.4	14.0	8.6	10.0	30.0	12.0	112.1	0.0	30.4	34.4	0.0	62.2
LnGrp LOS	В	В	A	В	С	В	F	A	С	С	A	<u>E</u>
Approach Vol, veh/h		1385			1820			207			331	
Approach Delay, s/veh		14.3			28.1			81.3			52.6	
Approach LOS		В			С			F			D	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.2	51.0		17.5	15.2	47.0		17.5				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	39.5		* 12	8.0	39.5		* 12				
Max Q Clear Time (g_c+I1), s	2.6	20.7		12.7	5.0	36.9		14.3				
Green Ext Time (p_c), s	0.0	12.6		0.0	0.1	2.5		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			28.1									
HCM 6th LOS			С									

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection							
Int Delay, s/veh	2.9						
Movement	NWL	NWR	NE	T 1	NER	SWL	SWT
Lane Configurations	ሻ	7		<b>^</b>	7	ሻ	<b>^</b>
Traffic Vol, veh/h	96	96			59	35	1124
Future Vol, veh/h	96	96			59	35	1124
Conflicting Peds, #/hr	0	0		0	0	0	0
Sign Control	Stop	Stop			Free	Free	Free
RT Channelized	- -				Vone	-	None
Storage Length	0	0		- '	295	390	-
Veh in Median Storage		-		0	_	-	0
Grade, %	0			0	_	_	0
Peak Hour Factor	95	95		95	95	95	95
Heavy Vehicles, %	2	2		4	4	4	4
Mvmt Flow	101	101	123	36	62	37	1183
Major/Minor	Minor1	N	Majoi	r1	N	/lajor2	
Conflicting Flow All	1902	618		0	0	1298	0
Stage 1	1236	-		_	-	_	-
Stage 2	666	-		_	_	_	_
Critical Hdwy	6.84	6.94		_	_	4.18	_
Critical Hdwy Stg 1	5.84	-		_	_	-	_
Critical Hdwy Stg 2	5.84	_		_	_	_	_
Follow-up Hdwy	3.52	3.32		_	_	2.24	_
Pot Cap-1 Maneuver	~ 61	432		_	_	519	_
•	237	432		-		J17 -	-
Stage 1	472			-	-		
Stage 2	4/2	-		-	-	-	-
Platoon blocked, %	F-7	400		-	-	F40	-
Mov Cap-1 Maneuver	~ 57	432		-	-	519	-
Mov Cap-2 Maneuver	164	-		-	-	-	-
Stage 1	237	-		-	-	-	-
Stage 2	438	-		-	-	-	-
Approach	NW		N	ΙE		SW	
	36.5		11	0		0.4	
				U		0.4	
HCM Control Delay, s							
HCM LOS	50.5 E						
	E	NET	NE	RNW	VLn1N	WLn2	SWL
HCM LOS  Minor Lane/Major Mvn	E	NET_	NE	RNW -			
Minor Lane/Major Mvm Capacity (veh/h)	E	-	NE	-	164	432	519
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio	E nt		NE	-	164 ).616	432 0.234	519 0.071
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s)	E nt	-	NE	-	164 ).616 57	432 0.234 15.9	519 0.071 12.5
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) HCM Lane LOS	E nt )	- -	NE	-	164 0.616 57 F	432 0.234 15.9 C	519 0.071 12.5 B
Minor Lane/Major Mvm Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) HCM Lane LOS HCM 95th %tile Q(veh	E nt )	- -	NE	-	164 ).616 57	432 0.234 15.9	519 0.071 12.5
Minor Lane/Major Mvn Capacity (veh/h) HCM Lane V/C Ratio HCM Control Delay (s) HCM Lane LOS	Ennt )	- - - -		- - 0 - -	164 0.616 57 F	432 0.234 15.9 C 0.9	519 0.071 12.5 B

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>			<b>^</b>	7	ሻ	<b>↑</b>	7		र्स	7
Traffic Volume (veh/h)	61	1070	0	0	1187	46	0	0	0	130	0	209
Future Volume (veh/h)	61	1070	0	0	1187	46	0	0	0	130	0	209
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	64	1126	0	0	1249	48	0	0	0	137	0	220
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	350	2577	0	0	2113	943	1	2	1	274	0	244
Arrive On Green	0.07	0.74	0.00	0.00	0.60	0.60	0.00	0.00	0.00	0.15	0.00	0.15
Sat Flow, veh/h	1753	3589	0	0	3589	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	64	1126	0	0	1249	48	0	0	0	137	0	220
Grp Sat Flow(s), veh/h/ln	1753	1749	0	0	1749	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	1.4	15.0	0.0	0.0	26.4	1.5	0.0	0.0	0.0	8.5	0.0	16.4
Cycle Q Clear(g_c), s	1.4	15.0	0.0	0.0	26.4	1.5	0.0	0.0	0.0	8.5	0.0	16.4
Prop In Lane	1.00	0577	0.00	0.00	0110	1.00	1.00	0	1.00	1.00	•	1.00
Lane Grp Cap(c), veh/h	350	2577	0	0	2113	943	1	2	1	274	0	244
V/C Ratio(X)	0.18	0.44	0.00	0.00	0.59	0.05	0.00	0.00	0.00	0.50	0.00	0.90
Avail Cap(c_a), veh/h	367	2577	0	0	2113	943	445	468	396	282	0	251
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	9.8	6.1	0.0	0.0	14.6	9.7	0.0	0.0	0.0	46.5	0.0	49.9
Incr Delay (d2), s/veh	0.2	0.5	0.0	0.0	1.2 0.0	0.1	0.0	0.0	0.0	1.4 0.0	0.0	31.7
Initial Q Delay(d3),s/veh %ile BackOfQ(95%),veh/ln	0.0	7.5	0.0	0.0	14.3	0.0	0.0	0.0	0.0	7.0	0.0	13.4
Unsig. Movement Delay, s/veh		7.3	0.0	0.0	14.3	0.9	0.0	0.0	0.0	7.0	0.0	13.4
LnGrp Delay(d),s/veh	10.0	6.7	0.0	0.0	15.8	9.8	0.0	0.0	0.0	47.9	0.0	81.6
LnGrp LOS	10.0 A	Α	Α	Α	15.6 B	9.0 A	0.0 A	Α	Α	47.9 D	Α	61.0 F
Approach Vol, veh/h		1190			1297		<u> </u>	0		U	357	ı
Approach Delay, s/veh		6.8			15.6			0.0			68.7	
Approach LOS					15.0 B			0.0			00.7 E	
Approach LOS		A			Ь						L	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		95.5		24.5	15.9	79.6		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		51.9		19.0	10.0	34.8		30.0				
Max Q Clear Time (g_c+I1), s		17.0		18.4	3.4	28.4		0.0				
Green Ext Time (p_c), s		16.7		0.1	0.0	5.2		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			18.6									
HCM 6th LOS			В									

Intersection													
Int Delay, s/veh	4.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		۲	<b>^</b>	7	7	ħβ		
Traffic Vol, veh/h	19	0	9	74	0	63	6	1235	43	37	1064	12	
Future Vol, veh/h	19	0	9	74	0	63	6	1235	43	37	1064	12	
Conflicting Peds, #/hr	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	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	240	-	300	425	-	-	
/eh in Median Storage	,# -	1	-	-	1	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
Nvmt Flow	20	0	9	78	0	66	6	1300	45	39	1120	13	
			•				_						
Major/Minor N	Minor2		ı	Minor1		1	Major1		N	Major2			
Conflicting Flow All	1867	2562	567	1950	2523	650	1133	0	0	1345	0	0	
Stage 1	1205	1205	507	1312	1312	000	-	-	-	1343	-	-	
Stage 2	662	1357	_	638	1211	_	_	_	_				
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.18	-	-	4.18	-	-	
Critical Hdwy Stg 1	6.54	5.54	0.74	6.54	5.54	0.74	4.10	-	-	4.10	-	-	
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-		-	-	-	-	
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.24	-	-	2.24	-	-	
Pot Cap-1 Maneuver	3.32	26	467	~ 39	4.02	412	601		-	498		-	
The second secon	195	255	407	167	227	412	001	-	-	490	-	-	
Stage 1 Stage 2	417	215		431	253	-	-		-	-		-	
Platoon blocked, %	417	213	-	431	200	-	-	-	-	-	-	-	
	25	24	147	24	)E	110	401		-	400	-	-	
Mov Cap-1 Maneuver	35	24 102	467	~ 36	25	412	601	-	-	498	-	-	
Mov Cap-2 Maneuver	123 193	235	-	119	115 225	-	-	-	-	-	-	-	
Stage 1			-	165	233	-	-	-	-	-	-	-	
Stage 2	346	213	-	389	233	-	-	-	-	-	-	-	
Annroach	ED			WD			ND			CD			
Approach	EB			WB			NB			SB			
HCM Control Delay, s	32.3			79.5			0.1			0.4			
HCM LOS	D			F									
Minor Lane/Major Mvm	t	NBL	NBT	NBR I	EBLn1V		SBL	SBT	SBR				
Capacity (veh/h)		601	-	-	161	177	498	-	-				
HCM Lane V/C Ratio		0.011	-	-			0.078	-	-				
HCM Control Delay (s)		11.1	-	-	32.3	79.5	12.8	-	-				
HCM Lane LOS		В	-	-	D	F	В	-	-				
HCM 95th %tile Q(veh)		0	-	-	0.6	5.6	0.3	-	-				
Notes													
-: Volume exceeds cap	pacity	\$: De	elav exc	ceeds 30	00s	+: Com	putatior	Not De	efined	*: All	maior v	/olume i	in platoon
	20.0	Ţ. D.	one			. 50111	r atatioi			. ,		3.0.110 1	p.a.com

	>	74	$\mathbf{x}$	4	*	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	ሻሻ	77	<b>^</b> ^	77	ሻሻ	<b>^</b> ^	
Traffic Volume (veh/h)	695	640	934	323	791	1942	
Future Volume (veh/h)	695	640	934	323	791	1942	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	732	674	983	340	833	2044	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	690	1167	1869	1021	755	3327	
Arrive On Green	0.20	0.20	0.37	0.37	0.22	0.66	
Sat Flow, veh/h	3401	2745	5191	2745	3401	5191	
Grp Volume(v), veh/h	732	674	983	340	833	2044	
Grp Sat Flow(s), veh/h/ln	1700	1373	1675	1373	1700	1675	
Q Serve(g_s), s	20.3	18.7	15.3	8.9	22.2	23.2	
Cycle Q Clear(g_c), s	20.3	18.7	15.3	8.9	22.2	23.2	
(5)	1.00	1.00	15.5	1.00	1.00	23.2	
Prop In Lane	690	1167	1869	1021	755	3327	
Lane Grp Cap(c), veh/h	1.06	0.58	0.53	0.33	1.10	0.61	
V/C Ratio(X)	690	1167	1869	1021	755	3327	
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	1.00	1.009	1.00	1.00	1.00	
	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)						9.6	
Uniform Delay (d), s/veh	39.8	21.9	24.5 1.1	22.5	38.9		
Incr Delay (d2), s/veh	51.3	0.6		0.9	64.8	0.9	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	19.2	9.3	9.8	5.1	23.2	11.3	
Unsig. Movement Delay, s/veh		00 ٦	05.0	00.4	400.7	40.5	
LnGrp Delay(d),s/veh	91.2	22.5	25.6	23.4	103.7	10.5	
LnGrp LOS	F	С	C	С	F_	В	
Approach Vol, veh/h	1406		1323			2877	
Approach Delay, s/veh	58.3		25.0			37.5	
Approach LOS	Е		С			D	
Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	29.0	44.0				73.0	27.0
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	22.2	37.2				66.2	20.3
Max Q Clear Time (g_c+l1), s	24.2	17.3				25.2	22.3
Green Ext Time (p_c), s	0.0	9.2				26.2	0.0
Intersection Summary							
HCM 6th Ctrl Delay			39.7				
HCM 6th LOS			D				
TIOM OUT LOO			D				

Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	7	<b>^</b>	<b>^</b>		1	7
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	-	0	0
Veh in Median Storage	e,# -	0	0	-	1	-
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mymt Flow	0	0	0	0	0	0
IVIVIIIL I IOVV	U	U	U	U	U	U
Major/Minor	Major1	N	Major2	<u> </u>	Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	_	-	0	_
Critical Hdwy	4.18	_	_	_	6.84	6.94
Critical Hdwy Stg 1	-	_	_	_	5.84	0.71
Critical Hdwy Stg 2	_			_	5.84	_
Follow-up Hdwy	2.24		-	-	3.52	3.32
Pot Cap-1 Maneuver	1606	-	-	0	1021	1083
•	1000	•	-		1021	1083
Stage 1	-	-	-	0		-
Stage 2	-	-	-	0	-	-
Platoon blocked, %	1/0/	-	-		1001	1000
Mov Cap-1 Maneuver	1606	-	-	-	1021	1083
Mov Cap-2 Maneuver	-	-	-	-	933	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvn	nt	EBL	EBT	WBT S	SBLn1 S	SBLn2
Capacity (veh/h)		1606				
HCM Lane V/C Ratio		1000	-	-	-	-
HCM Control Delay (s)		0			0	0
			-	-		
HCM Lane LOS	١	A	-	-	А	Α
HCM 95th %tile Q(veh	)	0	-	-	-	-

Intersection						
Int Delay, s/veh	1.1					
		<b>LDD</b>	WDI	WDT	NDI	NDD
Movement Configurations	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>^</b>	7	<u>ነ</u>	<b>^</b>	<u>ች</u>	70
Traffic Vol, veh/h	1268	11	36	1080	34	70
Future Vol, veh/h	1268	11	36	1080	34	70
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage		-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	1335	12	38	1137	36	74
Major/Minor	Mojor1		//olor)		Ninar1	
	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1347	0	1980	668
Stage 1	-	-	-	-	1335	-
Stage 2	-	-	-	-	645	-
Critical Hdwy	-	-	4.18	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.24	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	497	-	54	401
Stage 1	-	-	-	-	210	-
Stage 2	-	-	-	-	484	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	497	-	50	401
Mov Cap-2 Maneuver	-	-	-	-	150	-
Stage 1	-	-	_	_	210	-
Stage 2	_	_	_	_	447	_
Jugo 2					77/	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.4		22.7	
HCM LOS					С	
Minor Long/Major Mayor	.+ .	NIDI ~1 N	IDI ~2	EDT	EDD	WDI
Minor Lane/Major Mvm	it l	NBLn1 N		EBT	EBR	WBL
Capacity (veh/h)		150	401	-	-	497
HCM Lane V/C Ratio			0.184	-		0.076
HCM Control Delay (s)		36.4	16	-	-	12.8
HCM Lane LOS		Е	С	-	-	В
HCM 95th %tile Q(veh)		0.9	0.7	-	-	0.2

ntersection													
nt Delay, s/veh	6.6												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations	ች	<b>^</b>	7		<b>^</b>	7		4		ች		1	
Fraffic Vol, veh/h	44	1008	27	27	1294	34	36	5	53	64	0	190	
Future Vol, veh/h	44	1008	27	27	1294	34	36	5	53	64	0	190	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	_	-	None	-	_	None	_	-	None	-	_	None	
Storage Length	460		250	345	-	400	-		-	0		0	
eh in Median Storage		0			0	-	-	1	-	_	1	_	
Grade, %	-	0	_	-	0	-	_	0	_	_	0	_	
eak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
eavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2	
vmt Flow	46	1061	28	28	1362	36	38	5	56	67	0	200	
WINCE IOW	40	1001	20	20	1302	30	30	0	30	07	U	200	
ajor/Minor N	Major1		N	Major2		ı	Minor1			Minor2			
conflicting Flow All	1398	0	0	1089	0	0	1890	2607	531	2043		681	
Stage 1	1390		U	1009			1153	1153	-			001	
3	-	-	-	-	-	-	737	1454		625	-	-	
Stage 2	110		-	110		-			- 4 04		-	- -	
itical Hdwy	4.18	-	-	4.18	-	-	7.54	6.54	6.94	7.54	-	6.94	
itical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	-	-	
itical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	-	-	
ollow-up Hdwy	2.24	-	-	2.24	-	-	3.52	4.02	3.32	3.52	-	3.32	
ot Cap-1 Maneuver	475	-	-	625	-	-	43	24	493	~ 33	0	393	
Stage 1	-	-	-	-	-	-	210	270	-	144	0	-	
Stage 2	-	-	-	-	-	-	376	193	-	439	0	-	
atoon blocked, %		-	-		-	-							
ov Cap-1 Maneuver	475	-	-	625	-	-	~ 19	21	493	~ 25	-	393	
ov Cap-2 Maneuver	-	-	-	-	-	-	79	89	-	93	-	-	
Stage 1	-	-	-	-	-	-	190	244	-	130	-	-	
Stage 2	-	-	-	-	-	-	176	184	-	344	-	-	
pproach	EB			WB			NB			SB			
CM Control Delay, s	0.5			0.2			64.6			45.1			
CM LOS							F			Е			
linor Lane/Major Mvm	it [	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1	SBLn2			
Capacity (veh/h)		152	475	-	-	625	-	-	93	393			
CM Lane V/C Ratio		0.651	0.098	_	_	0.045	-	_		0.509			
CM Control Delay (s)		64.6	13.4	_	-	11	_	_	110	23.3			
CM Lane LOS		F	В	_	_	В	_	_	F	C			
ICM 95th %tile Q(veh)		3.6	0.3	_	-	0.1	_	_	3.7	2.8			
lotes		5.5	3.3			J. 1			3.,				
	11	φ. Γ.	.1		20 -			M. I.D.	. C	* 611		lu	la alat
Volume exceeds cap		u . 1 \	NO VICIO	eeds 30	II IC	T. ( Om	nutation	Not D	etined	~. All	major v	<i>i</i> olume i	in platoon

	٠	<b>→</b>	•	•	-	4	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	14.54	<b>^</b>	77	14.54	<b>^</b>	7	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	77
Traffic Volume (veh/h)	666	263	464	292	372	351	719	719	363	224	394	553
Future Volume (veh/h)	666	263	464	292	372	351	719	719	363	224	394	553
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	100/		No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	701	277	488	307	392	369	757	757	382	236	415	582
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	702	759	1194	359	401	313	753	1435	804	292	937	1307
Arrive On Green	0.21	0.22	0.22	0.11	0.11	0.11	0.22	0.41	0.41	0.09	0.27	0.27
Sat Flow, veh/h	3374	3497	2723	3401	3497	1560	3401	3497	1560	3401	3497	2745
Grp Volume(v), veh/h	701	277	488	307	392	369	757	757	382	236	415	582
Grp Sat Flow(s), veh/h/ln	1687	1749	1362	1700	1749	1560	1700	1749	1560	1700	1749	1373
Q Serve(g_s), s	31.2	10.1	18.4	13.3	16.8	17.2	33.2	24.4	23.6	10.2	14.8	21.1
Cycle Q Clear(g_c), s	31.2	10.1	18.4	13.3	16.8	17.2	33.2	24.4	23.6	10.2	14.8	21.1
Prop In Lane	1.00	750	1.00	1.00	401	1.00	1.00	1405	1.00	1.00	027	1.00
Lane Grp Cap(c), veh/h	702	759	1194	359	401	313	753	1435	804	292	937	1307
V/C Ratio(X)	1.00 702	0.36 759	0.41 1194	0.86 476	0.98 401	1.18 313	1.01 753	0.53 1435	0.47 804	0.81 621	0.44 937	0.45 1307
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.4	49.9	28.8	66.0	66.2	60.0	58.4	33.3	23.3	67.4	45.6	26.1
Incr Delay (d2), s/veh	33.7	0.3	0.2	11.2	38.9	109.1	34.2	1.4	2.0	5.3	1.5	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	22.9	7.8	9.9	10.3	14.6	30.8	24.5	15.7	13.7	8.1	10.7	11.3
Unsig. Movement Delay, s/veh		7.0	7.7	10.5	17.0	30.0	24.0	13.7	13.7	0.1	10.7	11.5
LnGrp Delay(d),s/veh	93.1	50.2	29.0	77.2	105.1	169.0	92.6	34.7	25.3	72.7	47.1	27.2
LnGrp LOS	F	D	C	F	F	F	72.0 F	C	C	, <u>z.</u> ,	D	C
Approach Vol, veh/h	<u>.</u>	1466			1068	<u> </u>	<u> </u>	1896			1233	
Approach Delay, s/veh		63.7			119.2			55.9			42.6	
Approach LOS		E			F			E			D	
•			_								D	
Timer - Assigned Phs	1	2	3	4	5	6	/	8				
Phs Duration (G+Y+Rc), s	41.0	47.0	22.6	39.4	19.7	68.3	38.0	24.0				
Change Period (Y+Rc), s	7.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8				
Max Green Setting (Gmax), s	33.2	40.2	21.0	27.4	27.4	47.0	31.2	17.2				
Max Q Clear Time (g_c+I1), s	35.2	23.1	15.3	20.4	12.2	26.4	33.2	19.2				
Green Ext Time (p_c), s	0.0	4.6	0.5	2.2	0.6	6.2	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			67.0									
HCM 6th LOS			E									

User approved pedestrian interval to be less than phase max green. User approved ignoring U-Turning movement.

Intersection						
Int Delay, s/veh	1.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>^</b>	7	ች	<b>^</b>	¥	
	1596	67	32	1108	36	21
· ·	1596	67	32	1108	36	21
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	225	240	-	0	-
Veh in Median Storage,	# 0	-	_	0	1	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
	1680	71	34	1166	38	22
IVIVIIIL FIOW	1000	/ 1	34	1100	30	ZZ
Major/Minor Major/Minor	ajor1	Λ	Najor2	N	Minor1	
Conflicting Flow All	0		1751	0	2331	840
Stage 1	_	-	_	_	1680	_
Stage 2	-	_	_	_	651	_
Critical Hdwy	-	-	4.18	_	6.84	6.94
Critical Hdwy Stg 1	_	_	-	_	5.84	-
Critical Hdwy Stg 2	_	_	_	_	5.84	_
Follow-up Hdwy	_	_	2.24	_	3.52	3.32
Pot Cap-1 Maneuver			345		~ 31	309
	-	-	343	-		
Stage 1	-	-	-	-	136	-
Stage 2	-	-	-	-	481	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	345	-	~ 28	309
Mov Cap-2 Maneuver	-	-	-	-	103	-
Stage 1	-	-	-	-	136	-
Stage 2	-	-	-	-	433	-
A	ED		WD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		50.3	
HCM LOS					F	
Minor Lane/Major Mvmt	1	VBLn1	EBT	EBR	WBL	WBT
	<u> </u>		LDI	LDIX		
Capacity (veh/h)		137	-	-	345	-
HCM Cartest Dates (2)		0.438	-		0.098	-
HCM Control Delay (s)		50.3	-	-	16.6	-
HCM Lane LOS		F	-	-	С	-
HCM 95th %tile Q(veh)		1.9	-	-	0.3	-
Notes						
~: Volume exceeds capa	ncity	\$∙ De	lav exc	eeds 30	00s	+: Com
. Volume exceeds capa	icity	ψ. De	iay exc	ccus si	003	r. Cuili

	ၨ	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	/	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	¥	<b>†</b> †	7	ň	<b>^</b>	7	Ţ	f)			4	7
Traffic Volume (veh/h)	49	1529	43	46	1064	18	62	0	13	34	Ö	51
Future Volume (veh/h)	49	1529	43	46	1064	18	62	0	13	34	0	51
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	60	1865	52	56	1298	22	76	0	16	41	0	62
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	348	1978	882	235	1969	878	181	0	163	223	0	163
Arrive On Green	0.07	0.57	0.57	0.07	0.56	0.56	0.10	0.00	0.10	0.10	0.00	0.10
Sat Flow, veh/h	1753	3497	1560	1753	3497	1560	1340	0	1585	1273	0	1585
Grp Volume(v), veh/h	60	1865	52	56	1298	22	76	0	16	41	0	62
Grp Sat Flow(s), veh/h/ln	1753	1749	1560	1753	1749	1560	1340	0	1585	1273	0	1585
Q Serve(g_s), s	1.0	38.6	1.2	0.9	20.1	0.5	4.4	0.0	0.7	2.1	0.0	2.8
Cycle Q Clear(g_c), s	1.0	38.6	1.2	0.9	20.1	0.5	7.2	0.0	0.7	2.8	0.0	2.8
Prop In Lane	1.00	30.0	1.00	1.00	20.1	1.00	1.00	0.0	1.00	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	348	1978	882	235	1969	878	181	0	163	223	0	163
V/C Ratio(X)	0.17	0.94	0.06	0.24	0.66	0.03	0.42	0.00	0.10	0.18	0.00	0.38
Avail Cap(c_a), veh/h	398	1978	882	289	1969	878	181	0.00	163	223	0.00	163
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	8.3	15.7	7.6	16.9	11.8	7.5	36.0	0.00	31.6	32.9	0.00	32.6
Incr Delay (d2), s/veh	0.2	10.7	0.1	0.4	1.7	0.1	1.5	0.0	0.3	0.1	0.0	0.5
	0.2	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0			0.0	10.8					1.3		
%ile BackOfQ(95%),veh/ln		20.9	0.6	0.9	10.8	0.3	2.6	0.0	0.5	1.3	0.0	2.0
Unsig. Movement Delay, s/veh		2/ /	77	17.0	12 /	7 /	27 F	0.0	21.0	22.1	0.0	22.1
LnGrp Delay(d),s/veh	8.5	26.4	7.7	17.3	13.6	7.6	37.5	0.0	31.9	33.1	0.0	33.1
LnGrp LOS	A	C	Α	В	B	A	D	A	С	С	A	С
Approach Vol, veh/h		1977			1376			92			103	
Approach Delay, s/veh		25.4			13.6			36.5			33.1	
Approach LOS		С			В			D			С	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.1	51.5		13.2	13.3	51.3		13.2				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	43.8		* 8	8.0	43.8		* 8				
Max Q Clear Time (g_c+l1), s	2.9	40.6		4.8	3.0	22.1		9.2				
Green Ext Time (p_c), s	0.0	3.0		0.1	0.0	15.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			21.3									
HCM 6th LOS			21.3 C									
			C									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection								
Int Delay, s/veh	1.4							
Movement	NWL	NWR	NET	NER	SWL	SWT		
Lane Configurations		- 7	<b>^</b>	7	_ ሽ	<b>^</b>		
Traffic Vol, veh/h	45	57	1303	77	63	1181		
Future Vol, veh/h	45	57	1303	77	63	1181		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-	None		
Storage Length	0	0	-	295	390	-		
Veh in Median Storag		-	0	-	-	0		
Grade, %	0	-	0	-	-	0		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	2	2	4	4	4	4		
Mvmt Flow	47	60	1372	81	66	1243		
Major/Minor	Minor1	N	Major1	N	Major2			
Conflicting Flow All	2126	686	0		1453	0		
Stage 1	1372	000	U	U	1403	-		
	754		-	-				
Stage 2		6.94	-	-	- / 10	-		
Critical Hdwy	6.84		-	-	4.18	-		
Critical Hdwy Stg 1	5.84	-	-	-	-	-		
Critical Hdwy Stg 2	5.84	-	-	-	-	-		
Follow-up Hdwy	3.52	3.32	-	-	2.24	-		
Pot Cap-1 Maneuver	~ 43	390	-	-	452	-		
Stage 1	201	-	-	-	-	-		
Stage 2	425	-	-	-	-	-		
Platoon blocked, %		000	-	-	450	-		
Mov Cap-1 Maneuver		390	-	-	452	-		
Mov Cap-2 Maneuver		-	-	-	-	-		
Stage 1	201	-	-	-	-	-		
Stage 2	363	-	-	-	-	-		
Approach	NW		NE		SW			
HCM Control Delay, s	29.3		0		0.7			
HCM LOS	D							
Minor Lane/Major Mvr	mt	NET	NEDN	JWLn1N	\//  n2	SWL	SWT	
	TIL		NERI					
Capacity (veh/h)		-	-	133	390	452	-	
HCM Cantrol Dalay (a		-	-	0.356		0.147	-	
HCM Control Delay (s	)	-	-	46.3	15.9	14.3	-	
HCM Lane LOS	-1	-	-	E	С	В	-	
HCM 95th %tile Q(vel	1)	-	-	1.5	0.5	0.5	-	
Votes								
~: Volume exceeds ca	apacity	\$: De	elay exc	eeds 3	00s	+: Com	putation Not Defined	*: All major volume in platoon
	-paong	Ţ. DC	one	3040 0	- 00	. 55111		

	۶	<b>→</b>	•	•	+	•	•	<b>†</b>	~	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>			<b>^</b>	7	Ţ	<b>†</b>	7		र्स	7
Traffic Volume (veh/h)	116	1315	0	0	1106	88	0	0	0	85	0	83
Future Volume (veh/h)	116	1315	0	0	1106	88	0	0	0	85	0	83
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	122	1384	0	0	1164	93	0	0	0	89	0	87
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	419	2764	0	0	2228	994	2	2	1	161	0	143
Arrive On Green	0.09	0.79	0.00	0.00	0.64	0.64	0.00	0.00	0.00	0.09	0.00	0.09
Sat Flow, veh/h	1753	3589	0	0	3589	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	122	1384	0	0	1164	93	0	0	0	89	0	87
Grp Sat Flow(s),veh/h/ln	1753	1749	0	0	1749	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	2.1	15.1	0.0	0.0	19.9	2.5	0.0	0.0	0.0	5.3	0.0	5.8
Cycle Q Clear(g_c), s	2.1	15.1	0.0	0.0	19.9	2.5	0.0	0.0	0.0	5.3	0.0	5.8
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	419	2764	0	0	2228	994	2	2	1	161	0	143
V/C Ratio(X)	0.29	0.50	0.00	0.00	0.52	0.09	0.00	0.00	0.00	0.55	0.00	0.61
Avail Cap(c_a), veh/h	423	2764	0	0	2228	994	486	510	432	162	0	144
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	6.9	4.0	0.0	0.0	10.9	7.7	0.0	0.0	0.0	47.9	0.0	48.1
Incr Delay (d2), s/veh	0.3	0.7	0.0	0.0	0.9	0.2	0.0	0.0	0.0	4.0	0.0	7.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.0	5.4	0.0	0.0	10.6	1.4	0.0	0.0	0.0	4.5	0.0	0.5
Unsig. Movement Delay, s/veh			0.0	0.0	447	7.0	0.0	0.0	0.0	F4.0	0.0	FF 0
LnGrp Delay(d),s/veh	7.2	4.6	0.0	0.0	11.7	7.9	0.0	0.0	0.0	51.9	0.0	55.2
LnGrp LOS	A	A	A	А	В	A	A	A	A	D	Α	<u>E</u>
Approach Vol, veh/h		1506			1257			0			176	
Approach Delay, s/veh		4.9			11.4			0.0			53.5	
Approach LOS		А			В						D	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		94.0		16.0	16.9	77.2		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		50.9		10.0	10.0	33.8		30.0				
Max Q Clear Time (g_c+I1), s		17.1		7.8	4.1	21.9		0.0				
Green Ext Time (p_c), s		21.0		0.0	0.1	8.6		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			10.6									
HCM 6th LOS			В									

Intersection													
Int Delay, s/veh	2.5												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ሻ	<b>^</b>	7	ች	<b>↑</b> }		
Traffic Vol, veh/h	14	0	14	43	0	37	32	1244	74	63	1188	61	
Future Vol, veh/h	14	0	14	43	0	37	32	1244	74	63	1188	61	
Conflicting Peds, #/hr	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	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	240	-	300	425	-	-	
Veh in Median Storage	e,# -	1	-	-	1	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
Mvmt Flow	15	0	15	45	0	39	34	1309	78	66	1251	64	
			.0			0,	0.	.007	, 0		.20.		
Major/Minor N	Minor2		N	Minor1			Major1		ľ	Major2			
Conflicting Flow All	2138	2870	658	2135	2824	655	1315	0	0	1387	0	0	
Stage 1	1415	1415	-	1377	1377	-	1313	-	-	1307	-	-	
Stage 2	723	1455	_	758	1447	_	_	_		_	_	_	
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.18	_	_	4.18	_		
Critical Hdwy Stg 1	6.54	5.54	0.74	6.54	5.54	0.74	4.10	-	-	4.10	-	-	
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54		-					-	
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.24	-	-	2.24	-	_	
	28	16	407	~ 28	4.02	409	511		-	479		-	
Pot Cap-1 Maneuver	144	202		153	211	409	311	-	-	4/9	-	_	
Stage 1			-			-	-	-	-	-	-	-	
Stage 2	384	193	-	365	195	-	-	-	-	-	-	-	
Platoon blocked, %	22	10	407	22	11	400	Г11	-	-	470	-	-	
Mov Cap-1 Maneuver	22	13	407	~ 23	14	409	511	-	-	479	-	-	
Mov Cap-2 Maneuver	89	69	-	95	79	-	-	-	-	-	-	-	
Stage 1	134	174	-	143	197	-	-	-	-	-	-	-	
Stage 2	324	180	-	303	168	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	35.8			58.1			0.3			0.7			
HCM LOS	Ε			F									
Minor Lane/Major Mvm	nt	NBL	NBT	NBR I	EBLn1\	WBLn1	SBL	SBT	SBR				
Capacity (veh/h)		511	-	-	146	147	479	-	-				
HCM Lane V/C Ratio		0.066	_	_		0.573		_	_				
HCM Control Delay (s)		12.5	-	-	35.8	58.1	13.7	-	-				
HCM Lane LOS		В	_	_	E	F	В	_					
HCM 95th %tile Q(veh)	)	0.2	-	-	0.7	2.9	0.5	-	-				
Notes													
~: Volume exceeds cap	nacity	¢. Da	elay exc	onds 2	nne	L. Com	putation	n Not D	ofinad	*. <b>\</b> II	major	volumo	in platoon
Volume exceeds cap	Jacity	φ. Dt	ciay ext	ccus 3	003	T. CUIII	ιραιαιιυι	ו ווטניטי	ciiieu	. All	majur	volume	in platouri

Movement
Traffic Volume (veh/h)         503         730         1855         647         620         1140           Future Volume (veh/h)         503         730         1855         647         620         1140           Initial Q (Qb), veh         0         0         0         0         0         0           Ped-Bike Adj(A_pbT)         1.00         1.00         1.00         1.00         1.00           Work Zone On Approach         No         No         No         No         No           Adj Sat Flow, veh/h/ln         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841
Traffic Volume (veh/h)
Initial Q (Qb), veh
Ped-Bike Adj(A_pbT)         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00 </td
Parking Bus, Adj 1.00 1.00 1.00 1.00 1.00 1.00 1.00  Work Zone On Approach No No No No No Adj Sat Flow, veh/h/ln 1841 1841 1841 1841 1841 1841 1841 184
Work Zone On Approach         No         No         No           Adj Sat Flow, veh/h/ln         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1841         1842         128         1842
Adj Sat Flow, veh/h/ln 1841 1841 1841 1841 1841 1841 1841 184
Adj Flow Rate, veh/h Peak Hour Factor O.95 O.95 O.95 O.95 O.95 O.95 O.95 O.95
Peak Hour Factor 0.95 0.95 0.95 0.95 0.95 0.95 Percent Heavy Veh, % 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Percent Heavy Veh, % 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Cap, veh/h  Arrive On Green  0.17  0.17  0.40  0.40  0.20  0.68  Sat Flow, veh/h  3401  2745  5191  2745  3401  5191  Sat Flow, veh/h  529  768  1953  681  653  1200  Grp Sat Flow(s), veh/h/In  1700  1373  1675  1373  1700  1675  2 Serve(g_s), s  13.8  15.1  34.2  17.7  17.0  9.0  2 Serve(g_s), s  13.8  15.1  34.2  17.7  17.0  9.0  2 Serve Q Clear(g_c), s  13.8  15.1  34.2  17.7  17.0  9.0  2 Serve Q Clear(g_c), s  13.8  15.1  34.2  17.7  17.0  9.0  2 Serve Q Clear(g_c), s  13.8  15.1  34.2  17.7  17.0  9.0  2 Serve Q Clear(g_c), s  10.0  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1
Arrive On Green 0.17 0.17 0.40 0.40 0.20 0.68 Stat Flow, veh/h 3401 2745 5191 2745 3401 5191  Grp Volume(v), veh/h 529 768 1953 681 653 1200  Grp Sat Flow(s), veh/h/lin 1700 1373 1675 1373 1700 1675  Q Serve(g_s), s 13.8 15.1 34.2 17.7 17.0 9.0  Grop In Lane 1.00 1.00 1.00 1.00  Arrive Cap(c), veh/h 571 1022 2021 1104 695 3428  Arrive On Green 0.100 1.00 1.00 1.00  Arrive On Green 0.100 0.0 0.0 0.0 0.0  Arrive On Green 0.100 0.0 0.0  Arrive On Green 0.100 0.0 0.0  Arrive On Green 0.100 0.0  Arrive On Green 0.1
Sat Flow, veh/h         3401         2745         5191         2745         3401         5191           Grp Volume(v), veh/h         529         768         1953         681         653         1200           Grp Sat Flow(s),veh/h/ln         1700         1373         1675         1373         1700         1675           Q Serve(g_s), s         13.8         15.1         34.2         17.7         17.0         9.0           Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Prop In Lane         1.00         1.00         1.00         1.00         3428         3428
Grp Volume(v), veh/h         529         768         1953         681         653         1200           Grp Sat Flow(s),veh/h/ln         1700         1373         1675         1373         1700         1675           Q Serve(g_s), s         13.8         15.1         34.2         17.7         17.0         9.0           Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Prop In Lane         1.00         1.00         1.00         1.00         1.00           Jane Grp Cap(c), veh/h         571         1022         2021         1104         695         3428           M/C Ratio(X)         0.93         0.75         0.97         0.62         0.94         0.35           Avail Cap(c_a), veh/h         571         1022         2021         1104         695         3428           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00           Juriform Delay (d), s/veh         36.9         24.6         26.3         21.4         35.2         6.0           norc Delay (d2), s/veh         21.3         3.0         13.5         2.6         20.4         0.3
Grp Sat Flow(s),veh/h/ln       1700       1373       1675       1373       1700       1675         Q Serve(g_s), s       13.8       15.1       34.2       17.7       17.0       9.0         Cycle Q Clear(g_c), s       13.8       15.1       34.2       17.7       17.0       9.0         Prop In Lane       1.00       1.00       1.00       1.00       1.00         Lane Grp Cap(c), veh/h       571       1022       2021       1104       695       3428         Avail Cap(c_a), veh/h       571       1022       2021       1104       695       3428         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00         Jufform Delay (d), s/veh       36.9       24.6       26.3       21.4       35.2       6.0         nor Delay (d2), s/veh       21.3       3.0       13.5       2.6       20.4       0.3         nitial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0         Wille BackOfQ(95%),veh/ln       11.3       10.9       20.9       9.4       13.4       4.3         Jnsig. Movement Delay, s/veh       58.2       27.6       39.8       24.0 <t< td=""></t<>
Q Serve(g_s), s 13.8 15.1 34.2 17.7 17.0 9.0 Cycle Q Clear(g_c), s 13.8 15.1 34.2 17.7 17.0 9.0 Cycle Q Clear(g_c), s 13.8 15.1 34.2 17.7 17.0 9.0 Cycle Q Clear(g_c), s 13.8 15.1 34.2 17.7 17.0 9.0 Cycle Q Clear(g_c), s 13.8 15.1 34.2 17.7 17.0 9.0 Cycle Q Clear(g_c), veh/h 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Cycle Q Clear(g_c), s         13.8         15.1         34.2         17.7         17.0         9.0           Prop In Lane         1.00         1.00         1.00         1.00           Lane Grp Cap(c), veh/h         571         1022         2021         1104         695         3428           Avail Cap(c_a), veh/h         571         1022         2021         1104         695         3428           HCM Platoon Ratio         1.00         1.00         1.00         1.00         1.00         1.00         1.00           Jpstream Filter(I)         1.00         1.00         1.00         1.00         1.00         1.00           Jniform Delay (d), s/veh         36.9         24.6         26.3         21.4         35.2         6.0           ncr Delay (d2), s/veh         21.3         3.0         13.5         2.6         20.4         0.3           nitial Q Delay(d3),s/veh         0.0         0.0         0.0         0.0         0.0         0.0           Wile BackOfQ(95%),veh/ln         11.3         10.9         20.9         9.4         13.4         4.3           Jnsig. Movement Delay, s/veh         58.2         27.6         39.8         24.0         55.6         6.3
Prop In Lane 1.00 1.00 1.00 1.00  Lane Grp Cap(c), veh/h 571 1022 2021 1104 695 3428  //C Ratio(X) 0.93 0.75 0.97 0.62 0.94 0.35  Avail Cap(c_a), veh/h 571 1022 2021 1104 695 3428  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00  Jpstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00  Jpstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00  Jniform Delay (d), s/veh 36.9 24.6 26.3 21.4 35.2 6.0  ncr Delay (d2), s/veh 21.3 3.0 13.5 2.6 20.4 0.3  nitial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0  %ile BackOfQ(95%),veh/ln 11.3 10.9 20.9 9.4 13.4 4.3  Jnsig. Movement Delay, s/veh  LnGrp Delay(d),s/veh 58.2 27.6 39.8 24.0 55.6 6.3  LnGrp LOS E C D C E A  Approach Vol, veh/h 1297 2634 1853  Approach Delay, s/veh 40.1 35.7 23.6
Avail Cap(c), veh/h 571 1022 2021 1104 695 3428  Avail Cap(c_a), veh/h 571 1022 2021 1104 695 3428  HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00  Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00  Uniform Delay (d), s/veh 36.9 24.6 26.3 21.4 35.2 6.0  ncr Delay (d2), s/veh 21.3 3.0 13.5 2.6 20.4 0.3  nitial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0  Wile BackOfQ(95%),veh/ln 11.3 10.9 20.9 9.4 13.4 4.3  Unsig. Movement Delay, s/veh  LnGrp Delay(d),s/veh 58.2 27.6 39.8 24.0 55.6 6.3  LnGrp LOS E C D C E A  Approach Vol, veh/h 1297 2634 1853  Approach Delay, s/veh 40.1 35.7 23.6
V/C Ratio(X)       0.93       0.75       0.97       0.62       0.94       0.35         Avail Cap(c_a), veh/h       571       1022       2021       1104       695       3428         HCM Platoon Ratio       1.00       1.00       1.00       1.00       1.00       1.00       1.00         Upstream Filter(I)       1.00       1.00       1.00       1.00       1.00       1.00         Uniform Delay (d), s/veh       36.9       24.6       26.3       21.4       35.2       6.0         ncr Delay (d2), s/veh       21.3       3.0       13.5       2.6       20.4       0.3         nitial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0         Wile BackOfQ(95%),veh/ln       11.3       10.9       20.9       9.4       13.4       4.3         Unsig. Movement Delay, s/veh       58.2       27.6       39.8       24.0       55.6       6.3         LnGrp LOS       E       C       D       C       E       A         Approach Vol, veh/h       1297       2634       1853         Approach Delay, s/veh       40.1       35.7       23.6
Avail Cap(c_a), veh/h 571 1022 2021 1104 695 3428 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00  Upstream Filter(I) 1.00 1.00 1.00 1.00 1.00 1.00  Uniform Delay (d), s/veh 36.9 24.6 26.3 21.4 35.2 6.0  Incr Delay (d2), s/veh 21.3 3.0 13.5 2.6 20.4 0.3  Initial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0  Wile BackOfQ(95%),veh/ln 11.3 10.9 20.9 9.4 13.4 4.3  Unsig. Movement Delay, s/veh  UnGrp Delay(d),s/veh 58.2 27.6 39.8 24.0 55.6 6.3  UnGrp LOS E C D C E A  Approach Vol, veh/h 1297 2634 1853  Approach Delay, s/veh 40.1 35.7 23.6
CM Platoon Ratio
Upstream Filter(I)         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00         1.00
Jniform Delay (d), s/veh       36.9       24.6       26.3       21.4       35.2       6.0         ncr Delay (d2), s/veh       21.3       3.0       13.5       2.6       20.4       0.3         nitial Q Delay(d3),s/veh       0.0       0.0       0.0       0.0       0.0       0.0         6ile BackOfQ(95%),veh/ln       11.3       10.9       20.9       9.4       13.4       4.3         Jnsig. Movement Delay, s/veh       58.2       27.6       39.8       24.0       55.6       6.3         anGrp LOS       E       C       D       C       E       A         Approach Vol, veh/h       1297       2634       1853         Approach Delay, s/veh       40.1       35.7       23.6
ncr Delay (d2), s/veh 21.3 3.0 13.5 2.6 20.4 0.3  nitial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0  ilial BackOfQ(95%),veh/ln 11.3 10.9 20.9 9.4 13.4 4.3  Insig. Movement Delay, s/veh  InGrp Delay(d),s/veh 58.2 27.6 39.8 24.0 55.6 6.3  InGrp LOS E C D C E A  Improach Vol, veh/h 1297 2634 1853  Improach Delay, s/veh 40.1 35.7 23.6
nitial Q Delay(d3),s/veh 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
%ile BackOfQ(95%),veh/ln 11.3 10.9 20.9 9.4 13.4 4.3  Unsig. Movement Delay, s/veh  LnGrp Delay(d),s/veh 58.2 27.6 39.8 24.0 55.6 6.3  LnGrp LOS E C D C E A  Approach Vol, veh/h 1297 2634 1853  Approach Delay, s/veh 40.1 35.7 23.6
Jnsig. Movement Delay, s/veh         .nGrp Delay(d),s/veh       58.2       27.6       39.8       24.0       55.6       6.3         .nGrp LOS       E       C       D       C       E       A         Approach Vol, veh/h       1297       2634       1853         Approach Delay, s/veh       40.1       35.7       23.6
Ender Delay(d),s/veh     58.2     27.6     39.8     24.0     55.6     6.3       LnGrp LOS     E     C     D     C     E     A       Approach Vol, veh/h     1297     2634     1853       Approach Delay, s/veh     40.1     35.7     23.6
Approach Vol, veh/h 1297 2634 1853 Approach Delay, s/veh 40.1 35.7 23.6
Approach Vol, veh/h 1297 2634 1853 Approach Delay, s/veh 40.1 35.7 23.6
pproach Delay, s/veh 40.1 35.7 23.6
Approach LOS D C
Fimer - Assigned Phs 1 2 6 8
Phs Duration (G+Y+Rc), s 25.2 43.0 68.2 21.8
Change Period (Y+Rc), s 6.8 6.8 6.7
Max Green Setting (Gmax), s 18.4 36.2 61.4 15.1
Max Q Clear Time (g_c+I1), s 19.0 36.2 11.0 17.1
Green Ext Time (p_c), s 0.0 0.0 12.8 0.0
ntersection Summary
HCM 6th Ctrl Delay 32.8
HCM 6th LOS C

	۶	<b>→</b>	•	•	<b>←</b>	•	1	<b>†</b>	<b>/</b>	<b>/</b>	<b>+</b>	
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	<b>^</b>	77	ሻሻ	44	7	ሻሻ	44	7	ሻሻ	<b>^</b>	77
Traffic Volume (veh/h)	588	377	710	321	326	165	473	422	297	358	682	625
Future Volume (veh/h)	588	377	710	321	326	165	473	422	297	358	682	625
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	4.00	1.00	1.00	4.00	1.00	1.00	4.00	1.00	1.00	4.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1006	No	1006	1011	No	1011	1011	No	1011	1011	No	1011
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841 174	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h Peak Hour Factor	619 0.95	397 0.95	747 0.95	338 0.95	343 0.95	0.95	498	444 0.95	313 0.95	377 0.95	718 0.95	658 0.95
	0.95 5	0.95	0.95 5	0.95	0.95	0.95	0.95 4	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	654	677	950	398	408	379	528	1238	735	429	1109	1403
Cap, veh/h Arrive On Green	0.19	0.19	0.19	0.12	0.12	0.12	0.16	0.35	0.35	0.13	0.32	0.32
Sat Flow, veh/h	3374	3497	2723	3401	3497	1560	3401	3497	1560	3401	3497	2745
Grp Volume(v), veh/h	619	397	747	338	343	174	498	444	313	377	718	658
Grp Sat Flow(s), veh/h/ln	1687	1749	1362	1700	1749	1560	1700	1749	1560	1700	1749	1373
Q Serve(g_s), s	23.6	13.4	25.2	12.7	12.5	12.4	18.8	12.2	17.3	14.2	22.9	20.0
Cycle Q Clear(g_c), s	23.6	13.4	25.2	12.7	12.5	12.4	18.8	12.2	17.3	14.2	22.9	20.0
Prop In Lane	1.00	13.4	1.00	1.00	12.5	1.00	1.00	12.2	1.00	1.00	22.3	1.00
Lane Grp Cap(c), veh/h	654	677	950	398	408	379	528	1238	735	429	1109	1403
V/C Ratio(X)	0.95	0.59	0.79	0.85	0.84	0.46	0.94	0.36	0.43	0.88	0.65	0.47
Avail Cap(c_a), veh/h	654	677	950	518	457	401	528	1238	735	468	1109	1403
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.7	47.7	38.0	56.3	56.2	41.9	54.3	31.1	22.8	55.8	38.1	20.4
Incr Delay (d2), s/veh	22.9	1.3	4.4	10.1	12.1	0.9	25.2	0.8	1.8	16.2	2.9	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	17.4	9.8	16.3	9.8	10.1	8.3	14.8	8.9	10.6	11.2	15.2	10.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	74.6	49.0	42.4	66.4	68.4	42.8	79.6	31.9	24.6	72.0	41.1	21.6
LnGrp LOS	Е	D	D	Е	Е	D	Е	С	С	Е	D	С
Approach Vol, veh/h		1763			855			1255			1753	
Approach Delay, s/veh		55.2			62.4			49.0			40.4	
Approach LOS		Е			Е			D			D	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	28.0	48.0	22.0	32.0	23.2	52.8	32.0	22.0				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	6.8	6.8	6.8	6.8				
Max Green Setting (Gmax), s	20.2	39.4	19.8	* 23	17.9	42.7	25.2	17.0				
Max Q Clear Time (g_c+I1), s	20.8	24.9	14.7	27.2	16.2	19.3	25.6	14.5				
Green Ext Time (p_c), s	0.0	6.4	0.5	0.0	0.3	3.8	0.0	0.7				
Intersection Summary												
HCM 6th Ctrl Delay			50.3									
HCM 6th LOS			D									

## Notes

User approved pedestrian interval to be less than phase max green.

User approved ignoring U-Turning movement.

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

latan satis						
Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ሻ	<b>^</b>	<b>^</b>		ሻ	7
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	-	0	0
Veh in Median Storage		0	0	_	1	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
IVIVIIIL FIOW	U	U	U	U	U	U
Major/Minor I	Major1	N	Major2	N	Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.18	_	-	-	6.84	6.94
Critical Hdwy Stg 1	-	_	_	_	5.84	-
Critical Hdwy Stg 2	_	_	_	_	5.84	_
Follow-up Hdwy	2.24	_	_	_	3.52	3.32
Pot Cap-1 Maneuver	1606			0	1021	1083
Stage 1	-	_	_	0	1021	-
Stage 2		<del>-</del>	-	0	1022	<del>-</del>
Platoon blocked, %	-	-	-	U	-	-
	1404	-	-		1001	1002
Mov Cap-1 Maneuver	1606	-	-	-	1021	1083
Mov Cap-2 Maneuver	-	-	-	-	933	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					A	
TIOW EOO					, (	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT S	SBLn1 S	SBLn2
Capacity (veh/h)		1606	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	0	0
HCM Lane LOS		А	-	-	Α	Α
HCM 95th %tile Q(veh)	)	0	-	-	-	-
	,					

Intersection						
Int Delay, s/veh	0.9					
	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>^</b>	7	<u>ነ</u>	<b>^</b>	<b>ነ</b>	7
	1231	23	46	1247	27	45
-	1231	23	46	1247	27	45
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	400	415	-	0	0
Veh in Median Storage, #		-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow 1	1296	24	48	1313	28	47
Major/Minor Ma	ajor1	N	Major2	N	/linor1	
			1320			648
Conflicting Flow All	0	0	1320	0	2049	
Stage 1	-	-	-	-	1296	-
Stage 2	-	-	-	-	753	-
Critical Hdwy	-	-	4.18	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.24	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	509	-	48	413
Stage 1	-	-	-	-	220	-
Stage 2	-	-	-	-	426	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	509	-	43	413
Mov Cap-2 Maneuver	-	-	-	-	146	-
Stage 1	-	-	-	-	220	-
Stage 2	-	-	-	-	386	-
J						
A 1			MD		NID	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		22.6	
HCM LOS					С	
Minor Lane/Major Mvmt	N	NBLn1 N	JRI n2	EBT	EBR	WBL
	<u> </u>	146	413	-		509
Capacity (veh/h) HCM Lane V/C Ratio		0.195			-	0.095
				-		
HCM Long LOS		35.5	14.8	-	-	12.8
HCM Lane LOS		E	В	-	-	В
HCM 95th %tile Q(veh)		0.7	0.4	-	-	0.3

Intersection													
Int Delay, s/veh	21.6												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	<b>^</b>	7		<b>^</b>	7		4			र्स	7	
Traffic Vol, veh/h	168	1341	85	51	1046	88	50	7	44	39	0	67	
uture Vol, veh/h	168	1341	85	51	1046	88	50	7	44	39	0	67	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	- '-	-	None	-	-	None	
Storage Length	460	-	250	345	-	400	-	-	-	-	-	0	
eh in Median Storage		0	_	_	0	_	_	1	-	-	1	-	
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_	
eak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
eavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2	
lvmt Flow	177	1412	89	54	1101	93	53	7	46	41	0	71	
WINCE IOW	177	1712	07	JT	1101	73	55	,	70	71	U	7 1	
ajor/Minor N	Major1		N	Major2		ı	Minor1			Minor2			
Conflicting Flow All	1194	0	0	1501	0	0	2425	3068	706	2273	3064	551	
Stage 1	-	-	-	1301	-	-	1766	1766	700	1209	1209	-	
Stage 2	_	_	_		_	_	659	1302		1064	1855		
ritical Hdwy	4.18	-		4.18	-	_	7.54	6.54	6.94	7.54	6.54	6.94	
ritical Hdwy Stg 1	4.10	-	-	4.10	-	-	6.54	5.54	0.74	6.54	5.54	0.74	
ritical Hdwy Stg 2	-		-	-	-	-	6.54	5.54	-	6.54	5.54	-	
	2.24	-	-	2.24		-	3.52	4.02	3.32	3.52	4.02	3.32	
ollow-up Hdwy	569	-	-	433	-	-	~ 17	4.02	3.32	~ 22	12		
ot Cap-1 Maneuver		-	-	433	-	-						478	
Stage 1	-	-	-	-	-	-	87	135	-	194	254	-	
Stage 2	-	-	-	-	-	-	419	229	-	238	122	-	
atoon blocked, %	E/0	-	-	400	-	-	10	7	270	10	-	470	
lov Cap-1 Maneuver	569	-	-	433	-	-	~ 10	~ 7	378	~ 10	7	478	
ov Cap-2 Maneuver	-	-	-	-	-	-	~ 42	19	-	49	25	-	
Stage 1	-	-	-	-	-	-	60	93	-	134	222	-	
Stage 2	-	-	-	-	-	-	313	200	-	132	84	-	
nnraach	ED			WD			ND			CD			
Approach	EB			WB			NB			SB			
ICM Control Delay, s	1.5			0.6			\$ 518			86.9			
CM LOS							F			F			
							=						
Minor Lane/Major Mvm	nt l	VBLn1	EBL	EBT	EBR	WBL	WBT	WBR:	SBLn1				
Capacity (veh/h)		60	569	-	-	433	-	-	49	478			
CM Lane V/C Ratio		1.772		-	-	0.124	-		0.838				
ICM Control Delay (s)		\$ 518	14.2	-	-	14.5	-	-	212.4	13.8			
CM Lane LOS		F	В	-	-	В	-	-	F	В			
ICM 95th %tile Q(veh)	)	9.8	1.3	-	-	0.4	-	-	3.5	0.5			
lotes													
: Volume exceeds cap	oacity	\$: De	elay exc	ceeds 30	00s	+: Com	putation	n Not D	efined	*: All	maior	volume i	in platoon
			, ,								. j-:		

	۶	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	~	<b>/</b>	<b>†</b>	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	<b>^</b>	77	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	77
Traffic Volume (veh/h)	588	377	710	321	326	165	473	422	297	358	682	625
Future Volume (veh/h)	588	377	710	321	326	165	473	422	297	358	682	625
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	619	397	747	338	343	174	498	444	313	377	718	658
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	654	677	950	398	408	379	528	1238	735	429	1109	1403
Arrive On Green	0.19	0.19	0.19	0.12	0.12	0.12	0.16	0.35	0.35	0.13	0.32	0.32
Sat Flow, veh/h	3374	3497	2723	3401	3497	1560	3401	3497	1560	3401	3497	2745
Grp Volume(v), veh/h	619	397	747	338	343	174	498	444	313	377	718	658
Grp Sat Flow(s), veh/h/ln	1687	1749	1362	1700	1749	1560	1700	1749	1560	1700	1749	1373
Q Serve(g_s), s	23.6	13.4	25.2	12.7	12.5	12.4	18.8	12.2	17.3	14.2	22.9	20.0
Cycle Q Clear(g_c), s	23.6	13.4	25.2	12.7	12.5	12.4	18.8	12.2	17.3	14.2	22.9	20.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	654	677	950	398	408	379	528	1238	735	429	1109	1403
V/C Ratio(X)	0.95	0.59	0.79	0.85	0.84	0.46	0.94	0.36	0.43	0.88	0.65	0.47
Avail Cap(c_a), veh/h	654	677	950	518	457	401	528	1238	735	468	1109	1403
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.7	47.7	38.0	56.3	56.2	41.9	54.3	31.1	22.8	55.8	38.1	20.4
Incr Delay (d2), s/veh	22.9	1.3	4.4	10.1	12.1	0.9	25.2	0.8	1.8	16.2	2.9	1.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	17.4	9.8	16.3	9.8	10.1	8.3	14.8	8.9	10.6	11.2	15.2	10.4
Unsig. Movement Delay, s/veh		40.0	10.4	// /	/0.4	42.0	70 /	21.0	247	72.0	11 1	21 /
LnGrp Delay(d),s/veh	74.6 E	49.0 D	42.4 D	66.4 E	68.4 E	42.8 D	79.6 E	31.9 C	24.6 C	72.0 E	41.1 D	21.6
LnGrp LOS	E		U	<u> </u>		U	<u> </u>		C	E		<u>C</u>
Approach Vol, veh/h		1763			855			1255			1753	
Approach LOS		55.2			62.4			49.0			40.4	
Approach LOS		E			E			D			D	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	28.0	48.0	22.0	32.0	23.2	52.8	32.0	22.0				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	6.8	6.8	6.8	6.8				
Max Green Setting (Gmax), s	20.2	39.4	19.8	* 23	17.9	42.7	25.2	17.0				
Max Q Clear Time (g_c+I1), s	20.8	24.9	14.7	27.2	16.2	19.3	25.6	14.5				
Green Ext Time (p_c), s	0.0	6.4	0.5	0.0	0.3	3.8	0.0	0.7				
Intersection Summary												
HCM 6th Ctrl Delay			50.3									
HCM 6th LOS			D									

## Notes

User approved pedestrian interval to be less than phase max green.

User approved ignoring U-Turning movement.

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection						
Int Delay, s/veh	3.5					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	<b>^</b>	7	ች	<b>^</b>	¥	
	1480	50	22	2026	71	36
	1480	50	22	2026	71	36
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None		None
Storage Length	-	225	240	-	0	-
Veh in Median Storage,	# 0	-	-	0	1	-
Grade, %	0	_	_	0	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
	1558	53		2133	75	38
IVIVIIIL FIOW	1000	53	23	2133	75	30
Major/Minor Major/Minor	ajor1	N	Major2	ľ	Minor1	
Conflicting Flow All	0	0	1611	0	2671	779
Stage 1	-	_	-	_	1558	_
Stage 2	_	_	_	-	1113	_
Critical Hdwy	_	_	4.18	-	6.84	6.94
Critical Hdwy Stg 1	_	_	7.10	_	5.84	-
Critical Hdwy Stg 2	_		_	-	5.84	_
		-	2.24	-	3.52	3.32
Follow-up Hdwy	-					
Pot Cap-1 Maneuver	-	-	392	-	~ 18	339
Stage 1	-	-	-	-	159	-
Stage 2	-	-	-	-	276	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	392	-	~ 17	339
Mov Cap-2 Maneuver	-	-	-	-	97	-
Stage 1	-	-	-	-	159	-
Stage 2	-	-	-	-	260	-
Ü						
A	ED		MD		ND	
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.2		115	
HCM LOS					F	
Minor Lane/Major Mvmt	N	NBLn1	EBT	EBR	WBL	WBT
	<u> </u>		LDI	LDIN		
Capacity (veh/h)		128	-	-	392	-
HCM Lane V/C Ratio		0.88	-		0.059	-
HCM Control Delay (s)		115	-	-	14.8	-
HCM Lane LOS		F	-	-	В	-
HCM 95th %tile Q(veh)		5.6	-	-	0.2	-
Notes						
~: Volume exceeds capa	acity	\$ Do	lav eve	eeds 3	nns -	+: Com
Volume exceeds capa	ucity	φ. DE	lay ext	ceus 3	003	+. CUIII

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7	ሻ	1•			र्स	7
Traffic Volume (veh/h)	129	1304	44	25	1747	151	151	40	28	90	10	183
Future Volume (veh/h)	129	1304	44	25	1747	151	151	40	28	90	10	183
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	157	1590	54	30	2130	184	184	49	34	110	12	223
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	152	2086	930	198	2023	903	169	226	157	270	27	349
Arrive On Green	0.06	0.60	0.60	0.04	0.58	0.58	0.22	0.22	0.22	0.22	0.22	0.22
Sat Flow, veh/h	1753	3497	1560	1753	3497	1560	1145	1028	714	1005	123	1585
Grp Volume(v), veh/h	157	1590	54	30	2130	184	184	0	83	122	0	223
Grp Sat Flow(s), veh/h/ln	1753	1749	1560	1753	1749	1560	1145	0	1742	1128	0	1585
Q Serve(g_s), s	8.0	47.1	2.0	0.9	81.0	7.9	14.3	0.0	5.5	11.0	0.0	17.9
Cycle Q Clear(g_c), s	8.0	47.1	2.0	0.9	81.0	7.9	30.8	0.0	5.5	16.5	0.0	17.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.41	0.90		1.00
Lane Grp Cap(c), veh/h	152	2086	930	198	2023	903	169	0	383	297	0	349
V/C Ratio(X)	1.04	0.76	0.06	0.15	1.05	0.20	1.09	0.00	0.22	0.41	0.00	0.64
Avail Cap(c_a), veh/h	152	2086	930	229	2023	903	169	0	383	297	0	349
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	47.3	20.9	11.8	18.3	29.5	14.1	65.0	0.0	44.7	51.2	0.0	49.6
Incr Delay (d2), s/veh	82.8	2.7	0.1	0.3	35.5	0.5	95.9	0.0	0.3	0.3	0.0	3.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	10.6	25.5	1.3	0.6	53.6	5.0	16.6	0.0	4.4	7.1	0.0	11.9
Unsig. Movement Delay, s/veh		20.0	1.0	0.0	00.0	0.0	10.0	0.0		7.1	0.0	11.7
LnGrp Delay(d),s/veh	130.2	23.6	11.9	18.6	65.0	14.6	160.9	0.0	45.0	51.5	0.0	52.6
LnGrp LOS	F	C	В	В	F	В	F	Α	D	D	Α	D
Approach Vol, veh/h	·	1801	<u> </u>	<u> </u>	2344	U		267	<u> </u>	D	345	
Approach Delay, s/veh		32.5			60.5			124.9			52.2	
											52.2 D	
Approach LOS		С			E			F			U	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.0	91.0		36.0	15.5	88.5		36.0				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s	8.0	81.0		* 31	8.0	81.0		* 31				
Max Q Clear Time (g_c+I1), s	2.9	49.1		19.9	10.0	83.0		32.8				
Green Ext Time (p_c), s	0.0	24.2		0.7	0.0	0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			52.9									
HCM 6th LOS			D									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection								
Int Delay, s/veh	7.1							
Movement	NWL	NWR	NET	NER	SWL	SWT		
Lane Configurations		7	<b>^</b>	7	_ ሽ	<b>^</b>		
Traffic Vol, veh/h	100	100	1606	63	39	1634		
Future Vol, veh/h	100	100	1606	63	39	1634		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-	None		
Storage Length	0	0	-	295	390	-		
Veh in Median Storag	e,# 1	-	0	-	-	0		
Grade, %	0	-	0	-	-	0		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	2	2	4	4	4	4		
Mvmt Flow	105	105	1691	66	41	1720		
Major/Minor	Minor1	N	Major1	N	Major2			
Conflicting Flow All	2633	846	0		1757	0		
Stage 1	1691	040	U		1/3/	-		
Stage 2	942	-	_	_		_		
Critical Hdwy	6.84	6.94	-	-	4.18			
Critical Hdwy Stg 1	5.84	0.74	-	-	4.10	_		
Critical Hdwy Stg 2	5.84		-	-	-			
Follow-up Hdwy	3.52	3.32	-	-	2.24	-		
Pot Cap-1 Maneuver	~ 19	306	-	-	344	-		
· · · · · · · · · · · · · · · · · · ·	135	300	-	-	344	-		
Stage 1 Stage 2	340	-	-	-	-	-		
Platoon blocked, %	340	-		-	-	-		
	~ 17	306	-	-	344	-		
Mov Cap-1 Maneuver			-	-		-		
Mov Cap-2 Maneuver	~ 92 135	-	-	-	-			
Stage 1	300	-	-	-	-	-		
Stage 2	300	-	-	-	-	-		
Approach	NW		NE		SW			
HCM Control Delay, s	122.5		0		0.4			
HCM LOS	F							
Minor Lane/Major Mvi	mt	NET	NFRN	JWLn1N	WI n2	SWL	SWT	
Capacity (veh/h)		-		92	306	344	-	
HCM Lane V/C Ratio		-	_	1.144		0.119	- -	
HCM Control Delay (s	:)	-		222.2	22.8	16.9	-	
HCM Lane LOS	7)	-		722.Z F	22.0 C	C	-	
HCM 95th %tile Q(vel	h)	-	-	7.2	1.5	0.4	-	
	1)	_	_	1.2	1.0	0.4	•	
Notes								
~: Volume exceeds ca	apacity	\$: De	elay exc	ceeds 30	00s	+: Com	putation Not Defined	*: All major volume in platoon

	۶	<b>→</b>	•	•	<b>←</b>	4	•	<b>†</b>	<i>&gt;</i>	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ች	<b>^</b>			<b>^</b>	7	ሻ	<b>↑</b>	7		र्स	7
Traffic Volume (veh/h)	65	1482	0	0	1704	51	0	0	0	137	0	217
Future Volume (veh/h)	65	1482	0	0	1704	51	0	0	0	137	0	217
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	68	1560	0	0	1794	54	0	0	0	144	0	228
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	222	2620	0	0	2235	997	1	1	1	291	0	259
Arrive On Green	0.06	0.75	0.00	0.00	0.64	0.64	0.00	0.00	0.00	0.16	0.00	0.16
Sat Flow, veh/h	1753	3589	0	0	3589	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	68	1560	0	0	1794	54	0	0	0	144	0	228
Grp Sat Flow(s),veh/h/ln	1753	1749	0	0	1749	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	1.7	30.3	0.0	0.0	57.0	1.9	0.0	0.0	0.0	11.0	0.0	21.1
Cycle Q Clear(g_c), s	1.7	30.3	0.0	0.0	57.0	1.9	0.0	0.0	0.0	11.0	0.0	21.1
Prop In Lane	1.00		0.00	0.00		1.00	1.00		1.00	1.00	_	1.00
Lane Grp Cap(c), veh/h	222	2620	0	0	2235	997	1	1	1	291	0	259
V/C Ratio(X)	0.31	0.60	0.00	0.00	0.80	0.05	0.00	0.00	0.00	0.49	0.00	0.88
Avail Cap(c_a), veh/h	228	2620	0	0	2235	997	356	374	317	475	0	423
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	22.4	8.5	0.0	0.0	20.1	10.1	0.0	0.0	0.0	57.1	0.0	61.3
Incr Delay (d2), s/veh	0.6	1.0	0.0	0.0	3.2	0.1	0.0	0.0	0.0	1.3	0.0	11.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.2	14.5	0.0	0.0	28.9	1.2	0.0	0.0	0.0	8.8	0.0	14.4
Unsig. Movement Delay, s/veh	22.0	٥٢	0.0	0.0	າາາ	10.0	0.0	0.0	0.0	FO 4	0.0	72.0
LnGrp Delay(d),s/veh	23.0 C	9.5	0.0 A	0.0 A	23.2 C	10.2	0.0	0.0	0.0	58.4 E	0.0	72.9
LnGrp LOS	C	A 1/20	A	A		В	A	A	A	E	A 272	E
Approach Vol, veh/h		1628			1848			0			372	
Approach LOS		10.1			22.9			0.0			67.3	
Approach LOS		В			С						Е	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		119.5		30.5	16.5	102.9		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		60.9		40.0	10.0	43.8		30.0				
Max Q Clear Time (g_c+I1), s		32.3		23.1	3.7	59.0		0.0				
Green Ext Time (p_c), s		21.0		1.5	0.0	0.0		0.0				
Intersection Summary												
Intersection Summary HCM 6th Ctrl Delay			21.7									

Intersection													
Int Delay, s/veh	33												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
ane Configurations		4			4		*	<b>^</b>	7		ħβ		
raffic Vol, veh/h	24	0	12	101	0	85	10	1665	58	50	1536	19	
uture Vol, veh/h	24	0	12	101	0	85	10	1665	58	50	1536	19	
onflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
ign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	
T Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
torage Length	-	-	-	-	-	-	240	-	300	425	-	-	
eh in Median Storage	e,# -	1	-	-	1	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
eak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
leavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
lvmt Flow	25	0	13	106	0	89	11	1753	61	53	1617	20	
lajor/Minor	Minor2		ı	Minor1		1	Major1		N	Major2			
Conflicting Flow All	2632	3569	819	2690	3518	877	1637	0	0	1814	0	0	
Stage 1	1733	1733	-	1775	1775	-	1037	-	-	-	-	-	
Stage 2	899	1836	_	915	1773	_	_	_	_	_	_	_	
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.18	_	_	4.18	_	_	
ritical Hdwy Stg 1	6.54	5.54	0.74	6.54	5.54	0.74	7.10	_	_	٠.١٥	_	_	
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	_	_	_	_	_	_	_	
ollow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.24	_	_	2.24	_	_	
Pot Cap-1 Maneuver	~ 11	6	319	~ 10	6	292	383	_	-	326	_	_	
Stage 1	91	141	-	~ 86	134	- 2/2	505	_	_	J20 -	_	_	
Stage 2	300	125	-	294	139	_	_	_	_	_	_	_	
latoon blocked, %	300	120		2/7	137			_	_		_	_	
Nov Cap-1 Maneuver	~ 7	5	319	~ 8	5	292	383	_	_	326	_	_	
Mov Cap-2 Maneuver	53	41	317	~ 59	55	- 272	505	_	_	J20 -	_	_	
Stage 1	88	118	_	~ 84	130	_	_	_	_	_	_	_	
Stage 2	202	121	_	236	116	_	_	_	_	_	_	_	
Stage 2	202	121		200	110								
	ED			WD			ND			CD			
pproach	EB			WB			NB 0.1			SB			
HCM Control Delay, s	98.5		\$	606.3			0.1			0.6			
ICM LOS	F			F									
								0.5.=					
Minor Lane/Major Mvn	nt	NBL	NBT	NBR	EBLn1V		SBL	SBT	SBR				
Capacity (veh/h)		383	-	-	73	93	326	-	-				
ICM Lane V/C Ratio		0.027	-	-		2.105		-	-				
ICM Control Delay (s)	)	14.7	-	-		606.3	18.2	-	-				
CM Lane LOS		В	-	-	F	F	С	-	-				
HCM 95th %tile Q(veh	1)	0.1	-	-	2.2	17.1	0.6	-	-				
lotes													
: Volume exceeds ca	nacity	\$: De	elav evo	eeds 3	00s	+. Com	putatior	Not D	efined	*· ΔII	maiory	volume i	n platoon
unie exceeds ca	pacity	a. De	ciay exc	ccus 3	002	T. CUIII	pulaliul	ו ואטנ טי	tilleu	. All	majui	volume II	ii piatuuil

	>	74	×	4	•	×	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	ሻሻ	77	<b>^</b> ^	77	ሻሻ	<b>^</b>	
Traffic Volume (veh/h)	907	878	1142	471	1079	2104	
Future Volume (veh/h)	907	878	1142	471	1079	2104	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	955	924	1202	496	1136	2215	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	906	1618	1335	730	1098	3202	
Arrive On Green	0.27	0.27	0.27	0.27	0.32	0.64	
Sat Flow, veh/h	3401	2745	5191	2745	3401	5191	
Grp Volume(v), veh/h	955	924	1202	496	1136	2215	
Grp Sat Flow(s), veh/h/ln	1700	1373	1675	1373	1700	1675	
						40.0	
Q Serve(g_s), s	37.3	29.2	32.3	22.7	45.2		
Cycle Q Clear(g_c), s	37.3	29.2	32.3	22.7	45.2	40.0	
Prop In Lane	1.00	1.00	4005	1.00	1.00	2000	
Lane Grp Cap(c), veh/h	906	1618	1335	730	1098	3202	
V/C Ratio(X)	1.05	0.57	0.90	0.68	1.03	0.69	
Avail Cap(c_a), veh/h	906	1618	1335	730	1098	3202	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Uniform Delay (d), s/veh	51.3	17.8	49.6	46.1	47.4	16.5	
Incr Delay (d2), s/veh	45.1	0.4	10.0	5.1	36.5	1.3	
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	29.2	13.2	20.6	12.7	32.8	20.5	
Unsig. Movement Delay, s/veh							
LnGrp Delay(d),s/veh	96.5	18.2	59.6	51.1	83.9	17.7	
LnGrp LOS	F	В	Е	D	F	В	
Approach Vol, veh/h	1879		1698			3351	
Approach Delay, s/veh	58.0		57.1			40.2	
Approach LOS	Е		E			D	
Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	52.0	44.0				96.0	44.0
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	45.2	37.2				89.2	37.3
Max Q Clear Time (g_c+l1), s	47.2	34.3				42.0	39.3
Green Ext Time (p_c), s	0.0	2.4				31.8	0.0
Intersection Summary							
HCM 6th Ctrl Delay			49.1				
HCM 6th LOS			D				
TOWN OUT LOO			D				

Intersection						
Int Delay, s/veh	0					
		EDT	MOT	MED	CDI	CDD
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	<b>^</b>	<b>^</b>	<b>_</b> ↑↑		<u>*</u>	
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	-	0	0
Veh in Median Storage,	# -	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
Major/Minor Ma	ajor1	ı	Major2	N	/linor2	
						1
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
<i>y</i>	4.18	-	-	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
	2.24	-	-	-	3.52	3.32
· · · · · · · · · · · · · · · · · · ·	1606	-	-	0	1021	1083
Stage 1	-	-	-	0	1022	-
Stage 2	-	-	-	0	-	-
Platoon blocked, %		-	-			
Mov Cap-1 Maneuver	1606	-	-	-	1021	1083
Mov Cap-2 Maneuver	-	-	-	-	933	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
J						
A	ED		MD		CD	
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					Α	
Minor Lane/Major Mvmt		EBL	EBT	WRT	SBLn1 S	SBI n2
Capacity (veh/h)		1606	LUI	1101	JULIII (	JULITE
HCM Lane V/C Ratio			-	•	-	-
		-	-	-	-	0
HCM Control Delay (s) HCM Lane LOS		0	-	-	0	
		A	-	-	Α	Α
HCM 95th %tile Q(veh)		0	-	-	-	-

ersection								
Delay, s/veh	1.7							
ovement	EBT	EBR	WBL	WBT	NBL	NBR		
ne Configurations	<b>^</b>	7	*	<b>^</b>	ች	7		
affic Vol, veh/h	1741	16	41	1517	37	75		
ture Vol, veh/h	1741	16	41	1517	37	75		
nflicting Peds, #/h	nr 0	0	0	0	0	0		
gn Control	Free	Free	Free	Free	Stop	Stop		
Channelized	-	None	-	None	-	None		
orage Length	-	400	415	-	0	0		
h in Median Stora	ige, # 0	-	-	0	1	-		
ade, %	0	-	-	0	0	-		
ak Hour Factor	95	95	95	95	95	95		
avy Vehicles, %	4	4	4	4	2	2		
mt Flow	1833	17	43	1597	39	79		
njor/Minor	Major1		Major2		/linor1			
nflicting Flow All	0	0	1850	0	2718	917		
Stage 1	-	-	-	-	1833	-		
Stage 2	-	-	-	-	885	-		
itical Hdwy	-	-	4.18	-	6.84	6.94		
itical Hdwy Stg 1	-	-	-	-	5.84	-		
itical Hdwy Stg 2	-	-	-	-	5.84	-		
llow-up Hdwy	-	-	2.24	-	3.52	3.32		
t Cap-1 Maneuve	r -	-	316	-	~ 17	274		
Stage 1	-	-	-	-	112	-		
Stage 2	-	-	-	-	364	-		
atoon blocked, %	-	-	011	-		07.4		
ov Cap-1 Maneuve		-	316	-	~ 15	274		
ov Cap-2 Maneuve		-	-	-	81	-		
Stage 1	-	-	-	-	112	-		
Stage 2	-	-	-	-	314	-		
proach	EB		WB		NB			
CM Control Delay,			0.5		43.8			
CM LOS	3 0		0.5		43.0 E			
JIVI LUJ								
nor Lane/Major M	vmt l	NBLn1 i	NBLn2	EBT	EBR	WBL	WBT	
pacity (veh/h)		81	274	-	-	316	-	
CM Lane V/C Ratio	0		0.288	_	_	0.137	-	
CM Control Delay		85.2	23.4	-	-	18.2	-	
CM Lane LOS	(-)	F	С	-	-	C	-	
CM 95th %tile Q(ve	eh)	2	1.2	-	-	0.5	-	
ites								
Volume exceeds of	canacity	¢. Do	lav ovo	eeds 30	ากร	+· Com	putation Not Defined	*: All major volume in platoor

Intersection													
Int Delay, s/veh	80.3												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	*	<b>^</b>	7	*	<b>^</b>	7		4		*		1	
Traffic Vol, veh/h	48	1333	34	40	1748	40	39	7	68	68	0	192	
Future Vol, veh/h	48	1333	34	40	1748	40	39	7	68	68	0	192	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None		_	None	-	-	None	-		None	
Storage Length	460	_	250	345	_	400	_	_	-	0	_	0	
/eh in Median Storage		0	-	-	0	-	-	1	_	-	1	-	
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
leavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2	
Nymt Flow	51	1403	36	42	1840	42	41	7	72	72	0	202	
WIVIIII I IOW	JI	1403	30	42	1040	42	71	,	12	12	U	202	
lajor/Minor N	Major1			Major2			Minor1			Minor2			
Conflicting Flow All	1882	0	0	1439	0	0	2509	3471	702	2731	_	920	
Stage 1	1002	-	U	1439	-	-	1505	1505	702		-	920	
	-	-	_	-	-	-	1004	1966	-	807	-	-	
Stage 2 Critical Hdwy	4.18		-	4.18		-	7.54	6.54	6.94	7.54		6.94	
, , , , , , , , , , , , , , , , , , ,	4.10	-	-	4.10	-	-				6.54	-	0.94	
ritical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-		-	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	-	-	
follow-up Hdwy	2.24	-	-	2.24	-	-	3.52	4.02	3.32	3.52	-	3.32	
ot Cap-1 Maneuver	307	-	-	458	-	-	~ 14	~ 6	381	~ 10	0	273	
Stage 1	-	-	-	-	-	-	127	182	-	~ 69	0	-	
Stage 2	-	-	-	-	-	-	259	107	-	341	0	-	
latoon blocked, %		-	-	.=-	-	-		_				.=.	
Nov Cap-1 Maneuver	307	-	-	458	-	-	~ 3	~ 5	381	~ 6	-	273	
lov Cap-2 Maneuver	-	-	-	-	-	-	~ 9	34	-	~ 42	-	-	
Stage 1	-	-	-	-	-	-	106	152	-	~ 58	-	-	
Stage 2	-	-	-	-	-	-	61	97	-	220	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.6			0.3		\$ 2	2126.2			179.5			
HCM LOS							F			F			
Minor Lane/Major Mvm	<u>t </u>	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1:	SBLn2			
Capacity (veh/h)		24	307	-	-	458	-	-	42	273			
HCM Lane V/C Ratio		5	0.165	-	-	0.092	-	-	1.704	0.74			
HCM Control Delay (s)	\$ 2	2126.2	19	-	-	13.7	-		550.6	48.1			
ICM Lane LOS		F	С	-	-	В	-	-	F	Ε			
HCM 95th %tile Q(veh)		15	0.6	-	-	0.3	-	-	7.3	5.3			
Notes													
·: Volume exceeds cap	nacity	\$. Da	alay eye	eeds 30	nns –	+: Com	nutation	Not D	efined	*. <b>\</b>	maiory	ioluma i	in platoon
Volume exceeds cap	acity	φ. Dt	Jay Exc	.ccus 31	JU3	⊤. CUIII	pulaliul	יט זטאר ד	ciiiieu	. All	majur	voluttie I	μαισση

	۶	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	~	<b>/</b>	<b>†</b>	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	<b>^</b>	77	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	77
Traffic Volume (veh/h)	683	428	567	475	605	571	715	820	515	364	483	614
Future Volume (veh/h)	683	428	567	475	605	571	715	820	515	364	483	614
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	719	451	597	500	637	601	753	863	542	383	508	646
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	697	875	1322	555	723	522	800	1077	735	434	681	1102
Arrive On Green	0.21	0.25	0.25	0.16	0.21	0.21	0.24	0.31	0.31	0.13	0.19	0.19
Sat Flow, veh/h	3374	3497	2723	3401	3497	1560	3401	3497	1560	3401	3497	2745
Grp Volume(v), veh/h	719	451	597	500	637	601	753	863	542	383	508	646
Grp Sat Flow(s), veh/h/ln	1687	1749	1362	1700	1749	1560	1700	1749	1560	1700	1749	1373
Q Serve(g_s), s	37.2	20.0	26.0	26.0	31.8	37.2	39.1	40.8	50.7	19.9	24.6	33.2
Cycle Q Clear(g_c), s	37.2	20.0	26.0	26.0	31.8	37.2	39.1	40.8	50.7	19.9	24.6	33.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	697	875	1322	555	723	522	800	1077	735	434	681	1102
V/C Ratio(X)	1.03	0.52	0.45	0.90	0.88	1.15	0.94	0.80	0.74	0.88	0.75	0.59
Avail Cap(c_a), veh/h	697	875	1322	741	723	522	967	1077	735	650	681	1102
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	71.4	58.1	30.5	73.9	69.3	59.9	67.6	57.2	38.6	77.2	68.3	42.2
Incr Delay (d2), s/veh	42.4	0.5	0.2	11.5	12.2	88.7	13.9	6.3	6.5	9.4	7.3	2.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	27.8	13.7	13.3	17.8	21.7	49.8	25.3	25.8	27.7	14.2	17.2	17.0
Unsig. Movement Delay, s/veh		58.6	30.8	85.4	81.5	140 4	01 E	63.6	45.1	86.5	75.6	44.5
LnGrp Delay(d),s/veh LnGrp LOS	113.8 F	58.0 E	30.8 C	65.4 F	61.5 F	148.6 F	81.5 F	03.0 E	45.1 D	80.5 F	75.0 E	44.5 D
	Г		U	Г		Г	Г		U	Г		D
Approach Vol, veh/h		1767			1738			2158			1537	
Approach LOS		71.6			105.8			65.2			65.2	
Approach LOS		E			F			E			E	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	50.2	41.8	36.2	51.8	29.8	62.2	44.0	44.0				
Change Period (Y+Rc), s	7.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8				
Max Green Setting (Gmax), s	51.2	26.2	39.2	35.2	34.4	44.0	37.2	37.2				
Max Q Clear Time (g_c+I1), s	41.1	35.2	28.0	28.0	21.9	52.7	39.2	39.2				
Green Ext Time (p_c), s	1.2	0.0	1.4	3.1	1.1	0.0	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			76.6									
HCM 6th LOS			Е									

User approved pedestrian interval to be less than phase max green. User approved ignoring U-Turning movement.

lay, s/veh
Minor   Major   Major   Minor   Mino
Configurations
EVOL, veh/h 1997 83 40 1457 48 23 EVOL, veh/h 1997 83 40 1457 48 23 Control Free Free Free Free Free Stop Stop Dannelized - None - None - None  ge Length - 225 240 - 0 - 0  Median Storage, # 0 0 0 0  Median Storage, # 0 0 0  Websites, % 0 0 0 0  Flow 2102 87 42 1534 51 24  Minor Major1 Major2 Minor1  Cting Flow All 0 0 2189 0 2953 1051  Stage 1 2102 - Stage 2 851  Il Hdwy Stg 1 584  Il Hdwy Stg 1 584  Il Hdwy Stg 2 80  Il Hdwy Stg 2 80  Il Hdwy Stg 2 80  Il Hdwy Stg 2  Il Hdwy Stg 2  Il Hdwy Stg 2  Il Hdwy Stg 2
e Vol, veh/h 1997 83 40 1457 48 23  cting Peds, #/hr 0 0 0 0 0 0 0 0  control Free Free Free Free Free Stop Stop  mannelized - None - None  ge Length - 225 240 - 0 -  midedian Storage, # 0 0 1 -  midedian Storage, # 0 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 2 0 0 0 -  midedian Storage, # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
cting Peds, #/hr         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0
Control Free Free Free Free Stop Stop nannelized - None -
Pannelized - None - None - None - None ge Length - 225 240 - 0 - 0 - 1 Median Storage, # 0 0 0 1 - 0 0 0 - 1 0 0 0 0 0 0 0 0
ge Length
Minor Major1 Major2 Minor1  Cting Flow All 0 2102 87 42 1534 51 24  Minor Major1 Major2 Minor1  Cting Flow All 0 2189 0 2953 1051  Stage 1 2102 -  Stage 2 851 -  Il Hdwy Stg 1 5.84 -  Il Hdwy Stg 2 5.84 -  If Hdwy Stg 2 5.84 -  If Hdwy 1 - 2.24 - 3.52 3.32  ap-1 Maneuver - 23211 223  Stage 2 80 -  Stage 2 80 -  Stage 1
Hour Factor 95 95 95 95 95 95 95 95 95 95 95 95 95
Hour Factor 95 95 95 95 95 95 95 95 95 95 95 95 95
Vehicles, %
Minor   Major1   Major2   Minor1   Minor   M
Minor Major1 Major2 Minor1  Cting Flow All 0 0 2189 0 2953 1051  Stage 1 2102 -  Stage 2 851 -  Il Hdwy - 4.18 - 6.84 6.94  Il Hdwy Stg 1 5.84 -  Il Hdwy Stg 2 5.84 -  Il Hdwy - 2.24 - 3.52 3.32  ap-1 Maneuver - 232 11 223  Stage 1 80 -  Stage 2 379 -  In blocked, %  Cap-1 Maneuver - 232 9 223  Cap-2 Maneuver 232 9 223  Cap-2 Maneuver 61 -  Stage 2 80 -  Stage 1
Cting Flow All 0 0 2189 0 2953 1051  Stage 1 2102 851 851
Cting Flow All 0 0 2189 0 2953 1051  Stage 1 2102 851 851
Stage 1       -       -       -       2102       -         Stage 2       -       -       -       851       -         All Hdwy Stg 1       -       -       -       5.84       -         Arup Hdwy Stg 2       -       -       -       5.84       -         Arup Hdwy       -       -       2.24       -       3.52       3.32         Ap-1 Maneuver       -       -       232       -       -       11       223         Stage 1       -       -       -       80       -         Stap-1 Maneuver       -       -       232       -       -       9       223         Cap-2 Maneuver       -       -       -       61       -       -         Stage 1       -       -       -       80       -       -         Stage 2       -       -       -       -       310       -
Stage 2
al Hdwy Stg 1 4.18 - 6.84 6.94 al Hdwy Stg 1 5.84 - al Hdwy Stg 2 5.84 - al Hdwy Stg 2 5.84 - ap-1 Maneuver - 232 11 223 Stage 1 80 - Stage 2 379 - an blocked, % cap-1 Maneuver - 232 9 223 cap-2 Maneuver 61 - Stage 1 80 - Stage 1 61 - Stage 2 310 -
Il Hdwy Stg 1 5.84 - Il Hdwy Stg 2 5.84 - Il Hdwy Stg 2 5.84 - Il Hdwy Stg 2 5.84 - Il Hdwy 2.24 - 3.52 3.32 In Hdwy 232 11 223 In Hdwy 80 - Il Hdwy 80 - Il Hdwy
Il Hdwy Stg 2 5.84 5.84
A-up Hdwy - 2.24 - 3.52 3.32 Ap-1 Maneuver - 232 - 11 223 Stage 1 80 - Stage 2 379 - April Maneuver - 232 - 9 223 Ap-1 Maneuver - 232 - 9 223 Ap-2 Maneuver 61 - Stage 1 80 - Stage 2 310 -
Stage 1 232 11 223  Stage 1 80 -  Stage 2 379 -  on blocked, %  Cap-1 Maneuver - 232 9 223  Cap-2 Maneuver 61 -  Stage 1 80 -  Stage 2 310 -
Stage 1 80 - Stage 2 379 - In blocked, % Stap-1 Maneuver - 232 - ~ 9 223 Sap-2 Maneuver 61 - Stage 1 80 - Stage 2 310 -
Stage 2 379 379 379
on blocked, %
Cap-1 Maneuver       -       -       232       -       ~ 9       223         Cap-2 Maneuver       -       -       -       61       -         Stage 1       -       -       -       80       -         Stage 2       -       -       -       310       -
Cap-2 Maneuver       -       -       -       61       -         Stage 1       -       -       -       80       -         Stage 2       -       -       -       310       -
Stage 1 80 - Stage 2 310 -
Stage 2 310 -
ach EB WB NB
Control Delay, s 0 0.6 173.5
LOS F
Lane/Major Mvmt NBLn1 EBT EBR WBL WBT
Sity (veh/h) 80 232 -
Lane V/C Ratio 0.934 0.181 -
Control Delay (s) 173.5 - 23.9 -
Lane LOS F C -
95th %tile Q(veh) 5 0.6 -
ume exceeds capacity \$: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	~	<b>&gt;</b>	ţ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ		7	ሻ	<b>₽</b>			र्स	7
Traffic Volume (veh/h)	55	1940	61	69	1400	22	97	0	20	40	0	56
Future Volume (veh/h)	55	1940	61	69	1400	22	97	0	20	40	0	56
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	67	2366	74	84	1707	27	118	0	24	49	0	68
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	237	2308	1029	148	2315	1032	179	0	224	229	0	224
Arrive On Green	0.05	0.66	0.66	0.05	0.66	0.66	0.14	0.00	0.14	0.14	0.00	0.14
Sat Flow, veh/h	1753	3497	1560	1753	3497	1560	1333	0	1585	1257	0	1585
Grp Volume(v), veh/h	67	2366	74	84	1707	27	118	0	24	49	0	68
Grp Sat Flow(s), veh/h/ln	1753	1749	1560	1753	1749	1560	1333	0	1585	1257	0	1585
Q Serve(g_s), s	1.6	92.5	2.4	2.4	45.2	0.8	12.3	0.0	1.9	4.5	0.0	5.4
Cycle Q Clear(g_c), s	1.6	92.5	2.4	2.4	45.2	0.8	18.6	0.0	1.9	6.3	0.0	5.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	237	2308	1029	148	2315	1032	179	0	224	229	0	224
V/C Ratio(X)	0.28	1.03	0.07	0.57	0.74	0.03	0.66	0.00	0.11	0.21	0.00	0.30
Avail Cap(c_a), veh/h	626	2308	1029	158	2315	1032	179	0	224	229	0	224
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	15.5	23.8	8.5	38.6	15.7	8.2	62.8	0.0	52.5	55.3	0.0	54.0
Incr Delay (d2), s/veh	0.5	25.5	0.1	3.4	2.1	0.0	8.5	0.0	0.2	0.2	0.0	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.5	52.7	1.4	3.6	23.4	0.5	8.1	0.0	1.4	2.9	0.0	3.9
Unsig. Movement Delay, s/veh		02.7		0.0	20.1	0.0	0.1	0.0	•••	2.,	0.0	0.7
LnGrp Delay(d),s/veh	16.0	49.4	8.7	42.0	17.8	8.2	71.3	0.0	52.7	55.4	0.0	54.3
LnGrp LOS	В	F	A	D	В	A	E	A	D	E	A	D
Approach Vol, veh/h		2507			1818			142			117	
Approach Delay, s/veh		47.3			18.8			68.1			54.8	
Approach LOS		T7.3			В			E			D D	
	1					,					D	
Timer - Assigned Phs Phs Duration (G+Y+Rc), s	15.2	100.0		25.0	5 14.9	100.3		25.0				
Change Period (Y+Rc), s	7.5	7.5		* 5.2	7.5	7.5		* 5.2				
Max Green Setting (Gmax), s												
Max Q Clear Time (g_c+l1), s	8.5	92.5 94.5		* 20	38.5	62.5 47.2		* 20				
	4.4			8.3	3.6			20.6				
Green Ext Time (p_c), s	0.0	0.0		0.2	0.1	13.4		0.0				
Intersection Summary			0.10									
HCM 6th Ctrl Delay			36.8									
HCM 6th LOS			D									
Notos												

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection								
Int Delay, s/veh	2.5							
Movement	NWL	NWR	NET	NER	SWL	SWT		
Lane Configurations	- 1	7		- 7	<u>ነ</u>	<b>^</b>		
Traffic Vol, veh/h	48	61	1763	78	70	1586		
Future Vol, veh/h	48	61	1763	78	70	1586		
Conflicting Peds, #/hr		0	0	0	0	0		
Sign Control	Stop	Stop	Free	Free	Free	Free		
RT Channelized	-	None	-	None	-	None		
Storage Length	0	0	-	295	390	-		
Veh in Median Storag	e, # 1	-	0	-	-	0		
Grade, %	0	-	0	-	-	0		
Peak Hour Factor	95	95	95	95	95	95		
Heavy Vehicles, %	2	2	4	4	4	4		
Mvmt Flow	51	64	1856	82	74	1669		
Major/Minor	Minor1	N	/laior1	N	Majora			
	Minor1		Major1		Major2	0		
Conflicting Flow All	2839	928	0	0	1938	0		
Stage 1	1856	-	-	-	-	-		
Stage 2	983	-	-	-	110	-		
Critical Hdwy	6.84	6.94	-	-	4.18	-		
Critical Hdwy Stg 1	5.84	-	-	-	-	-		
Critical Hdwy Stg 2	5.84	-	-	-	-	-		
Follow-up Hdwy	3.52	3.32	-	-	2.24	-		
Pot Cap-1 Maneuver	~ 14	270	-	-	292	-		
Stage 1	109	-	-	-	-	-		
Stage 2	323	-	-	-	-	-		
Platoon blocked, %		0==	-	-	0.5.5	-		
Mov Cap-1 Maneuver		270	-	-	292	-		
Mov Cap-2 Maneuver		-	-	-	-	-		
Stage 1	109	-	-	-	-	-		
Stage 2	241	-	-	-	-	-		
Approach	NW		NE		SW			
HCM Control Delay, s	69.9		0		0.9			
HCM LOS	F							
NA!		NICT	NED	114/1 45	114/1 0	C\*!	CMT	
Minor Lane/Major Mvr	nt	NET	NEKN	IWLn1N		SWL	SWT	
Capacity (veh/h)		-	-	72	270	292	-	
HCM Lane V/C Ratio		-		0.702		0.252	-	
HCM Control Delay (s	5)	-	-	130.3	22.4	21.4	-	
HCM Lane LOS		-	-	F	С	С	-	
HCM 95th %tile Q(veh	1)	-	-	3.2	0.9	1	-	
Notes								
~: Volume exceeds ca	anacity	\$· Do	lav evo	ceeds 30	nns	+· Com	putation Not Defined	*: All major volume in platoon
Volullie exceeds Co	apacity	φ. DE	iay ext	ceus 30	003	T. CUIII	putation Not Delined	. Ali major volume in piatoon

	۶	<b>→</b>	•	€	<b>—</b>	4	•	<b>†</b>	<i>&gt;</i>	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>			^↑	7	7	<b>↑</b>	7		र्स	7
Traffic Volume (veh/h)	120	1775	0	0	1516	99	0	0	0	89	0	87
Future Volume (veh/h)	120	1775	0	0	1516	99	0	0	0	89	0	87
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	0	0	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	126	1868	0	0	1596	104	0	0	0	94	0	92
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	0	0	4	4	2	2	2	2	2	2
Cap, veh/h	310	2919	0	0	2493	1112	1	1	1	128	0	114
Arrive On Green	0.07	0.83	0.00	0.00	0.71	0.71	0.00	0.00	0.00	0.07	0.00	0.07
Sat Flow, veh/h	1753	3589	0	0	3589	1560	1781	1870	1585	1781	0	1585
Grp Volume(v), veh/h	126	1868	0	0	1596	104	0	0	0	94	0	92
Grp Sat Flow(s), veh/h/ln	1753	1749	0	0	1749	1560	1781	1870	1585	1781	0	1585
Q Serve(g_s), s	2.2	26.6	0.0	0.0	33.7	2.9	0.0	0.0	0.0	7.2	0.0	8.0
Cycle Q Clear(g_c), s	2.2	26.6	0.0	0.0	33.7	2.9	0.0	0.0	0.0	7.2	0.0	8.0
Prop In Lane	1.00	2010	0.00	0.00	2402	1.00	1.00	1	1.00	1.00	0	1.00
Lane Grp Cap(c), veh/h	310	2919	0	0.00	2493	1112	0.00	1	0.00	128 0.73	0	114
V/C Ratio(X)	0.41 311	0.64 2919	0.00	0.00	0.64 2493	0.09 1112	382	0.00 401	340	242	0.00	0.81 215
Avail Cap(c_a), veh/h HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	11.3	4.1	0.00	0.00	10.6	6.2	0.00	0.00	0.00	63.6	0.00	64.0
Incr Delay (d2), s/veh	0.6	1.1	0.0	0.0	1.3	0.2	0.0	0.0	0.0	7.8	0.0	12.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	2.5	9.1	0.0	0.0	16.4	1.5	0.0	0.0	0.0	6.4	0.0	6.5
Unsig. Movement Delay, s/veh		7.1	0.0	0.0	10.4	1.0	0.0	0.0	0.0	0.4	0.0	0.0
LnGrp Delay(d),s/veh	11.9	5.2	0.0	0.0	11.9	6.3	0.0	0.0	0.0	71.5	0.0	76.5
LnGrp LOS	В	A	A	A	В	A	A	A	A	E	A	E
Approach Vol, veh/h		1994			1700	- ' '		0			186	
Approach Delay, s/veh		5.6			11.6			0.0			73.9	
Approach LOS		А			В						E	
Timer - Assigned Phs		2		4	5	6		8				
Phs Duration (G+Y+Rc), s		123.9		16.1	17.0	106.9		0.0				
Change Period (Y+Rc), s		7.1		6.0	7.1	7.1		6.0				
Max Green Setting (Gmax), s		71.9		19.0	10.0	54.8		30.0				
Max Q Clear Time (g_c+l1), s		28.6		10.0	4.2	35.7		0.0				
Green Ext Time (p_c), s		34.2		0.1	0.1	15.7		0.0				
•		01.2		0.1	0.1	10.7		0.0				
Intersection Summary			11 [									
HCM 6th Ctrl Delay			11.5									
HCM 6th LOS			В									

Intersection				_			_						
Int Delay, s/veh	13.8												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations		4			4		ሻ	<b>^</b>	7	ሻ	<b>†</b> }		
Traffic Vol, veh/h	19	0	17	58	0	50	38	1674	101	85	1577	65	
Future Vol, veh/h	19	0	17	58	0	50	38	1674	101	85	1577	65	
Conflicting Peds, #/hr		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	
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None	
Storage Length	-	-	-	-	-	-	240	-	300	425	-	-	
Veh in Median Storag	e,# -	1	-	-	1	-	-	0	-	-	0	-	
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	2	2	2	2	2	2	4	4	4	4	4	4	
Mvmt Flow	20	0	18	61	0	53	40	1762	106	89	1660	68	
Major/Minor	Minor2		1	Minor1		1	Major1		N	/lajor2			
Conflicting Flow All	2833	3820	864	2850	3748	881	1728	0		1868	0	0	
Stage 1	1872	1872	-	1842	1842	-	-	-	-	-	-	-	
Stage 2	961	1948	-	1008	1906	-	-	-	-	-	-	-	
Critical Hdwy	7.54	6.54	6.94	7.54	6.54	6.94	4.18	-	-	4.18	-	-	
Critical Hdwy Stg 1	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	6.54	5.54	-	6.54	5.54	-	-	-	-	-	-	-	
Follow-up Hdwy	3.52	4.02	3.32	3.52	4.02	3.32	2.24	-	-	2.24	-	-	
Pot Cap-1 Maneuver	~ 8	4	297	~ 8	4	290	353	-	-	311	-	-	
Stage 1	74	120	-	78	124	-	-	-	-	-	-	-	
Stage 2	275	110	-	258	115	-	-	-	-	-	-	-	
Platoon blocked, %								-	-		-	-	
Mov Cap-1 Maneuver	~ 5	3	297	~ 5	3	290	353	-	-	311	-	-	
Mov Cap-2 Maneuver		8	-	~ 44	29	-	-	-	-	-	-	-	
Stage 1	66	86	-	69	110	-	-	-	-	-	-	-	
Stage 2	200	98	-	173	82	-	-	-	-	-	-	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s			¢	414.4			0.3			1			
HCM LOS	F		Ψ	F			0.5			1			
HOW LOS	ı			ı									
Minor Lane/Major Mar	mt	NDI	NDT	NDD	EDI 51V	VDI n1	CDI	CDT	CDD				
Minor Lane/Major Mvr	TIL	NBL	NBT	MRKI	EBLn1V		SBL	SBT	SBR				
Capacity (veh/h)		353	-	-	68	72	311	-	-				
HCM Card ALD Alar	,	0.113	-			1.579		-	-				
HCM Control Delay (s	5)	16.5	-		110.6\$		21.2	-	-				
HCM Lane LOS	- \	С	-	-	F	F	C	-	-				
HCM 95th %tile Q(veh	1)	0.4	-	-	2.3	9.6	1.2	-	-				
110W 73W 70W Q(VC)	•												
Notes													

	>	74	$\mathbf{x}$	4	*	*	
Movement	EBL	EBR	SET	SER	NWL	NWT	
Lane Configurations	ሻሻ	77.77	ተተተ	77	ሻሻ	ተተተ	
Traffic Volume (veh/h)	672	1013	2005	857	838	1299	
Future Volume (veh/h)	672	1013	2005	857	838	1299	
Initial Q (Qb), veh	0	0	0	0	0	0	
Ped-Bike Adj(A_pbT)	1.00	1.00		1.00	1.00		
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	
Work Zone On Approach	No		No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	
Adj Flow Rate, veh/h	707	1066	2111	902	882	1367	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	
Percent Heavy Veh, %	4	4	4	4	4	4	
Cap, veh/h	639	1206	2089	1141	855	3597	
Arrive On Green	0.19	0.19	0.42	0.42	0.25	0.72	
Sat Flow, veh/h	3401	2745	5191	2745	3401	5191	
Grp Volume(v), veh/h	707	1066	2111	902	882	1367	
Grp Sat Flow(s),veh/h/ln	1700	1373	1675	1373	1700	1675	
Q Serve(g_s), s	26.3	26.3	58.2	40.0	35.2	14.9	
Cycle Q Clear(g_c), s	26.3	26.3	58.2	40.0	35.2	14.9	
Prop In Lane	1.00	1.00		1.00	1.00		
_ane Grp Cap(c), veh/h	639	1206	2089	1141	855	3597	
//C Ratio(X)	1.11	0.88	1.01	0.79	1.03	0.38	
Avail Cap(c_a), veh/h	639	1206	2089	1141	855	3597	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	
Jpstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	
Jniform Delay (d), s/veh	56.8	36.0	40.9	35.6	52.4	7.8	
ncr Delay (d2), s/veh	68.5	7.9	22.3	5.6	39.1	0.3	
nitial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	
%ile BackOfQ(95%),veh/ln	24.9	23.6	35.9	19.8	26.9	8.4	
Jnsig. Movement Delay, s/veh							
_nGrp Delay(d),s/veh	125.3	43.9	63.2	41.2	91.5	8.1	
nGrp LOS	F	D	F	D	F	Α	
Approach Vol, veh/h	1773		3013			2249	
Approach Delay, s/veh	76.4		56.6			40.8	
Approach LOS	E		Е			D	
Fimer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	42.0	65.0				107.0	33.0
Change Period (Y+Rc), s	6.8	6.8				6.8	6.7
Max Green Setting (Gmax), s	35.2	58.2				100.2	26.3
Max Q Clear Time (g_c+l1), s	37.2	60.2				16.9	28.3
Green Ext Time (p_c), s	0.0	0.0				16.9	0.0
ntersection Summary							
HCM 6th Ctrl Delay			56.5				
HCM 6th LOS			Е				

latan satis						
Intersection						
Int Delay, s/veh	0					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations	ሻ	<b>^</b>	<b>^</b>		ሻ	7
Traffic Vol, veh/h	0	0	0	0	0	0
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	465	-	-	-	0	0
Veh in Median Storage		0	0	-	1	_
Grade, %	-	0	0	_	0	_
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	4	4	4	4	2	2
Mvmt Flow	0	0	0	0	0	0
IVIVIIIL FIOW	U	U	U	U	U	U
Major/Minor I	Major1	N	Major2	N	Minor2	
Conflicting Flow All	1	0	-	0	1	1
Stage 1	-	-	-	-	1	-
Stage 2	-	-	-	-	0	-
Critical Hdwy	4.18	_	-	_	6.84	6.94
Critical Hdwy Stg 1	-	_	_	_	5.84	-
Critical Hdwy Stg 2	_	_	_	_	5.84	_
Follow-up Hdwy	2.24	_	_	_	3.52	3.32
Pot Cap-1 Maneuver	1606			0	1021	1083
Stage 1	-	_	_	0	1021	-
Stage 2			-	0	1022	<del>-</del>
Platoon blocked, %	-	-	-	U	-	-
	1404	-	-		1001	1002
Mov Cap-1 Maneuver	1606	-	-	-	1021	1083
Mov Cap-2 Maneuver	-	-	-	-	933	-
Stage 1	-	-	-	-	1022	-
Stage 2	-	-	-	-	-	-
Approach	EB		WB		SB	
HCM Control Delay, s	0		0		0	
HCM LOS					A	
TIOW EOO					, (	
Minor Lane/Major Mvm	nt	EBL	EBT	WBT S	SBLn1 S	SBLn2
Capacity (veh/h)		1606	-	-	-	-
HCM Lane V/C Ratio		-	-	-	-	-
HCM Control Delay (s)		0	-	-	0	0
HCM Lane LOS		Α	-	-	Α	Α
HCM 95th %tile Q(veh)	)	0	-	-	-	-
	,					

Intersection								
nt Delay, s/veh	1.3							
	EBT	EBR	WBL	WBT	NBL	NBR		
Movement			VVDL		NDL			
ane Configurations  raffic Vol, veh/h	<b>↑</b> ↑ 1674	<b>7</b> 30	<b>7</b> 50	<b>↑↑</b> 1675	33	<b>7</b> 52		
uture Vol, veh/h	1674	30	50	1675	33	52		
conflicting Peds, #/hr	0	0	0	0	0	0		
sign Control	Free	Free	Free	Free	Stop	Stop		
RT Channelized	-	None	-	None	310p	None		
Storage Length	-	400	415	-	0	0		
eh in Median Storag		-	413	0	1	-		
Grade, %	0	_	_	0	0	_		
Peak Hour Factor	95	95	95	95	95	95		
leavy Vehicles, %	4	4	4	4	2	2		
Ivmt Flow	1762	32	53	1763	35	55		
VIII I IOV	1702	02	00	1700	00	00		
ajor/Minor	Major1	ı	Major2	N	/linor1			
onflicting Flow All	0		1794		2750	881		
Stage 1	-	-	1/74	-	1762	- 001		
Stage 2	-	_	_	_	988	_		
ritical Hdwy	_	-	4.18	_	6.84	6.94		
itical Hdwy Stg 1	_	_	-	_	5.84	-		
itical Hdwy Stg 2	_	-	_	_	5.84	-		
ollow-up Hdwy	_	_	2.24	_	3.52	3.32		
ot Cap-1 Maneuver	_	_	332	_	~ 16	290		
Stage 1	-	_	-	_	123	-		
Stage 2	-	-	-	-	321	-		
atoon blocked, %	-	-		-				
lov Cap-1 Maneuver	-	-	332	-	~ 13	290		
lov Cap-2 Maneuver		-	-	-	82	-		
Stage 1	-	-	-	-	123	-		
Stage 2	-	-	-	-	270	-		
pproach	EB		WB		NB			
CM Control Delay, s			0.5		42.7			
CM LOS			- 3.3		E			
inor Lane/Major Mvr	nt I	NBLn1 i	VBLn2	EBT	EBR	WBL	WBT	
apacity (veh/h)		82	290	-	-	332	-	
CM Lane V/C Ratio		0.424		_		0.159	<u>-</u>	
CM Control Delay (s	;)	77.9	20.3	-	-	17.9	-	
CM Lane LOS	,	F	C	_	-	C	-	
CM 95th %tile Q(veh	1)	1.7	0.7	-	-	0.6	-	
Notes								
	nacity	¢. D.	Nov. ov.	nondo 20	2000	Corr	outation Not Dafine	*. All major valuma in plata an
Volume exceeds ca	apacity	\$: D6	elay exc	ceeds 30	JUS	+: Com	putation Not Defined	*: All major volume in platoon

Intersection													
Int Delay, s/veh	224.1												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
Lane Configurations	7	<b>^</b>	7	ሻ	<b>^</b>	7	IVDL	4	NDIX	ODL	<u> </u>	7	
Traffic Vol, veh/h	170	1795	104	65	1419	94	55	7	55	43	0	69	
Future Vol, veh/h	170	1795	104	65	1419	94	55	7	55	43	0	69	
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop	
RT Channelized	-	-	None	-	-	None	-	-	None	- -	-	None	
Storage Length	460		250	345	_	400	_	_	-	_	_	0	
Veh in Median Storage		0	200	-	0	-100	-	1	_	_	1	-	
Grade, %	-	0	_	_	0	_	_	0	_	_	0	_	
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95	
Heavy Vehicles, %	4	4	4	4	4	4	2	2	2	2	2	2	
Nomt Flow	179	1889	109	68	1494	99	58	7	58	45	0	73	
VIVIIIL FIOW	1/9	1009	109	00	1494	99	30	1	30	43	U	13	
Major/Minor N	Major1		ı	Major2		N	Minor1			Minor2			
		0			0			2074			2004	7.47	
Conflicting Flow All	1593	0	0	1998	0	0	3130	3976	945	2936	3986	747	
Stage 1	-	-	-	-	-	-	2247	2247	-	1630	1630	-	
Stage 2	- 110	-	-	4 1 0	-	-	883	1729	- / 0.4	1306	2356	-	
Critical Hdwy	4.18	-	-	4.18	-	-	7.54	6.54	6.94	7.54	6.54	6.94	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-	
ollow-up Hdwy	2.24	-	-	2.24	-	-	3.52	4.02	3.32	3.52	4.02	3.32	
Pot Cap-1 Maneuver	398	-	-	276	-	-	~ 5	~ 3	263	~ 7	3	355	
Stage 1	-	-	-	-	-	-	~ 43	77	-	106	158	-	
Stage 2	-	-	-	-	-	-	307	141	-	169	68	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	398	-	-	276	-	-	~ 2	~ 1	263	~ 3	1	355	
Mov Cap-2 Maneuver	-	-	-	-	-	-	~ 4	85	-	~ -10	~ -39	-	
Stage 1	-	-	-	-	-	-	~ 24	42	-	58	119	-	
Stage 2	-	-	-	-	-	-	184	106	-	60	37	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	1.7			0.9		\$ 7	7382.6						
HCM LOS							F			-			
Minor Lane/Major Mvm	t N	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1:	SBLn2			
Capacity (veh/h)		8	398	-	_	276	-	-	+	355			
HCM Lane V/C Ratio	1	5.395	0.45	-	-	0.248	-	-		0.205			
HCM Control Delay (s)		382.6	21.2	_	-	22.3	-	-	-	17.7			
HCM Lane LOS	, ,	F	С	-	-	С	-	_	-	С			
HCM 95th %tile Q(veh)		17.1	2.3	-	-	1	-	-	-	0.8			
Notes													
~: Volume exceeds cap	nacity	\$. Do	alay eye	eeds 30	ηης	+: Com	nutation	Not D	efined	*· \\	maiory	volume i	in platoon
<ul> <li>volume exceeds cap</li> </ul>	Jacily	φ. DE	ciay exc	.ccus 31	102	+. CUIII	pulaliUl	ו ואטנ טי	ciiileu	. All	majui \	volullie	ιιι μιαιυυι1

	۶	<b>→</b>	•	•	<b>←</b>	4	1	<b>†</b>	~	<b>/</b>	<b>†</b>	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻሻ	<b>^</b>	77	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	7	ሻሻ	<b>^</b>	77
Traffic Volume (veh/h)	616	612	824	522	529	268	566	487	482	582	827	685
Future Volume (veh/h)	616	612	824	522	529	268	566	487	482	582	827	685
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1826	1841	1826	1841	1841	1841	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	648	644	867	549	557	282	596	513	507	613	871	721
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	5	4	5	4	4	4	4	4	4	4	4	4
Cap, veh/h	677	716	1058	578	609	566	626	1686	1017	642	1679	1869
Arrive On Green	0.20	0.20	0.20	0.17	0.17	0.17	0.18	0.48	0.48	0.19	0.48	0.48
Sat Flow, veh/h	3374	3497	2723	3401	3497	1560	3401	3497	1560	3401	3497	2745
Grp Volume(v), veh/h	648	644	867	549	557	282	596	513	507	613	871	721
Grp Sat Flow(s),veh/h/ln	1687	1749	1362	1700	1749	1560	1700	1749	1560	1700	1749	1373
Q Serve(g_s), s	28.5	26.9	30.7	24.0	23.5	21.1	26.0	13.4	25.1	26.8	25.9	17.1
Cycle Q Clear(g_c), s	28.5	26.9	30.7	24.0	23.5	21.1	26.0	13.4	25.1	26.8	25.9	17.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	677	716	1058	578	609	566	626	1686	1017	642	1679	1869
V/C Ratio(X)	0.96	0.90	0.82	0.95	0.92	0.50	0.95	0.30	0.50	0.96	0.52	0.39
Avail Cap(c_a), veh/h	677	716	1058	578	609	566	626	1686	1017	642	1679	1869
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.3	58.1	41.1	61.6	60.9	37.2	60.6	23.6	13.5	60.2	27.0	10.4
Incr Delay (d2), s/veh	24.4	14.4	5.2	25.4	18.6	0.7	24.5	0.5	1.7	24.9	1.2	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	20.4	19.0	21.0	17.9	17.4	12.7	19.1	9.4	13.5	19.5	16.2	8.5
Unsig. Movement Delay, s/veh		70 /	4/ 0	07.1	70 F	27.0	05.1	24.0	15.0	0F 1	20.2	11.0
LnGrp Delay(d),s/veh	83.8	72.6	46.3	87.1	79.5	37.9	85.1	24.0	15.2	85.1	28.2	11.0
LnGrp LOS	F	E 2150	D	F	E 1200	D	F	C	В	F	С	В
Approach Vol, veh/h		2159			1388			1616			2205	
Approach Delay, s/veh		65.4			74.0			43.8			38.4	
Approach LOS		E			E			D			D	
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	35.4	79.8	32.3	37.5	35.1	80.1	36.9	32.9				
Change Period (Y+Rc), s	7.8	6.8	6.8	* 6.8	6.8	6.8	6.8	6.8				
Max Green Setting (Gmax), s	27.6	39.0	25.5	* 31	28.3	39.3	30.1	25.1				
Max Q Clear Time (g_c+l1), s	28.0	27.9	26.0	32.7	28.8	27.1	30.5	25.5				
Green Ext Time (p_c), s	0.0	6.3	0.0	0.0	0.0	4.1	0.0	0.0				
Intersection Summary												
HCM 6th Ctrl Delay			54.2									
HCM 6th LOS			D									

Notes

User approved pedestrian interval to be less than phase max green.

User approved ignoring U-Turning movement.

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

## **Appendix K**

**Build Synchro with Signals** 

	•	<b>→</b>	•	•	•	•	4	<b>†</b>	~	<b>&gt;</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	¥	<b>^</b>	7	ħ	<b>^</b>	7		4			4	7
Traffic Volume (veh/h)	44	1008	27	27	1294	34	36	5	53	64	0	190
Future Volume (veh/h)	44	1008	27	27	1294	34	36	5	53	64	0	190
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	46	1061	28	28	1362	36	38	5	56	67	0	200
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	300	2286	1020	385	2286	1020	140	31	176	350	0	405
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.26	0.26	0.26	0.26	0.00	0.26
Sat Flow, veh/h	380	3497	1560	510	3497	1560	410	120	690	1168	0	1585
Grp Volume(v), veh/h	46	1061	28	28	1362	36	99	0	0	67	0	200
Grp Sat Flow(s), veh/h/ln	380	1749	1560	510	1749	1560	1220	0	0	1168	0	1585
Q Serve(q_s), s	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	15.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.0	8.7	0.0	15.0
Prop In Lane	1.00	0.0	1.00	1.00	0.0	1.00	0.38	0.0	0.57	1.00	0.0	1.00
Lane Grp Cap(c), veh/h	300	2286	1020	385	2286	1020	347	0	0.37	350	0	405
V/C Ratio(X)	0.15	0.46	0.03	0.07	0.60	0.04	0.28	0.00	0.00	0.19	0.00	0.49
Avail Cap(c_a), veh/h	300	2286	1020	385	2286	1020	347	0.00	0.00	350	0.00	405
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.86	0.86	0.86	0.84	0.84	0.84	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.00	0.00	0.0	0.0	0.0	0.0	43.6	0.0	0.00	42.0	0.0	44.4
Incr Delay (d2), s/veh	0.9	0.6	0.0	0.3	1.0	0.0	2.1	0.0	0.0	1.2	0.0	4.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.0	0.0	0.0	0.0	0.6	0.0	5.7	0.0	0.0	3.6	0.0	10.7
Unsig. Movement Delay, s/veh		0.5	0.0	0.1	0.0	0.0	J.1	0.0	0.0	3.0	0.0	10.7
LnGrp Delay(d),s/veh	0.9	0.6	0.0	0.3	1.0	0.1	45.7	0.0	0.0	43.2	0.0	48.6
LnGrp LOS	Α	Α	Α	0.3 A	Α	Α	43.7 D	Α	Α	43.2 D	Α	40.0 D
			^	^			U	99	^	U		
Approach Vol, veh/h		1135			1426						267	
Approach LOS		0.6			0.9			45.7			47.3	
Approach LOS		А			Α			D			D	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		41.0		99.0		41.0		99.0				
Change Period (Y+Rc), s		* 5.2		7.5		* 5.2		7.5				
Max Green Setting (Gmax), s		* 36		91.5		* 36		91.5				
Max Q Clear Time (g_c+I1), s		15.1		2.0		17.0		2.0				
Green Ext Time (p_c), s		0.5		10.7		1.0		13.6				
Intersection Summary												
HCM 6th Ctrl Delay			6.5									
HCM 6th LOS			А									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	/	<b>/</b>	ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	<b>^</b>	7	ሻ	<b>^</b>	7		4			र्स	7
Traffic Volume (veh/h)	168	1341	85	51	1046	88	50	7	44	39	0	67
Future Volume (veh/h)	168	1341	85	51	1046	88	50	7	44	39	0	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	177	1412	89	54	1101	93	53	7	46	41	0	71
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	376	2483	1108	292	2483	1108	162	30	119	300	0	325
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.21	0.21	0.21	0.21	0.00	0.21
Sat Flow, veh/h	461	3497	1560	344	3497	1560	613	145	581	1228	0	1585
Grp Volume(v), veh/h	177	1412	89	54	1101	93	106	0	0	41	0	71
Grp Sat Flow(s),veh/h/ln	461	1749	1560	344	1749	1560	1340	0	0	1228	0	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	5.6
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	4.9	0.0	5.6
Prop In Lane	1.00		1.00	1.00		1.00	0.50		0.43	1.00		1.00
Lane Grp Cap(c), veh/h	376	2483	1108	292	2483	1108	311	0	0	300	0	325
V/C Ratio(X)	0.47	0.57	0.08	0.18	0.44	0.08	0.34	0.00	0.00	0.14	0.00	0.22
Avail Cap(c_a), veh/h	376	2483	1108	292	2483	1108	311	0	0	300	0	325
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.63	0.63	0.63	0.89	0.89	0.89	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	52.7	0.0	0.0	49.3	0.0	49.6
Incr Delay (d2), s/veh	2.7	0.6	0.1	1.2	0.5	0.1	3.0	0.0	0.0	0.9	0.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.5	0.4	0.0	0.2	0.3	0.1	6.9	0.0	0.0	2.5	0.0	4.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	2.7	0.6	0.1	1.2	0.5	0.1	55.6	0.0	0.0	50.3	0.0	51.1
LnGrp LOS	Α	Α	А	Α	А	Α	Е	Α	А	D	Α	D
Approach Vol, veh/h		1678			1248			106			112	
Approach Delay, s/veh		0.8			0.5			55.6			50.8	
Approach LOS		А			Α			Е			D	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		36.0		114.0		36.0		114.0				
Change Period (Y+Rc), s		* 5.2		7.5		* 5.2		7.5				
Max Green Setting (Gmax), s		* 31		106.5		* 31		106.5				
Max Q Clear Time (g_c+l1), s		14.1		2.0		7.6		2.0				
Green Ext Time (p_c), s		0.5		23.0		0.4		11.2				
Intersection Summary												
HCM 6th Ctrl Delay			4.3									
HCM 6th LOS			4.3 A									
Notes			/ \									

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	<b>→</b>	•	•	<b>—</b>	•	1	<b>†</b>	<i>&gt;</i>	<b>/</b>	<b>+</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		7	<b>^</b>	7	7	ħβ	
Traffic Volume (veh/h)	24	0	12	101	0	85	10	1665	58	50	1536	19
Future Volume (veh/h)	24	0	12	101	0	85	10	1665	58	50	1536	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	25	0	13	106	0	89	11	1753	61	53	1617	20
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	4	4	4	4	4	4
Cap, veh/h	234	19	83	209	14	113	212	2226	993	182	2252	28
Arrive On Green	0.16	0.00	0.16	0.16	0.00	0.16	0.64	0.64	0.64	0.64	0.64	0.64
Sat Flow, veh/h	856	115	505	739	82	689	302	3497	1560	254	3538	44
Grp Volume(v), veh/h	38	0	0	195	0	0	11	1753	61	53	798	839
Grp Sat Flow(s),veh/h/ln	1475	0	0	1510	0	0	302	1749	1560	254	1749	1833
Q Serve(g_s), s	0.0	0.0	0.0	6.6	0.0	0.0	1.6	23.3	0.9	12.2	19.5	19.5
Cycle Q Clear(g_c), s	1.2	0.0	0.0	7.8	0.0	0.0	21.2	23.3	0.9	35.5	19.5	19.5
Prop In Lane	0.66		0.34	0.54		0.46	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	336	0	0	335	0	0	212	2226	993	182	1113	1166
V/C Ratio(X)	0.11	0.00	0.00	0.58	0.00	0.00	0.05	0.79	0.06	0.29	0.72	0.72
Avail Cap(c_a), veh/h	566	0	0	580	0	0	216	2266	1011	185	1133	1187
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.8	0.0	0.0	25.4	0.0	0.0	14.9	8.4	4.4	21.4	7.8	7.8
Incr Delay (d2), s/veh	0.1	0.0	0.0	1.6	0.0	0.0	0.1	1.9	0.0	0.9	2.2	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.9	0.0	0.0	5.1	0.0	0.0	0.2	8.5	0.3	1.2	7.6	7.9
Unsig. Movement Delay, s/veh	1											
LnGrp Delay(d),s/veh	22.9	0.0	0.0	27.0	0.0	0.0	15.0	10.3	4.4	22.3	9.9	9.9
LnGrp LOS	С	Α	Α	С	Α	Α	В	В	Α	С	Α	<u>A</u>
Approach Vol, veh/h		38			195			1825			1690	
Approach Delay, s/veh		22.9			27.0			10.2			10.3	
Approach LOS		С			С			В			В	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		48.1		15.7		48.1		15.7				
Change Period (Y+Rc), s		7.5		* 5.2		7.5		* 5.2				
Max Green Setting (Gmax), s		41.3		* 21		41.3		* 21				
Max Q Clear Time (q_c+l1), s		25.3		3.2		37.5		9.8				
Green Ext Time (p_c), s		10.7		0.1		3.0		0.8				
Intersection Summary												
HCM 6th Ctrl Delay			11.2									
HCM 6th LOS			В									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	<b>→</b>	*	•	<b>←</b>	4	1	<b>†</b>	~	<b>/</b>	Ţ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7		4			4	7
Traffic Volume (veh/h)	48	1333	34	40	1748	40	39	7	68	68	0	192
Future Volume (veh/h)	48	1333	34	40	1748	40	39	7	68	68	0	192
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	51	1403	36	42	1840	42	41	7	72	72	0	202
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	220	2523	1125	311	2523	1125	82	26	113	216	0	307
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.19	0.19	0.19	0.19	0.00	0.19
Sat Flow, veh/h	238	3497	1560	365	3497	1560	255	133	582	865	0	1585
Grp Volume(v), veh/h	51	1403	36	42	1840	42	120	0	0	72	0	202
Grp Sat Flow(s),veh/h/ln	238	1749	1560	365	1749	1560	970	0	0	865	0	1585
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	17.7
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	21.3	0.0	0.0	13.9	0.0	17.7
Prop In Lane	1.00		1.00	1.00		1.00	0.34		0.60	1.00		1.00
Lane Grp Cap(c), veh/h	220	2523	1125	311	2523	1125	220	0	0	216	0	307
V/C Ratio(X)	0.23	0.56	0.03	0.13	0.73	0.04	0.54	0.00	0.00	0.33	0.00	0.66
Avail Cap(c_a), veh/h	220	2523	1125	311	2523	1125	220	0	0	216	0	307
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.66	0.66	0.66	0.66	0.66	0.66	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	58.2	0.0	0.0	54.3	0.0	55.8
Incr Delay (d2), s/veh	1.6	0.6	0.0	0.6	1.3	0.0	9.3	0.0	0.0	4.1	0.0	10.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	0.2	0.4	0.0	0.1	0.8	0.0	8.6	0.0	0.0	4.9	0.0	12.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	1.6	0.6	0.0	0.6	1.3	0.0	67.6	0.0	0.0	58.5	0.0	66.3
LnGrp LOS	Α	Α	Α	Α	Α	Α	Ε	Α	Α	Е	Α	Е
Approach Vol, veh/h		1490			1924			120			274	
Approach Delay, s/veh		0.6			1.2			67.6			64.3	
Approach LOS		Α			Α			Е			Е	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		34.3		115.7		34.3		115.7				
Change Period (Y+Rc), s		* 5.2		7.5		* 5.2		7.5				
Max Green Setting (Gmax), s		* 29		108.2		* 29		108.2				
Max Q Clear Time (g_c+l1), s		23.3		2.0		19.7		2.0				
Green Ext Time (p_c), s		0.3		19.1		0.7		27.6				
Intersection Summary												
HCM 6th Ctrl Delay			7.6									
HCM 6th LOS			А									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	<b>→</b>	•	•	<b>←</b>	•	4	<b>†</b>	<b>/</b>	<b>/</b>	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		7	<b>^</b>	7	ሻ	<b>∱</b> ∱	
Traffic Volume (veh/h)	19	0	17	58	0	50	38	1674	101	85	1577	65
Future Volume (veh/h)	19	0	17	58	0	50	38	1674	101	85	1577	65
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1841	1841	1841	1841	1841	1841
Adj Flow Rate, veh/h	20	0	18	61	0	53	40	1762	106	89	1660	68
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	4	4	4	4	4	4
Cap, veh/h	142	21	80	147	9	71	228	2550	1137	207	2496	102
Arrive On Green	0.10	0.00	0.10	0.10	0.00	0.10	0.73	0.73	0.73	0.73	0.73	0.73
Sat Flow, veh/h	684	208	802	731	92	715	276	3497	1560	241	3425	140
Grp Volume(v), veh/h	38	0	0	114	0	0	40	1762	106	89	844	884
Grp Sat Flow(s), veh/h/ln	1693	0	0	1538	0	0	276	1749	1560	241	1749	1816
Q Serve(g_s), s	0.0	0.0	0.0	3.7	0.0	0.0	6.6	20.4	1.5	23.7	18.7	19.0
Cycle Q Clear(g_c), s	1.5	0.0	0.0	5.2	0.0	0.0	25.7	20.4	1.5	44.0	18.7	19.0
Prop In Lane	0.53	0.0	0.47	0.54	0.0	0.46	1.00	2011	1.00	1.00		0.08
Lane Grp Cap(c), veh/h	243	0	0	228	0	0	228	2550	1137	207	1275	1324
V/C Ratio(X)	0.16	0.00	0.00	0.50	0.00	0.00	0.18	0.69	0.09	0.43	0.66	0.67
Avail Cap(c_a), veh/h	510	0	0	500	0	0	236	2659	1186	214	1330	1381
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.7	0.0	0.0	32.3	0.0	0.0	12.1	5.5	2.9	17.5	5.3	5.3
Incr Delay (d2), s/veh	0.3	0.0	0.0	1.7	0.0	0.0	0.4	0.7	0.0	1.4	1.2	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	1.1	0.0	0.0	3.7	0.0	0.0	0.6	5.4	0.3	2.0	5.3	5.6
Unsig. Movement Delay, s/veh		0.0	0.0	0.7	0.0	0.0	0.0	0.1	0.0	2.0	0.0	0.0
LnGrp Delay(d),s/veh	31.0	0.0	0.0	34.0	0.0	0.0	12.4	6.2	3.0	18.9	6.4	6.5
LnGrp LOS	C	A	A	C	A	A	В	A	A	В	A	A
Approach Vol, veh/h		38			114	, , <u>, , , , , , , , , , , , , , , , , </u>		1908			1817	
Approach Delay, s/veh		31.0			34.0			6.2			7.1	
Approach LOS		C C			C C			0.2 A			7.1 A	
					C						А	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		61.5		12.6		61.5		12.6				
Change Period (Y+Rc), s		7.5		* 5.2		7.5		* 5.2				
Max Green Setting (Gmax), s		56.3		* 21		56.3		* 21				
Max Q Clear Time (g_c+I1), s		27.7		3.5		46.0		7.2				
Green Ext Time (p_c), s		16.8		0.1		7.9		0.5				
Intersection Summary												
HCM 6th Ctrl Delay			7.7									
HCM 6th LOS			Α									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

	۶	<b>→</b>	•	•	<b>←</b>	•	•	<b>†</b>	~	<b>/</b>	<b>↓</b>	✓
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ሻ	<b>^</b>	7	ሻ	<b>^</b>	7		4			र्स	7
Traffic Volume (veh/h)	170	1795	104	65	1419	94	55	7	55	43	0	69
Future Volume (veh/h)	170	1795	104	65	1419	94	55	7	55	43	0	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1841	1841	1841	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	179	1889	109	68	1494	99	58	7	58	45	0	73
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	4	4	4	2	2	2	2	2	2
Cap, veh/h	210	2525	1126	201	2525	1126	141	26	118	268	0	306
Arrive On Green	1.00	1.00	1.00	0.72	0.72	0.72	0.19	0.19	0.19	0.19	0.00	0.19
Sat Flow, veh/h	315	3497	1560	212	3497	1560	547	136	610	1140	0	1585
Grp Volume(v), veh/h	179	1889	109	68	1494	99	123	0	0	45	0	73
Grp Sat Flow(s),veh/h/ln	315	1749	1560	212	1749	1560	1294	0	0	1140	0	1585
Q Serve(g_s), s	77.2	0.0	0.0	19.7	31.1	2.8	8.8	0.0	0.0	0.0	0.0	5.8
Cycle Q Clear(g_c), s	108.3	0.0	0.0	19.7	31.1	2.8	14.8	0.0	0.0	6.0	0.0	5.8
Prop In Lane	1.00		1.00	1.00		1.00	0.47		0.47	1.00		1.00
Lane Grp Cap(c), veh/h	210	2525	1126	201	2525	1126	285	0	0	268	0	306
V/C Ratio(X)	0.85	0.75	0.10	0.34	0.59	0.09	0.43	0.00	0.00	0.17	0.00	0.24
Avail Cap(c_a), veh/h	210	2525	1126	201	2525	1126	285	0	0	268	0	306
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.15	0.15	0.15	0.74	0.74	0.74	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.2	0.0	0.0	8.5	10.1	6.2	55.5	0.0	0.0	51.2	0.0	51.2
Incr Delay (d2), s/veh	6.7	0.3	0.0	3.3	0.8	0.1	4.7	0.0	0.0	1.3	0.0	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(95%),veh/ln	7.9	0.2	0.0	1.7	14.6	1.5	8.2	0.0	0.0	2.8	0.0	4.5
Unsig. Movement Delay, s/vel	ı											
LnGrp Delay(d),s/veh	25.9	0.3	0.0	11.9	10.9	6.3	60.2	0.0	0.0	52.6	0.0	53.0
LnGrp LOS	С	Α	Α	В	В	Α	Ε	Α	Α	D	Α	D
Approach Vol, veh/h		2177			1661			123			118	
Approach Delay, s/veh		2.4			10.6			60.2			52.8	
Approach LOS		А			В			Е			D	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		34.2		115.8		34.2		115.8				
Change Period (Y+Rc), s		* 5.2		7.5		* 5.2		7.5				
Max Green Setting (Gmax), s		* 29		108.3		* 29		108.3				
Max Q Clear Time (q_c+l1), s		16.8		110.3		8.0		33.1				
Green Ext Time (p_c), s		0.5		0.0		0.4		21.7				
Intersection Summary												
HCM 6th Ctrl Delay			9.0									
HCM 6th LOS			Α									
Notes												

<sup>\*</sup> HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

# **Appendix K**

Signal Warrant Analysis

#### Page 1 of 6

### TRAFFIC SIGNAL WARRANT SUMMARY

City:		NA					En	gineer:			NA		
County:	Os	ceola						Date:		Dec	ember	15, 202	0
Major Street:	Sprin Int	Boggy Igslake terim Y	Village	Road e Boule 35 - Bui	evard ld		Lan Lan		<u>2</u> I	Critical	Approa	ach Spe	ed: <u>45</u>
Volume Level Criteria  1. Is the critical sp 2. Is the intersecti	eed of ron in a b	ouilt-up	area of	fisolate	d comm	nunity of	<10,00		ation?		68 68	Yes Yes 70%	□ No □ No □ 100%
WARRANT 1 - EIG  Warrant 1 is satisfied  Warrant is also satisfied  "56%" satisfied for  Condition A - Min	d if Condi fied if bot major str	tion A or h Condit eets gre	Condition A an	on B is ": nd Condi n 40 mpl	100%" sa tion B ar	atisfied.		<i>for majo</i> 100% (7 56% or	Sa r streets '0%) Sa	atisfied:	or less,	Yes Yes or Yes Yes	□ No □ No □ No □ No
	Eight Highest Ho									urs			
(volumes in vel	Minimum Requirements								PM	PM	PM		
Volume Leve		100%	70%	100%	70%	9-9	7-8 AM	1 1-9	9-10 AM	5-6 PM	2-3 F	6-7 F	3-4 F
Both Approache Major Stree		500 (400) [280]	350	600 (480) [336]	420	1,661	1,772	1,954	1,233				2,326
Highest Approac Minor Stree		150 (120) [84]	105	200 (160) [112]	140	255	219	211	151	129	128	123	116
Record 8 highes minimum volume Condition is 56% Condition B - Inte Condition B is into so heavy that tra	es are me satisfied erruption tended fo	et for eig I if [brack n of Co or applica	ht hours keted] vo ntinuo ation who	c. Condi clumes a cus Traf ere the ti	tion is 80 are met fo f <b>fic</b> raffic vol	0% satist or eight l ume is	ied if (pa	Ex 100% (7 56% or	App cessive 70%) Sa 80% Sa	nes are i licable: Delay: atisfied: atisfied:	met for e	Yes Yes Yes Yes Yes	rs.  No No No No
				_				Eig	ht High	est Ho	urs		
(volumes in vel Approach Lar Volume Lev	nes		Shown	equiren in Brad 2 or 100%		8-9 AM	7-8 AM	6-7 AM	9-10 AM	5-6 PM	2-3 PM	6-7 PM	3-4 PM
Both Approache Major Stree		750 (600) [420]	525	900 (720) [504]	630	1,661	1,772	1,954	1,233				2,326
Highest Approac Minor Stree		75 (60) [42]	53	100 (80) [56]	70	255	219	211	151	129	128	123	116

Record 8 highest hours and the corresponding volumes in boxes provided. Condition is 100% satisfied if the minimum volumes are met for eight hours. Condition is 80% satisfied if (parenthetical) volumes are met for eight hours. Condition is 56% satisfied if [bracketed] volumes are met for eight hours.

Source: Revised from NCHRP Report 457

#### Page 1 of 6

### TRAFFIC SIGNAL WARRANT SUMMARY

	City:	NA					En	gineer:			NA		
	County:	Osceola						Date:		Dec	ember	15, 202	0
Ma	ajor Street:	Bogg	y Creek	Road			Lar	nes:	2	Critical	Approa	ach Spe	ed: <b>45</b>
	nor Street:		nber La				. Lar			0	, .рр. ос	оро	
		Design \	ear 20	45 - Bui	ild		•						
	ume Level Criteria										***		
	Is the critical speed	-				•	•				.00e	Yes	□ No
	<ol><li>Is the intersection in</li></ol>	a built-up	area o	f isolate	d comm	nunity of	f <10,00	00 popu	ation?		100	Yes	□ No
	If Question 1 or 2 above	e is answe	ered "Ye	es", ther	n use "7	'0%" vo	lume le	/el			<i>w</i>	70%	<b>1</b> 00%
WA	ARRANT 1 - EIGHT-	HOUR V	EHICL	JLAR '	VOLUI	ME_			Арр	licable:	ŵ.	Yes	□ No
	Warrant 1 is satisfied if Co	ndition A o	r Conditi	on B is "	100%" sa	atisfied.			Sa	atisfied:		Yes	🥙 No
	Warrant is also satisfied if					e "80%"	satisfied	for majo	r streets	40 mph	or less,	or	
	"56%" satisfied for major	-			h.			100% (7	'0%) Sa	atiefiad:		Voc	₩ No
	, , ,												□ No
		30 % Of 60 % Satisfied.										163	
	Eight Highest Hours												
				equiren									
	(volumes in veh/hr)	<del>_ ` </del>		in Bra		≥	AM	≥	ΔM	Σ	Δ	Σd	₩
	Approach Lanes		1		more	8-9 AM	6-7 A	8 AM	9-10 AM	5-6 P	2-3 P	6-7 P	3-4 P
	Volume Level	100%		100%		<u>  &amp;</u>	ပ်		<u>ი</u>	ᇈ	-5	<u> </u>	က်
	Both Approaches on	500	350	600	420	2,159	2,303	2,540	1,603	3,322	2,865	3,051	3,024
	Major Street	(400) [280]		[336]		2,139	2,303	2,540	1,003	3,322	2,003	3,031	3,024
		150	105	200	140								-
	Highest Approach on	(120)	103	(160)	140	186	160	154	110	95	94	90	85
	Minor Street	[84]		[112]			100	'0'			• •		
Ľ	Record 8 highest hour		orrespo		lumes in	boxes p	rovided.	Conditio	n is 100	% satisfi	ed if the		<u>'                                    </u>
	minimum volumes are							renthetic	al) volur	nes are i	met for e	ight hou	rs.
	Condition is 56% satis Condition B - Interrup	-	-			or eignt i	nours.		۸nn	licable:	W.	Yes	П No
	Condition B is intende					ume is		Fx		Delay:		Yes	
	so heavy that traffic or							 100% (7		-		Yes	□ No
								56% or	,			Yes	□ No
-													
j								Eig	ht High	nest Ho	urs		
				equiren									
	(volumes in veh/hr) (80% Shown in Bracket						Σ	Σ	AM	Σ	Σ	Σ	≥
	Approach Lanes Volume Level	100%	1   70%	2 or 100%	more 70%	8-9 AM	6-7 AM	7-8 AM	9-10 AM	5-6 PM	2-3 PM	6-7 PM	3-4 PM
	Volume Level					<u>  ∞</u> 	<u>-</u> 9		6	2-	<u>5</u>	l <u> </u>	<u> </u>
	Both Approaches on	750 (600)	525	900 (720)	630	2,159	2,303	2,540	1,603	3,322	2,865	3,051	3,024
	Major Street	[420]		[504]		2,109	2,505	2,040	1,003	0,022	2,000	0,001	3,024
		75	53	100	70	<del>                                     </del>							+
	Highest Approach on	(60)		(80)	'	186	160	154	110	95	94	90	85
	Minor Street	[42]		[56]		.55	.50				•		
L	Desert 9 highest have	11		1 1 1	<del></del>	<del></del>	<del></del>	<u> </u>		0/ /: 5	ad if the		

Record 8 highest hours and the corresponding volumes in boxes provided. Condition is 100% satisfied if the minimum volumes are met for eight hours. Condition is 80% satisfied if (parenthetical) volumes are met for eight hours. Condition is 56% satisfied if [bracketed] volumes are met for eight hours.

Source: Revised from NCHRP Report 457

## Appendix L

# **HSM** Predictive Analysis

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments
General Information						Location Information
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD
Agency or Company		VHB		Roadway Section		Simpson Road to E Lake Pointe Dr
Date Performed		12/11/20		Jurisdiction		Osceola County, FL
				Analysis Year		2045
Input Data	•			Base Conditions		Site Conditions
Roadway type (2U, 3T, 4U, 4D, ST)						2U
Length of segment, L (mi)				-		1.29
AADT (veh/day)	AADT <sub>MAX</sub> =	32,600	(veh/day)	-		29,500
Type of on-street parking (none/parallel/angle)				None		None
Proportion of curb length with on-street parking						0
Median width (ft) - for divided only				15		Not Present
Lighting (present / not present)				Not Present		Not Present
Auto speed enforcement (present / not present)				Not Present		Not Present
Major commercial driveways (number)						0
Minor commercial driveways (number)						5
Major industrial / institutional driveways (number)						0
Minor industrial / institutional driveways (number)				-		0
Major residential driveways (number)				-		4
Minor residential driveways (number)				-		39
Other driveways (number)						0
Speed Category				-		Posted Speed Greater than 30 mph
Roadside fixed object density (fixed objects / mi)				0		30
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		30
Calibration Factor, Cr	•		•	1.00		1.00

	Worksheet 1B Cra	sh Modification Factors f	or Urban and Suburban Ro	adway Segments	
(1)	(2)	(3)	(4)	(5)	(6)
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)
1.00	1.02	1.00	1.00	1.00	1.02

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-15.22	1.68	0.84	10.231	1.000	10.231	1.02	1.00	10.428
Fatal and Injury (FI)	-16.22	1.66	0.65	3.064	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.287	2.939	1.02	1.00	2.995
Property Damage Only (PDO)	-15.62	1.69	0.87	7.602	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.713	7.292	1.02	1.00	7.432

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv (TOTAL)</sub> (crashes/year)
	from Table 12-4	(9) <sub>FI</sub> from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	2.995	1.000	7.432	10.428
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.730	2.187	0.778	5.782	7.969
Head-on collision	0.068	0.204	0.004	0.030	0.233
Angle collision	0.085	0.255	0.079	0.587	0.842
Sideswipe, same direction	0.015	0.045	0.031	0.230	0.275
Sideswipe, opposite direction	0.073	0.219	0.055	0.409	0.627
Other multiple-vehicle collision	0.029	0.087	0.053	0.394	0.481

	W	orksneet 1E -		s by Severity Level for Urb	an and Suburban Road		S	r	
(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	SPF Coe	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
Crash Severity Level			Parameter, k	Initial N <sub>brsv</sub>	Crashes	N <sub>brsv</sub>	CMFs	Factor, Cr	$N_{brsv}$
Crash Seventy Level	from Ta	ble 12-5	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)
	а	b	IIOIII Table 12-3	IIOIII Equation 12-13		(+)IOTAL (O)	Worksheet 1B		(0) (1) (0)
Total	-5.47	0.56	0.81	1.730	1.000	1.730	1.02	1.00	1.763
Fatal and Injury (FI)	-3.96	0.23	0.50	0,262	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.274	1.02	1.00	0.279
i atai and injury (i i)	-5.90	0.23	0.30	0.202	0.158	0.274	1.02	1.00	0.279
Property Demoge Only (PDO)	-6.51	0.64	0.87	1.393	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	1.456	1.02	1.00	1.484
Property Damage Only (PDO)	-0.51	0.04	0.07	1.393	0.842	1.430	1.02	1.00	1.404

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision Type(FI)	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv</sub> (TOTAL) (crashes/year)
Collision Type	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.279	1.000	1.484	1.763
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.026	0.007	0.066	0.098	0.105
Collision with fixed object	0.723	0.202	0.759	1.126	1.328
Collision with other object	0.010	0.003	0.013	0.019	0.022
Other single-vehicle collision	0.241	0.067	0.162	0.240	0.308

Wor	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions b	y Driveway Type for Urban	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)
Deliverary Type	Number of driveways,	Crashes per driveway per year, N <sub>j</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7
	,	from Table 12-7	from Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	from Table 12-7
Major commercial	0	0.158	1.000	0.000	
Minor commercial	5	0.050	1.000	0.492	
Major industrial/institutional	0	0.172	1.000	0.000	
Minor industrial/institutional	0	0.023	1.000	0.000	
Major residential	4	0.083	1.000	0.653	
Minor residential	39	0.016	1.000	1.227	
Other	0	0.025	1.000	0.000	
Total				2.372	0.81

Worksheet	1H Multiple-Vehicle Drive	way-Related Collisions I	by Severity Lev	el for Urban and Subur	ban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub> 6) from Worksheet 1B	
Total	2.372	1.000	2.372	1.02	1.00	2.417
Fatal and injury (FI)		0.323	0.766	1.02	1.00	0.781
Property damage only (PDO)		0.677	1.606	1.02	1.00	1.637

	Workshe	eet 1I Vehicle-Pedestrian	Collisions for Urban and	Suburban Roadway Se	gments		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	10.428	1.763	2.417	14.608	0.005	1.00	0.073
Fatal and injury (FI)		-		-		1.00	0.073

	Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	10.428	1.763	2.417	14.608	0.004	1.00	0.058		
Fatal and injury (FI)				-		1.00	0.058		

Workshee	t 1K Crash Severity Distribution for Urban a	ind Suburban Roadway Segments		
(1)	(2)	(3)	(4)	
	Fatal and injury (FI)	Property damage only (PDO)	Total	
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;	
considir type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and	
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J	
	MULTIPLE-VEHICLE			
Rear-end collisions (from Worksheet 1D)	2.187	5.782	7.969	
Head-on collisions (from Worksheet 1D)	0.204	0.030	0.233	
Angle collisions (from Worksheet 1D)	0.255	0.587	0.842	
Sideswipe, same direction (from Worksheet 1D)	0.045	0.230	0.275	
Sideswipe, opposite direction (from Worksheet 1D)	0.219	0.409	0.627	
Driveway-related collisions (from Worksheet 1H)	0.781	1.637	2.417	
Other multiple-vehicle collision (from Worksheet 1D)	0.087	0.394	0.481	
Subtotal	3.776	9.069	12.845	
	SINGLE-VEHICLE	·		
Collision with animal (from Worksheet 1F)	0.007	0.098	0.105	
Collision with fixed object (from Worksheet 1F)	0.202	1.126	1.328	
Collision with other object (from Worksheet 1F)	0.003	0.019	0.022	
Other single-vehicle collision (from Worksheet 1F)	0.067	0.240	0.308	
Collision with pedestrian (from Worksheet 1I)	0.073	0.000	0.073	
Collision with bicycle (from Worksheet 1J)	0.058	0.000	0.058	
Subtotal	0.411	1.484	1.895	
Total	4.187	10.553	14.740	

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	ts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	14.7	1.29	11.4
Fatal and injury (FI)	4.2	1.29	3.2
Property damage only (PDO)	10.6	1.29	8.2

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments		
General Information						Location Information		
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD		
Agency or Company		VHB		Roadway Section		E Lake Pointe Dr to Nele Road		
Date Performed		12/11/20		Jurisdiction	liction Osceola			
			Analysis Year		2045			
Input Data	•			Base Conditions		Site Conditions		
Roadway type (2U, 3T, 4U, 4D, ST)						3T		
Length of segment, L (mi)					0.18			
AADT (veh/day)	AADT <sub>MAX</sub> =	32,900	(veh/day)			28,700		
Type of on-street parking (none/parallel/angle)		None		None				
Proportion of curb length with on-street parking				0				
Median width (ft) - for divided only		15		Not Present				
Lighting (present / not present)				Not Present		Not Present		
Auto speed enforcement (present / not present)				Not Present		Not Present		
Major commercial driveways (number)						0		
Minor commercial driveways (number)						0		
Major industrial / institutional driveways (number)						1		
Minor industrial / institutional driveways (number)						0		
Major residential driveways (number)						1		
Minor residential driveways (number)						1		
Other driveways (number)				0				
Speed Category	•	•	•			Posted Speed Greater than 30 mph		
Roadside fixed object density (fixed objects / mi)	·			0		30		
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]	•		30		30		
Calibration Factor, Cr				1.00		1.00		

	Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)				
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF				
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb				
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)				
1.00	1.01	1.00	1.00	1.00	1.01				

(1) (2)		2)	(3)		(4) (5)		(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k			Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-12.40	1.41	0.66	1.431	1.000	1.431	1.01	1.00	1.447
Fatal and Injury (FI)	-16.45	1.69	0.59	0.442	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.309	0.442	1.01	1.00	0.447
Property Damage Only (PDO)	-11.95	1.33	0.59	0.987	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.691	0.989	1.01	1.00	1.000

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv (TOTAL)</sub> (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	0.447	1.000	1.000	1.447
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.845	0.378	0.842	0.842	1.220
Head-on collision	0.034	0.015	0.020	0.020	0.035
Angle collision	0.069	0.031	0.020	0.020	0.051
Sideswipe, same direction	0.001	0.000	0.078	0.078	0.078
Sideswipe, opposite direction	0.017	0.008	0.020	0.020	0.028
Other multiple-vehicle collision	0.034	0.015	0.020	0.020	0.035

(1)		2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k			Adjusted N <sub>brsv</sub>	, combined		Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.74	0.54	1.37	0.148	1.000	0.148	1.01	1.00	0.149
Fatal and Injury (FI)	-6.37	0.47	1.06	0.038	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.268	0.040	1.01	1.00	0.040
Property Damage Only (PDO)	-6.29	0.56	1.93	0.105	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.732	0.108	1.01	1.00	0.109

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segment	s
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
	from Table 12-6	(9) <sub>FI</sub> from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.040	1.000	0.109	0.149
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.001	0.000	0.000
Collision with fixed object	0.688	0.028	0.963	0.105	0.133
Collision with other object	0.001	0.000	0.001	0.000	0.000
Other single-vehicle collision	0.310	0.012	0.035	0.004	0.016

(1)	(2)	(3)	(4)	(5)	(6)	
Driveway Type	Number of driveways,	Crashes per driveway per year, N <sub>i</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k	
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7	
		Irom rable 12-7	Irom Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	ITOTTI TADIE 12-7	
Major commercial	0	0.102	1.000	0.000		
Minor commercial	0	0.032	1.000	0.000		
Major industrial/institutional	1	0.110	1.000	0.210		
Minor industrial/institutional	0	0.015	1.000	0.000		
Major residential	1	0.053	1.000	0.101		
Minor residential	1	0.010	1.000	0.019		
Other	0	0.016	1.000	0.000		
Total				0.331	1.10	

Worksheet	1H Multiple-Vehicle Drive	way-Related Collisions I	y Severity Lev	vel for Urban and Subur	ban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)
Total	0.331	1.000	0.331	1.01	1.00	0.335
Fatal and injury (FI)		0.243	0.080	1.01	1.00	0.081
Property damage only (PDO)		0.757	0.251	1.01	1.00	0.253

	Workshe	eet 1I Vehicle-Pedestrian	Collisions for Urban and	Suburban Roadway Se	gments		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	1.447	0.149	0.335	1.931	0.013	1.00	0.025
Fatal and injury (FI)						1.00	0.025

	Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(1) (2) (3) (4) (5) (6) (7) (8)								
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	1.447	0.149	0.335	1.931	0.007	1.00	0.014		
Fatal and injury (FI)						1.00	0.014		

Workshee	et 1K Crash Severity Distribution for Urban a	nd Suburban Roadway Segments	_
(1)	(2)	(3)	(4)
•	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Solitsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE	·	
Rear-end collisions (from Worksheet 1D)	0.378	0.842	1.220
Head-on collisions (from Worksheet 1D)	0.015	0.020	0.035
Angle collisions (from Worksheet 1D)	0.031	0.020	0.051
Sideswipe, same direction (from Worksheet 1D)	0.000	0.078	0.078
Sideswipe, opposite direction (from Worksheet 1D)	0.008	0.020	0.028
Driveway-related collisions (from Worksheet 1H)	0.081	0.253	0.335
Other multiple-vehicle collision (from Worksheet 1D)	0.015	0.020	0.035
Subtotal	0.528	1.253	1.781
	SINGLE-VEHICLE		
Collision with animal (from Worksheet 1F)	0.000	0.000	0.000
Collision with fixed object (from Worksheet 1F)	0.028	0.105	0.133
Collision with other object (from Worksheet 1F)	0.000	0.000	0.000
Other single-vehicle collision (from Worksheet 1F)	0.012	0.004	0.016
Collision with pedestrian (from Worksheet 1I)	0.025	0.000	0.025
Collision with bicycle (from Worksheet 1J)	0.014	0.000	0.014
Subtotal	0.079	0.109	0.188
Total	0.607	1.362	1.970

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	its
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	2.0	0.18	10.9
Fatal and injury (FI)	0.6	0.18	3.4
Property damage only (PDO)	1.4	0.18	7.6

Worksheet	1A General In	nformation	and Input D	ata for Urban and Suburba	n Roadway S	Segments	
General Information	า				Lo	ocation Information	
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD	
Agency or Company		VHB		Roadway Section		Nele Road to Springlake Village Blvd	
Date Performed		12/11/20		Jurisdiction		Osceola County, FL	
				Analysis Year		2045	
Input Data	•			Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						3T	
Length of segment, L (mi)			-		0.39		
AADT (veh/day)	AADT <sub>MAX</sub> =	32,900	(veh/day)			26,600	
Type of on-street parking (none/parallel/angle)		None		None			
Proportion of curb length with on-street parking						0	
Median width (ft) - for divided only				15		Not Present	
Lighting (present / not present)				Not Present		Not Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						0	
Minor commercial driveways (number)					0		
Major industrial / institutional driveways (number)						1	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)						1	
Minor residential driveways (number)						0	
Other driveways (number)						0	
Speed Category						Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)				0		90	
Offset to roadside fixed objects (ft) [If greater than 30 or Not F	Present, input 30]			30		30	
Calibration Factor, Cr				1.00		1.00	

	Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)				
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF				
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb				
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)				
1.00	1.10	1.00	1.00	1.00	1.10				

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-12.40	1.41	0.66	2.785	1.000	2.785	1.10	1.00	3.067
Fatal and Injury (FI)	-16.45	1.69	0.59	0.841	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.303	0.845	1.10	1.00	0.930
Property Damage Only (PDO)	-11.95	1.33	0.59	1.933	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.697	1.941	1.10	1.00	2.137

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9) <sub>FI</sub> from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	0.930	1.000	2.137	3.067
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.845	0.786	0.842	1.800	2.585
Head-on collision	0.034	0.032	0.020	0.043	0.074
Angle collision	0.069	0.064	0.020	0.043	0.107
Sideswipe, same direction	0.001	0.001	0.078	0.167	0.168
Sideswipe, opposite direction	0.017	0.016	0.020	0.043	0.059
Other multiple-vehicle collision	0.034	0.032	0.020	0.043	0.074

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Clasii Severity Level	from Ta a	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B	·	(6)*(7)*(8)
Total	-5.74	0.54	1.37	0.307	1.000	0.307	1.10	1.00	0.338
Fatal and Injury (FI)	-6.37	0.47	1.06	0.080	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.270	0.083	1.10	1.00	0.091
Property Damage Only (PDO)	-6.29	0.56	1.93	0.217	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.730	0.225	1.10	1.00	0.247

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	s
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision Type(FI)	Predicted N brsv (FI) (crashes/year)	Proportion of Collision	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
Collision Type	туре(ғі)	(Crashes/year)	Type <sub>(PDO)</sub>	, ,	Tredicted it brsv (IDTAL) (Grashes/year)
	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.091	1.000	0.247	0.338
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.001	0.000	0.000
Collision with fixed object	0.688	0.063	0.963	0.238	0.301
Collision with other object	0.001	0.000	0.001	0.000	0.000
Other single-vehicle collision	0.310	0.028	0.035	0.009	0.037

Wor	rksheet 1G Multiple-Vehicle Drive	way-Related Collisions b	y Driveway Type for Urban	and Suburban Roadway Segments		
(1)	(2)	(3)	(4)	(5)	(6)	
Drivovov Type	Number of driveways,	Crashes per driveway per year, N <sub>j</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k	
Driveway Type	n <sub>i</sub>	from Toble 10.7	from Table 12-7	Equation 12-16	from Table 12-7	
	,	from Table 12-7	ITOTTI TADIE 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	ITOTTI TABLE 12-7	
Major commercial	0	0.102	1.000	0.000		
Minor commercial	0	0.032	1.000	0.000	1	
Major industrial/institutional	1	0.110	1.000	0.195	1	
Minor industrial/institutional	0	0.015	1.000	0.000		
Major residential	1	0.053	1.000	0.094		
Minor residential	0	0.010	1.000	0.000	]	
Other	0	0.016	1.000	0.000		
Total				0.289	1.10	

Worksheet	1H Multiple-Vehicle Drive	way-Related Collisions I	by Severity Lev	el for Urban and Subur	ban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)
Total	0.289	1.000	0.289	1.10	1.00	0.318
Fatal and injury (FI)		0.243	0.070	1.10	1.00	0.077
Property damage only (PDO)		0.757	0.219	1.10	1.00	0.241

	Workshe	eet 1I Vehicle-Pedestrian	Collisions for Urban and	Suburban Roadway Se	gments		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	3.067	0.338	0.318	3.724	0.013	1.00	0.048
Fatal and injury (FI)		-				1.00	0.048

	Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	3.067	0.338	0.318	3.724	0.007	1.00	0.026		
Fatal and injury (FI)						1.00	0.026		

Worksheet *	IK Crash Severity Distribution for Urban	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Comsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J	` '	(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE	•	
Rear-end collisions (from Worksheet 1D)	0.786	1.800	2.585
Head-on collisions (from Worksheet 1D)	0.032	0.043	0.074
Angle collisions (from Worksheet 1D)	0.064	0.043	0.107
Sideswipe, same direction (from Worksheet 1D)	0.001	0.167	0.168
Sideswipe, opposite direction (from Worksheet 1D)	0.016	0.043	0.059
Driveway-related collisions (from Worksheet 1H)	0.077	0.241	0.318
Other multiple-vehicle collision (from Worksheet 1D)	0.032	0.043	0.074
Subtotal	1.007	2.378	3.386
	SINGLE-VEHICLE		
Collision with animal (from Worksheet 1F)	0.000	0.000	0.000
Collision with fixed object (from Worksheet 1F)	0.063	0.238	0.301
Collision with other object (from Worksheet 1F)	0.000	0.000	0.000
Other single-vehicle collision (from Worksheet 1F)	0.028	0.009	0.037
Collision with pedestrian (from Worksheet 1I)	0.048	0.000	0.048
Collision with bicycle (from Worksheet 1J)	0.026	0.000	0.026
Subtotal	0.166	0.247	0.413
Total	1.173	2.625	3.799

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segment	ts	
(1)	(2)	(3)	(4)	
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)	
	(Total) from Worksheet 1K		(2) / (3)	
Total	3.8	0.39	9.7	
atal and injury (FI)	1.2	0.39	3.0	
Property damage only (PDO)	2.6	0.39	6.7	

Worksheet	1A General Ir	nformation	and Input D	ata for Urban and Suburba	n Roadway	/ Segments
General Information			-		-	Location Information
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD
Agency or Company		VHB		Roadway Section		Springlake Village Blvd to Turnberry Blvd
Date Performed	erformed 12/11/20			Jurisdiction		Osceola County, FL
				Analysis Year		2045
Input Data	•			Base Conditions		Site Conditions
Roadway type (2U, 3T, 4U, 4D, ST)				-		3T
Length of segment, L (mi)		-		0.57		
AADT (veh/day)	AADT <sub>MAX</sub> =	32,900	(veh/day)	-		24,500
Type of on-street parking (none/parallel/angle)	Type of on-street parking (none/parallel/angle)					None
Proportion of curb length with on-street parking				0		
Median width (ft) - for divided only				15		Not Present
Lighting (present / not present)				Not Present		Not Present
Auto speed enforcement (present / not present)				Not Present		Not Present
Major commercial driveways (number)						0
Minor commercial driveways (number)				-		0
Major industrial / institutional driveways (number)						2
Minor industrial / institutional driveways (number)						0
Major residential driveways (number)				-		1
Minor residential driveways (number)				-		0
Other driveways (number)						0
Speed Category				-		Posted Speed Greater than 30 mph
Roadside fixed object density (fixed objects / mi)				0		60
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		30
Calibration Factor, Cr				1.00		1.00

	Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)				
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF				
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb				
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)				
1.00	1.06	1.00	1.00	1.00	1.06				

(1) (2)		(3) (4)		(5)	(6)	(7)	(8)	(9)	
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B	·	(6)*(7)*(8)
Total	-12.40	1.41	0.66	3.625	1.000	3.625	1.06	1.00	3.829
Fatal and Injury (FI)	-16.45	1.69	0.59	1.070	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.297	1.077	1.06	1.00	1.137
Property Damage Only (PDO)	-11.95	1.33	0.59	2.533	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.703	2.549	1.06	1.00	2.692

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	1.137	1.000	2.692	3.829
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.845	0.961	0.842	2.266	3.227
lead-on collision	0.034	0.039	0.020	0.054	0.092
Angle collision	0.069	0.078	0.020	0.054	0.132
Sideswipe, same direction	0.001	0.001	0.078	0.210	0.211
Sideswipe, opposite direction	0.017	0.019	0.020	0.054	0.073
Other multiple-vehicle collision	0.034	0.039	0.020	0.054	0.092

	W	orksheet 1E -	- Single-Vehicle Collision	s by Severity Level for Urk	an and Suburban Road	way Segment	s		
(1) (2)		2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta	ble 12-5	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B	·	(6)*(7)*(8)
Total	-5.74	0.54	1.37	0.430	1.000	0.430	1.06	1.00	0.454
Fatal and Injury (FI)	-6.37	0.47	1.06	0.113	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.271	0.116	1.06	1.00	0.123
Property Damage Only (PDO)	-6.29	0.56	1.93	0.303	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.729	0.313	1.06	1.00	0.331

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision Type(FI)	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
Collision Type	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet	(9)тотаL from Worksheet 1E
Total	1.000	0.123	1.000	0.331	0.454
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.001	0.000	0.000
Collision with fixed object	0.688	0.085	0.963	0.319	0.403
Collision with other object	0.001	0.000	0.001	0.000	0.000
Other single-vehicle collision	0.310	0.038	0.035	0.012	0.050

Worl	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)
Driveway Type	Number of driveways,	Crashes per driveway per year, N <sub>i</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k
	n <sub>i</sub>	f T-bl- 40.7	f T-bl- 40.7	Equation 12-16	f T-bl- 40.7
	,	from Table 12-7	from Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	from Table 12-7
Major commercial	0	0.102	1.000	0.000	
Minor commercial	0	0.032	1.000	0.000	7
Major industrial/institutional	2	0.110	1.000	0.359	7
Minor industrial/institutional	0	0.015	1.000	0.000	
Major residential	1	0.053	1.000	0.087	7
Minor residential	0	0.010	1.000	0.000	1
Other	0	0.016	1.000	0.000	7
Total				0.446	1.10

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)
Total	0.446	1.000	0.446	1.06	1.00	0.471
Fatal and injury (FI)		0.243	0.108	1.06	1.00	0.114
Property damage only (PDO)		0.757	0.338	1.06	1.00	0.356

Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	3.829	0.454	0.471	4.754	0.013	1.00	0.062
Fatal and injury (FI)		-				1.00	0.062

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	3.829	0.454	0.471	4.754	0.007	1.00	0.033
Fatal and injury (FI)						1.00	0.033

Worksheet 1	K Crash Severity Distribution for Urban a	and Suburban Roadway Segments		
(1)	(2)	(3)	(4)	
	Fatal and injury (FI)	Property damage only (PDO)	Total	
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;	
Comsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and	
	(8) from Worksheet 1I and 1J	` '	(8) from Worksheet 1I and 1J	
	MULTIPLE-VEHICLE	•		
Rear-end collisions (from Worksheet 1D)	0.961	2.266	3.227	
Head-on collisions (from Worksheet 1D)	0.039	0.054	0.092	
Angle collisions (from Worksheet 1D)	0.078	0.054	0.132	
Sideswipe, same direction (from Worksheet 1D)	0.001	0.210	0.211	
Sideswipe, opposite direction (from Worksheet 1D)	0.019	0.054	0.073	
Driveway-related collisions (from Worksheet 1H)	0.114	0.356	0.471	
Other multiple-vehicle collision (from Worksheet 1D)	0.039	0.054	0.092	
Subtotal	1.252	3.048	4.300	
	SINGLE-VEHICLE	·		
Collision with animal (from Worksheet 1F)	0.000	0.000	0.000	
Collision with fixed object (from Worksheet 1F)	0.085	0.319	0.403	
Collision with other object (from Worksheet 1F)	0.000	0.000	0.000	
Other single-vehicle collision (from Worksheet 1F)	0.038	0.012	0.050	
Collision with pedestrian (from Worksheet 1I)	0.062	0.000	0.062	
Collision with bicycle (from Worksheet 1J)	0.033	0.000	0.033	
Subtotal	0.218	0.331	0.549	
Total	1.470	3.379	4.849	

Worksheet 1L Summary Results for Urban and Suburban Roadway Segments						
(1)	(2)	(3)	(4)			
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)			
	(Total) from Worksheet 1K		(2) / (3)			
Total	4.8	0.57	8.5			
Fatal and injury (FI)	1.5	0.57	2.6			
Property damage only (PDO)	3.4	0.57	5.9			

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments	
General Information						Location Information	
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD	
Agency or Company		VHB		Roadway Section		Turnberry Blvd to N Pointe Blvd	
Date Performed		12/11/20		Jurisdiction		Osceola County, FL	
				Analysis Year		2045	
Input Data				Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						2U	
Length of segment, L (mi)					0.51		
AADT (veh/day)	AADT <sub>MAX</sub> =	32,600	(veh/day)			23,700	
Type of on-street parking (none/parallel/angle)			None		None		
Proportion of curb length with on-street parking	Proportion of curb length with on-street parking					0	
Median width (ft) - for divided only				15		Not Present	
Lighting (present / not present)				Not Present		Not Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						0	
Minor commercial driveways (number)					0		
Major industrial / institutional driveways (number)						1	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)						0	
Minor residential driveways (number)						7	
Other driveways (number)						0	
Speed Category						Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)	·			0		30	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		30	
Calibration Factor, Cr	<del></del>			1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.02	1.00	1.00	1.00	1.02		

	Workshee	et 1C Multip	le-Vehicle Nondriveway C	ollisions by Severity Leve	for Urban and Suburba	an Roadway S	Segments		
(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coefficients		Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
			Parameter, k	Initial N <sub>brmv</sub>	Crashes	N <sub>brmv</sub>	CMFs	Factor, Cr	N <sub>brmv</sub>
	from Ta	ble 12-3	from Table 12-3	from Equation 12-10		$(4)_{TOTAL}^{*}(5)$	(6) from		(6)*(7)*(8)
	а	b	Hom Table 12-5	nom Equation 12-10		(')TOTAL (O)	Worksheet 1B		(3) (1) (0)
Total	-15.22	1.68	0.84	2.800	1.000	2.800	1.02	1.00	2.854
Fatal and Injury (FI)	-16.22	1.66	0.65	0.842	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.289	0.808	1.02	1.00	0.824
Property Damage Only (PDO)	-15.62	1.69	0.87	2.076	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.711	1.992	1.02	1.00	2.030

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	0.824	1.000	2.030	2.854
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.730	0.601	0.778	1.580	2.181
Head-on collision	0.068	0.056	0.004	0.008	0.064
Angle collision	0.085	0.070	0.079	0.160	0.230
Sideswipe, same direction	0.015	0.012	0.031	0.063	0.075
Sideswipe, opposite direction	0.073	0.060	0.055	0.112	0.172
Other multiple-vehicle collision	0.029	0.024	0.053	0.108	0.131

(1)	()	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	SPF Coe	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
Crash Severity Level			Parameter, k	Initial N <sub>brsv</sub>	Crashes	N <sub>brsv</sub>	CMFs	Factor, Cr	N <sub>brsv</sub>
Grasii Geventy Level	from Ta	ble 12-5	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)
	а	b		Equation 12 10	( )TOTAL (		Worksheet 1B		
Total	-5.47	0.56	0.81	0.605	1.000	0.605	1.02	1.00	0.617
Fatal and Injury (FI)	-3.96	0.23	3 0.50	0.099	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.103	1.02	1.00	0.105
ratal and injury (FI)	-5.50	0.25	0.50	0.033	0.171	0.103	1.02	1.00	0.103
Property Damage Only (PDO)	-6.51	0.64	0.87	0.479	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.502	1.02	1.00	0.511
Froperty Damage Only (FDO)	-0.51	0.04	0.07	0.479	0.829	0.502	1.02	1.00	0.511

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision Type(FI)	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
Collision Type	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(ordenos/year)	. 360 (600)	, , ,	Sist (total) (
	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.105	1.000	0.511	0.617
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.026	0.003	0.066	0.034	0.036
Collision with fixed object	0.723	0.076	0.759	0.388	0.464
Collision with other object	0.010	0.001	0.013	0.007	0.008
Other single-vehicle collision	0.241	0.025	0.162	0.083	0.108

(1)	(2)	(3)		(5)	(6)
Delivery Type	Number of driveways,	Crashes per driveway per year, N <sub>i</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7
	· ·	Irom Table 12-7	from Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	ITOTTI TADIE 12-7
Major commercial	0	0.158	1.000	0.000	
Minor commercial	0	0.050	1.000	0.000	
Major industrial/institutional	1	0.172	1.000	0.272	
Minor industrial/institutional	0	0.023	1.000	0.000	
Major residential	0	0.083	1.000	0.000	
Minor residential	7	0.016	1.000	0.177	
Other	0	0.025	1.000	0.000	
Total				0.449	0.81

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Creab Savarity Lavel	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted Nordwy Combined CMFs		Calibration factor C	Predicted N <sub>brdwy</sub>		
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)		
Total	0.449	1.000	0.449	1.02	1.00	0.457		
Fatal and injury (FI)		0.323	0.145	1.02	1.00	0.148		
Property damage only (PDO)		0.677	0.304	1.02	1.00	0.310		

	Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	2.854	0.617	0.457	3.928	0.005	1.00	0.020		
Fatal and injury (FI)		-				1.00	0.020		

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	2.854	0.617	0.457	3.928	0.004	1.00	0.016	
Fatal and injury (FI)				-		1.00	0.016	

Worksheet 1	K Crash Severity Distribution for Urban a	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Comsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE	·	
Rear-end collisions (from Worksheet 1D)	0.601	1.580	2.181
Head-on collisions (from Worksheet 1D)	0.056	0.008	0.064
Angle collisions (from Worksheet 1D)	0.070	0.160	0.230
Sideswipe, same direction (from Worksheet 1D)	0.012	0.063	0.075
Sideswipe, opposite direction (from Worksheet 1D)	0.060	0.112	0.172
Driveway-related collisions (from Worksheet 1H)	0.148	0.310	0.457
Other multiple-vehicle collision (from Worksheet 1D)	0.024	0.108	0.131
Subtotal	0.971	2.340	3.311
	SINGLE-VEHICLE	·	
Collision with animal (from Worksheet 1F)	0.003	0.034	0.036
Collision with fixed object (from Worksheet 1F)	0.076	0.388	0.464
Collision with other object (from Worksheet 1F)	0.001	0.007	0.008
Other single-vehicle collision (from Worksheet 1F)	0.025	0.083	0.108
Collision with pedestrian (from Worksheet 1I)	0.020	0.000	0.020
Collision with bicycle (from Worksheet 1J)	0.016	0.000	0.016
Subtotal	0.141	0.511	0.652
Total	1.112	2.851	3.963

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segment	s	
(1)	(2)	(3)	(4)	
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)	
	(Total) from Worksheet 1K		(2) / (3)	
Total	4.0	0.51	7.8	
Fatal and injury (FI)	1.1	0.51	2.2	
Property damage only (PDO)	2.9	0.51	5.6	

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	Segments	
General Information						Location Information	
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD	
Agency or Company		VHB		Roadway Section		N Pointe Blvd to Timber Lane	
Date Performed		12/11/20		Jurisdiction		Osceola County, FL	
				Analysis Year		2045	
Input Data				Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)				2U			
Length of segment, L (mi)						0.54	
AADT (veh/day)	AADT <sub>MAX</sub> =	32,600	(veh/day)			23,600	
Type of on-street parking (none/parallel/angle)				None		None	
Proportion of curb length with on-street parking						0	
Median width (ft) - for divided only				15		Not Present	
Lighting (present / not present)				Not Present		Not Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						0	
Minor commercial driveways (number)					0		
Major industrial / institutional driveways (number)						0	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)						9	
Minor residential driveways (number)						0	
Other driveways (number)						0	
Speed Category						Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)				0		60	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		25	
Calibration Factor, Cr				1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.12	1.00	1.00	1.00	1.12		

	Workshee	et 1C Multip	le-Vehicle Nondriveway C	ollisions by Severity Leve	for Urban and Suburba	n Roadway S	egments		
(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
			Parameter, k	Initial N <sub>brmv</sub>	Crashes	$N_{brmv}$	CMFs	Factor, Cr	N <sub>brmv</sub>
	from Ta	ble 12-3	from Table 12-3	from Equation 12-10		$(4)_{TOTAL}^{*}(5)$	(6) from		(6)*(7)*(8)
	а	b	Hom rable 12 0	Hom Equation 12 10		( · / IOTAL ( • /	Worksheet 1B		(0) (1) (0)
Total	-15.22	1.68	0.84	2.944	1.000	2.944	1.12	1.00	3.285
Fatal and Injury (FI)	-16.22	1.66	0.65	0.885	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.289	0.850	1.12	1.00	0.948
Property Damage Only (PDO)	-15.62	1.69	0.87	2.182	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.711	2.094	1.12	1.00	2.337

(1)	(2)	(3)	(4)	(5)	(6)	
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv (TOTAL)</sub> (crashes/year)	
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C	
Total	1.000	0.948	1.000	2.337	3.285	
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)	
Rear-end collision	0.730	0.692	0.778	1.818	2.510	
Head-on collision	0.068	0.064	0.004	0.009	0.074	
Angle collision	0.085	0.081	0.079	0.185	0.265	
Sideswipe, same direction	0.015	0.014	0.031	0.072	0.087	
Sideswipe, opposite direction	0.073	0.069	0.055	0.129	0.198	
Other multiple-vehicle collision	0.029	0.027	0.053	0.124	0.151	

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.47	0.56	0.81	0.639	1.000	0.639	1.12	1.00	0.713
Fatal and Injury (FI)	-3.96	0.23	0.50	0.104	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.171	0.109	1.12	1.00	0.122
Property Damage Only (PDO)	-6.51	0.64	0.87	0.506	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.829	0.530	1.12	1.00	0.591

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5	
(1)	(2)	(3)	(4)	(5)	(6)	
	Proportion of Collision Type(FI)	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)	
Collision Type	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)тотаL from Worksheet 1E	
Total	1.000	0.122	1.000	0.591	0.713	
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)	
Collision with animal	0.026	0.003	0.066	0.039	0.042	
Collision with fixed object	0.723	0.088	0.759	0.449	0.537	
Collision with other object	0.010	0.001	0.013	0.008	0.009	
Other single-vehicle collision	0.241	0.029	0.162	0.096	0.125	

(1)	(2)	(3)	(4)	(5)	(6)
Delivery True	Number of driveways,	Crashes per driveway per year, N <sub>i</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k
Oriveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7
	,	Irom Table 12-7	from Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	ITOTTI TADIE 12-7
Major commercial	0	0.158	1.000	0.000	
Minor commercial	0	0.050	1.000	0.000	
Major industrial/institutional	0	0.172	1.000	0.000	
Minor industrial/institutional	0	0.023	1.000	0.000	
Major residential	9	0.083	1.000	1.175	
Minor residential	0	0.016	1.000	0.000	
Other	0	0.025	1.000	0.000	
Total				1.175	0.81

Works	Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
Creak Cararity Lavel	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>			
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)			
Total	1.175	1.000	1.175	1.12	1.00	1.312			
Fatal and injury (FI)		0.323	0.380	1.12	1.00	0.424			
Property damage only (PDO)		0.677	0.796	1.12	1.00	0.888			

	Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	3.285	0.713	1.312	5.310	0.005	1.00	0.027		
Fatal and injury (FI)						1.00	0.027		

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	3.285	0.713	1.312	5.310	0.004	1.00	0.021	
Fatal and injury (FI)				-		1.00	0.021	

Workshee	t 1K Crash Severity Distribution for Urban a	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Conston type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	0.692	1.818	2.510
Head-on collisions (from Worksheet 1D)	0.064	0.009	0.074
Angle collisions (from Worksheet 1D)	0.081	0.185	0.265
Sideswipe, same direction (from Worksheet 1D)	0.014	0.072	0.087
Sideswipe, opposite direction (from Worksheet 1D)	0.069	0.129	0.198
Driveway-related collisions (from Worksheet 1H)	0.424	0.888	1.312
Other multiple-vehicle collision (from Worksheet 1D)	0.027	0.124	0.151
Subtotal	1.372	3.225	4.597
	SINGLE-VEHICLE		
Collision with animal (from Worksheet 1F)	0.003	0.039	0.042
Collision with fixed object (from Worksheet 1F)	0.088	0.449	0.537
Collision with other object (from Worksheet 1F)	0.001	0.008	0.009
Other single-vehicle collision (from Worksheet 1F)	0.029	0.096	0.125
Collision with pedestrian (from Worksheet 1I)	0.027	0.000	0.027
Collision with bicycle (from Worksheet 1J)	0.021	0.000	0.021
Subtotal	0.170	0.591	0.761
Total	1.542	3.816	5.358

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	ts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N <sub>predicted rs</sub> (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	5.4	0.54	9.9
Fatal and injury (FI)	1.5	0.54	2.9
Property damage only (PDO)	3.8	0.54	7.1

Worksheet	1A General Int	formation	and Input D	ata for Urban and Suburba	n Roadway	Segments	
General Information	1					Location Information	
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD	
Agency or Company		VHB		Roadway Section		Timber Lane to Fells Cove Blvd	
Date Performed	1	12/11/20		Jurisdiction		Osceola County, FL	
				Analysis Year		2045	
Input Data				Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						2U	
Length of segment, L (mi)					1.65		
AADT (veh/day)	AADT <sub>MAX</sub> =	32,600	(veh/day)		24,000		
Type of on-street parking (none/parallel/angle)				None		None	
Proportion of curb length with on-street parking						0	
Median width (ft) - for divided only				15		Not Present	
Lighting (present / not present)				Not Present		Not Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						0	
Minor commercial driveways (number)						0	
Major industrial / institutional driveways (number)						1	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)						6	
Minor residential driveways (number)						17	
Other driveways (number)						0	
Speed Category						Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)				0		30	
Offset to roadside fixed objects (ft) [If greater than 30 or Not F	resent, input 30]			30		30	
Calibration Factor, Cr				1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.02	1.00	1.00	1.00	1.02		

	Worksheet 1C Multiple-Vehicle Nondriveway Collisions by Severity Level for Urban and Suburban Roadway Segments									
(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Crash Severity Level	SPF Coe	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted	
			Parameter, k	Initial N <sub>brmv</sub>	Crashes	N <sub>brmv</sub>	CMFs	Factor, Cr	N <sub>brmv</sub>	
	from Ta	ble 12-3	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)	
	а	b	Hom Table 12-3	IIOIII Equation 12 10		(')TOTAL (O)	Worksheet 1B		(0) (1) (0)	
Total	-15.22	1.68	0.84	9.253	1.000	9.253	1.02	1.00	9.431	
Fatal and Injury (FI)	-16.22	1.66	0.65	2.782	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.289	2.670	1.02	1.00	2.721	
Property Damage Only (PDO)	-15.62	1.69	0.87	6.861	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.711	6.583	1.02	1.00	6.710	

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	2.721	1.000	6.710	9.431
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.730	1.986	0.778	5.220	7.206
Head-on collision	0.068	0.185	0.004	0.027	0.212
Angle collision	0.085	0.231	0.079	0.530	0.761
Sideswipe, same direction	0.015	0.041	0.031	0.208	0.249
Sideswipe, opposite direction	0.073	0.199	0.055	0.369	0.568
Other multiple-vehicle collision	0.029	0.079	0.053	0.356	0.435

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.47	0.56	0.81	1.972	1.000	1.972	1.02	1.00	2.009
Fatal and Injury (FI)	-3.96	0.23	0.50	0.320	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.170	0.335	1.02	1.00	0.342
Property Damage Only (PDO)	-6.51	0.64	0.87	1.562	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.830	1.636	1.02	1.00	1.668

	Worksheet 1F Single-Vehic	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv</sub> (TOTAL) (crashes/year)
	from Table 12-6	(9) <sub>FI</sub> from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.342	1.000	1.668	2.009
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.026	0.009	0.066	0.110	0.119
Collision with fixed object	0.723	0.247	0.759	1.266	1.513
Collision with other object	0.010	0.003	0.013	0.022	0.025
Other single-vehicle collision	0.241	0.082	0.162	0.270	0.353

Wor	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)
Deliverant Trans	Number of driveways,	Crashes per driveway per year, N <sub>i</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7
	,	I IIII Table 12-7		n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	ITOTTI TABLE 12-7
Major commercial	0	0.158	1.000	0.000	
Minor commercial	0	0.050	1.000	0.000	
Major industrial/institutional	1	0.172	1.000	0.275	1
Minor industrial/institutional	0	0.023	1.000	0.000	
Major residential	6	0.083	1.000	0.797	7
Minor residential	17	0.016	1.000	0.435	
Other	0	0.025	1.000	0.000	7
Total				1.507	0.81

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>	
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)	
Total	1.507	1.000	1.507	1.02	1.00	1.536	
Fatal and injury (FI)		0.323	0.487	1.02	1.00	0.496	
Property damage only (PDO)		0.677	1.020	1.02	1.00	1.040	

Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	9.431	2.009	1.536	12.976	0.005	1.00	0.065
Fatal and injury (FI)				-		1.00	0.065

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	9.431	2.009	1.536	12.976	0.004	1.00	0.052
Fatal and injury (FI)				-		1.00	0.052

Workshee	t 1K Crash Severity Distribution for Urban a	ind Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Comsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	1.986	5.220	7.206
Head-on collisions (from Worksheet 1D)	0.185	0.027	0.212
Angle collisions (from Worksheet 1D)	0.231	0.530	0.761
Sideswipe, same direction (from Worksheet 1D)	0.041	0.208	0.249
Sideswipe, opposite direction (from Worksheet 1D)	0.199	0.369	0.568
Driveway-related collisions (from Worksheet 1H)	0.496	1.040	1.536
Other multiple-vehicle collision (from Worksheet 1D)	0.079	0.356	0.435
Subtotal	3.217	7.750	10.967
	SINGLE-VEHICLE	·	
Collision with animal (from Worksheet 1F)	0.009	0.110	0.119
Collision with fixed object (from Worksheet 1F)	0.247	1.266	1.513
Collision with other object (from Worksheet 1F)	0.003	0.022	0.025
Other single-vehicle collision (from Worksheet 1F)	0.082	0.270	0.353
Collision with pedestrian (from Worksheet 1I)	0.065	0.000	0.065
Collision with bicycle (from Worksheet 1J)	0.052	0.000	0.052
Subtotal	0.459	1.668	2.126
Total	3.676	9.417	13.093

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	its		
(1)	(2)	(3)	(4)		
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)		
	(Total) from Worksheet 1K		(2) / (3)		
Total	13.1	1.65	7.9		
Fatal and injury (FI)	3.7	1.65	2.2		
Property damage only (PDO)	9.4	1.65	5.7		

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments	
General Information						Location Information	
Analyst		RDW		Roadway		Boggy Creek Road NO BUILD	
Agency or Company		VHB		Roadway Section	toadway Section Fells Cove Blv		
Date Performed		12/11/20		Jurisdiction		Osceola County, FL	
				Analysis Year		2045	
Input Data				Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						3T	
Length of segment, L (mi)						0.76	
AADT (veh/day)	$AADT_{MAX} =$	32,900	(veh/day)			23,400	
Type of on-street parking (none/parallel/angle)			None		None		
Proportion of curb length with on-street parking						0	
Median width (ft) - for divided only				15		Not Present	
Lighting (present / not present)				Not Present		Not Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						2	
Minor commercial driveways (number)						1	
Major industrial / institutional driveways (number)						0	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)						5	
Minor residential driveways (number)						0	
Other driveways (number)						0	
Speed Category						Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)				0		30	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		30	
Calibration Factor, Cr				1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.01	1.00	1.00	1.00	1.01		

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-12.40	1.41	0.66	4.531	1.000	4.531	1.01	1.00	4.581
Fatal and Injury (FI)	-16.45	1.69	0.59	1.320	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.294	1.330	1.01	1.00	1.345
Property Damage Only (PDO)	-11.95	1.33	0.59	3.177	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.706	3.201	1.01	1.00	3.236

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9) <sub>FI</sub> from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	1.345	1.000	3.236	4.581
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.845	1.136	0.842	2.725	3.861
lead-on collision	0.034	0.046	0.020	0.065	0.110
Angle collision	0.069	0.093	0.020	0.065	0.158
Sideswipe, same direction	0.001	0.001	0.078	0.252	0.254
Sideswipe, opposite direction	0.017	0.023	0.020	0.065	0.088
Other multiple-vehicle collision	0.034	0.046	0.020	0.065	0.110

	Worksheet 1E Single-Vehicle Collisions by Severity Level for Urban and Suburban Roadway Segments									
(1)	(	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	SPF Co	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted	
Crash Severity Level			Parameter, k	Initial N <sub>brsv</sub>	Crashes	N <sub>brsv</sub>	CMFs	Factor, Cr	$N_{brsv}$	
Orasii deventy Level	from Ta	ble 12-5	from Table 12-5	from Table 12-5 from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)	
	а	b	Hom Table 12 0	nom Equation 12 10	( 71017		Worksheet 1B			
Total	-5.74	0.54	1.37	0.559	1.000	0.559	1.01	1.00	0.565	
Fatal and Injury (FI)	-6.37	0.47	1.06	0.147	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.152	1.01	1.00	0.154	
- atai and injury (i i)	0.272		0.272	0.132	1.01	1.00	0.154			
Property Damage Only (PDO)	-6.29	0.56	1.93	0.394	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.407	1.01	1.00	0.411	
Froperty Damage Only (FDO)	-0.29	0.50	1.85	0.394	0.728	0.407	1.01	1.00	0.411	

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	s
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision Type(FI)	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
Collision Type	. <b>, , , , , , , , , , , , , , , , , , ,</b>	(or deriver year)	1 <b>3 PO</b> (PDO)	, ,	Sist (total) (
	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.154	1.000	0.411	0.565
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.001	0.000	0.001
Collision with fixed object	0.688	0.106	0.963	0.396	0.502
Collision with other object	0.001	0.000	0.001	0.000	0.001
Other single-vehicle collision	0.310	0.048	0.035	0.014	0.062

Worl	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments		
(1)	(2)	(3)	(4)	(5)	(6)	
Debrace Trees	Number of driveways,	Crashes per driveway per year, N <sub>i</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k	
Driveway Type	n <sub>i</sub>	f T-bl- 40.7	f T-bl- 40.7	Equation 12-16	from Table 12-7	
	,	from Table 12-7	from Table 12-7	n <sub>i</sub> * N <sub>i</sub> * (AADT/15,000) <sup>t</sup>		
Major commercial	2	0.102	1.000	0.318		
Minor commercial	1	0.032	1.000	0.050		
Major industrial/institutional	0	0.110	1.000	0.000	7	
Minor industrial/institutional	0	0.015	1.000	0.000		
Major residential	5	0.053	1.000	0.413	7	
Minor residential	0	0.010	1.000	0.000	1	
Other	0	0.016	1.000	0.000		
Total				0.782	1.10	

Worksheet	Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Creak Savarity Lavel	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>		
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)		
Total	0.782	1.000	0.782	1.01	1.00	0.790		
Fatal and injury (FI)		0.243	0.190	1.01	1.00	0.192		
Property damage only (PDO)		0.757	0.592	1.01	1.00	0.598		

	Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	4.581	0.565	0.790	5.936	0.013	1.00	0.077		
Fatal and injury (FI)		-				1.00	0.077		

	Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	4.581	0.565	0.790	5.936	0.007	1.00	0.042		
Fatal and injury (FI)						1.00	0.042		

Workshee	t 1K Crash Severity Distribution for Urban a	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Comsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	1.136	2.725	3.861
Head-on collisions (from Worksheet 1D)	0.046	0.065	0.110
Angle collisions (from Worksheet 1D)	0.093	0.065	0.158
Sideswipe, same direction (from Worksheet 1D)	0.001	0.252	0.254
Sideswipe, opposite direction (from Worksheet 1D)	0.023	0.065	0.088
Driveway-related collisions (from Worksheet 1H)	0.192	0.598	0.790
Other multiple-vehicle collision (from Worksheet 1D)	0.046	0.065	0.110
Subtotal	1.537	3.834	5.371
	SINGLE-VEHICLE		
Collision with animal (from Worksheet 1F)	0.000	0.000	0.001
Collision with fixed object (from Worksheet 1F)	0.106	0.396	0.502
Collision with other object (from Worksheet 1F)	0.000	0.000	0.001
Other single-vehicle collision (from Worksheet 1F)	0.048	0.014	0.062
Collision with pedestrian (from Worksheet 1I)	0.077	0.000	0.077
Collision with bicycle (from Worksheet 1J)	0.042	0.000	0.042
Subtotal	0.272	0.411	0.684
Total	1.809	4.246	6.055

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	nts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	6.1	0.76	8.0
Fatal and injury (FI)	1.8	0.76	2.4
Property damage only (PDO)	4.2	0.76	5.6

	heet 2A General Information and Input	Data for Urban and Suburban A				
General Informa	tion		Locat	tion Information		
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD		
Agency or Company	VHB	Intersection		Simpson Road		
Date Performed	12/11/20	Jurisdiction		Osceola County, FL		
		Analysis Year		2045		
Input Data	Base Conditions		Site Conditions			
Intersection type (3ST, 3SG, 4ST, 4SG)	AADT			4SG		
AADT <sub>major</sub> (veh/day)	AADT <sub>MAX</sub> = 67,700 (veh/day)			41,800		
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 33,400$ (veh/day)	-		34,600		
Intersection lighting (present/not present)		Not Present		Not Present		
Calibration factor, C <sub>i</sub>		1.00		1.00		
Data for unsignalized intersections only:						
Number of major-road approaches with left-turn lane	0					
Number of major-road approaches with right-turn lar	0					
Data for signalized intersections only:						
Number of approaches with left-turn lanes (0,1,2,3,4	) [for 3SG, use maximum value of 3]	0	4			
Number of approaches with right-turn lanes (0,1,2,3	4) [for 3SG, use maximum value of 3]	0		4		
Number of approaches with left-turn signal phasing	for 3SG, use maximum value of 3]			4		
Type of left-turn signal phasing for Leg #1		Permissive		Protected / Permissive		
Type of left-turn signal phasing for Leg #2				Protected / Permissive		
Type of left-turn signal phasing for Leg #3				Protected / Permissive		
Type of left-turn signal phasing for Leg #4 (if applica				Protected / Permissive		
Number of approaches with right-turn-on-red prohibi	ted [for 3SG, use maximum value of 3]	0		0		
Intersection red light cameras (present/not present)	Not Present		Not Present			
Sum of all pedestrian crossing volumes (PedVol)			10			
Maximum number of lanes crossed by a pedestrian	(			6		
Number of bus stops within 300 m (1,000 ft) of the ir		0		0		
Schools within 300 m (1,000 ft) of the intersection (p		Not Present		Not Present		
Number of alcohol sales establishments within 300 r	n (1,000 ft) of the intersection	0		1		

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF		
	Phasing							
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>		
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)		
0.66	0.96	0.85	1.00	1.00	1.00	0.54		

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	a fr	om Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)
Total	-10.99	1.07	0.23	0.39	16.434	1.000	16.434	0.54	1.00	8.850
Fatal and Injury (FI)	-13.14	1.18	0.22	0.33	5.558	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.348	5.724	0.54	1.00	3.082
Property Damage Only (PDO)	-11.02	1.02	0.24	0.44	10.400	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.652	10.710	0.54	1.00	5.767

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type(FI)	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9) <sub>FI</sub> from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	3.082	1.000	5.767	8.850
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.450	1.387	0.483	2.786	4.173
Head-on collision	0.049	0.151	0.030	0.173	0.324
Angle collision	0.347	1.070	0.244	1.407	2.477
Sideswipe	0.099	0.305	0.032	0.185	0.490
Other multiple-vehicle collision	0.055	0.170	0.211	1.217	1.386

		Worksheet	2E Single-\	ehicle Collisions by Sever	ity Level for Urban	and Suburban Arterial In	tersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
				Parameter, k	Initial N <sub>bisv</sub>	Crashes	$N_{bimv}$	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$
Crash Severity Level	fı	om Table 12-1	2				(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b		from Table 12-12	(FI) from Eqn. 12-		(T)TOTAL (U)	Worksheet 2B		(0) (1) (0)
	а	D	C		24 or 12-27					
Total	-10.21	0.68	0.27	0.36	0.859	1.000	0.859	0.54	1.00	0.462
Fatal and Injury (FI)	-9.25	0.43	0.29	0.09	0.193	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.196	0.54	1.00	0.106
Fatar and injury (FI)	-9.25	0.43	0.29	0.09	0.193	0.229	0.190	0.54	1.00	0.100
Property Damage Only	44.24	0.70	0.05	0.44	0.650	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.660	0.54	4.00	0.257
(PDO)	-11.34	0.78	0.25	0.44	0.652	0.771	0.662	0.54	1.00	0.357

	Worksheet 2F Single-V	ehicle Collisions by Collisi	on Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.106	1.000	0.357	0.462
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.002	0.000	0.002	0.001	0.001
Collision with fixed object	0.744	0.079	0.870	0.310	0.389
Collision with other object	0.072	0.008	0.070	0.025	0.033
Other single-vehicle collision	0.040	0.004	0.023	0.008	0.012
Single-vehicle noncollision	0.141	0.015	0.034	0.012	0.027

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crach Soverity Loyal	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	$f_{pedi}$	Calibration factor, C	Predicted N <sub>pedi</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, C	(4)*(5)*(6)
Total					1.00	
Fatal and injury (FI)				1	1.00	

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.00	1.12	1.12					

Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections										
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Level		f	rom Table 12-1	4		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		nom Equation 12-23	(4) HOITI WORKSHEET ZIT		(4) (3) (0)
Total	-9.53	0.40	0.26	0.45	0.04	0.24	0.022	1.12	1.00	0.025
Fatal and Injury (FI)									1.00	0.025

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanstation factor, o	(4)*(5)*(6)
Total	8.850	0.462	9.312	0.015	1.00	0.140
Fatal and injury (FI)					1.00	0.140

(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	1.387	2.786	4.173
Head-on collisions (from Worksheet 2D)	0.151	0.173	0.324
Angle collisions (from Worksheet 2D)	1.070	1.407	2.477
Sideswipe (from Worksheet 2D)	0.305	0.185	0.490
Other multiple-vehicle collision (from Worksheet 2D)	0.170	1.217	1.386
Subtotal	3.082	5.767	8.850
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.001	0.001
Collision with fixed object (from Worksheet 2F)	0.079	0.310	0.389
Collision with other object (from Worksheet 2F)	0.008	0.025	0.033
Other single-vehicle collision (from Worksheet 2F)	0.004	0.008	0.012
Single-vehicle noncollision (from Worksheet 2F)	0.015	0.012	0.027
Collision with pedestrian (from Worksheet 2G or 2I)	0.025	0.000	0.025
Collision with bicycle (from Worksheet 2J)	0.140	0.000	0.140
Subtotal	0.270	0.357	0.627
Total	3.353	6.124	9.476

Worksheet 2L Summary Resul	ts for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)
	(Total) from Worksheet 2K
Total	9.5
Fatal and injury (FI)	3.4
Property damage only (PDO)	6.1

Worksh	neet 2A General Information and Input	Data for Urban and Suburban Ar	terial Interse	ctions	
General Informat		Location Information			
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD	
Agency or Company	VHB	Intersection		E Lake Pointe Dr	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)				3ST	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 45,700$ (veh/day)			29,500	
AADT <sub>minor</sub> (veh/day)	AADT <sub>MAX</sub> = 9,300 (veh/day)	<del></del>		2,200	
Intersection lighting (present/not present)		Not Present		Not Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lanes	s (0,1,2)	0		1	
Number of major-road approaches with right-turn land	0		1		
Data for signalized intersections only:			<del></del>		
Number of approaches with left-turn lanes (0,1,2,3,4)	[for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3,4	1) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing [f	or 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if applicate	ole)				
Number of approaches with right-turn-on-red prohibit	ed [for 3SG, use maximum value of 3]	0			
Intersection red light cameras (present/not present)		Not Present			
Sum of all pedestrian crossing volumes (PedVol) S					
Maximum number of lanes crossed by a pedestrian (					
Number of bus stops within 300 m (1,000 ft) of the int		0			
Schools within 300 m (1,000 ft) of the intersection (pr		Not Present			
Number of alcohol sales establishments within 300 m	(1,000 ft) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing								
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.67	1.00	0.86	1.00	1.00	1.00	0.58			

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections											
(1)		(2)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	s	F Coefficients Overdispersion Parameter, k		Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>			
	a fr	om Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)		
Total	-13.36	1.11	0.41	0.80	3.386	1.000	3.386	0.58	1.00	1.956		
Fatal and Injury (FI)	-14.01	1.16	0.30	0.69	1.268	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.341	1.155	0.58	1.00	0.667		
Property Damage Only (PDO)	-15.38	1.20	0.51	0.77	2.449	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.659	2.231	0.58	1.00	1.289		

	Worksheet 2D Multiple-	Vehicle Collisions by Collis	sion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.667	1.000	1.289	1.956
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.421	0.281	0.440	0.567	0.848
Head-on collision	0.045	0.030	0.023	0.030	0.060
Angle collision	0.343	0.229	0.262	0.338	0.567
Sideswipe	0.126	0.084	0.040	0.052	0.136
Other multiple-vehicle collision	0.065	0.043	0.235	0.303	0.346

		Worksheet	t 2E Single-\	ehicle Collisions by Sever	ity Level for Urban	and Suburban Arterial In	tersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	cients Overdispersion Parameter, k		Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	fı	rom Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from	1	(6)*(7)*(8)
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		(')TOTAL (O)	Worksheet 2B		(0) (1) (0)
	ч	Б	ŭ		24 or 12-27					
Total	-6.81	0.16	0.51	1.14	0.290	1.000	0.290	0.58	1.00	0.167
Fatal and Injury (FI)					0.090	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.298	0.086	0.58	1.00	0.050
Property Damage Only (PDO)	-8.36	0.25	0.55	1.29	0.211	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.702	0.203	0.58	1.00	0.118

	Worksheet 2F Single-V	ehicle Collisions by Collisi	on Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.050	1.000	0.118	0.167
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.003	0.000	0.000
Collision with animal	0.003	0.000	0.018	0.002	0.002
Collision with fixed object	0.762	0.038	0.834	0.098	0.136
Collision with other object	0.090	0.004	0.092	0.011	0.015
Other single-vehicle collision	0.039	0.002	0.023	0.003	0.005
Single-vehicle noncollision	0.105	0.005	0.030	0.004	0.009

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, of	(4)*(5)*(6)	
Total	1.956	0.167	2.124	0.021	1.00	0.045	
Fatal and injury (FI)		-		1	1.00	0.045	

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Comphined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Lever		f	rom Table 12-1	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		Hom Equation 12-29	(4) HOIH WORKSHEEL ZH		(4) (3) (0)
Total									1.00	
Fatal and Injury (FI)									1.00	

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Soverity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanstation factor, o	(4)*(5)*(6)	
Total	1.956	0.167	2.124	0.016	1.00	0.034	
Fatal and injury (FI)					1.00	0.034	

(1)	(2)	(3)	(4)
, ,	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	0.281	0.567	0.848
Head-on collisions (from Worksheet 2D)	0.030	0.030	0.060
Angle collisions (from Worksheet 2D)	0.229	0.338	0.567
Sideswipe (from Worksheet 2D)	0.084	0.052	0.136
Other multiple-vehicle collision (from Worksheet 2D)	0.043	0.303	0.346
Subtotal	0.667	1.289	1.956
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.002	0.002
Collision with fixed object (from Worksheet 2F)	0.038	0.098	0.136
Collision with other object (from Worksheet 2F)	0.004	0.011	0.015
Other single-vehicle collision (from Worksheet 2F)	0.002	0.003	0.005
Single-vehicle noncollision (from Worksheet 2F)	0.005	0.004	0.009
Collision with pedestrian (from Worksheet 2G or 2I)	0.045	0.000	0.045
Collision with bicycle (from Worksheet 2J)	0.034	0.000	0.034
Subtotal	0.129	0.118	0.246
Total	0.796	1.406	2.202

Worksheet 2L Summary Results for Urban and Suburban Arterial Intersections						
(1)	(2)					
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)					
	(Total) from Worksheet 2K					
Total	2.2					
Fatal and injury (FI)	0.8					
Property damage only (PDO)	1.4					

	heet 2A General Information and Input	Data for Urban and Suburban A				
General Informa	tion		Location Information			
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD		
Agency or Company	VHB	Intersection		Nele Road		
Date Performed	12/11/20	Jurisdiction		Osceola County, FL		
		Analysis Year		2045		
Input Data		Base Conditions		Site Conditions		
Intersection type (3ST, 3SG, 4ST, 4SG)		<del></del>		4SG		
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 67,700  (veh/day)$			28,000		
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 33,400$ (veh/day)			2,700		
Intersection lighting (present/not present)		Not Present		Present		
Calibration factor, C <sub>i</sub>		1.00		1.00		
Data for unsignalized intersections only:						
Number of major-road approaches with left-turn lane	s (0,1,2)	0		1		
Number of major-road approaches with right-turn lar	0		1			
Data for signalized intersections only:						
Number of approaches with left-turn lanes (0,1,2,3,4	) [for 3SG, use maximum value of 3]	0	2			
Number of approaches with right-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0	3			
Number of approaches with left-turn signal phasing	for 3SG, use maximum value of 3]			4		
Type of left-turn signal phasing for Leg #1		Permissive		Protected / Permissive		
Type of left-turn signal phasing for Leg #2				Protected / Permissive		
Type of left-turn signal phasing for Leg #3				Permissive		
Type of left-turn signal phasing for Leg #4 (if applica				Permissive		
Number of approaches with right-turn-on-red prohibi	ted [for 3SG, use maximum value of 3]	0		0		
Intersection red light cameras (present/not present)		Not Present		Not Present		
Sum of all pedestrian crossing volumes (PedVol)				10		
Maximum number of lanes crossed by a pedestrian	( laneoxy			4		
Number of bus stops within 300 m (1,000 ft) of the in		0	0			
Schools within 300 m (1,000 ft) of the intersection (p		Not Present		Present		
Number of alcohol sales establishments within 300 r	n (1,000 π) of the intersection	0		0		

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF		
	Phasing							
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>		
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)		
0.81	0.98	0.88	1.00	0.91	1.00	0.64		

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections											
(1)		(2)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	PF Coefficien	ts	Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>		
	a fr	om Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21	(4) <sub>TOTAL</sub> *(5)		(7) from Worksheet 2B		(6)*(7)*(8)		
Total	-10.99	1.07	0.23	0.39	5.954	1.000	5.954	0.64	1.00	3.808		
Fatal and Injury (FI)	-13.14	1.18	0.22	0.33	1.977	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.345	2.056	0.64	1.00	1.315		
Property Damage Only (PDO)	-11.02	1.02	0.24	0.44	3.747	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.655	3.898	0.64	1.00	2.493		

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type(FI)	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	1.315	1.000	2.493	3.808
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.450	0.592	0.483	1.204	1.796
Head-on collision	0.049	0.064	0.030	0.075	0.139
Angle collision	0.347	0.456	0.244	0.608	1.065
Sideswipe	0.099	0.130	0.032	0.080	0.210
Other multiple-vehicle collision	0.055	0.072	0.211	0.526	0.598

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion	Initial N <sub>bisy</sub>	Proportion of Total	Adjusted	Combined	Calibration	Predicted
				Parameter, k		Crashes	N <sub>bimv</sub>	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$
Crash Severity Level	fı	om Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	•	h	•	from Table 12-12	(FI) from Eqn. 12-		(4)TOTAL (3)	Worksheet 2B		(0) (1) (0)
	а	b	C		24 or 12-27					
Total	-10.21	0.68	0.27	0.36	0.328	1.000	0.328	0.64	1.00	0.210
Fatal and Injury (FI)	-9.25	0.43 0.29	0.09	0.078	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.077	0.64	1.00	0.049	
- atai and injury (i i)	-5.25	0.43	0.23	0.09	0.078	0.235	0.077	0.04	1.00	0.043
Property Damage Only	-11.34	0.78	0.25	0.44	0.252	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.251	0.64	1.00	0.161
(PDO)	-11.54	0.76	0.25	0.44	0.252	0.765	0.251	0.04	1.00	0.101

	Worksheet 2F Single-V	ehicle Collisions by Collisi	on Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.049	1.000	0.161	0.210
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.002	0.000	0.002	0.000	0.000
Collision with fixed object	0.744	0.037	0.870	0.140	0.177
Collision with other object	0.072	0.004	0.070	0.011	0.015
Other single-vehicle collision	0.040	0.002	0.023	0.004	0.006
Single-vehicle noncollision	0.141	0.007	0.034	0.005	0.012

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crach Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, C	(4)*(5)*(6)
Total					1.00	
Fatal and injury (FI)					1.00	

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.35	1.00	1.35					

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level	SPF Coefficients					Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level		f	rom Table 12-1	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		ITOTT Equation 12-29	(4) IIOIII WORKSHEEL ZIT		(4) (3) (0)
Total	-9.53	0.40	0.26	0.45	0.04	0.24	0.008	1.35	1.00	0.011
Fatal and Injury (FI)									1.00	0.011

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanstation factor, o <sub>i</sub>	(4)*(5)*(6)
Total	3.808	0.210	4.018	0.015	1.00	0.060
Fatal and injury (FI)					1.00	0.060

Workshe	et 2K Crash Severity Distribution for Urban a	nd Suburban Arterial Intersections	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	0.592	1.204	1.796
Head-on collisions (from Worksheet 2D)	0.064	0.075	0.139
Angle collisions (from Worksheet 2D)	0.456	0.608	1.065
Sideswipe (from Worksheet 2D)	0.130	0.080	0.210
Other multiple-vehicle collision (from Worksheet 2D)	0.072	0.526	0.598
Subtotal	1.315	2.493	3.808
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.000	0.000
Collision with fixed object (from Worksheet 2F)	0.037	0.140	0.177
Collision with other object (from Worksheet 2F)	0.004	0.011	0.015
Other single-vehicle collision (from Worksheet 2F)	0.002	0.004	0.006
Single-vehicle noncollision (from Worksheet 2F)	0.007	0.005	0.012
Collision with pedestrian (from Worksheet 2G or 2I)	0.011	0.000	0.011
Collision with bicycle (from Worksheet 2J)	0.060	0.000	0.060
Subtotal	0.121	0.161	0.281
Total	1.436	2.654	4.090

Worksheet 2L Summary Resul	ts for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)
	(Total) from Worksheet 2K
Total	4.1
Fatal and injury (FI)	1.4
Property damage only (PDO)	2.7

Works	heet 2A General Information and Input	Data for Urban and Suburban A	Arterial Interse	ctions	
General Informa	ion		Locat	tion Information	
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD	
Agency or Company	VHB	Intersection		Springlake Village Blvd	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)				4ST	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 46,800  (veh/day)$			26,100	
AADT minor (veh/day)	$AADT_{MAX} = 5,900$ (veh/day)			4,300	
Intersection lighting (present/not present)		Not Present		Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lane	s (0,1,2)	0		2	
Number of major-road approaches with right-turn lar	es (0,1,2)	0		2	
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4	) [for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing [	for 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if applica					
Number of approaches with right-turn-on-red prohibi	ed [for 3SG, use maximum value of 3]	0			
Intersection red light cameras (present/not present)		Not Present			
Sum of all pedestrian crossing volumes (PedVol)					
Maximum number of lanes crossed by a pedestrian					
Number of bus stops within 300 m (1,000 ft) of the ir		0			
Schools within 300 m (1,000 ft) of the intersection (p	,	Not Present			
Number of alcohol sales establishments within 300 r	n (1,000 ft) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF		
	Phasing							
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>		
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)		
0.53	1.00	0.74	1.00	0.91	0.97	0.35		

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
				Parameter, k	Initial N <sub>bimv</sub>	Crashes	$N_{bimv}$	CMFs	Factor, C <sub>i</sub>	$N_{bimv}$
	fr	om Table 12-1	0	from Table 12-10	from Equation 12-		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	Hom rable 12-10	21		(T)TOTAL (O)	Worksheet 2B		(0) (1) (0)
Total	-8.90	0.82	0.25	0.40	4.622	1.000	4.622	0.35	1.00	1.602
Fatal and Injury (FI)	-11.13	0.93	0.28	0.48	1.955	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	1.917	0.35	1.00	0.664
- atai and injury (i i)	-11.13	0.93	0.20	0.40	1.955	0.415	1.917	0.55	1.00	0.004
Property Damage Only	-8.74	0.77	0.23	0.40	2.759	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	2.705	0.35	1.00	0.938
(PDO)	-0.74	0.77	0.23	0.40	2.759	0.585	2.705	0.35	1.00	0.930

	Worksheet 2D Multiple-	Vehicle Collisions by Collis	ion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.664	1.000	0.938	1.602
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.338	0.225	0.374	0.351	0.575
Head-on collision	0.041	0.027	0.030	0.028	0.055
Angle collision	0.440	0.292	0.335	0.314	0.607
Sideswipe	0.121	0.080	0.044	0.041	0.122
Other multiple-vehicle collision	0.060	0.040	0.217	0.204	0.243

		Worksheet	: 2E Single-\	ehicle Collisions by Sever	ity Level for Urban	and Suburban Arterial In	tersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
				Parameter, k	Initial N <sub>bisv</sub>	Crashes	N <sub>bimv</sub>	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$
Crash Severity Level	fı	om Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	_	h		from Table 12-12	(FI) from Eqn. 12-		(T)TOTAL (S)	Worksheet 2B		(0) (1) (0)
	а	b	C		24 or 12-27					
Total	-5.33	0.33	0.12	0.65	0.379	1.000	0.379	0.35	1.00	0.131
Fatal and Injury (FI)					0.106	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.105	0.35	1.00	0.037
- atai and injury (i i)					0.100	0.278	0.103	0.55	1.00	0.007
Property Damage Only	-7.04	0.36	0.25	0.54	0.276	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.274	0.35	1.00	0.095
(PDO)	-7.04	0.30	0.25	0.54	0.270	0.722	0.274	0.35	1.00	0.095

	Worksheet 2F Single-V	ehicle Collisions by Collis	ion Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9) <sub>FI</sub> from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.037	1.000	0.095	0.131
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.001	0.000	0.026	0.002	0.003
Collision with fixed object	0.679	0.025	0.847	0.080	0.105
Collision with other object	0.089	0.003	0.070	0.007	0.010
Other single-vehicle collision	0.051	0.002	0.007	0.001	0.003
Single-vehicle noncollision	0.179	0.007	0.049	0.005	0.011

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub> f <sub>pedi</sub>		Calibration factor, C	Predicted N <sub>pedi</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, of	(4)*(5)*(6)
Total	1.602	0.131	1.734	0.022	1.00	0.038
Fatal and injury (FI)					1.00	0.038

Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections						
(1)	(2)	(3)	(4)			
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF			
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir			
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)			
	<del></del>		<del></del>			

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients					N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Lever		f	rom Table 12-1	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		Hom Equation 12-29	(4) Holli Worksheet 211		(4) (3) (0)
Total									1.00	
Fatal and Injury (FI)									1.00	

	Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Soverity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanstation factor, o	(4)*(5)*(6)	
Total	1.602	0.131	1.734	0.018	1.00	0.031	
Fatal and injury (FI)					1.00	0.031	

Worksh	eet 2K Crash Severity Distribution for Urban a	nd Suburban Arterial Intersections	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	0.225	0.351	0.575
Head-on collisions (from Worksheet 2D)	0.027	0.028	0.055
Angle collisions (from Worksheet 2D)	0.292	0.314	0.607
Sideswipe (from Worksheet 2D)	0.080	0.041	0.122
Other multiple-vehicle collision (from Worksheet 2D)	0.040	0.204	0.243
Subtotal	0.664	0.938	1.602
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.002	0.003
Collision with fixed object (from Worksheet 2F)	0.025	0.080	0.105
Collision with other object (from Worksheet 2F)	0.003	0.007	0.010
Other single-vehicle collision (from Worksheet 2F)	0.002	0.001	0.003
Single-vehicle noncollision (from Worksheet 2F)	0.007	0.005	0.011
Collision with pedestrian (from Worksheet 2G or 2I)	0.038	0.000	0.038
Collision with bicycle (from Worksheet 2J)	0.031	0.000	0.031
Subtotal	0.106	0.095	0.201
Total	0.770	1.033	1.803

Worksheet 2L Summary Resul	Worksheet 2L Summary Results for Urban and Suburban Arterial Intersections						
(1)	(2)						
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)						
	(Total) from Worksheet 2K						
Total	1.8						
Fatal and injury (FI)	0.8						
Property damage only (PDO)	1.0						

Works	heet 2A General Information and Input	Data for Urban and Suburban A	Arterial Interse	ctions	
General Informa	tion		Locat	tion Information	
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD	
Agency or Company	VHB	Intersection Turnberry Blvd			
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)		<del></del>		4SG	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 67,700  (veh/day)$			23,900	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 33,400$ (veh/day)			4,400	
Intersection lighting (present/not present)		Not Present		Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lane	s (0,1,2)	0			
Number of major-road approaches with right-turn lar	es (0,1,2)	0			
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4	) [for 3SG, use maximum value of 3]	0	3		
Number of approaches with right-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0		3	
Number of approaches with left-turn signal phasing [	for 3SG, use maximum value of 3]			4	
Type of left-turn signal phasing for Leg #1		Permissive		Protected / Permissive	
Type of left-turn signal phasing for Leg #2				Protected	
Type of left-turn signal phasing for Leg #3				Protected	
Type of left-turn signal phasing for Leg #4 (if applica					
Number of approaches with right-turn-on-red prohibi	ted [for 3SG, use maximum value of 3]	0		0	
Intersection red light cameras (present/not present)	Not Present		Not Present		
Sum of all pedestrian crossing volumes (PedVol)			10		
Maximum number of lanes crossed by a pedestrian				3	
Number of bus stops within 300 m (1,000 ft) of the ir		0	0		
Schools within 300 m (1,000 ft) of the intersection (p	1 /	Not Present	Present		
Number of alcohol sales establishments within 300 r	n (1,000 ft) of the intersection	0		0	

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing								
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.73	0.87	0.88	1.00	0.91	1.00	0.51			

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	erity Level for Urban	and Suburban Arterial In	ntersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	PF Coefficien	ts	Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	a fr	rom Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)
Total	-10.99	1.07	0.23	0.39	5.623	1.000	5.623	0.51	1.00	2.864
Fatal and Injury (FI)	-13.14	1.18	0.22	0.33	1.826	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.337	1.897	0.51	1.00	0.967
Property Damage Only (PDO)	-11.02	1.02	0.24	0.44	3.585	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.663	3.726	0.51	1.00	1.898

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.967	1.000	1.898	2.864
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.450	0.435	0.483	0.917	1.352
Head-on collision	0.049	0.047	0.030	0.057	0.104
Angle collision	0.347	0.335	0.244	0.463	0.798
Sideswipe	0.099	0.096	0.032	0.061	0.156
Other multiple-vehicle collision	0.055	0.053	0.211	0.400	0.454

		Worksheet	t 2E Single-\	ehicle Collisions by Sever	ity Level for Urban	and Suburban Arterial In	tersections			
(1)		(2)		(3)	(3) (4)		(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
				Parameter, k	Initial N <sub>bisv</sub>	Crashes	N <sub>bimv</sub>	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$
Crash Severity Level	fı	rom Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b		from Table 12-12	(FI) from Eqn. 12-		(T)TOTAL (U)	Worksheet 2B		(0) (1) (0)
	а	D	C		24 or 12-27					
Total	-10.21	0.68	0.27	0.36	0.336	1.000	0.336	0.51	1.00	0.171
Fatal and Injury (FI)	-9.25	0.43	0.29	0.09	0.084	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.084	0.51	1.00	0.043
ratai and injury (FI)	-9.25	0.43	0.29	0.09	0.004	0.249	0.064	0.51	1.00	0.043
Property Damage Only	44.24	0.70	0.05	0.44	0.050	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.050	0.54	4.00	0.420
(PDO)	-11.34	0.78	0.25	0.44	0.252	0.751	0.253	0.51	1.00	0.129

	Worksheet 2F Single-V	ehicle Collisions by Collisi	on Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.043	1.000	0.129	0.171
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.002	0.000	0.002	0.000	0.000
Collision with fixed object	0.744	0.032	0.870	0.112	0.144
Collision with other object	0.072	0.003	0.070	0.009	0.012
Other single-vehicle collision	0.040	0.002	0.023	0.003	0.005
Single-vehicle noncollision	0.141	0.006	0.034	0.004	0.010

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crach Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, C	(4)*(5)*(6)	
Total					1.00		
Fatal and injury (FI)					1.00		

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.35	1.00	1.35					

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Level	from Table 12-14 Parameter,	Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)				
	а	b	С	d	е		Hom Equation 12-29	(4) HOIH WORKSHEET ZIT		(4) (3) (0)
Total	-9.53	0.40	0.26	0.45	0.04	0.24	0.009	1.35	1.00	0.012
Fatal and Injury (FI)									1.00	0.012

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Severity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>	
Grasii Geventy Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Canbration factor, o	(4)*(5)*(6)	
Total	2.864	0.171	3.036	0.015	1.00	0.046	
Fatal and injury (FI)				1	1.00	0.046	

(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	0.435	0.917	1.352
Head-on collisions (from Worksheet 2D)	0.047	0.057	0.104
Angle collisions (from Worksheet 2D)	0.335	0.463	0.798
Sideswipe (from Worksheet 2D)	0.096	0.061	0.156
Other multiple-vehicle collision (from Worksheet 2D)	0.053	0.400	0.454
Subtotal	0.967	1.898	2.864
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.000	0.000
Collision with fixed object (from Worksheet 2F)	0.032	0.112	0.144
Collision with other object (from Worksheet 2F)	0.003	0.009	0.012
Other single-vehicle collision (from Worksheet 2F)	0.002	0.003	0.005
Single-vehicle noncollision (from Worksheet 2F)	0.006	0.004	0.010
Collision with pedestrian (from Worksheet 2G or 2I)	0.012	0.000	0.012
Collision with bicycle (from Worksheet 2J)	0.046	0.000	0.046
Subtotal	0.100	0.129	0.229
Total	1.067	2.026	3.093

Worksheet 2L Summary Results for Urban and Suburban Arterial Intersections						
(1)	(2)					
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)					
	(Total) from Worksheet 2K					
Total	3.1					
Fatal and injury (FI)	1.1					
Property damage only (PDO)	2.0					

Worksh	neet 2A General Information and Input	Data for Urban and Suburban A	rterial Interse	ections	
General Informat		Location Information			
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD	
Agency or Company	VHB	Intersection	N Pointe Blvd		
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data	Base Conditions		Site Conditions		
Intersection type (3ST, 3SG, 4ST, 4SG)				3ST	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 45,700$ (veh/day)			23,600	
AADT minor (veh/day)	AADT <sub>MAX</sub> = 9,300 (veh/day)			2,900	
Intersection lighting (present/not present)		Not Present		Not Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lane	s (0,1,2)	0		1	
Number of major-road approaches with right-turn land	0		1		
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4)	[for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3,4	1) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing [f	or 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if applicate	ole)				
Number of approaches with right-turn-on-red prohibit	ed [for 3SG, use maximum value of 3]	0			
Intersection red light cameras (present/not present)		Not Present			
Sum of all pedestrian crossing volumes (PedVol) \$					
Maximum number of lanes crossed by a pedestrian (					
Number of bus stops within 300 m (1,000 ft) of the in		0			
Schools within 300 m (1,000 ft) of the intersection (pr		Not Present			
Number of alcohol sales establishments within 300 m	(1,000 ft) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing								
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.67	1.00	0.86	1.00	1.00	1.00	0.58			

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)	(2)		(3)	(3) (4)	(5)	(6)	(7)	(8)	(9)	
Crash Severity Level	S	PF Coefficien	ts	Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	a fr	om Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)
Total	-13.36	1.11	0.41	0.80	2.960	1.000	2.960	0.58	1.00	1.710
Fatal and Injury (FI)	-14.01	1.16	0.30	0.69	1.064	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.330	0.978	0.58	1.00	0.565
Property Damage Only (PDO)	-15.38	1.20	0.51	0.77	2.157	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.670	1.983	0.58	1.00	1.145

	Worksheet 2D Multiple-Vehicle Collisions by Collision Type for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)				
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)				
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C				
Total	1.000	0.565	1.000	1.145	1.710				
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)				
Rear-end collision	0.421	0.238	0.440	0.504	0.742				
Head-on collision	0.045	0.025	0.023	0.026	0.052				
Angle collision	0.343	0.194	0.262	0.300	0.494				
Sideswipe	0.126	0.071	0.040	0.046	0.117				
Other multiple-vehicle collision	0.065	0.037	0.235	0.269	0.306				

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections										
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted	
				Parameter, k	Initial N <sub>bisv</sub>	Crashes	$N_{bimv}$	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$	
Crash Severity Level	fı	om Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)	
	а	b		from Table 12-12	(FI) from Eqn. 12-		(4)TOTAL (3)	Worksheet 2B		(0) (1) (0)	
	а	D	C		24 or 12-27						
Total	-6.81	0.16	0.51	1.14	0.322	1.000	0.322	0.58	1.00	0.186	
Eatal and Injury (EI)						0.100	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.097	0.58	1.00	0.056
Fatal and Injury (FI)			<del></del>	0.100	0.300	0.097	0.58	1.00	0.030		
Property Damage Only	0.00	0.05	0.55	4.00	0.000	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.005	0.50	4.00	0.400	
(PDO)	-8.36	0.25	0.55	1.29	0.233	0.700	0.225	0.58	1.00	0.130	

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9) <sub>FI</sub> from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.056	1.000	0.130	0.186
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.003	0.000	0.000
Collision with animal	0.003	0.000	0.018	0.002	0.003
Collision with fixed object	0.762	0.043	0.834	0.109	0.151
Collision with other object	0.090	0.005	0.092	0.012	0.017
Other single-vehicle collision	0.039	0.002	0.023	0.003	0.005
Single-vehicle noncollision	0.105	0.006	0.030	0.004	0.010

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Canbration factor, o	(4)*(5)*(6)	
Total	1.710	0.186	1.896	0.021	1.00	0.040	
Fatal and injury (FI)				-	1.00	0.040	

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Comphined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					

Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections										
(1)		(2)					(4)	(5)	(6)	(7)
Crash Severity Level	SPF Coefficients					Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Lever		f	rom Table 12-1	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		Hom Equation 12-29	110111 Equation 12-29 (4) ITOTH Worksheet 2H		(4) (3) (0)
Total									1.00	
Fatal and Injury (FI)									1.00	

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Canbration factor, o	(4)*(5)*(6)	
Total	1.710	0.186	1.896	0.016	1.00	0.030	
Fatal and injury (FI)				1	1.00	0.030	

(1)	(2)	(3)	(4)
, ,	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE	•	•
Rear-end collisions (from Worksheet 2D)	0.238	0.504	0.742
Head-on collisions (from Worksheet 2D)	0.025	0.026	0.052
Angle collisions (from Worksheet 2D)	0.194	0.300	0.494
Sideswipe (from Worksheet 2D)	0.071	0.046	0.117
Other multiple-vehicle collision (from Worksheet 2D)	0.037	0.269	0.306
Subtotal	0.565	1.145	1.710
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.002	0.003
Collision with fixed object (from Worksheet 2F)	0.043	0.109	0.151
Collision with other object (from Worksheet 2F)	0.005	0.012	0.017
Other single-vehicle collision (from Worksheet 2F)	0.002	0.003	0.005
Single-vehicle noncollision (from Worksheet 2F)	0.006	0.004	0.010
Collision with pedestrian (from Worksheet 2G or 2I)	0.040	0.000	0.040
Collision with bicycle (from Worksheet 2J)	0.030	0.000	0.030
Subtotal	0.126	0.130	0.256
「otal	0.691	1.276	1.967

Worksheet 2L Summary Results for Urban and Suburban Arterial Intersections						
(1)	(2)					
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)					
	(Total) from Worksheet 2K					
Total	2.0					
Fatal and injury (FI)	0.7					
Property damage only (PDO)	1.3					

	heet 2A General Information and Input	Data for Urban and Suburban A			
General Informa	tion	Location Information			
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD	
Agency or Company	VHB	Intersection		Timber Lane	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)		<del></del>		4ST	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 46,800  (veh/day)$			24,000	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 5,900$ (veh/day)			3,300	
Intersection lighting (present/not present)		Not Present		Not Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lane	0		2		
Number of major-road approaches with right-turn lar	es (0,1,2)	0		1	
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4	) [for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing	for 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if applica					
Number of approaches with right-turn-on-red prohibi	ted [for 3SG, use maximum value of 3]	0			
Intersection red light cameras (present/not present)	Not Present				
Sum of all pedestrian crossing volumes (PedVol)					
Maximum number of lanes crossed by a pedestrian	( laneoxy				
Number of bus stops within 300 m (1,000 ft) of the in		0			
Schools within 300 m (1,000 ft) of the intersection (p		Not Present			
Number of alcohol sales establishments within 300 r	n (1,000 π) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing								
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.53	1.00	0.86	1.00	1.00	0.97	0.44			

		Worksheet	2C Multiple	-Vehicle Collisions by Sev	erity Level for Urban	and Suburban Arterial II	ntersections				
(1)	(2) (3) (4)	(2)		(2)		(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>	
	a fr	rom Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)	
Total	-8.90	0.82	0.25	0.40	4.038	1.000	4.038	0.44	1.00	1.784	
Fatal and Injury (FI)	-11.13	0.93	0.28	0.48	1.679	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.408	1.649	0.44	1.00	0.728	
Property Damage Only (PDO)	-8.74	0.77	0.23	0.40	2.434	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.592	2.390	0.44	1.00	1.056	

	Worksheet 2D Multiple-	Vehicle Collisions by Collis	ion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.728	1.000	1.056	1.784
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.338	0.246	0.374	0.395	0.641
Head-on collision	0.041	0.030	0.030	0.032	0.062
Angle collision	0.440	0.320	0.335	0.354	0.674
Sideswipe	0.121	0.088	0.044	0.046	0.135
Other multiple-vehicle collision	0.060	0.044	0.217	0.229	0.273

		Worksheet	: 2E Single-\	ehicle Collisions by Sever	ty Level for Urban	and Suburban Arterial Int	ersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
				Parameter, k	Initial N <sub>bisv</sub>	Crashes	N <sub>bimv</sub>	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$
Crash Severity Level	fı	om Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b		from Table 12-12	(FI) from Eqn. 12-		(T)TOTAL (U)	Worksheet 2B		(0) (1) (0)
	а	D	C		24 or 12-27					
Total	-5.33	0.33	0.12	0.65	0.357	1.000	0.357	0.44	1.00	0.158
Fatal and Injury (FI)					0.100	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.102	0.44	1.00	0.045
Fatal and injury (FI)					0.100	0.285	0.102	0.44	1.00	0.045
Property Damage Only	7.04	0.00	0.05	0.54	0.054	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.055	0.44	4.00	0.440
(PDO)	-7.04	0.36	0.25	0.54	0.251	0.715	0.255	0.44	1.00	0.113

	Worksheet 2F Single-V	ehicle Collisions by Collisi	on Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.045	1.000	0.113	0.158
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.001	0.000	0.026	0.003	0.003
Collision with fixed object	0.679	0.031	0.847	0.096	0.126
Collision with other object	0.089	0.004	0.070	0.008	0.012
Other single-vehicle collision	0.051	0.002	0.007	0.001	0.003
Single-vehicle noncollision	0.179	0.008	0.049	0.006	0.014

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2)	(2) (3) (4) (5) (6)					
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, of	(4)*(5)*(6)	
Total	1.784	0.158	1.942	0.022	1.00	0.043	
Fatal and injury (FI)				1	1.00	0.043	

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Comphined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Level	from Table 12-14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)			
	а	b	С	d	е		ITOTT Equation 12-29	(4) IIOIII WORKSHEEL ZII		(4) (3) (0)
Total									1.00	
Fatal and Injury (FI)									1.00	

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections								
(1)	(2)	(2) (3) (4) (5) (6)						
Crash Severity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>		
Grasii Geventy Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanstation factor, o	(4)*(5)*(6)		
Total	1.784	0.158	1.942	0.018	1.00	0.035		
Fatal and injury (FI)					1.00	0.035		

(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	0.246	0.395	0.641
Head-on collisions (from Worksheet 2D)	0.030	0.032	0.062
Angle collisions (from Worksheet 2D)	0.320	0.354	0.674
Sideswipe (from Worksheet 2D)	0.088	0.046	0.135
Other multiple-vehicle collision (from Worksheet 2D)	0.044	0.229	0.273
Subtotal	0.728	1.056	1.784
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.003	0.003
Collision with fixed object (from Worksheet 2F)	0.031	0.096	0.126
Collision with other object (from Worksheet 2F)	0.004	0.008	0.012
Other single-vehicle collision (from Worksheet 2F)	0.002	0.001	0.003
Single-vehicle noncollision (from Worksheet 2F)	0.008	0.006	0.014
Collision with pedestrian (from Worksheet 2G or 2I)	0.043	0.000	0.043
Collision with bicycle (from Worksheet 2J)	0.035	0.000	0.035
Subtotal	0.123	0.113	0.235
Total	0.851	1.168	2.019

Worksheet 2L Summary R	esults for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)
	(Total) from Worksheet 2K
Total	2.0
Fatal and injury (FI)	0.9
Property damage only (PDO)	1.2

	heet 2A General Information and Input	Data for Urban and Suburban A				
General Informa	tion		Location Information			
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD		
Agency or Company	VHB	Intersection		Fells Cove Blvd		
Date Performed	12/11/20	Jurisdiction		Osceola County, FL		
		Analysis Year	•	2045		
Input Data	Base Conditions		Site Conditions			
Intersection type (3ST, 3SG, 4ST, 4SG)	<del></del>		3ST			
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 45,700  (veh/day)$			23,400		
AADT <sub>minor</sub> (veh/day)	AADT <sub>MAX</sub> = 9,300 (veh/day)			1,800		
Intersection lighting (present/not present)		Not Present		Not Present		
Calibration factor, C <sub>i</sub>		1.00		1.00		
Data for unsignalized intersections only:						
Number of major-road approaches with left-turn lane	0		1			
Number of major-road approaches with right-turn lar	0		1			
Data for signalized intersections only:						
Number of approaches with left-turn lanes (0,1,2,3,4	) [for 3SG, use maximum value of 3]	0				
Number of approaches with right-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0				
Number of approaches with left-turn signal phasing	for 3SG, use maximum value of 3]					
Type of left-turn signal phasing for Leg #1		Permissive				
Type of left-turn signal phasing for Leg #2						
Type of left-turn signal phasing for Leg #3						
Type of left-turn signal phasing for Leg #4 (if applica						
Number of approaches with right-turn-on-red prohibi	ted [for 3SG, use maximum value of 3]	0				
Intersection red light cameras (present/not present)	Not Present					
Sum of all pedestrian crossing volumes (PedVol)						
Maximum number of lanes crossed by a pedestrian	( laneoxy					
Number of bus stops within 300 m (1,000 ft) of the in		0				
Schools within 300 m (1,000 ft) of the intersection (p		Not Present				
Number of alcohol sales establishments within 300 r	n (1,000 π) of the intersection	0				

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF		
	Phasing							
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>		
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)		
0.67	1.00	0.86	1.00	1.00	1.00	0.58		

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	erity Level for Urban	and Suburban Arterial Ir	ntersections					
(1)		(2)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	·		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>		
	a fr	om Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)		
Total	-13.36	1.11	0.41	0.80	2.412	1.000	2.412	0.58	1.00	1.393		
Fatal and Injury (FI)	-14.01	1.16	0.30	0.69	0.913	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.353	0.851	0.58	1.00	0.491		
Property Damage Only (PDO)	-15.38	1.20	0.51	0.77	1.674	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.647	1.561	0.58	1.00	0.901		

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.491	1.000	0.901	1.393
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.421	0.207	0.440	0.397	0.603
Head-on collision	0.045	0.022	0.023	0.021	0.043
Angle collision	0.343	0.169	0.262	0.236	0.405
Sideswipe	0.126	0.062	0.040	0.036	0.098
Other multiple-vehicle collision	0.065	0.032	0.235	0.212	0.244

		Worksheet	t 2E Single-\	ehicle Collisions by Sever	ity Level for Urban	and Suburban Arterial In	tersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
				Parameter, k	Initial N <sub>bisv</sub>	Crashes	N <sub>bimv</sub>	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$
Crash Severity Level	fı	om Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	_	h		from Table 12-12	(FI) from Eqn. 12-		(T)TOTAL (S)	Worksheet 2B		(0) (1) (0)
	а	b	C		24 or 12-27					
Total	-6.81	0.16	0.51	1.14	0.252	1.000	0.252	0.58	1.00	0.146
Fatal and Injury (FI)					0.078	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.077	0.58	1.00	0.044
i atai and injury (i i)					0.076	0.304	0.077	0.30	1.00	0.044
Property Damage Only	-8.36	0.25	0.55	1.29	0.179	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.175	0.58	1.00	0.101
(PDO)	-0.30	0.25	0.55	1.29	0.179	0.696	0.175	0.58	1.00	0.101

	Worksheet 2F Single-V	ehicle Collisions by Collisi	on Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.044	1.000	0.101	0.146
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.003	0.000	0.000
Collision with animal	0.003	0.000	0.018	0.002	0.002
Collision with fixed object	0.762	0.034	0.834	0.084	0.118
Collision with other object	0.090	0.004	0.092	0.009	0.013
Other single-vehicle collision	0.039	0.002	0.023	0.002	0.004
Single-vehicle noncollision	0.105	0.005	0.030	0.003	0.008

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, of	(4)*(5)*(6)
Total	1.393	0.146	1.538	0.021	1.00	0.032
Fatal and injury (FI)				1	1.00	0.032

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections						
(1)	(2)	(3)	(4)				
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Comphined CMF				
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF				
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)				

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Level		f	rom Table 12-1	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		ITOTT Equation 12-29	(4) Holli Worksheet 211		(4) (3) (0)
Total									1.00	
Fatal and Injury (FI)									1.00	

	Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Severity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C <sub>i</sub>	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanstation factor, o	(4)*(5)*(6)	
Total	1.393	0.146	1.538	0.016	1.00	0.025	
Fatal and injury (FI)					1.00	0.025	

Worksh	eet 2K Crash Severity Distribution for Urban a	nd Suburban Arterial Intersections	·
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	0.207	0.397	0.603
lead-on collisions (from Worksheet 2D)	0.022	0.021	0.043
Angle collisions (from Worksheet 2D)	0.169	0.236	0.405
Sideswipe (from Worksheet 2D)	0.062	0.036	0.098
Other multiple-vehicle collision (from Worksheet 2D)	0.032	0.212	0.244
Subtotal	0.491	0.901	1.393
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.002	0.002
Collision with fixed object (from Worksheet 2F)	0.034	0.084	0.118
Collision with other object (from Worksheet 2F)	0.004	0.009	0.013
Other single-vehicle collision (from Worksheet 2F)	0.002	0.002	0.004
Single-vehicle noncollision (from Worksheet 2F)	0.005	0.003	0.008
Collision with pedestrian (from Worksheet 2G or 2I)	0.032	0.000	0.032
Collision with bicycle (from Worksheet 2J)	0.025	0.000	0.025
Subtotal	0.101	0.101	0.203
Total	0.593	1.003	1.595

Worksheet 2L Summary Resul	ts for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)
	(Total) from Worksheet 2K
Total	1.6
Fatal and injury (FI)	0.6
Property damage only (PDO)	1.0

	heet 2A General Information and Input	Data for Urban and Suburban A			
General Informa	tion	Location Information			
Analyst	RDW	Roadway		Boggy Creek Road NO BUILD	
Agency or Company	VHB	Intersection		Narcoosee Road	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data	Base Conditions		Site Conditions		
Intersection type (3ST, 3SG, 4ST, 4SG)		<del></del>		3SG	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 58,100  (veh/day)$			54,700	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 16,400$ (veh/day)			22,800	
Intersection lighting (present/not present)		Not Present		Not Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lane	0		0		
Number of major-road approaches with right-turn lar	0		0		
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4	) [for 3SG, use maximum value of 3]	0	2		
Number of approaches with right-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0		2	
Number of approaches with left-turn signal phasing	for 3SG, use maximum value of 3]			3	
Type of left-turn signal phasing for Leg #1		Permissive		Protected / Permissive	
Type of left-turn signal phasing for Leg #2				Protected	
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if applica					
Number of approaches with right-turn-on-red prohibi	ted [for 3SG, use maximum value of 3]	0		0	
Intersection red light cameras (present/not present)	Not Present		Not Present		
Sum of all pedestrian crossing volumes (PedVol)			10		
Maximum number of lanes crossed by a pedestrian	(			7	
Number of bus stops within 300 m (1,000 ft) of the in		0	0		
Schools within 300 m (1,000 ft) of the intersection (p		Not Present	Not Present		
Number of alcohol sales establishments within 300 r	n (1,000 ft) of the intersection	0		2	

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF		
	Phasing							
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>		
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)		
0.86	0.92	0.92	1.00	1.00	1.00	0.73		

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections											
(1)		(2)		(2)		(3)	(4)	(4) (5)		(7)	(8)	(9)
Crash Severity Level	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>		
	a fr	rom Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)		
Total	-12.13	1.11	0.26	0.33	13.312	1.000	13.312	0.73	1.00	9.720		
Fatal and Injury (FI)	-11.58	1.02	0.17	0.30	3.503	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.278	3.703	0.73	1.00	2.704		
Property Damage Only (PDO)	-13.24	1.14	0.30	0.36	9.091	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.722	9.609	0.73	1.00	7.017		

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	2.704	1.000	7.017	9.720
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.549	1.484	0.546	3.831	5.315
Head-on collision	0.038	0.103	0.020	0.140	0.243
Angle collision	0.280	0.757	0.204	1.431	2.188
Sideswipe	0.076	0.205	0.032	0.225	0.430
Other multiple-vehicle collision	0.057	0.154	0.198	1.389	1.543

		Worksheet	2E Single-\	ehicle Collisions by Sever	ity Level for Urban	and Suburban Arterial In	tersections				
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	S	PF Coefficien	ts	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted	
				Parameter, k	Initial N <sub>bisv</sub>	Crashes	$N_{bimv}$	CMFs	Factor, C <sub>i</sub>	$N_{bisv}$	
Crash Severity Level	fı	rom Table 12-1	2				(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)	
	а	b		from Table 12-12	(FI) from Eqn. 12-		(4)TOTAL (3)	Worksheet 2B		(0) (1) (0)	
	а	D	C		24 or 12-27						
Total	-9.02	0.42	0.40	0.36	0.654	1.000	0.654	0.73	1.00	0.478	
Fatal and Injury (FI)	-9.75	0.27	0.51	0.54	0.24	0.185	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.199	0.73	1.00	0.145
ratarand injury (FI)	-9.75	0.27	0.51	0.24	0.105	0.304	0.199	0.73	1.00	0.145	
Property Damage Only	0.00	0.45	0.00	0.50	0.400	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.455	0.70	4.00	0.000	
(PDO)	-9.08	0.45	0.33	0.53	0.423	0.696	0.455	0.73	1.00	0.332	

	Worksheet 2F Single-V	ehicle Collisions by Collisi	on Type for Urban and Suburba	n Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.145	1.000	0.332	0.478
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.001	0.000	0.003	0.001	0.001
Collision with fixed object	0.653	0.095	0.895	0.298	0.392
Collision with other object	0.091	0.013	0.069	0.023	0.036
Other single-vehicle collision	0.045	0.007	0.018	0.006	0.013
Single-vehicle noncollision	0.209	0.030	0.014	0.005	0.035

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crach Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, of	(4)*(5)*(6)
Total					1.00	
Fatal and injury (FI)					1.00	

Worksheet 2H Crash	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined CMF					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.00	1.12	1.12					

Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections										
(1)		(2)			(3)	(4)	(5)	(6)	(7)	
Crash Severity Level		SPF Coefficients				Overdispersion	$N_{pedbase}$	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Level		f	rom Table 12-1	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		IIOIII Equation 12-29	(4) IIOIII WORKSHEEL ZIII		(4) (3) (0)
Total	-6.60	0.05	0.24	0.41	0.09	0.52	0.009	1.12	1.00	0.010
Fatal and Injury (FI)									1.00	0.010

	Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crach Soverity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Cambration factor, of	(4)*(5)*(6)	
Total	9.720	0.478	10.198	0.011	1.00	0.112	
Fatal and injury (FI)					1.00	0.112	

Worksh	eet 2K Crash Severity Distribution for Urban a	nd Suburban Arterial Intersections	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	1.484	3.831	5.315
Head-on collisions (from Worksheet 2D)	0.103	0.140	0.243
Angle collisions (from Worksheet 2D)	0.757	1.431	2.188
Sideswipe (from Worksheet 2D)	0.205	0.225	0.430
Other multiple-vehicle collision (from Worksheet 2D)	0.154	1.389	1.543
Subtotal	2.704	7.017	9.720
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.001	0.001
Collision with fixed object (from Worksheet 2F)	0.095	0.298	0.392
Collision with other object (from Worksheet 2F)	0.013	0.023	0.036
Other single-vehicle collision (from Worksheet 2F)	0.007	0.006	0.013
Single-vehicle noncollision (from Worksheet 2F)	0.030	0.005	0.035
Collision with pedestrian (from Worksheet 2G or 2I)	0.010	0.000	0.010
Collision with bicycle (from Worksheet 2J)	0.112	0.000	0.112
Subtotal	0.268	0.332	0.600
Total	2.972	7.349	10.321

Worksheet 2L Summary Resu	ılts for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)
	(Total) from Worksheet 2K
Total	10.3
Fatal and injury (FI)	3.0
Property damage only (PDO)	7.3

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	Segments	
General Information						Location Information	
Analyst		RDW		Roadway		Boggy Creek Road BUILD	
Agency or Company		VHB		Roadway Section	y Section Simpson Road to E L		
Date Performed		12/11/20		Jurisdiction		Osceola County, FL	
				Analysis Year		2045	
Input Data				Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						4D	
Length of segment, L (mi)						1.29	
AADT (veh/day)	AADT <sub>MAX</sub> =	66,000	(veh/day)			40,300	
Type of on-street parking (none/parallel/angle)			None		None		
Proportion of curb length with on-street parking						0	
Median width (ft) - for divided only				15		20	
Lighting (present / not present)				Not Present		Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						0	
Minor commercial driveways (number)						5	
Major industrial / institutional driveways (number)						0	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)						4	
Minor residential driveways (number)						39	
Other driveways (number)						0	
Speed Category						Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)				0		30	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		15	
Calibration Factor, Cr				1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.04	0.99	0.91	1.00	0.94		

	Worksheet 1C Multiple-Vehicle Nondriveway Collisions by Severity Level for Urban and Suburban Roadway Segments									
(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Crash Severity Level	SPF Coefficients		Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted	
			Parameter, k	Initial N <sub>brmv</sub>	Crashes	$N_{brmv}$	CMFs	Factor, Cr	$N_{brmv}$	
	from Ta	ble 12-3	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)	
	a	b	Hom Table 12-3				Worksheet 1B			
Total	-12.34	1.36	1.32	10.342	1.000	10.342	0.94	1.00	9.703	
Fatal and Injury (FI)	-12.76	1.28	1.31	2.909	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	2.760	0.94	1.00	2.590	
1 atai and injury (11)		1.20	1.01	2.303	0.267	2.700	0.54	1.00	2.000	
Property Damage Only (PDO)	-12.81	1.38	1.34	7.991	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	7.582	0.94	1.00	7.114	
Froperty Damage Only (FDO)	-12.01	1.30	1.34	7.991	0.733	1.362	0.94	1.00	7.114	

(1)	(2)	(3)	(4)	(5)	(6)	
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv (TOTAL)</sub> (crashes/year)	
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C	
Total	1.000	2.590	1.000	7.114	9.703	
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)	
Rear-end collision	0.832	2.155	0.662	4.709	6.864	
Head-on collision	0.020	0.052	0.007	0.050	0.102	
Angle collision	0.040	0.104	0.036	0.256	0.360	
Sideswipe, same direction	0.050	0.129	0.223	1.586	1.716	
Sideswipe, opposite direction	0.010	0.026	0.001	0.007	0.033	
Other multiple-vehicle collision	0.048	0.124	0.071	0.505	0.629	

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.05	0.47	0.86	1.208	1.000	1.208	0.94	1.00	1.133
Fatal and Injury (FI)	-8.71	0.66	0.28	0.233	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.191	0.231	0.94	1.00	0.216
Property Damage Only (PDO)	-5.04	0.45	1.06	0.987	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.809	0.977	0.94	1.00	0.916

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision	Predicted N brsv (FI)	Proportion of Collision	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
Collision Type	Type <sub>(FI)</sub>	(crashes/year)	Type <sub>(PDO)</sub>	(Crasnes/year)	Tredicted in brsv (TOTAL) (Crashes/year)
	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.216	1.000	0.916	1.133
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.058	0.058
Collision with fixed object	0.500	0.108	0.813	0.745	0.853
Collision with other object	0.028	0.006	0.016	0.015	0.021
Other single-vehicle collision	0.471	0.102	0.108	0.099	0.201

Work	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments		
(1)	(2)	(3)	(4)	(5)	(6)	
Driveway Type	Number of driveways,	Crashes per driveway Coefficient for tra per year, N <sub>j</sub> adjustment, t		Initial N <sub>brdwy</sub>	Overdispersion parameter, k	
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7	
	,	, Ifoni rable 12-7		n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	ITOTTI TABLE 12-7	
Major commercial	0	0.033	1.106	0.000		
Minor commercial	5	0.011	1.106	0.164		
Major industrial/institutional	0	0.036	1.106	0.000	1	
Minor industrial/institutional	0	0.005	1.106	0.000		
Major residential	4	0.018	1.106	0.215	1	
Minor residential	39	0.003	1.106	0.349	1	
Other	0	0.005	1.106	0.000		
Total				0.728	1.39	

Worksheet	Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
One h Osmaita Land	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwv</sub> )	Adjusted N <sub>brdwv</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>			
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7		(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)			
Total	0.728	1.000	0.728	0.94	1.00	0.683			
Fatal and injury (FI)		0.284	0.207	0.94	1.00	0.194			
Property damage only (PDO)		0.716	0.521	0.94	1.00	0.489			

Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	9.703	1.133	0.683	11.519	0.019	1.00	0.219
Fatal and injury (FI)				-		1.00	0.219

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	9.703	1.133	0.683	11.519	0.005	1.00	0.058
Fatal and injury (FI)						1.00	0.058

Workshee	t 1K Crash Severity Distribution for Urban a	nd Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Collision type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	2.155	4.709	6.864
Head-on collisions (from Worksheet 1D)	0.052	0.050	0.102
Angle collisions (from Worksheet 1D)	0.104	0.256	0.360
Sideswipe, same direction (from Worksheet 1D)	0.129	1.586	1.716
Sideswipe, opposite direction (from Worksheet 1D)	0.026	0.007	0.033
Driveway-related collisions (from Worksheet 1H)	0.194	0.489	0.683
Other multiple-vehicle collision (from Worksheet 1D)	0.124	0.505	0.629
Subtotal	2.784	7.603	10.386
	SINGLE-VEHICLE	·	
Collision with animal (from Worksheet 1F)	0.000	0.058	0.058
Collision with fixed object (from Worksheet 1F)	0.108	0.745	0.853
Collision with other object (from Worksheet 1F)	0.006	0.015	0.021
Other single-vehicle collision (from Worksheet 1F)	0.102	0.099	0.201
Collision with pedestrian (from Worksheet 1I)	0.219	0.000	0.219
Collision with bicycle (from Worksheet 1J)	0.058	0.000	0.058
Subtotal	0.493	0.916	1.409
Total	3.277	8.519	11.796

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmer	nts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	11.8	1.29	9.1
Fatal and injury (FI)	3.3	1.29	2.5
Property damage only (PDO)	8.5	1.29	6.6

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments	
General Information						Location Information	
Analyst		RDW		Roadway		Boggy Creek Road BUILD	
Agency or Company		VHB		Roadway Section		E Lake Pointe Dr to Nele Road	
Date Performed		12/11/20		Jurisdiction Oscel		Osceola County, FL	
				Analysis Year		2045	
Input Data	Input Data					Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)				-		4D	
Length of segment, L (mi)			-		0.18		
AADT (veh/day)	AADT <sub>MAX</sub> =	66,000	(veh/day)	-		39,600	
Type of on-street parking (none/parallel/angle)			None		None		
Proportion of curb length with on-street parking					0		
Median width (ft) - for divided only				15		20	
Lighting (present / not present)				Not Present		Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						0	
Minor commercial driveways (number)				-	0		
Major industrial / institutional driveways (number)						1	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)				-		1	
Minor residential driveways (number)						1	
Other driveways (number)				-		0	
Speed Category				-		Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)	·			0		30	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]	•		30		15	
Calibration Factor, Cr				1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.04	0.99	0.91	1.00	0.94		

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-12.34	1.36	1.32	1.409	1.000	1.409	0.94	1.00	1.322
Fatal and Injury (FI)	-12.76	1.28	1.31	0.397	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.267	0.377	0.94	1.00	0.353
Property Damage Only (PDO)	-12.81	1.38	1.34	1.088	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.733	1.033	0.94	1.00	0.969

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	0.353	1.000	0.969	1.322
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.832	0.294	0.662	0.641	0.935
Head-on collision	0.020	0.007	0.007	0.007	0.014
Angle collision	0.040	0.014	0.036	0.035	0.049
Sideswipe, same direction	0.050	0.018	0.223	0.216	0.234
Sideswipe, opposite direction	0.010	0.004	0.001	0.001	0.005
Other multiple-vehicle collision	0.048	0.017	0.071	0.069	0.086

(1)	(	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	SPF Co	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
Crash Severity Level			Parameter, k	Initial N <sub>brsv</sub>	Crashes	N <sub>brsv</sub>	CMFs	Factor, Cr	$N_{brsv}$
from Table 1		ble 12-5	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)
	а	b	TOTAL TUBIO 12 0	nom Equation 12 10	( )TOTAL (-)		Worksheet 1B		(0) (1) (0)
Total	-5.05	0.47	0.86	0.167	1.000	0.167	0.94	1.00	0.157
Fatal and Injury (FI)	-8.71	0.66	0.28	0.032	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.032	0.94	1.00	0.030
Fatai and injury (FI)	-0.71	0.00	0.20	0.032	0.190	0.032	0.94	1.00	0.000
Property Damage Only (PDO)	-5.04	0.45	1.06	0.137	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.135	0.94	1.00	0.127
Property Damage Only (PDO)	-5.04	0.45		0.137	0.810	0.133	0.94	1.00	0.127

v	/orksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segment	S
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type(FI)	Predicted N <sub>brsv</sub> (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
	from Table 12-6	(9) <sub>FI</sub> from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.030	1.000	0.127	0.157
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.008	0.008
Collision with fixed object	0.500	0.015	0.813	0.103	0.118
Collision with other object	0.028	0.001	0.016	0.002	0.003
Other single-vehicle collision	0.471	0.014	0.108	0.014	0.028

Worl		way-Related Collisions by	(1)	and Suburban Roadway Segments	(2)	
(1)	(2) Number of driveways,	(3) Crashes per driveway per year, N <sub>j</sub>	(4) Coefficient for traffic adjustment, t	(5) Initial N <sub>brdwy</sub>	(6) Overdispersion parameter, k	
Driveway Type	n <sub>j</sub>	from Table 12-7	from Table 12-7	Equation 12-16 n <sub>i</sub> * N <sub>i</sub> * (AADT/15,000) <sup>t</sup>	from Table 12-7	
Major commercial	0	0.033	1.106	0.000		
Minor commercial	0	0.011	1.106	0.000	1	
Major industrial/institutional	1	0.036	1.106	0.105	7	
Minor industrial/institutional	0	0.005	1.106	0.000	7	
Major residential	1	0.018	1.106	0.053	7	
Minor residential	1	0.003	1.106	0.009	1	
Other	0	0.005	1.106	0.000	1	
Total				0.167	1.39	

Worksheet	1H Multiple-Vehicle Drive	way-Related Collisions I	by Severity Lev	el for Urban and Subur	ban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Creak Savarity Lavel	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)
Total	0.167	1.000	0.167	0.94	1.00	0.156
Fatal and injury (FI)		0.284	0.047	0.94	1.00	0.044
Property damage only (PDO)		0.716	0.119	0.94	1.00	0.112

	Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	1.322	0.157	0.156	1.635	0.019	1.00	0.031	
Fatal and injury (FI)						1.00	0.031	

	Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	1.322	0.157	0.156	1.635	0.005	1.00	0.008	
Fatal and injury (FI)		-		1		1.00	0.008	

Workshee	t 1K Crash Severity Distribution for Urban a	ind Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Comsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	0.294	0.641	0.935
Head-on collisions (from Worksheet 1D)	0.007	0.007	0.014
Angle collisions (from Worksheet 1D)	0.014	0.035	0.049
Sideswipe, same direction (from Worksheet 1D)	0.018	0.216	0.234
Sideswipe, opposite direction (from Worksheet 1D)	0.004	0.001	0.005
Driveway-related collisions (from Worksheet 1H)	0.044	0.112	0.156
Other multiple-vehicle collision (from Worksheet 1D)	0.017	0.069	0.086
Subtotal	0.398	1.081	1.479
	SINGLE-VEHICLE	·	
Collision with animal (from Worksheet 1F)	0.000	0.008	0.008
Collision with fixed object (from Worksheet 1F)	0.015	0.103	0.118
Collision with other object (from Worksheet 1F)	0.001	0.002	0.003
Other single-vehicle collision (from Worksheet 1F)	0.014	0.014	0.028
Collision with pedestrian (from Worksheet 1I)	0.031	0.000	0.031
Collision with bicycle (from Worksheet 1J)	0.008	0.000	0.008
Subtotal	0.069	0.127	0.196
Total	0.467	1.208	1.675

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	ts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	1.7	0.18	9.3
Fatal and injury (FI)	0.5	0.18	2.6
Property damage only (PDO)	1.2	0.18	6.7

Worksheet	1A General Ir	nformation	and Input D	ata for Urban and Suburba	n Roadway	/ Segments
General Information						Location Information
Analyst		RDW		Roadway		Boggy Creek Road BUILD
Agency or Company		VHB		Roadway Section		Nele Road to Springlake Village Blvd
Date Performed		12/11/20		Jurisdiction		Osceola County, FL
				Analysis Year		2045
Input Data			Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						4D
Length of segment, L (mi)				-		0.39
AADT (veh/day)	AADT <sub>MAX</sub> =	66,000	(veh/day)	-		37,700
Type of on-street parking (none/parallel/angle)	•			None		None
Proportion of curb length with on-street parking						0
Median width (ft) - for divided only				15		20
Lighting (present / not present)				Not Present		Present
Auto speed enforcement (present / not present)				Not Present		Not Present
Major commercial driveways (number)				-		0
Minor commercial driveways (number)				-		0
Major industrial / institutional driveways (number)						1
Minor industrial / institutional driveways (number)						0
Major residential driveways (number)				-		1
Minor residential driveways (number)				-		0
Other driveways (number)						0
Speed Category			-		Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)	·		·	0		90
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		15
Calibration Factor, Cr				1.00		1.00

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.18	0.99	0.91	1.00	1.07		

	Workshee	et 1C Multip	le-Vehicle Nondriveway C	ollisions by Severity Leve	for Urban and Suburba	an Roadway S	Segments		
(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
			Parameter, k	Initial N <sub>brmv</sub>	Crashes	N <sub>brmv</sub>	CMFs	Factor, Cr	N <sub>brmv</sub>
	from Ta	ble 12-3	from Table 12-3 from Equation 12-10			(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)
	а	b	Hom rable 12 0	IIOIII Labie 12-3		( ')TOTAL ( )	Worksheet 1B	(6) (7) (6)	
Total	-12.34	1.36	1.32	2.856	1.000	2.856	1.07	1.00	3.057
Fatal and Injury (FI)	-12.76	1.28	1.31	0.808	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.268	0.766	1.07	1.00	0.820
Property Damage Only (PDO)	-12.81	1.38	1.34	2.203	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.732	2.090	1.07	1.00	2.237

(1)	(2)	(3)	(4)	(5)	(6)	
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv (TOTAL)</sub> (crashes/year)	
	from Table 12-4	(9) <sub>FI</sub> from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C	
Total	1.000	0.820	1.000	2.237	3.057	
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)	
Rear-end collision	0.832	0.682	0.662	1.481	2.163	
Head-on collision	0.020	0.016	0.007	0.016	0.032	
Angle collision	0.040	0.033	0.036	0.081	0.113	
Sideswipe, same direction	0.050	0.041	0.223	0.499	0.540	
Sideswipe, opposite direction	0.010	0.008	0.001	0.002	0.010	
Other multiple-vehicle collision	0.048	0.039	0.071	0.159	0.198	

(1)	()	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.05	0.47	0.86	0.354	1.000	0.354	1.07	1.00	0.379
Fatal and Injury (FI)	-8.71	0.66	0.28	0.067	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.189	0.067	1.07	1.00	0.072
Property Damage Only (PDO)	-5.04	0.45	1.06	0.289	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.811	0.287	1.07	1.00	0.307

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision	Predicted N brsv (FI)	Proportion of Collision	Predicted N brsv (PDO)	5
Collision Type	Туре(FI)	(crashes/year)	Type <sub>(PDO)</sub>	(crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
•	from Table 12-6	(9) <sub>FI</sub> from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.072	1.000	0.307	0.379
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.019	0.019
Collision with fixed object	0.500	0.036	0.813	0.250	0.285
Collision with other object	0.028	0.002	0.016	0.005	0.007
Other single-vehicle collision	0.471	0.034	0.108	0.033	0.067

Wor	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)	(5)	(6)
Duly access Type a	Number of driveways,	Crashes per driveway per year, N <sub>j</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7
	•	ioni table 12-7		n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	noni rable 12-7
Major commercial	0	0.033	1.106	0.000	
Minor commercial	0	0.011	1.106	0.000	
Major industrial/institutional	1	0.036	1.106	0.100	
Minor industrial/institutional	0	0.005	1.106	0.000	
Major residential	1	0.018	1.106	0.050	
Minor residential	0	0.003	1.106	0.000	
Other	0	0.005	1.106	0.000	
Total				0.150	1.39

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Creak Carrenite Lavel	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>		
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)		
Total	0.150	1.000	0.150	1.07	1.00	0.160		
atal and injury (FI)		0.284	0.042	1.07	1.00	0.045		
Property damage only (PDO)		0.716	0.107	1.07	1.00	0.115		

Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	<b>f</b> <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	3.057	0.379	0.160	3.595	0.019	1.00	0.068
Fatal and injury (FI)	-					1.00	0.068

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)
Total	3.057	0.379	0.160	3.595	0.005	1.00	0.018
Fatal and injury (FI)				-		1.00	0.018

Workshee	t 1K Crash Severity Distribution for Urban a	ind Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Comsion type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE	·	
Rear-end collisions (from Worksheet 1D)	0.682	1.481	2.163
Head-on collisions (from Worksheet 1D)	0.016	0.016	0.032
Angle collisions (from Worksheet 1D)	0.033	0.081	0.113
Sideswipe, same direction (from Worksheet 1D)	0.041	0.499	0.540
Sideswipe, opposite direction (from Worksheet 1D)	0.008	0.002	0.010
Driveway-related collisions (from Worksheet 1H)	0.045	0.115	0.160
Other multiple-vehicle collision (from Worksheet 1D)	0.039	0.159	0.198
Subtotal	0.865	2.351	3.217
	SINGLE-VEHICLE	·	
Collision with animal (from Worksheet 1F)	0.000	0.019	0.019
Collision with fixed object (from Worksheet 1F)	0.036	0.250	0.285
Collision with other object (from Worksheet 1F)	0.002	0.005	0.007
Other single-vehicle collision (from Worksheet 1F)	0.034	0.033	0.067
Collision with pedestrian (from Worksheet 1I)	0.068	0.000	0.068
Collision with bicycle (from Worksheet 1J)	0.018	0.000	0.018
Subtotal	0.158	0.307	0.465
Total	1.023	2.659	3.682

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	nts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	3.7	0.39	9.4
Fatal and injury (FI)	1.0	0.39	2.6
Property damage only (PDO)	2.7	0.39	6.8

Worksheet	1A General In	nformation	and Input D	ata for Urban and Suburba	n Roadway	/ Segments	
General Information						Location Information	
Analyst		RDW		Roadway		Boggy Creek Road BUILD	
Agency or Company		VHB		Roadway Section		Springlake Village Blvd to Turnberry Blvd	
Date Performed		12/11/20		Jurisdiction Osceola Co		Osceola County, FL	
			Analysis Year		2045		
Input Data			Base Conditions		Site Conditions		
Roadway type (2U, 3T, 4U, 4D, ST)				-		4D	
Length of segment, L (mi)				-		0.57	
AADT (veh/day)	AADT <sub>MAX</sub> =	66,000	(veh/day)	-	38,500		
Type of on-street parking (none/parallel/angle)				None		None	
Proportion of curb length with on-street parking					0		
Median width (ft) - for divided only			15		20		
Lighting (present / not present)				Not Present		Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)				-		0	
Minor commercial driveways (number)				-		0	
Major industrial / institutional driveways (number)						2	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)				-		1	
Minor residential driveways (number)				-		0	
Other driveways (number)						0	
Speed Category				-		Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)				0		60	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		15	
Calibration Factor, Cr	•	•	•	1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.11	0.99	0.91	1.00	1.00		

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-12.34	1.36	1.32	4.294	1.000	4.294	1.00	1.00	4.313
Fatal and Injury (FI)	-12.76	1.28	1.31	1.212	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.268	1.150	1.00	1.00	1.155
Property Damage Only (PDO)	-12.81	1.38	1.34	3.315	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.732	3.144	1.00	1.00	3.158

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	1.155	1.000	3.158	4.313
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.832	0.961	0.662	2.091	3.052
Head-on collision	0.020	0.023	0.007	0.022	0.045
Angle collision	0.040	0.046	0.036	0.114	0.160
Sideswipe, same direction	0.050	0.058	0.223	0.704	0.762
Sideswipe, opposite direction	0.010	0.012	0.001	0.003	0.015
Other multiple-vehicle collision	0.048	0.055	0.071	0.224	0.280

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Clasii Severity Level	from Ta	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.05	0.47	0.86	0.522	1.000	0.522	1.00	1.00	0.524
Fatal and Injury (FI)	-8.71	0.66	0.28	0.100	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.190	0.099	1.00	1.00	0.099
Property Damage Only (PDO)	-5.04	0.45	1.06	0.427	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.810	0.423	1.00	1.00	0.425

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision	Predicted N brsv (FI)	Proportion of Collision	Predicted N brsv (PDO)	Prodicted N (craches/year)
Collision Type	Type <sub>(FI)</sub>	(crashes/year)	Type <sub>(PDO)</sub>	(crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.099	1.000	0.425	0.524
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.027	0.027
Collision with fixed object	0.500	0.050	0.813	0.346	0.395
Collision with other object	0.028	0.003	0.016	0.007	0.010
Other single-vehicle collision	0.471	0.047	0.108	0.046	0.093

Worl	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments		
(1)	(2) Number of driveways,	(3) Crashes per driveway per year, N <sub>j</sub>	(4) Coefficient for traffic adjustment, t	(5) Initial N <sub>brdwy</sub>	(6) Overdispersion parameter, k  from Table 12-7	
Driveway Type	n <sub>j</sub>	from Table 12-7	from Table 12-7	Equation 12-16 n <sub>i</sub> * N <sub>i</sub> * (AADT/15,000) <sup>t</sup>		
Major commercial	0	0.033	1.106	0.000		
Minor commercial	0	0.011	1.106	0.000	7	
Major industrial/institutional	2	0.036	1.106	0.204	7	
Minor industrial/institutional	0	0.005	1.106	0.000	T	
Major residential	1	0.018	1.106	0.051	1	
Minor residential	0	0.003	1.106	0.000	7	
Other	0	0.005	1.106	0.000	1	
Total				0.255	1.39	

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>		
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)		
Total	0.255	1.000	0.255	1.00	1.00	0.256		
Fatal and injury (FI)		0.284	0.072	1.00	1.00	0.073		
Property damage only (PDO)		0.716	0.183	1.00	1.00	0.184		

Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	4.313	0.524	0.256	5.094	0.019	1.00	0.097	
Fatal and injury (FI)						1.00	0.097	

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	4.313	0.524	0.256	5.094	0.005	1.00	0.025	
Fatal and injury (FI)				-		1.00	0.025	

Workshee	t 1K Crash Severity Distribution for Urban a	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
considir type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	0.961	2.091	3.052
Head-on collisions (from Worksheet 1D)	0.023	0.022	0.045
Angle collisions (from Worksheet 1D)	0.046	0.114	0.160
Sideswipe, same direction (from Worksheet 1D)	0.058	0.704	0.762
Sideswipe, opposite direction (from Worksheet 1D)	0.012	0.003	0.015
Driveway-related collisions (from Worksheet 1H)	0.073	0.184	0.256
Other multiple-vehicle collision (from Worksheet 1D)	0.055	0.224	0.280
Subtotal	1.228	3.342	4.569
	SINGLE-VEHICLE		
Collision with animal (from Worksheet 1F)	0.000	0.027	0.027
Collision with fixed object (from Worksheet 1F)	0.050	0.346	0.395
Collision with other object (from Worksheet 1F)	0.003	0.007	0.010
Other single-vehicle collision (from Worksheet 1F)	0.047	0.046	0.093
Collision with pedestrian (from Worksheet 1I)	0.097	0.000	0.097
Collision with bicycle (from Worksheet 1J)	0.025	0.000	0.025
Subtotal	0.222	0.425	0.647
Total	1.449	3.767	5.216

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	ts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	5.2	0.57	9.2
Fatal and injury (FI)	1.4	0.57	2.5
Property damage only (PDO)	3.8	0.57	6.6

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments
General Information						Location Information
Analyst		RDW		Roadway		Boggy Creek Road BUILD
Agency or Company		VHB		Roadway Section		Turnberry Blvd to N Pointe Blvd
Date Performed		12/11/20		Jurisdiction		Osceola County, FL
				Analysis Year		2045
Input Data				Base Conditions		Site Conditions
Roadway type (2U, 3T, 4U, 4D, ST)						4D
Length of segment, L (mi)						0.51
AADT (veh/day)	$AADT_{MAX} =$	66,000	(veh/day)			37,800
Type of on-street parking (none/parallel/angle)			None		None	
Proportion of curb length with on-street parking						0
Median width (ft) - for divided only				15		20
Lighting (present / not present)				Not Present		Present
Auto speed enforcement (present / not present)				Not Present		Not Present
Major commercial driveways (number)						0
Minor commercial driveways (number)						0
Major industrial / institutional driveways (number)						1
Minor industrial / institutional driveways (number)						0
Major residential driveways (number)						0
Minor residential driveways (number)						7
Other driveways (number)						0
Speed Category						Posted Speed Greater than 30 mph
Roadside fixed object density (fixed objects / mi)				0		30
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		15
Calibration Factor, Cr				1.00		1.00

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.04	0.99	0.91	1.00	0.94		

	Workshee	et 1C Multip	le-Vehicle Nondriveway C	ollisions by Severity Leve	for Urban and Suburba	n Roadway S	egments		
(1)	(1) (2) Severity Level SPF Coefficients		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level			Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
			Parameter, k	Initial N <sub>brmv</sub>	Crashes	$N_{brmv}$	CMFs	Factor, Cr	N <sub>brmv</sub>
	from Ta	ble 12-3	from Table 12-3	from Equation 12-10		$(4)_{TOTAL}^{*}(5)$	(6) from		(6)*(7)*(8)
	а	b	Hom Table 12 0	nom Equation 12 10		( · / IOTAL ( • /	Worksheet 1B		
Total	-12.34	1.36	1.32	3.748	1.000	3.748	0.94	1.00	3.516
Fatal and Injury (FI)	-12.76	1.28	1.31	1.060	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.268	1.005	0.94	1.00	0.943
Property Damage Only (PDO)	-12.81	1.38	1.34	2.892	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.732	2.743	0.94	1.00	2.573

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	0.943	1.000	2.573	3.516
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.832	0.784	0.662	1.704	2.488
Head-on collision	0.020	0.019	0.007	0.018	0.037
Angle collision	0.040	0.038	0.036	0.093	0.130
Sideswipe, same direction	0.050	0.047	0.223	0.574	0.621
Sideswipe, opposite direction	0.010	0.009	0.001	0.003	0.012
Other multiple-vehicle collision	0.048	0.045	0.071	0.183	0.228

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.05	0.47	0.86	0.463	1.000	0.463	0.94	1.00	0.435
Fatal and Injury (FI)	-8.71	0.66	0.28	0.088	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.189	0.088	0.94	1.00	0.082
Property Damage Only (PDO)	-5.04	0.45	1.06	0.379	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.811	0.376	0.94	1.00	0.352

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision	Predicted N brsv (FI)	Proportion of Collision	Predicted N brsv (PDO)	
Collision Type	Туре(FI)	(crashes/year)	Type <sub>(PDO)</sub>	(crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
	from Table 12-6	(9) <sub>FI</sub> from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.082	1.000	0.352	0.435
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.022	0.022
Collision with fixed object	0.500	0.041	0.813	0.287	0.328
Collision with other object	0.028	0.002	0.016	0.006	0.008
Other single-vehicle collision	0.471	0.039	0.108	0.038	0.077

(1)	(2)	(3) (4)		(5)	(6)
Delivery Type	Number of driveways,	Crashes per driveway per year, N <sub>i</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7
	,	Irom Table 12-7	from Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	IIOIII Table 12-7
Major commercial	0	0.033	1.106	0.000	
Minor commercial	0	0.011	1.106	0.000	
Major industrial/institutional	1	0.036	1.106	0.100	
Minor industrial/institutional	0	0.005	1.106	0.000	
Major residential	0	0.018	1.106	0.000	
Minor residential	7	0.003	1.106	0.058	
Other	0	0.005	1.106	0.000	
Total				0.158	1.39

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Creab Coverity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>		
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)		
Total	0.158	1.000	0.158	0.94	1.00	0.149		
Fatal and injury (FI)		0.284	0.045	0.94	1.00	0.042		
Property damage only (PDO)		0.716	0.113	0.94	1.00	0.106		

	Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	3.516	0.435	0.149	4.100	0.019	1.00	0.078		
Fatal and injury (FI)		-				1.00	0.078		

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	3.516	0.435	0.149	4.100	0.005	1.00	0.020	
Fatal and injury (FI)				-		1.00	0.020	

Worksheet 1	C Crash Severity Distribution for Urban	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Comston type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE	·	
Rear-end collisions (from Worksheet 1D)	0.784	1.704	2.488
Head-on collisions (from Worksheet 1D)	0.019	0.018	0.037
Angle collisions (from Worksheet 1D)	0.038	0.093	0.130
Sideswipe, same direction (from Worksheet 1D)	0.047	0.574	0.621
Sideswipe, opposite direction (from Worksheet 1D)	0.009	0.003	0.012
Driveway-related collisions (from Worksheet 1H)	0.042	0.106	0.149
Other multiple-vehicle collision (from Worksheet 1D)	0.045	0.183	0.228
Subtotal	0.985	2.680	3.665
	SINGLE-VEHICLE	·	
Collision with animal (from Worksheet 1F)	0.000	0.022	0.022
Collision with fixed object (from Worksheet 1F)	0.041	0.287	0.328
Collision with other object (from Worksheet 1F)	0.002	0.006	0.008
Other single-vehicle collision (from Worksheet 1F)	0.039	0.038	0.077
Collision with pedestrian (from Worksheet 1I)	0.078	0.000	0.078
Collision with bicycle (from Worksheet 1J)	0.020	0.000	0.020
Subtotal	0.181	0.352	0.533
Total	1.166	3.032	4.198

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segment	s	
(1)	(2)	(3)	(4)	
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)	
	(Total) from Worksheet 1K		(2) / (3)	
Total	4.2	0.51	8.2	
Fatal and injury (FI)	1.2	0.51	2.3	
Property damage only (PDO)	3.0	0.51	5.9	

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments
General Information						Location Information
Analyst		RDW		Roadway		Boggy Creek Road BUILD
Agency or Company		VHB		Roadway Section		N Pointe Blvd to Timber Lane
Date Performed		12/11/20		Jurisdiction		Osceola County, FL
				Analysis Year		2045
Input Data			Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						4D
Length of segment, L (mi)						0.54
AADT (veh/day)	AADT <sub>MAX</sub> =	66,000	(veh/day)			37,500
Type of on-street parking (none/parallel/angle)	Type of on-street parking (none/parallel/angle)					None
Proportion of curb length with on-street parking						0
Median width (ft) - for divided only				15		20
Lighting (present / not present)				Not Present		Present
Auto speed enforcement (present / not present)				Not Present		Not Present
Major commercial driveways (number)						0
Minor commercial driveways (number)						0
Major industrial / institutional driveways (number)						0
Minor industrial / institutional driveways (number)						0
Major residential driveways (number)						9
Minor residential driveways (number)						0
Other driveways (number)						0
Speed Category						Posted Speed Greater than 30 mph
Roadside fixed object density (fixed objects / mi)				0		60
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		10
Calibration Factor, Cr				1.00		1.00

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.15	0.99	0.91	1.00	1.04		

	Workshee	et 1C Multip	le-Vehicle Nondriveway Co	ollisions by Severity Leve	for Urban and Suburba	an Roadway S	egments		
(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coefficients		Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
			Parameter, k	Initial N <sub>brmv</sub>	Crashes	$N_{brmv}$	CMFs	Factor, Cr	$N_{brmv}$
	from Ta	ble 12-3	from Table 12-3	from Equation 12-10		$(4)_{TOTAL}^{*}(5)$	(6) from		(6)*(7)*(8)
	а	b	Hom Table 12 0	Hom Equation 12 10		( · / IOTAL ( · /	Worksheet 1B		(5) (1) (0)
Total	-12.34	1.36	1.32	3.925	1.000	3.925	1.04	1.00	4.089
Fatal and Injury (FI)	-12.76	1.28	1.31	1.111	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	1.053	1.04	1.00	1.097
r didi dild injury (i i)	12.70	0.268		0.268	1.000	1.04	1.00	1.007	
Property Damage Only (PDO)	-12.81	1.38	1.34	3.029	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	2.872	1.04	1.00	2.992
- roperty Damage Only (FDO)	-12.01	1.30	1.04	3.029	0.732	2.072	1.04	1.00	2.392

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9) <sub>FI</sub> from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	1.097	1.000	2.992	4.089
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.832	0.913	0.662	1.981	2.893
Head-on collision	0.020	0.022	0.007	0.021	0.043
Angle collision	0.040	0.044	0.036	0.108	0.152
Sideswipe, same direction	0.050	0.055	0.223	0.667	0.722
Sideswipe, opposite direction	0.010	0.011	0.001	0.003	0.014
Other multiple-vehicle collision	0.048	0.053	0.071	0.212	0.265

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	SPF Coe	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted
Crash Severity Level			Parameter, k	Initial N <sub>brsv</sub>	Crashes	N <sub>brsv</sub>	CMFs	Factor, Cr	$N_{brsv}$
Orasii Geventy Level	from Table 12-5		from Table 12-5	from Equation 12-13	(4) <sub>TOTAL</sub> *(5		(6) from		(6)*(7)*(8)
	а	b	HOIT TUBIC 12 0	nom Equation 12 10		(·/IOTAL (°/	Worksheet 1B	,	
Total	-5.05	0.47	0.86	0.489	1.000	0.489	1.04	1.00	0.509
Fatal and Injury (FI)	-8.71	0.66	0.28	0.093	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.092	1.04	1.00	0.096
- Fatal and Injury (FI)	-0.71	0.00	0.20	0.093	0.189	0.092	1.04	1.00	0.090
Property Damage Only (PDO)	-5.04	0.45	1.06	0.400	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.396	1.04	1.00	0.413
Property Damage Only (PDO)	-5.04	0.43	1.06	0.400	0.811	0.390	1.04	1.00	0.413

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision	Predicted N brsv (FI)	Proportion of Collision	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
Collision Type	Type <sub>(FI)</sub>	(crashes/year)	Type <sub>(PDO)</sub>	(Crashes/year)	Tredicted in brsv (TOTAL) (Crashes/year)
	from Table 12-6	(9) <sub>FI</sub> from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.096	1.000	0.413	0.509
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.026	0.026
Collision with fixed object	0.500	0.048	0.813	0.336	0.384
Collision with other object	0.028	0.003	0.016	0.007	0.009
Other single-vehicle collision	0.471	0.045	0.108	0.045	0.090

Worl		way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments	(0)	
(1)	(2) Number of driveways,	Crashes per driveway		(5) Initial N <sub>brdwy</sub>	(6) Overdispersion parameter, k	
Driveway Type	n <sub>i</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7	
	-	IIOIII Table 12-7	IIOIII Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	IIOIII Table 12-7	
Major commercial	0	0.033	1.106	0.000		
Minor commercial	0	0.011	1.106	0.000		
Major industrial/institutional	0	0.036	1.106	0.000		
Minor industrial/institutional	0	0.005	1.106	0.000		
Major residential	9	0.018	1.106	0.446		
Minor residential	0	0.003	1.106	0.000		
Other	0	0.005	1.106	0.000		
Total				0.446	1.39	

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>	
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)	
Total	0.446	1.000	0.446	1.04	1.00	0.465	
Fatal and injury (FI)		0.284	0.127	1.04	1.00	0.132	
Property damage only (PDO)		0.716	0.320	1.04	1.00	0.333	

Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	4.089	0.509	0.465	5.063	0.019	1.00	0.096	
Fatal and injury (FI)				-		1.00	0.096	

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	4.089	0.509	0.465	5.063	0.005	1.00	0.025	
Fatal and injury (FI)				-		1.00	0.025	

Workshee	t 1K Crash Severity Distribution for Urban a	and Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
considir type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	0.913	1.981	2.893
Head-on collisions (from Worksheet 1D)	0.022	0.021	0.043
Angle collisions (from Worksheet 1D)	0.044	0.108	0.152
Sideswipe, same direction (from Worksheet 1D)	0.055	0.667	0.722
Sideswipe, opposite direction (from Worksheet 1D)	0.011	0.003	0.014
Driveway-related collisions (from Worksheet 1H)	0.132	0.333	0.465
Other multiple-vehicle collision (from Worksheet 1D)	0.053	0.212	0.265
Subtotal	1.229	3.325	4.554
	SINGLE-VEHICLE		
Collision with animal (from Worksheet 1F)	0.000	0.026	0.026
Collision with fixed object (from Worksheet 1F)	0.048	0.336	0.384
Collision with other object (from Worksheet 1F)	0.003	0.007	0.009
Other single-vehicle collision (from Worksheet 1F)	0.045	0.045	0.090
Collision with pedestrian (from Worksheet 1I)	0.096	0.000	0.096
Collision with bicycle (from Worksheet 1J)	0.025	0.000	0.025
Subtotal	0.218	0.413	0.631
Total	1.447	3.738	5.184

	Worksheet 1L Summary Results for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)						
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)						
	(Total) from Worksheet 1K		(2) / (3)						
Total	5.2	0.54	9.6						
Fatal and injury (FI)	1.4	0.54	2.7						
Property damage only (PDO)	3.7	0.54	6.9						

Worksheet	1A General In	formation	and Input D	ata for Urban and Suburba	n Roadway	y Segments	
General Information						Location Information	
Analyst		RDW		Roadway		Boggy Creek Road BUILD	
Agency or Company		VHB		Roadway Section	oadway Section Timber Lane to		
Date Performed		12/11/20		Jurisdiction		Osceola County, FL	
				Analysis Year		2045	
Input Data				Base Conditions		Site Conditions	
Roadway type (2U, 3T, 4U, 4D, ST)						4D	
Length of segment, L (mi)				-		1.65	
AADT (veh/day)	AADT <sub>MAX</sub> =	66,000	(veh/day)	-		37,500	
Type of on-street parking (none/parallel/angle)				None		None	
Proportion of curb length with on-street parking						0	
Median width (ft) - for divided only				15		20	
Lighting (present / not present)				Not Present		Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)				-		0	
Minor commercial driveways (number)						0	
Major industrial / institutional driveways (number)						1	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)				-		6	
Minor residential driveways (number)				-		17	
Other driveways (number)						0	
Speed Category			-		Posted Speed Greater than 30 mph		
Roadside fixed object density (fixed objects / mi)				0		30	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30]			30		15	
Calibration Factor, Cr				1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.04	0.99	0.91	1.00	0.94		

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-12.34	1.36	1.32	11.994	1.000	11.994	0.94	1.00	11.254
Fatal and Injury (FI)	-12.76	1.28	1.31	3.393	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.268	3.218	0.94	1.00	3.019
Property Damage Only (PDO)	-12.81	1.38	1.34	9.254	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.732	8.776	0.94	1.00	8.234

Wor	rksheet 1D Multiple-Vehicle No	ndriveway Collisions by	Collision Type for Urban ar	nd Suburban Roadway S	egments
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv (TOTAL)</sub> (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	3.019	1.000	8.234	11.254
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.832	2.512	0.662	5.451	7.963
Head-on collision	0.020	0.060	0.007	0.058	0.118
Angle collision	0.040	0.121	0.036	0.296	0.417
Sideswipe, same direction	0.050	0.151	0.223	1.836	1.987
Sideswipe, opposite direction	0.010	0.030	0.001	0.008	0.038
Other multiple-vehicle collision	0.048	0.145	0.071	0.585	0.730

	Worksheet 1E Single-Vehicle Collisions by Severity Level for Urban and Suburban Roadway Segments									
(1)	(	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	SPF Co	efficients	Overdispersion		Proportion of Total	Adjusted	Combined	Calibration	Predicted	
Crash Severity Level			Parameter, k	Initial N <sub>brsv</sub>	Crashes	N <sub>brsv</sub>	CMFs	Factor, Cr	N <sub>brsv</sub>	
Orasii Geventy Level	from Ta	ble 12-5	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from		(6)*(7)*(8)	
	а	b		'			Worksheet 1B			
Total	-5.05	0.47	0.86	1.493	1.000	1.493	0.94	1.00	1.401	
Fatal and Injury (FI)	-8.71	0.66	0.28	0.284	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.282	0.94	1.00	0.264	
, , , , , , , , , , , , , , , , , , ,	0.189		0.189							
Property Damage Only (PDO)	-5.04	0.45	1.06	1.222	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	1.211	0.94	1.00	1.137	
, (,			.,,,,		0.811					

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision Type(FI)	Predicted N brsv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brsv (PDO) (crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
Collision Type	- <b>,</b> ,	(o.uo.ioo.you.)	· <b>) P</b> (PDO)	, ,	2.07 (1.0.11.2) (
	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.264	1.000	1.137	1.401
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.072	0.072
Collision with fixed object	0.500	0.132	0.813	0.924	1.056
Collision with other object	0.028	0.007	0.016	0.018	0.026
Other single-vehicle collision	0.471	0.125	0.108	0.123	0.247

Wor	ksheet 1G Multiple-Vehicle Drive	way-Related Collisions by	Driveway Type for Urban	and Suburban Roadway Segments		
(1)	(2)	(3)	(4)	(5)	(6)	
Duly access Type a	Number of driveways,	Crashes per driveway per year, N <sub>j</sub>	Coefficient for traffic adjustment, t	Initial N <sub>brdwy</sub>	Overdispersion parameter, k	
Driveway Type	n <sub>i</sub>	f T 11 40 7	from Toble 10.7	Equation 12-16	from Toble 40.7	
	•	from Table 12-7	from Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	from Table 12-7	
Major commercial	0	0.033	1.106	0.000		
Minor commercial	0	0.011	1.106	0.000		
Major industrial/institutional	1	0.036	1.106	0.099		
Minor industrial/institutional	0	0.005	1.106	0.000		
Major residential	6	0.018	1.106	0.298	1	
Minor residential	17	0.003	1.106	0.141		
Other	0	0.005	1.106	0.000		
Total				0.537	1.39	

Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Creah Savarity Lavel	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	N Combined CMFs		Predicted N <sub>brdwy</sub>		
Crash Severity Level	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)		
Total	0.537	1.000	0.537	0.94	1.00	0.504		
Fatal and injury (FI)		0.284	0.153	0.94	1.00	0.143		
Property damage only (PDO)		0.716	0.385	0.94	1.00	0.361		

Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	11.254	1.401	0.504	13.158	0.019	1.00	0.250	
Fatal and injury (FI)				-		1.00	0.250	

Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>	
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)	
Total	11.254	1.401	0.504	13.158	0.005	1.00	0.066	
Fatal and injury (FI)				-		1.00	0.066	

Workshee	t 1K Crash Severity Distribution for Urban a	ind Suburban Roadway Segments	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;
Collision type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 1D)	2.512	5.451	7.963
Head-on collisions (from Worksheet 1D)	0.060	0.058	0.118
Angle collisions (from Worksheet 1D)	0.121	0.296	0.417
Sideswipe, same direction (from Worksheet 1D)	0.151	1.836	1.987
Sideswipe, opposite direction (from Worksheet 1D)	0.030	0.008	0.038
Driveway-related collisions (from Worksheet 1H)	0.143	0.361	0.504
Other multiple-vehicle collision (from Worksheet 1D)	0.145	0.585	0.730
Subtotal	3.163	8.595	11.758
	SINGLE-VEHICLE	·	
Collision with animal (from Worksheet 1F)	0.000	0.072	0.072
Collision with fixed object (from Worksheet 1F)	0.132	0.924	1.056
Collision with other object (from Worksheet 1F)	0.007	0.018	0.026
Other single-vehicle collision (from Worksheet 1F)	0.125	0.123	0.247
Collision with pedestrian (from Worksheet 1I)	0.250	0.000	0.250
Collision with bicycle (from Worksheet 1J)	0.066	0.000	0.066
Subtotal	0.580	1.137	1.717
Total	3.743	9.731	13.474

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	ts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	13.5	1.65	8.2
Fatal and injury (FI)	3.7	1.65	2.3
Property damage only (PDO)	9.7	1.65	5.9

Worksheet	1A General I	nformation	and Input D	ata for Urban and Suburba	n Roadway	y Segments	
General Information			-			Location Information	
Analyst		RDW		Roadway		Boggy Creek Road BUILD	
Agency or Company		VHB		Roadway Section		Fells Cove Blvd to Narcoosee Road	
Date Performed		12/11/20		•		Osceola County, FL	
				Analysis Year		2045	
Input Data			Base Conditions		Site Conditions		
Roadway type (2U, 3T, 4U, 4D, ST)				4D			
Length of segment, L (mi)						0.76	
AADT (veh/day)	$AADT_{MAX} =$	66,000	(veh/day)			37,500	
Type of on-street parking (none/parallel/angle)		None		None			
Proportion of curb length with on-street parking	Proportion of curb length with on-street parking					0	
Median width (ft) - for divided only				15		20	
Lighting (present / not present)				Not Present		Present	
Auto speed enforcement (present / not present)				Not Present		Not Present	
Major commercial driveways (number)						2	
Minor commercial driveways (number)					1		
Major industrial / institutional driveways (number)						0	
Minor industrial / institutional driveways (number)						0	
Major residential driveways (number)						5	
Minor residential driveways (number)						0	
Other driveways (number)						0	
Speed Category						Posted Speed Greater than 30 mph	
Roadside fixed object density (fixed objects / mi)		•	•	0		30	
Offset to roadside fixed objects (ft) [If greater than 30 or Not P	resent, input 30	]		30		15	
Calibration Factor, Cr		•		1.00		1.00	

Worksheet 1B Crash Modification Factors for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)		
CMF for On-Street Parking	CMF for Roadside Fixed Objects	CMF for Median Width	CMF for Lighting	CMF for Automated Speed Enforcement	Combined CMF		
CMF 1r	CMF 2r	CMF 3r	CMF 4r	CMF 5r	CMF comb		
from Equation 12-32	from Equation 12-33	from Table 12-22	from Equation 12-34	from Section 12.7.1	(1)*(2)*(3)*(4)*(5)		
1.00	1.04	0.99	0.91	1.00	0.94		

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brmv</sub>	Proportion of Total Crashes	Adjusted N <sub>brmv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brmv</sub>
	from Ta	ble 12-3 b	from Table 12-3	from Equation 12-10		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-12.34	1.36	1.32	5.525	1.000	5.525	0.94	1.00	5.183
Fatal and Injury (FI)	-12.76	1.28	1.31	1.563	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.268	1.482	0.94	1.00	1.391
Property Damage Only (PDO)	-12.81	1.38	1.34	4.263	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.732	4.042	0.94	1.00	3.793

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N brmv (FI) (crashes/year)	Proportion of Collision Type <sub>(PDO)</sub>	Predicted N brmv (PDO) (crashes/year)	Predicted N <sub>brmv</sub> (TOTAL) (crashes/year)
	from Table 12-4	(9)FI from Worksheet 1C	from Table 12-4	(9)PDO from Worksheet 1C	(9)TOTAL from Worksheet 1C
Total	1.000	1.391	1.000	3.793	5.183
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.832	1.157	0.662	2.511	3.668
Head-on collision	0.020	0.028	0.007	0.027	0.054
Angle collision	0.040	0.056	0.036	0.137	0.192
Sideswipe, same direction	0.050	0.070	0.223	0.846	0.915
Sideswipe, opposite direction	0.010	0.014	0.001	0.004	0.018
Other multiple-vehicle collision	0.048	0.067	0.071	0.269	0.336

(1)	(2	2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	SPF Coe	efficients	Overdispersion Parameter, k	Initial N <sub>brsv</sub>	Proportion of Total Crashes	Adjusted N <sub>brsv</sub>	Combined CMFs	Calibration Factor, Cr	Predicted N <sub>brsv</sub>
Crash Seventy Level	from Ta a	ble 12-5 b	from Table 12-5	from Equation 12-13		(4) <sub>TOTAL</sub> *(5)	(6) from Worksheet 1B		(6)*(7)*(8)
Total	-5.05	0.47	0.86	0.688	1.000	0.688	0.94	1.00	0.645
Fatal and Injury (FI)	-8.71	0.66	0.28	0.131	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.189	0.130	0.94	1.00	0.122
Property Damage Only (PDO)	-5.04	0.45	1.06	0.563	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.811	0.558	0.94	1.00	0.523

	Worksheet 1F Single-Vehi	cle Collisions by Collision	n Type for Urban and Subu	rban Roadway Segments	5
(1)	(2)	(3)	(4)	(5)	(6)
	Proportion of Collision	Predicted N brsv (FI)	Proportion of Collision	Predicted N brsv (PDO)	Prodicted N (craches/year)
Collision Type	Type <sub>(FI)</sub>	(crashes/year)	Type <sub>(PDO)</sub>	(crashes/year)	Predicted N <sub>brsv (TOTAL)</sub> (crashes/year)
	from Table 12-6	(9)FI from Worksheet 1E	from Table 12-6	(9)PDO from Worksheet 1E	(9)TOTAL from Worksheet 1E
Total	1.000	0.122	1.000	0.523	0.645
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with animal	0.001	0.000	0.063	0.033	0.033
Collision with fixed object	0.500	0.061	0.813	0.426	0.486
Collision with other object	0.028	0.003	0.016	0.008	0.012
Other single-vehicle collision	0.471	0.057	0.108	0.057	0.114

Worl		way-Related Collisions by	y Driveway Type for Urban	and Suburban Roadway Segments	(0)
(1)	(2) Number of driveways,	Crashes per driveway		(5) Initial N <sub>brdwy</sub>	(6) Overdispersion parameter, k
Driveway Type	n <sub>j</sub>	from Table 12-7	from Table 12-7	Equation 12-16	from Table 12-7
		Hom Table 12-1	Hom Table 12-7	n <sub>j</sub> * N <sub>j</sub> * (AADT/15,000) <sup>t</sup>	TOTT TUBIC 12 7
Major commercial	2	0.033	1.106	0.182	
Minor commercial	1	0.011	1.106	0.030	
Major industrial/institutional	0	0.036	1.106	0.000	
Minor industrial/institutional	0	0.005	1.106	0.000	
Major residential	5	0.018	1.106	0.248	
Minor residential	0	0.003	1.106	0.000	7
Other	0	0.005	1.106	0.000	
Total				0.460	1.39

Worksheet	Worksheet 1H Multiple-Vehicle Driveway-Related Collisions by Severity Level for Urban and Suburban Roadway Segments							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
Crash Severity Level	Initial N <sub>brdwy</sub>	Proportion of total crashes (f <sub>dwy</sub> )	Adjusted N <sub>brdwy</sub>	Combined CMFs	Calibration factor C	Predicted N <sub>brdwy</sub>		
	(5) <sub>TOTAL</sub> from Worksheet 1G	from Table 12-7	(2) <sub>TOTAL</sub> * (3)	(6) from Worksheet 1B	Calibration factor, C <sub>r</sub>	(4)*(5)*(6)		
Total	0.460	1.000	0.460	0.94	1.00	0.432		
Fatal and injury (FI)		0.284	0.131	0.94	1.00	0.123		
Property damage only (PDO)		0.716	0.329	0.94	1.00	0.309		

	Worksheet 1I Vehicle-Pedestrian Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	<b>f</b> <sub>pedr</sub>	Calibration	Predicted N <sub>pedr</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-8	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	5.183	0.645	0.432	6.260	0.019	1.00	0.119		
Fatal and injury (FI)		-				1.00	0.119		

	Worksheet 1J Vehicle-Bicycle Collisions for Urban and Suburban Roadway Segments								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	Predicted N <sub>brmv</sub>	Predicted N <sub>brsv</sub>	Predicted N <sub>brdwy</sub>	Predicted N <sub>br</sub>	f <sub>biker</sub>	Calibration	Predicted N <sub>biker</sub>		
Crash Severity Level	(9) from Worksheet 1C	(9) from Worksheet 1E	(7) from Worksheet 1H	(2)+(3)+(4)	from Table 12-9	factor, C <sub>r</sub>	(5)*(6)*(7)		
Total	5.183	0.645	0.432	6.260	0.005	1.00	0.031		
Fatal and injury (FI)						1.00	0.031		

Workshee	t 1K Crash Severity Distribution for Urban a	and Suburban Roadway Segments		
(1)	(2)	(3)	(4)	
	Fatal and injury (FI)	Property damage only (PDO)	Total	
Collision type	(3) from Worksheet 1D and 1F;	(5) from Worksheet 1D and 1F; and	(6) from Worksheet 1D and 1F;	
considir type	(7) from Worksheet 1H; and	(7) from Worksheet 1H	(7) from Worksheet 1H; and	
	(8) from Worksheet 1I and 1J		(8) from Worksheet 1I and 1J	
	MULTIPLE-VEHICLE			
Rear-end collisions (from Worksheet 1D)	1.157	2.511	3.668	
Head-on collisions (from Worksheet 1D)	0.028	0.027	0.054	
Angle collisions (from Worksheet 1D)	0.056	0.137	0.192	
Sideswipe, same direction (from Worksheet 1D)	0.070	0.846	0.915	
Sideswipe, opposite direction (from Worksheet 1D)	0.014	0.004	0.018	
Driveway-related collisions (from Worksheet 1H)	0.123	0.309	0.432	
Other multiple-vehicle collision (from Worksheet 1D)	0.067	0.269	0.336	
Subtotal	1.513	4.102	5.615	
	SINGLE-VEHICLE			
Collision with animal (from Worksheet 1F)	0.000	0.033	0.033	
Collision with fixed object (from Worksheet 1F)	0.061	0.426	0.486	
Collision with other object (from Worksheet 1F)	0.003	0.008	0.012	
Other single-vehicle collision (from Worksheet 1F)	0.057	0.057	0.114	
Collision with pedestrian (from Worksheet 1I)	0.119	0.000	0.119	
Collision with bicycle (from Worksheet 1J)	0.031	0.000	0.031	
Subtotal	0.272	0.523	0.796	
Total	1.785	4.625	6.411	

	Worksheet 1L Summary Results for U	rban and Suburban Roadway Segmen	ts
(1)	(2)	(3)	(4)
Crash Severity Level	Predicted average crash frequency, N predicted rs (crashes/year)	Roadway segment length, L (mi)	Crash rate (crashes/mi/year)
	(Total) from Worksheet 1K		(2) / (3)
Total	6.4	0.76	8.4
Fatal and injury (FI)	1.8	0.76	2.3
Property damage only (PDO)	4.6	0.76	6.1

Works	heet 2A General Information and Input	Data for Urban and Suburban A	rterial Intersec	tions	
General Informa	tion		Locatio	n Information	
Analyst	RDW	Roadway		Boggy Creek Road BUILD	
Agency or Company	VHB	Intersection		Simpson Road	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)	LAADT			4SG	
AADT <sub>major</sub> (veh/day)	AADT <sub>MAX</sub> = 67,700 (veh/day)			40,100	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 33,400$ (veh/day)	-		39,700	
Intersection lighting (present/not present)		Not Present		Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lan	es (0,1,2)	0			
Number of major-road approaches with right-turn la	0				
Data for signalized intersections only:				<del></del>	
Number of approaches with left-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0	4		
Number of approaches with right-turn lanes (0,1,2,3	s,4) [for 3SG, use maximum value of 3]	0	4		
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]		4		
Type of left-turn signal phasing for Leg #1		Permissive	Protected		
Type of left-turn signal phasing for Leg #2				Protected	
Type of left-turn signal phasing for Leg #3				Protected	
Type of left-turn signal phasing for Leg #4 (if application)				Protected	
Number of approaches with right-turn-on-red prohib		0		4	
Intersection red light cameras (present/not present)		Not Present	Not Present		
Sum of all pedestrian crossing volumes (PedVol)	· ·		10		
Maximum number of lanes crossed by a pedestrian	( idilook)		8		
Number of bus stops within 300 m (1,000 ft) of the i		0	0		
Schools within 300 m (1,000 ft) of the intersection (		Not Present	Not Present		
Number of alcohol sales establishments within 300	m (1,000 ft) of the intersection	0		1	

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing	-	-		-				
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.66	0.78	0.85	0.92	0.91	1.00	0.37			

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	erity Level for Urbar	and Suburban Arterial I	ntersections				
(1)		(2)		(2)		(3) (4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	s	PF Coefficien	ts	Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>	
	a fr	rom Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)	
Total	-10.99	1.07	0.23	0.39	16.225	1.000	16.225	0.37	1.00	5.965	
Fatal and Injury (FI)	-13.14	1.18	0.22	0.33	5.455	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.346	5.617	0.37	1.00	2.065	
Property Damage Only (PDO)	-11.02	1.02	0.24	0.44	10.304	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.654	10.609	0.37	1.00	3.900	

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	2.065	1.000	3.900	5.965
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.450	0.929	0.483	1.884	2.813
Head-on collision	0.049	0.101	0.030	0.117	0.218
Angle collision	0.347	0.717	0.244	0.952	1.668
Sideswipe	0.099	0.204	0.032	0.125	0.329
Other multiple-vehicle collision	0.055	0.114	0.211	0.823	0.936

		Worksheet	t 2E Single-\	ehicle Collisions by Seve	erity Level for Urban	and Suburban Arterial I	ntersections			
(1)		(2)		(3) (4)		(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion Parameter, k	Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	12		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		(')TOTAL (O)	Worksheet 2B		(0) (1) (0)
	ď	Б	Ü		24 or 12-27					
Total	-10.21	0.68	0.27	0.36	0.866	1.000	0.866	0.37	1.00	0.318
Fatal and Injury (FI)	-9.25	0.43	0.29	0.09	0.198	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.201	0.37	1.00	0.074
Fatal and injury (FI)	-9.25	0.43	0.29	0.09	0.196	0.232	0.201	0.37	1.00	0.074
Property Damage Only	11.01	0.70	0.05	0.44	0.654	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.005	0.07	4.00	0.045
(PDO)	-11.34	0.78	0.25	0.44	0.654	0.768	0.665	0.37	1.00	0.245

	Worksheet 2F Single-V	ehicle Collisions by Collis	ion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.074	1.000	0.245	0.318
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.002	0.000	0.002	0.000	0.001
Collision with fixed object	0.744	0.055	0.870	0.213	0.268
Collision with other object	0.072	0.005	0.070	0.017	0.022
Other single-vehicle collision	0.040	0.003	0.023	0.006	0.009
Single-vehicle noncollision	0.141	0.010	0.034	0.008	0.019

	Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)		(5)	(6)	(7)	
Crach Soverity Lovel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, o	(4)*(5)*(6)	
Total					1.00		
Fatal and injury (FI)					1.00		

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.00	1.12	1.12					

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level	а	from Table 12-14			Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)	
Total	-9.53	0.40	0.26	0.45	0.04	0.24	0.026	1.12	1.00	0.029
Fatal and Injury (FI)	-								1.00	0.029

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanbration factor, o	(4)*(5)*(6)	
Total	5.965	0.318	6.283	0.015	1.00	0.094	
Fatal and injury (FI)					1.00	0.094	

(1)	(2)	(3)	(4)
. ,	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE	•	•
Rear-end collisions (from Worksheet 2D)	0.929	1.884	2.813
Head-on collisions (from Worksheet 2D)	0.101	0.117	0.218
Angle collisions (from Worksheet 2D)	0.717	0.952	1.668
Sideswipe (from Worksheet 2D)	0.204	0.125	0.329
Other multiple-vehicle collision (from Worksheet 2D)	0.114	0.823	0.936
Subtotal	2.065	3.900	5.965
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.000	0.001
Collision with fixed object (from Worksheet 2F)	0.055	0.213	0.268
Collision with other object (from Worksheet 2F)	0.005	0.017	0.022
Other single-vehicle collision (from Worksheet 2F)	0.003	0.006	0.009
Single-vehicle noncollision (from Worksheet 2F)	0.010	0.008	0.019
Collision with pedestrian (from Worksheet 2G or 2I)	0.029	0.000	0.029
Collision with bicycle (from Worksheet 2J)	0.094	0.000	0.094
Subtotal	0.197	0.245	0.442
Total	2.262	4.145	6.407

Worksheet 2L Summary R	esults for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, $N_{predicted\ int}$ (crashes/year)
	(Total) from Worksheet 2K
Total	6.4
Fatal and injury (FI)	2.3
Property damage only (PDO)	4.1

Works	heet 2A General Information and Input	Data for Urban and Suburban A	rterial Intersections		
General Informa	tion		Location Information		
Analyst	RDW	Roadway	Boggy Creek Road BUILD		
Agency or Company	VHB	Intersection	E Lake Pointe Dr		
Date Performed	12/11/20	Jurisdiction	Osceola County, FL		
		Analysis Year	2045		
Input Data		Base Conditions	Site Conditions		
Intersection type (3ST, 3SG, 4ST, 4SG)	AADT		3ST		
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 45,700$ (veh/day)		40,300		
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 9,300$ (veh/day)		2,000		
Intersection lighting (present/not present)		Not Present	Present		
Calibration factor, C <sub>i</sub>		1.00	1.00		
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn land	es (0,1,2)	0	1		
Number of major-road approaches with right-turn la	nes (0,1,2)	0	1		
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4	1) [for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3	,4) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if application)					
Number of approaches with right-turn-on-red prohib	ited [for 3SG, use maximum value of 3]	0			
Intersection red light cameras (present/not present)		Not Present			
Sum of all pedestrian crossing volumes (PedVol)					
Maximum number of lanes crossed by a pedestrian	(				
Number of bus stops within 300 m (1,000 ft) of the i		0			
Schools within 300 m (1,000 ft) of the intersection (p		Not Present			
Number of alcohol sales establishments within 300	m (1,000 ft) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing	-	-		_				
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.67	1.00	0.86	1.00	0.91	1.00	0.53			

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections													
(1)		(2)		(2)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	PF Coefficien	pefficients Overdispersion Parameter, k		Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>				
	fı a	rom Table 12-1 b	0 с	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)				
Total	-13.36	1.11	0.41	0.80	4.604	1.000	4.604	0.53	1.00	2.419				
Fatal and Injury (FI)	-14.01	1.16	0.30	0.69	1.770	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.343	1.579	0.53	1.00	0.830				
Property Damage Only (PDO)	-15.38	1.20	0.51	0.77	3.392	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.657	3.025	0.53	1.00	1.590				

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.830	1.000	1.590	2.419
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.421	0.349	0.440	0.699	1.049
Head-on collision	0.045	0.037	0.023	0.037	0.074
Angle collision	0.343	0.285	0.262	0.416	0.701
Sideswipe	0.126	0.105	0.040	0.064	0.168
Other multiple-vehicle collision	0.065	0.054	0.235	0.374	0.427

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections											
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)		
	S	SPF Coefficients		SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	12		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)		
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		(')TOTAL (O)	Worksheet 2B		(0) (1) (0)		
	a	В	C		24 or 12-27							
Total	-6.81	0.16	0.51	1.14	0.290	1.000	0.290	0.53	1.00	0.153		
Fatal and Injury (FI)					0.090	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.085	0.53	1.00	0.045		
Fatal and Injury (FI)	_				0.090	0.293	0.065	0.55	1.00	0.045		
Property Damage Only	0.00	0.05	0.55	4.00	0.047	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.005	0.52	4.00	0.400		
(PDO)	-8.36	0.25	0.55	1.29	0.217	0.707	0.205	0.53	1.00	0.108		

	Worksheet 2F Single-V	ehicle Collisions by Collis	ion Type for Urban and Suburba	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bisv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.045	1.000	0.108	0.153
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.003	0.000	0.000
Collision with animal	0.003	0.000	0.018	0.002	0.002
Collision with fixed object	0.762	0.034	0.834	0.090	0.124
Collision with other object	0.090	0.004	0.092	0.010	0.014
Other single-vehicle collision	0.039	0.002	0.023	0.002	0.004
Single-vehicle noncollision	0.105	0.005	0.030	0.003	0.008

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crach Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	$f_{pedi}$	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, o	(4)*(5)*(6)	
Total	2.419	0.153	2.572	0.021	1.00	0.054	
Fatal and injury (FI)				-	1.00	0.054	

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools CMF for Alcohol Sales Establishments		Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
	-		-					

		Workshe	et 2I Vehicle	e-Pedestrian C	Collisions for	Urban and Suburba	an Arterial Signalized Into	ersections		
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level		f	rom Table 12-	14	Parameter, I	Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		nom Equation 12 20	(1) Helli Welkerleet 211		(1) (0) (0)
Total			-		-				1.00	
Fatal and Injury (FI)									1.00	

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Severity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Stasti Seventy Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Cambration factor, O	(4)*(5)*(6)	
Total	2.419	0.153	2.572	0.016	1.00	0.041	
atal and injury (FI)					1.00	0.041	

(1)	(2)	(3)	(4)
. ,	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE	•	•
Rear-end collisions (from Worksheet 2D)	0.349	0.699	1.049
Head-on collisions (from Worksheet 2D)	0.037	0.037	0.074
Angle collisions (from Worksheet 2D)	0.285	0.416	0.701
Sideswipe (from Worksheet 2D)	0.105	0.064	0.168
Other multiple-vehicle collision (from Worksheet 2D)	0.054	0.374	0.427
Subtotal	0.830	1.590	2.419
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.002	0.002
Collision with fixed object (from Worksheet 2F)	0.034	0.090	0.124
Collision with other object (from Worksheet 2F)	0.004	0.010	0.014
Other single-vehicle collision (from Worksheet 2F)	0.002	0.002	0.004
Single-vehicle noncollision (from Worksheet 2F)	0.005	0.003	0.008
Collision with pedestrian (from Worksheet 2G or 2I)	0.054	0.000	0.054
Collision with bicycle (from Worksheet 2J)	0.041	0.000	0.041
Subtotal	0.140	0.108	0.248
Total	0.969	1.697	2.667

Worksheet 2L Summary Results for Urban and Suburban Arterial Intersections					
(1)	(2)				
Crash severity level	Predicted average crash frequency, $N_{predicted\ int}$ (crashes/year)				
	(Total) from Worksheet 2K				
Total	2.7				
Fatal and injury (FI)	1.0				
Property damage only (PDO)	1.7				

Works	heet 2A General Information and Input	: Data for Urban and Suburban A	rterial Intersection	ons	
General Informa	tion		Location	Information	
Analyst	RDW	Roadway		Boggy Creek Road BUILD	
Agency or Company	VHB	Intersection		Nele Road	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)	LAADT			4SG	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 67,700  (veh/day)$			39,500	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 33,400$ (veh/day)	-		6,700	
Intersection lighting (present/not present)		Not Present		Present	
Calibration factor, C <sub>i</sub>		1.00	1.00		
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lan	0				
Number of major-road approaches with right-turn la	nes (0,1,2)	0			
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0	3		
Number of approaches with right-turn lanes (0,1,2,3	s,4) [for 3SG, use maximum value of 3]	0	3		
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]		4		
Type of left-turn signal phasing for Leg #1		Permissive	Protected / Permissive		
Type of left-turn signal phasing for Leg #2				Protected / Permissive	
Type of left-turn signal phasing for Leg #3				Permissive	
Type of left-turn signal phasing for Leg #4 (if application)				Permissive	
Number of approaches with right-turn-on-red prohib		0		0	
Intersection red light cameras (present/not present)	Not Present	Not Present			
Sum of all pedestrian crossing volumes (PedVol)			10		
Maximum number of lanes crossed by a pedestrian	( idilook)		6		
Number of bus stops within 300 m (1,000 ft) of the i		0	0		
Schools within 300 m (1,000 ft) of the intersection (		Not Present	Present		
Number of alcohol sales establishments within 300	m (1,000 ft) of the intersection	0		0	

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing	-	-		_				
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.73	0.98	0.88	1.00	0.91	1.00	0.58			

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	rity Level for Urbar	n and Suburban Arterial	ntersections				
(1)	(2) (3) (4)	(2)		(2)		(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	s			Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>	
	fr	om Table 12-1	10	from Table 12-10	from Equation 12-		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)	
	а	b	С	HOIH TABLE 12-10	21		(')TOTAL (O)	Worksheet 2B		(0) (1) (0)	
Total	-10.99	1.07	0.23	0.39	10.604	1.000	10.604	0.58	1.00	6.113	
Fatal and Injury (FI)	-13.14	1.18	0.22	0.33	3.623	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.354	3.751	0.58	1.00	2.162	
Property Damage Only (PDO)	-11.02	1.02	0.24	0.44	6.620	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.646	6.853	0.58	1.00	3.951	

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	2.162	1.000	3.951	6.113
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.450	0.973	0.483	1.908	2.881
Head-on collision	0.049	0.106	0.030	0.119	0.224
Angle collision	0.347	0.750	0.244	0.964	1.714
Sideswipe	0.099	0.214	0.032	0.126	0.340
Other multiple-vehicle collision	0.055	0.119	0.211	0.834	0.953

		Worksheet	2E Single-\	ehicle Collisions by Seve	erity Level for Urban	and Suburban Arterial I	ntersections			
(1)		(2)		(3) (4)		(5)	(6)	(7)	(8)	(9)
	S	SPF Coefficients		Coefficients Overdispersion Pro		Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		(1)TOTAL (0)	Worksheet 2B		(0) (1) (0)
	ď	Б	ŭ		24 or 12-27					
Total	-10.21	0.68	0.27	0.36	0.530	1.000	0.530	0.58	1.00	0.306
Fatal and Injury (FI)	-9.25	0.43	0.29	0.09	0.117	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.117	0.58	1.00	0.067
Fatal and injury (FI)	-9.25	0.43	0.29	0.09	0.117	0.221	0.117	0.56	1.00	0.007
Property Damage Only	-11.34	0.70	0.05	0.44	0.444	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.442	0.58	1.00	0.238
(PDO)	-11.34	0.78	0.25	0.44	0.414	0.779	0.413	0.58	1.00	0.238

	Worksheet 2F Single-V	ehicle Collisions by Collis	ion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bisv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.067	1.000	0.238	0.306
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.002	0.000	0.002	0.000	0.001
Collision with fixed object	0.744	0.050	0.870	0.207	0.258
Collision with other object	0.072	0.005	0.070	0.017	0.022
Other single-vehicle collision	0.040	0.003	0.023	0.005	0.008
Single-vehicle noncollision	0.141	0.010	0.034	0.008	0.018

	Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2) (3) (4) (5) (6)				(6)	(7)		
Crach Soverity Lovel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>		
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, o	(4)*(5)*(6)		
Total					1.00			
Fatal and injury (FI)					1.00			

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	$CMF_{2p}$	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.35	1.00	1.35					

		Workshe	et 2I Vehicle	e-Pedestrian C	Collisions for	Urban and Suburba	an Arterial Signalized Inte	ersections		
(1)		(2)			(3)	(4)	(5)	(6)	(7)	
Crash Soverity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Level	from Table 12-14 a b c d e		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)			
Total	-9.53	0.40	0.26	0.45	0.04	0.24	0.012	1.35	1.00	0.016
Fatal and Injury (FI)									1.00	0.016

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Soverity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanbration factor, o	(4)*(5)*(6)	
Total	6.113	0.306	6.419	0.015	1.00	0.096	
Fatal and injury (FI)					1.00	0.096	

(1)	(2)	(3)	(4)
· · · · · · · · · · · · · · · · · · ·	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		•
Rear-end collisions (from Worksheet 2D)	0.973	1.908	2.881
Head-on collisions (from Worksheet 2D)	0.106	0.119	0.224
Angle collisions (from Worksheet 2D)	0.750	0.964	1.714
Sideswipe (from Worksheet 2D)	0.214	0.126	0.340
Other multiple-vehicle collision (from Worksheet 2D)	0.119	0.834	0.953
Subtotal	2.162	3.951	6.113
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.000	0.001
Collision with fixed object (from Worksheet 2F)	0.050	0.207	0.258
Collision with other object (from Worksheet 2F)	0.005	0.017	0.022
Other single-vehicle collision (from Worksheet 2F)	0.003	0.005	0.008
Single-vehicle noncollision (from Worksheet 2F)	0.010	0.008	0.018
Collision with pedestrian (from Worksheet 2G or 2I)	0.016	0.000	0.016
Collision with bicycle (from Worksheet 2J)	0.096	0.000	0.096
Subtotal	0.180	0.238	0.418
Total	2.342	4.189	6.531

Worksheet 2L Summary R	esults for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)
	(Total) from Worksheet 2K
Total	6.5
Fatal and injury (FI)	2.3
Property damage only (PDO)	4.2

Works	heet 2A General Information and Input	Data for Urban and Suburban Ar	terial Intersections		
General Informa	tion		Location Information		
Analyst	RDW	Roadway	Boggy Creek Road BUILD		
Agency or Company	VHB	Intersection	Springlake Village Blvd		
Date Performed	12/11/20	Jurisdiction	Osceola County, FL		
		Analysis Year	2045		
Input Data		Base Conditions	Site Conditions		
Intersection type (3ST, 3SG, 4ST, 4SG)			4ST		
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 46,800$ (veh/day)		37,700		
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 5,900$ (veh/day)		3,900		
Intersection lighting (present/not present)		Not Present	Present		
Calibration factor, C <sub>i</sub>		1.00	1.00		
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn land	es (0,1,2)	0	2		
Number of major-road approaches with right-turn la	nes (0,1,2)	0	2		
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4	1) [for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3	,4) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if application)					
Number of approaches with right-turn-on-red prohib	ited [for 3SG, use maximum value of 3]	0			
Intersection red light cameras (present/not present)		Not Present			
Sum of all pedestrian crossing volumes (PedVol)					
Maximum number of lanes crossed by a pedestrian	(				
Number of bus stops within 300 m (1,000 ft) of the i		0			
Schools within 300 m (1,000 ft) of the intersection (p		Not Present			
Number of alcohol sales establishments within 300	m (1,000 ft) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections									
(1)	(2)	(3)	(4)	(5)	(6)	(7)				
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF				
	Phasing	-	-		_					
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>				
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)				
0.53	1.00	0.74	1.00	0.91	0.97	0.35				

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	erity Level for Urbar	and Suburban Arterial	Intersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	s	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	fı a	rom Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)
Total	-8.90	0.82	0.25	0.40	6.097	1.000	6.097	0.35	1.00	2.112
Fatal and Injury (FI)	-11.13	0.93	0.28	0.48	2.678	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.428	2.609	0.35	1.00	0.904
Property Damage Only (PDO)	-8.74	0.77	0.23	0.40	3.581	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.572	3.489	0.35	1.00	1.209

	Worksheet 2D Multiple-	Vehicle Collisions by Colli	sion Type for Urban and Suburl	oan Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv</sub> (TOTAL) (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.904	1.000	1.209	2.112
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.338	0.305	0.374	0.452	0.757
Head-on collision	0.041	0.037	0.030	0.036	0.073
Angle collision	0.440	0.398	0.335	0.405	0.803
Sideswipe	0.121	0.109	0.044	0.053	0.163
Other multiple-vehicle collision	0.060	0.054	0.217	0.262	0.316

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3) (4)		(5)	(6)	(7)	(8)	(9)
	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		( · / IOTAL ( • /	Worksheet 2B		(0) (1) (0)
	u	Б	ŭ		24 or 12-27					
Total	-5.33	0.33	0.12	0.65	0.423	1.000	0.423	0.35	1.00	0.147
Fatal and Injury (FI)					0.118	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.118	0.35	1.00	0.041
r atai and injury (i i)					0.110	0.278	0.110	0.55	1.00	0.041
Property Damage Only	-7.04	0.36	0.25	0.54	0.307	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.305	0.35	1.00	0.106
(PDO)	-7.04	0.50	0.23	0.54	0.507	0.722	0.303	0.55	1.00	0.100

	Worksheet 2F Single-V	ehicle Collisions by Collis	ion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N $_{bisv}$ (TOTAL) (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.041	1.000	0.106	0.147
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.001	0.000	0.026	0.003	0.003
Collision with fixed object	0.679	0.028	0.847	0.090	0.117
Collision with other object	0.089	0.004	0.070	0.007	0.011
Other single-vehicle collision	0.051	0.002	0.007	0.001	0.003
Single-vehicle noncollision	0.179	0.007	0.049	0.005	0.012

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(1) (2) (3) (4) (5) (6)						
Crach Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub> f <sub>pedi</sub>		Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, o	(4)*(5)*(6)	
Total	2.112	0.147	2.259	0.022	1.00	0.050	
Fatal and injury (FI)				-	1.00	0.050	

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
	-		-					

Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections										
(1)			(2)			(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients					N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level		f	rom Table 12-	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		nom Equation 12 20	(1) Helli Welkerleet 211		(1) (0) (0)
Total			-		-				1.00	
Fatal and Injury (FI)									1.00	

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2) (3) (4) (5) (6)						
Crash Severity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Cambration factor, o	(4)*(5)*(6)	
Total	2.112	0.147	2.259	0.018	1.00	0.041	
atal and injury (FI)					1.00	0.041	

(1)	eet 2K Crash Severity Distribution for Urban a	(3)	(4)
(1)	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J	, ,	(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE		
Rear-end collisions (from Worksheet 2D)	0.305	0.452	0.757
Head-on collisions (from Worksheet 2D)	0.037	0.036	0.073
Angle collisions (from Worksheet 2D)	0.398	0.405	0.803
Sideswipe (from Worksheet 2D)	0.109	0.053	0.163
Other multiple-vehicle collision (from Worksheet 2D)	0.054	0.262	0.316
Subtotal	0.904	1.209	2.112
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.003	0.003
Collision with fixed object (from Worksheet 2F)	0.028	0.090	0.117
Collision with other object (from Worksheet 2F)	0.004	0.007	0.011
Other single-vehicle collision (from Worksheet 2F)	0.002	0.001	0.003
Single-vehicle noncollision (from Worksheet 2F)	0.007	0.005	0.012
Collision with pedestrian (from Worksheet 2G or 2I)	0.050	0.000	0.050
Collision with bicycle (from Worksheet 2J)	0.041	0.000	0.041
Subtotal	0.131	0.106	0.237
Total	1.035	1.314	2.349

Worksheet 2L Summary Results for Urban and Suburban Arterial Intersections					
(1)	(2)				
Crash severity level	Predicted average crash frequency, $N_{predicted\ int}$ (crashes/year)				
	(Total) from Worksheet 2K				
Total	2.3				
Fatal and injury (FI)	1.0				
Property damage only (PDO)	1.3				

Works	heet 2A General Information and Input	Data for Urban and Suburban A	rterial Intersections		
General Informa	tion		Location Information		
Analyst	RDW	Roadway	Boggy Creek Road BUILD		
Agency or Company	VHB	Intersection	Turnberry Blvd		
Date Performed	12/11/20	Jurisdiction	Osceola County, FL		
		Analysis Year	2045		
Input Data		Base Conditions	Site Conditions		
Intersection type (3ST, 3SG, 4ST, 4SG)	AADT		4SG		
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 67,700  (veh/day)$		38,500		
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 33,400$ (veh/day)		5,200		
Intersection lighting (present/not present)		Not Present	Present		
Calibration factor, C <sub>i</sub>		1.00	1.00		
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lan	es (0,1,2)	0			
Number of major-road approaches with right-turn la	nes (0,1,2)	0			
Data for signalized intersections only:			<del></del>		
Number of approaches with left-turn lanes (0,1,2,3,	i) [for 3SG, use maximum value of 3]	0	3		
Number of approaches with right-turn lanes (0,1,2,3	,4) [for 3SG, use maximum value of 3]	0	3		
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]		4		
Type of left-turn signal phasing for Leg #1		Permissive	Protected / Permissive		
Type of left-turn signal phasing for Leg #2			Protected		
Type of left-turn signal phasing for Leg #3			Protected		
Type of left-turn signal phasing for Leg #4 (if application)					
Number of approaches with right-turn-on-red prohib	ited [for 3SG, use maximum value of 3]	0	0		
Intersection red light cameras (present/not present)		Not Present	Not Present		
Sum of all pedestrian crossing volumes (PedVol) -	,	1	10		
Maximum number of lanes crossed by a pedestrian	( idilock)		5		
Number of bus stops within 300 m (1,000 ft) of the i		0	0		
Schools within 300 m (1,000 ft) of the intersection (		Not Present	Present		
Number of alcohol sales establishments within 300	in (1,000 it) of the intersection	U	U		

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)		
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF		
	Phasing	-	-		_			
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>		
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)		
0.73	0.87	0.88	1.00	0.91	1.00	0.51		

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	erity Level for Urbar	and Suburban Arterial I	ntersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	s	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	fr	rom Table 12-1	0	from Table 12-10	from Equation 12-		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С		21		( )TOTAL (-)	Worksheet 2B		(0) (.) (0)
Total	-10.99	1.07	0.23	0.39	9.733	1.000	9.733	0.51	1.00	4.958
Fatal and Injury (FI)	-13.14	1.18	0.22	0.33	3.325	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.354	3.445	0.51	1.00	1.755
Property Damage Only (PDO)	-11.02	1.02	0.24	0.44	6.069	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.646	6.288	0.51	1.00	3.203

	Worksheet 2D Multiple-	Vehicle Collisions by Collis	sion Type for Urban and Suburl	oan Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type(FI)	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	1.755	1.000	3.203	4.958
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.450	0.790	0.483	1.547	2.337
Head-on collision	0.049	0.086	0.030	0.096	0.182
Angle collision	0.347	0.609	0.244	0.782	1.390
Sideswipe	0.099	0.174	0.032	0.102	0.276
Other multiple-vehicle collision	0.055	0.097	0.211	0.676	0.772

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	12		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		(1)TOTAL (0)	Worksheet 2B		(0) (1) (0)
	a	В	C		24 or 12-27					
Total	-10.21	0.68	0.27	0.36	0.487	1.000	0.487	0.51	1.00	0.248
Fotol and Injuny (FI)	-9.25	0.43	0.29	0.09	0.108	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.107	0.51	1.00	0.055
Fatal and Injury (FI)	-9.25	0.43	0.29	0.09	0.106	0.220	0.107	0.51	1.00	0.055
Property Damage Only	11.21	0.70	0.05	0.44	0.204	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.270	0.54	1.00	0.402
(PDO)	-11.34	0.78	0.25	0.44	0.381	0.780	0.379	0.51	1.00	0.193

	Worksheet 2F Single-V	ehicle Collisions by Collis	ion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bisv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.055	1.000	0.193	0.248
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.002	0.000	0.002	0.000	0.000
Collision with fixed object	0.744	0.041	0.870	0.168	0.209
Collision with other object	0.072	0.004	0.070	0.014	0.017
Other single-vehicle collision	0.040	0.002	0.023	0.004	0.007
Single-vehicle noncollision	0.141	0.008	0.034	0.007	0.014

	Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Severity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Seventy Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, o	(4)*(5)*(6)	
Total					1.00	-	
Fatal and injury (FI)		-		-	1.00	1	

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.35	1.00	1.35					

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)			(2)			(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level	2	from Table 12-14			Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)	
Total	-9.53	0.40	0.26	0.45	0.04	0.24	0.011	1.35	1.00	0.014
Fatal and Injury (FI)							-		1.00	0.014

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections						
(1)	(2)	(2) (3) (4) (5) (6)				
Crach Soverity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Cambration factor, o	(4)*(5)*(6)
Total	4.958	0.248	5.205	0.015	1.00	0.078
Fatal and injury (FI)					1.00	0.078

Workshe	Worksheet 2K Crash Severity Distribution for Urban and Suburban Arterial Intersections						
(1)	(2)	(3)	(4)				
	Fatal and injury (FI)	Property damage only (PDO)	Total				
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;				
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J				
	MULTIPLE-VEHICLE	•	•				
Rear-end collisions (from Worksheet 2D)	0.790	1.547	2.337				
Head-on collisions (from Worksheet 2D)	0.086	0.096	0.182				
Angle collisions (from Worksheet 2D)	0.609	0.782	1.390				
Sideswipe (from Worksheet 2D)	0.174	0.102	0.276				
Other multiple-vehicle collision (from Worksheet 2D)	0.097	0.676	0.772				
Subtotal	1.755	3.203	4.958				
	SINGLE-VEHICLE						
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000				
Collision with animal (from Worksheet 2F)	0.000	0.000	0.000				
Collision with fixed object (from Worksheet 2F)	0.041	0.168	0.209				
Collision with other object (from Worksheet 2F)	0.004	0.014	0.017				
Other single-vehicle collision (from Worksheet 2F)	0.002	0.004	0.007				
Single-vehicle noncollision (from Worksheet 2F)	0.008	0.007	0.014				
Collision with pedestrian (from Worksheet 2G or 2I)	0.014	0.000	0.014				
Collision with bicycle (from Worksheet 2J)	0.078	0.000	0.078				
Subtotal	0.147	0.193	0.340				
otal	1.902	3.396	5.298				

Worksheet 2L Summary R	Worksheet 2L Summary Results for Urban and Suburban Arterial Intersections					
(1)	(2)					
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)					
	(Total) from Worksheet 2K					
Total	5.3					
Fatal and injury (FI)	1.9					
Property damage only (PDO)	3.4					

Works	heet 2A General Information and Input	Data for Urban and Suburban A	rterial Interse	ctions	
General Informa	tion		Location	on Information	
Analyst	RDW	Roadway		Boggy Creek Road BUILD	
Agency or Company	VHB	Intersection		N Pointe Blvd	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)	AADT - 45.700 ( 1/1 )			3ST	
AADT <sub>major</sub> (veh/day)	AADT <sub>MAX</sub> = 45,700 (veh/day)			37,800	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 9,300$ (veh/day)			3,400	
Intersection lighting (present/not present)	-	Not Present		Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn land	0		1		
Number of major-road approaches with right-turn la	nes (0,1,2)	0		1	
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,4	4) [for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3	s,4) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if application)					
Number of approaches with right-turn-on-red prohib		0			
Intersection red light cameras (present/not present)		Not Present			
Sum of all pedestrian crossing volumes (PedVol)					
Maximum number of lanes crossed by a pedestrian	( idilook)				
Number of bus stops within 300 m (1,000 ft) of the i		0			
Schools within 300 m (1,000 ft) of the intersection (		Not Present			
Number of alcohol sales establishments within 300	m (1,000 it) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing	-	-		-				
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.67	1.00	0.86	1.00	0.91	1.00	0.53			

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	erity Level for Urbar	and Suburban Arterial	ntersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	s	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	fı	rom Table 12-1	0	from Table 12-10 from Equation 12-		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)	
	а	b	С		21		( )TOTAL (-)	Worksheet 2B		
Total	-13.36	1.11	0.41	0.80	5.330	1.000	5.330	0.53	1.00	2.802
Fatal and Injury (FI)	-14.01	1.16	0.30	0.69	1.927	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.319	1.699	0.53	1.00	0.893
Property Damage Only (PDO)	-15.38	1.20	0.51	0.77	4.117	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.681	3.631	0.53	1.00	1.909

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.893	1.000	1.909	2.802
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.421	0.376	0.440	0.840	1.216
Head-on collision	0.045	0.040	0.023	0.044	0.084
Angle collision	0.343	0.306	0.262	0.500	0.807
Sideswipe	0.126	0.113	0.040	0.076	0.189
Other multiple-vehicle collision	0.065	0.058	0.235	0.449	0.507

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3) (4)		(5)	(6)	(7)	(8)	(9)
	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	12		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		(1)TOTAL (0)	Worksheet 2B		(0) (1) (0)
	ď	Б	Ü		24 or 12-27					
Total	-6.81	0.16	0.51	1.14	0.377	1.000	0.377	0.53	1.00	0.198
Fatal and Injury (FI)					0.117	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.109	0.53	1.00	0.057
ratai and injury (Fi)					0.117	0.290	0.109	0.53	1.00	0.057
Property Damage Only (PDO)	-8.36	0.25	0.55	1.29	0.286	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.710	0.267	0.53	1.00	0.141

	Worksheet 2F Single-V	ehicle Collisions by Collis	on Type for Urban and Suburba	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N <sub>bisv (PDO)</sub> (crashes/year)	Predicted N $_{bisv}$ (TOTAL) (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.057	1.000	0.141	0.198
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.003	0.000	0.000
Collision with animal	0.003	0.000	0.018	0.003	0.003
Collision with fixed object	0.762	0.044	0.834	0.117	0.161
Collision with other object	0.090	0.005	0.092	0.013	0.018
Other single-vehicle collision	0.039	0.002	0.023	0.003	0.005
Single-vehicle noncollision	0.105	0.006	0.030	0.004	0.010

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Crash Savarity Laval	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, o	(4)*(5)*(6)
Total	2.802	0.198	3.000	0.021	1.00	0.063
Fatal and injury (FI)					1.00	0.063

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
			<del></del>					

		Workshe	et 2I Vehicle	e-Pedestrian C	Collisions for	Urban and Suburba	an Arterial Signalized Into	ersections		
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level		f	rom Table 12-	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		nom Equation 12 20	(1) Helli Welkerleet 211		(1) (0) (0)
Total			-		-				1.00	
Fatal and Injury (FI)									1.00	

	Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections						
(1)	(2)	(2) (3) (4) (5) (6)					
Crach Soverity Lovel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Cambration factor, o	(4)*(5)*(6)	
Total	2.802	0.198	3.000	0.016	1.00	0.048	
Fatal and injury (FI)					1.00	0.048	

Workshe	eet 2K Crash Severity Distribution for Urban a	nd Suburban Arterial Intersections	
(1)	(2)	(3)	(4)
	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE	•	•
Rear-end collisions (from Worksheet 2D)	0.376	0.840	1.216
Head-on collisions (from Worksheet 2D)	0.040	0.044	0.084
Angle collisions (from Worksheet 2D)	0.306	0.500	0.807
Sideswipe (from Worksheet 2D)	0.113	0.076	0.189
Other multiple-vehicle collision (from Worksheet 2D)	0.058	0.449	0.507
Subtotal	0.893	1.909	2.802
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.003	0.003
Collision with fixed object (from Worksheet 2F)	0.044	0.117	0.161
Collision with other object (from Worksheet 2F)	0.005	0.013	0.018
Other single-vehicle collision (from Worksheet 2F)	0.002	0.003	0.005
Single-vehicle noncollision (from Worksheet 2F)	0.006	0.004	0.010
Collision with pedestrian (from Worksheet 2G or 2I)	0.063	0.000	0.063
Collision with bicycle (from Worksheet 2J)	0.048	0.000	0.048
Subtotal	0.168	0.141	0.309
Total	1.062	2.049	3.111

Worksheet 2L Summary R	esults for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, $N_{predicted\ int}$ (crashes/year)
	(Total) from Worksheet 2K
Total	3.1
Fatal and injury (FI)	1.1
Property damage only (PDO)	2.0

Works	heet 2A General Information and Input	t Data for Urban and Suburban A	arterial Interse	ections	
General Informa	tion	Location Information			
Analyst	RDW	Roadway		Boggy Creek Road BUILD	
Agency or Company	VHB	Intersection		Timber Lane	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)	L AADT			4ST	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 46,800  (veh/day)$			37,500	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 5,900$ (veh/day)			3,300	
Intersection lighting (present/not present)		Not Present		Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lan	0		2		
Number of major-road approaches with right-turn la	nes (0,1,2)	0		1	
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0			
Number of approaches with right-turn lanes (0,1,2,3	,4) [for 3SG, use maximum value of 3]	0			
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]				
Type of left-turn signal phasing for Leg #1		Permissive			
Type of left-turn signal phasing for Leg #2					
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if application	able)				
Number of approaches with right-turn-on-red prohib	<u> </u>	0			
Intersection red light cameras (present/not present)	Not Present				
Sum of all pedestrian crossing volumes (PedVol)	,				
Maximum number of lanes crossed by a pedestrian	( idinosi)	-			
Number of bus stops within 300 m (1,000 ft) of the i		0			
Schools within 300 m (1,000 ft) of the intersection (		Not Present			
Number of alcohol sales establishments within 300	m (1,000 ft) of the intersection	0			

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing	-	-		_				
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.53	1.00	0.86	1.00	0.91	0.97	0.40			

	Worksheet 2C Multiple-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections											
(1)	(2) (3) (4)		(2)		(2)		(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>		
	a fi	rom Table 12-1 b	0 c	from Table 12-10	from Equation 12- 21		(4) <sub>TOTAL</sub> *(5)	(7) from Worksheet 2B		(6)*(7)*(8)		
Total	-8.90	0.82	0.25	0.40	5.823	1.000	5.823	0.40	1.00	2.346		
Fatal and Injury (FI)	-11.13	0.93	0.28	0.48	2.543	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.426	2.478	0.40	1.00	0.998		
Property Damage Only (PDO)	-8.74	0.77	0.23	0.40	3.432	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.574	3.344	0.40	1.00	1.347		

	Worksheet 2D Multiple-	Vehicle Collisions by Collis	sion Type for Urban and Suburk	oan Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv (TOTAL)</sub> (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.998	1.000	1.347	2.346
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.338	0.337	0.374	0.504	0.841
Head-on collision	0.041	0.041	0.030	0.040	0.081
Angle collision	0.440	0.439	0.335	0.451	0.891
Sideswipe	0.121	0.121	0.044	0.059	0.180
Other multiple-vehicle collision	0.060	0.060	0.217	0.292	0.352

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	S	SPF Coefficients		Overdispersion Parameter, k	Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	12		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	from Table 12-12	(FI) from Eqn. 12-		( · / IOTAL ( • /	Worksheet 2B		(0) (1) (0)
	ų.		ŭ		24 or 12-27					
Total	-5.33	0.33	0.12	0.65	0.414	1.000	0.414	0.40	1.00	0.167
Fatal and Injury (FI)					0.116	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.117	0.40	1.00	0.047
ratai and injury (FI)					0.116	0.282	0.117	0.40	1.00	0.047
Property Damage Only	-7.04	0.36	0.25	0.54	0.294	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.297	0.40	1.00	0.120
(PDO)	-7.04	0.36	0.25	0.54	0.294	0.718	0.297	0.40	1.00	0.120

	Worksheet 2F Single-V	ehicle Collisions by Collis	ion Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N <sub>bisv (TOTAL)</sub> (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.047	1.000	0.120	0.167
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.000
Collision with animal	0.001	0.000	0.026	0.003	0.003
Collision with fixed object	0.679	0.032	0.847	0.101	0.133
Collision with other object	0.089	0.004	0.070	0.008	0.013
Other single-vehicle collision	0.051	0.002	0.007	0.001	0.003
Single-vehicle noncollision	0.179	0.008	0.049	0.006	0.014

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(1) (2) (3) (4) (5) (6)				(7)		
Crach Severity Level	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	$\mathbf{f}_{pedi}$	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, c	(4)*(5)*(6)	
Total	2.346	0.167	2.512	0.022	1.00	0.055	
Fatal and injury (FI)					1.00	0.055	

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
			<del></del>					

	Worksheet 2I Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections									
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level		f	rom Table 12-	14	Parameter, I	Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		nom Equation 12 20	(1) Helli Welkerleet 211		(1) (0) (0)
Total			-		-				1.00	
Fatal and Injury (FI)									1.00	

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(2) (3) (4) (5) (6)					
Crach Soverity Lovel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Cambration factor, o	(4)*(5)*(6)	
Total	2.346	0.167	2.512	0.018	1.00	0.045	
Fatal and injury (FI)					1.00	0.045	

(1)	(2)	(3)	(4)
. ,	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE	•	•
Rear-end collisions (from Worksheet 2D)	0.337	0.504	0.841
Head-on collisions (from Worksheet 2D)	0.041	0.040	0.081
Angle collisions (from Worksheet 2D)	0.439	0.451	0.891
Sideswipe (from Worksheet 2D)	0.121	0.059	0.180
Other multiple-vehicle collision (from Worksheet 2D)	0.060	0.292	0.352
Subtotal	0.998	1.347	2.346
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.003	0.003
Collision with fixed object (from Worksheet 2F)	0.032	0.101	0.133
Collision with other object (from Worksheet 2F)	0.004	0.008	0.013
Other single-vehicle collision (from Worksheet 2F)	0.002	0.001	0.003
Single-vehicle noncollision (from Worksheet 2F)	0.008	0.006	0.014
Collision with pedestrian (from Worksheet 2G or 2I)	0.055	0.000	0.055
Collision with bicycle (from Worksheet 2J)	0.045	0.000	0.045
Subtotal	0.148	0.120	0.267
Total	1.146	1.467	2.613

Worksheet 2L Summary R	esults for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, $N_{predicted\ int}$ (crashes/year)
	(Total) from Worksheet 2K
Total	2.6
Fatal and injury (FI)	1.1
Property damage only (PDO)	1.5

	heet 2A General Information and Input	Data for Urban and Suburban				
General Informa	tion	Location Information				
Analyst	RDW	Roadway	Boggy Creek Road BUILD			
Agency or Company	VHB	Intersection	Fells Cove Blvd			
Date Performed	12/11/20	Jurisdiction	Osceola County, FL			
		Analysis Year	2045			
Input Data		Base Conditions	Site Conditions			
Intersection type (3ST, 3SG, 4ST, 4SG)			3ST			
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 45,700  (veh/day)$		37,500			
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 9,300$ (veh/day)		1,900			
Intersection lighting (present/not present)		Not Present	Present			
Calibration factor, C <sub>i</sub>		1.00	1.00			
Data for unsignalized intersections only:						
Number of major-road approaches with left-turn land	es (0,1,2)	0	1			
Number of major-road approaches with right-turn la	nes (0,1,2)	0	1			
Data for signalized intersections only:						
Number of approaches with left-turn lanes (0,1,2,3,4	4) [for 3SG, use maximum value of 3]	0				
Number of approaches with right-turn lanes (0,1,2,3	,4) [for 3SG, use maximum value of 3]	0				
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]					
Type of left-turn signal phasing for Leg #1		Permissive				
Type of left-turn signal phasing for Leg #2						
Type of left-turn signal phasing for Leg #3						
Type of left-turn signal phasing for Leg #4 (if application)						
Number of approaches with right-turn-on-red prohib	ited [for 3SG, use maximum value of 3]	0				
Intersection red light cameras (present/not present)		Not Present				
Sum of all pedestrian crossing volumes (PedVol)						
Maximum number of lanes crossed by a pedestrian						
Number of bus stops within 300 m (1,000 ft) of the i		0				
Schools within 300 m (1,000 ft) of the intersection (		Not Present				
Number of alcohol sales establishments within 300	m (1,000 ft) of the intersection	0				

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing	-	-		_				
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.67	1.00	0.86	1.00	0.91	1.00	0.53			

		Worksheet	2C Multiple-	Vehicle Collisions by Seve	erity Level for Urbar	and Suburban Arterial I	ntersections			
(1)		(2) (3) (4)	(5)	(6)	(7)	(8)	(9)			
Crash Severity Level	s	PF Coefficien	ts	Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	fı	rom Table 12-1	0	from Table 12-10	from Equation 12-		(4) <sub>TOTAL</sub> *(5)	(7) from	1	(6)*(7)*(8)
	а	b	С		21		( )TOTAL (-)	Worksheet 2B		(0) (1) (0)
Total	-13.36	1.11	0.41	0.80	4.162	1.000	4.162	0.53	1.00	2.187
Fatal and Injury (FI)	-14.01	1.16	0.30	0.69	1.603	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.346	1.440	0.53	1.00	0.757
Property Damage Only (PDO)	-15.38	1.20	0.51	0.77	3.031	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.654	2.722	0.53	1.00	1.430

	Worksheet 2D Multiple-	Vehicle Collisions by Collis	sion Type for Urban and Suburl	oan Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv</sub> (TOTAL) (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	0.757	1.000	1.430	2.187
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.421	0.318	0.440	0.629	0.948
Head-on collision	0.045	0.034	0.023	0.033	0.067
Angle collision	0.343	0.259	0.262	0.375	0.634
Sideswipe	0.126	0.095	0.040	0.057	0.153
Other multiple-vehicle collision	0.065	0.049	0.235	0.336	0.385

	Worksheet 2E Single-Vehicle Collisions by Severity Level for Urban and Suburban Arterial Intersections									
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
	SPF Coefficients Overdispersion Parameter, k Initia		SPF Coefficients		Initial N <sub>bisv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	` ,	(FI) from Eqn. 12-		(1)TOTAL (0)	Worksheet 2B		(0) (1) (0)
	a	В	C		24 or 12-27					
Total	-6.81	0.16	0.51	1.14	0.280	1.000	0.280	0.53	1.00	0.147
Fatal and Injury (FI)					0.087	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.082	0.53	1.00	0.043
Fatal and Injury (FI)					0.007	0.295	0.002	0.53	1.00	0.043
Property Damage Only	-8.36	0.25	0.55	1.29	0.207	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.197	0.53	1.00	0.104
(PDO)	-0.30	0.25	0.55	1.29	0.207	0.705	0.197	0.55	1.00	0.104

	Worksheet 2F Single-V	ehicle Collisions by Collis	on Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N $_{bisv\ (TOTAL)}$ (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.043	1.000	0.104	0.147
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.003	0.000	0.000
Collision with animal	0.003	0.000	0.018	0.002	0.002
Collision with fixed object	0.762	0.033	0.834	0.086	0.119
Collision with other object	0.090	0.004	0.092	0.010	0.013
Other single-vehicle collision	0.039	0.002	0.023	0.002	0.004
Single-vehicle noncollision	0.105	0.005	0.030	0.003	0.008

Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crash Savarity Laval	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	$\mathbf{f}_{pedi}$	Calibration factor, C	Predicted N <sub>pedi</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, c	(4)*(5)*(6)	
Total	2.187	0.147	2.333	0.021	1.00	0.049	
Fatal and injury (FI)					1.00	0.049	

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	CMF <sub>2p</sub>	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
	-		-					

		Workshe	et 2I Vehicle	e-Pedestrian C	Collisions for	Urban and Suburba	an Arterial Signalized Into	ersections		
(1)		(2)			(3)	(4)	(5)	(6)	(7)	
Crash Severity Level		SPF Coefficients				Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Seventy Level		f	rom Table 12-	14		Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
	а	b	С	d	е		nom Equation 12 20	(1) Helli Welkerleet 211		(1) (0) (0)
Total			-		-				1.00	
Fatal and Injury (FI)									1.00	

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Crach Savarity Laval	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	Cambration factor, o	(4)*(5)*(6)	
Total	2.187	0.147	2.333	0.016	1.00	0.037	
atal and injury (FI)					1.00	0.037	

(1)	(2)	(3)	(4)
. ,	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE	•	•
Rear-end collisions (from Worksheet 2D)	0.318	0.629	0.948
Head-on collisions (from Worksheet 2D)	0.034	0.033	0.067
Angle collisions (from Worksheet 2D)	0.259	0.375	0.634
Sideswipe (from Worksheet 2D)	0.095	0.057	0.153
Other multiple-vehicle collision (from Worksheet 2D)	0.049	0.336	0.385
Subtotal	0.757	1.430	2.187
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.000
Collision with animal (from Worksheet 2F)	0.000	0.002	0.002
Collision with fixed object (from Worksheet 2F)	0.033	0.086	0.119
Collision with other object (from Worksheet 2F)	0.004	0.010	0.013
Other single-vehicle collision (from Worksheet 2F)	0.002	0.002	0.004
Single-vehicle noncollision (from Worksheet 2F)	0.005	0.003	0.008
Collision with pedestrian (from Worksheet 2G or 2I)	0.049	0.000	0.049
Collision with bicycle (from Worksheet 2J)	0.037	0.000	0.037
Subtotal	0.130	0.104	0.233
Total	0.886	1.534	2.420

Worksheet 2L Summary R	esults for Urban and Suburban Arterial Intersections
(1)	(2)
Crash severity level	Predicted average crash frequency, $N_{predicted\ int}$ (crashes/year)
	(Total) from Worksheet 2K
Total	2.4
Fatal and injury (FI)	0.9
Property damage only (PDO)	1.5

Works	heet 2A General Information and Input	: Data for Urban and Suburban A	rterial Intersec	tions	
General Informa	tion		Locatio	n Information	
Analyst	RDW	Roadway	Boggy Creek Road BUILD		
Agency or Company	VHB	Intersection		Narcoosee Road	
Date Performed	12/11/20	Jurisdiction		Osceola County, FL	
		Analysis Year		2045	
Input Data		Base Conditions		Site Conditions	
Intersection type (3ST, 3SG, 4ST, 4SG)	LAADT			3SG	
AADT <sub>major</sub> (veh/day)	$AADT_{MAX} = 58,100  (veh/day)$			57,800	
AADT <sub>minor</sub> (veh/day)	$AADT_{MAX} = 16,400$ (veh/day)			37,100	
Intersection lighting (present/not present)	-	Not Present		Present	
Calibration factor, C <sub>i</sub>		1.00		1.00	
Data for unsignalized intersections only:					
Number of major-road approaches with left-turn lan	es (0,1,2)	0		0	
Number of major-road approaches with right-turn la	0		0		
Data for signalized intersections only:					
Number of approaches with left-turn lanes (0,1,2,3,	4) [for 3SG, use maximum value of 3]	0	2		
Number of approaches with right-turn lanes (0,1,2,3	(4,4) [for 3SG, use maximum value of 3]	0	2		
Number of approaches with left-turn signal phasing	[for 3SG, use maximum value of 3]			3	
Type of left-turn signal phasing for Leg #1		Permissive	Protected		
Type of left-turn signal phasing for Leg #2			Protected		
Type of left-turn signal phasing for Leg #3					
Type of left-turn signal phasing for Leg #4 (if application)					
Number of approaches with right-turn-on-red prohib		0		0	
Intersection red light cameras (present/not present)		Not Present	Not Present		
Sum of all pedestrian crossing volumes (PedVol)	· ·		10		
Maximum number of lanes crossed by a pedestrian	( idilook)		8		
Number of bus stops within 300 m (1,000 ft) of the i		0	0		
Schools within 300 m (1,000 ft) of the intersection (		Not Present	Not Present		
Number of alcohol sales establishments within 300	m (1,000 π) of the intersection	0		2	

	Worksheet 2B Crash Modification Factors for Urban and Suburban Arterial Intersections								
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
CMF for Left-Turn Lanes	CMF for Left-Turn Signal	CMF for Right-Turn Lanes	CMF for Right Turn on Red	CMF for Lighting	CMF for Red Light Cameras	Combined CMF			
	Phasing	-	-		_				
CMF 1i	CMF 2i	CMF 3i	CMF 4i	CMF 5i	CMF 6i	CMF <sub>COMB</sub>			
from Table 12-24	from Table 12-25	from Table 12-26	from Equation 12-35	from Equation 12-36	from Equation 12-37	(1)*(2)*(3)*(4)*(5)*(6)			
0.86	0.87	0.92	1.00	0.91	1.00	0.63			

		Worksheet	2C Multiple	Vehicle Collisions by Seve	erity Level for Urbar	and Suburban Arterial	ntersections			
(1)		(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)
Crash Severity Level	s	PF Coefficien	ts	Overdispersion Parameter, k	Initial N <sub>bimv</sub>	Proportion of Total Crashes	Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bimv</sub>
	fı	rom Table 12-1	0	from Table 12-10	from Equation 12-		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	IIOIII TAble 12-10	21		(4)IOIAL (0)	Worksheet 2B		(0) (1) (0)
Total	-12.13	1.11	0.26	0.33	16.061	1.000	16.061	0.63	1.00	10.141
Fatal and Injury (FI)	-11.58	1.02	0.17	0.30	4.026	(4) <sub>FI</sub> /((4) <sub>FI</sub> +(4) <sub>PDO</sub> ) 0.264	4.246	0.63	1.00	2.681
Property Damage Only (PDO)	-13.24	1.14	0.30	0.36	11.203	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub> 0.736	11.816	0.63	1.00	7.461

(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N bimv (FI) (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bimv (PDO) (crashes/year)	Predicted N <sub>bimv</sub> (TOTAL) (crashes/year)
	from Table 12-11	(9)FI from Worksheet 2C	from Table 12-11	(9)PDO from Worksheet 2C	(9)PDO from Worksheet 2C
Total	1.000	2.681	1.000	7.461	10.141
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Rear-end collision	0.549	1.472	0.546	4.073	5.545
Head-on collision	0.038	0.102	0.020	0.149	0.251
Angle collision	0.280	0.751	0.204	1.522	2.273
Sideswipe	0.076	0.204	0.032	0.239	0.442
Other multiple-vehicle collision	0.057	0.153	0.198	1.477	1.630

		Worksheet	: 2E Single-\	/ehicle Collisions by Seve	erity Level for Urban	and Suburban Arterial I	ntersections			
(1)		(2)		(3) (4)		(5)	(6)	(7)	(8)	(9)
	S	PF Coefficien	ts	Overdispersion Parameter, k			Adjusted N <sub>bimv</sub>	Combined CMFs	Calibration Factor, C <sub>i</sub>	Predicted N <sub>bisv</sub>
Crash Severity Level	f	rom Table 12-1	2		from Eqn. 12-24;		(4) <sub>TOTAL</sub> *(5)	(7) from		(6)*(7)*(8)
	а	b	С	from Table 12-12 (FI) from Ed			(1)TOTAL (0)	Worksheet 2B		(0) (1) (0)
	u	Б	ŭ		24 or 12-27					
Total	-9.02	0.42	0.40	0.36	0.814	1.000	0.814	0.63	1.00	0.514
Fatal and Injury (FI)	-9.75	0.27	27 0.51	0.24	0.241	$(4)_{FI}/((4)_{FI}+(4)_{PDO})$	0.261	0.63	1.00	0.165
ratai and injury (Fi)	-9.75	0.27	0.51	0.24	0.241	0.321	0.201	0.63	1.00	0.105
Property Damage Only	-9.08	0.45	0.33	0.53	0.510	(5) <sub>TOTAL</sub> -(5) <sub>FI</sub>	0.553	0.63	1.00	0.349
(PDO)	-9.00	0.43	0.33	0.55	0.510	0.679	0.555	0.03	1.00	0.349

	Worksheet 2F Single-V	ehicle Collisions by Collis	on Type for Urban and Suburb	an Arterial Intersections	
(1)	(2)	(3)	(4)	(5)	(6)
Collision Type	Proportion of Collision Type <sub>(FI)</sub>	Predicted N <sub>bisv (FI)</sub> (crashes/year)	Proportion of Collision Type (PDO)	Predicted N bisv (PDO) (crashes/year)	Predicted N $_{bisv\ (TOTAL)}$ (crashes/year)
	from Table 12-13	(9)FI from Worksheet 2E	from Table 12-13	(9)PDO from Worksheet 2E	(9)PDO from Worksheet 2E
Total	1.000	0.165	1.000	0.349	0.514
		(2)*(3) <sub>FI</sub>		(4)*(5) <sub>PDO</sub>	(3)+(5)
Collision with parked vehicle	0.001	0.000	0.001	0.000	0.001
Collision with animal	0.001	0.000	0.003	0.001	0.001
Collision with fixed object	0.653	0.108	0.895	0.312	0.420
Collision with other object	0.091	0.015	0.069	0.024	0.039
Other single-vehicle collision	0.045	0.007	0.018	0.006	0.014
Single-vehicle noncollision	0.209	0.034	0.014	0.005	0.039

	Worksheet 2G Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Stop-Controlled Intersections							
(1)	(2)	(2) (3)		(5)	(6)	(7)		
Crach Soverity Lovel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>pedi</sub>	Calibration factor, C	Predicted N <sub>pedi</sub>		
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-16	Cambration factor, o	(4)*(5)*(6)		
Total					1.00			
Fatal and injury (FI)					1.00			

Worksheet 2H Crash M	Worksheet 2H Crash Modification Factors for Vehicle-Pedestrian Collisions for Urban and Suburban Arterial Signalized Intersections							
(1)	(2)	(3)	(4)					
CMF for Bus Stops	CMF for Schools	CMF for Alcohol Sales Establishments	Combined CMF					
CMF <sub>1p</sub>	$CMF_{2p}$	CMF <sub>3p</sub>	Combined Civir					
from Table 12-28	from Table 12-29	from Table 12-30	(1)*(2)*(3)					
1.00	1.00	1.12	1.12					

		Workshe	et 2I Vehicle	e-Pedestrian C	Collisions for	Urban and Suburba	an Arterial Signalized Inte	ersections		
(1)		(2)				(3)	(4)	(5)	(6)	(7)
Creab Severity Level	SPF Coefficients					Overdispersion	N <sub>pedbase</sub>	Combined CMF	Calibration	Predicted N <sub>pedi</sub>
Crash Severity Level	а	fi b	rom Table 12-1 c	14 d	е	Parameter, k	from Equation 12-29	(4) from Worksheet 2H	factor, C <sub>i</sub>	(4)*(5)*(6)
Total	-6.60	0.05	0.24	0.41	0.09	0.52	0.011	1.12	1.00	0.013
Fatal and Injury (FI)									1.00	0.013

Worksheet 2J Vehicle-Bicycle Collisions for Urban and Suburban Arterial Intersections							
(1)	(2)	(3)	(3) (4)		(6)	(7)	
Crach Soverity Loyel	Predicted N <sub>bimv</sub>	Predicted N <sub>bisv</sub>	Predicted N <sub>bi</sub>	f <sub>bikei</sub>	Calibration factor, C	Predicted N <sub>bikei</sub>	
Crash Severity Level	(9) from Worksheet 2C	(9) from Worksheet 2E	(2) + (3)	from Table 12-17	oanbration factor, o	(4)*(5)*(6)	
Total	10.141	0.514	10.655	0.011	1.00	0.117	
atal and injury (FI)					1.00	0.117	

(1)	(2)	(3)	(4)
. ,	Fatal and injury (FI)	Property damage only (PDO)	Total
Collision type	(3) from Worksheet 2D and 2F;	(5) from Worksheet 2D and 2F	(6) from Worksheet 2D and 2F;
	(7) from 2G or 2I and 2J		(7) from 2G or 2I and 2J
	MULTIPLE-VEHICLE	•	•
Rear-end collisions (from Worksheet 2D)	1.472	4.073	5.545
Head-on collisions (from Worksheet 2D)	0.102	0.149	0.251
Angle collisions (from Worksheet 2D)	0.751	1.522	2.273
Sideswipe (from Worksheet 2D)	0.204	0.239	0.442
Other multiple-vehicle collision (from Worksheet 2D)	0.153	1.477	1.630
Subtotal	2.681	7.461	10.141
	SINGLE-VEHICLE		
Collision with parked vehicle (from Worksheet 2F)	0.000	0.000	0.001
Collision with animal (from Worksheet 2F)	0.000	0.001	0.001
Collision with fixed object (from Worksheet 2F)	0.108	0.312	0.420
Collision with other object (from Worksheet 2F)	0.015	0.024	0.039
Other single-vehicle collision (from Worksheet 2F)	0.007	0.006	0.014
Single-vehicle noncollision (from Worksheet 2F)	0.034	0.005	0.039
Collision with pedestrian (from Worksheet 2G or 2I)	0.013	0.000	0.013
Collision with bicycle (from Worksheet 2J)	0.117	0.000	0.117
Subtotal	0.295	0.349	0.644
Total	2.976	7.809	10.785

Worksheet 2L Summary R	esults for Urban and Suburban Arterial Intersections			
(1)	(2)			
Crash severity level	Predicted average crash frequency, N <sub>predicted int</sub> (crashes/year)			
	(Total) from Worksheet 2K			
Total	10.8			
Fatal and injury (FI)	3.0			
Property damage only (PDO)	7.8			

## **Appendix M**

# Noise Analysis Traffic Data

#### TRAFFIC DATA FOR NOISE STUDIES - SUMMARY OUTPUT Osceola County

Federal Aid Number(s):  FPID Number(s):		0	_	
State/Federal Route No.:			-	
Road Name:		Creek Road	<del>-</del>	
Project Description:	Boggy Creek Road Wide	ening- Project Traffic Report	_	
Segment Description:	Boggy Creek Road from S. of S	Simpson Road to Narcoossee Road	_	
Section Number:		0	_	
Mile Post To/From:		0	- -	
Existing Facility:		D =	58.90% %	
,		T24 =	<b>7.50%</b> % of 24 Hour Volume	
Year:	2019	Tpeak =	4.00% % of Design Hour Volume	
		MT =	2.04% % of Design Hour Volume	
LOS C Peak Hour Directional Volur	ne: 830	HT =	1.57% % of Design Hour Volume	
Demand Peak Hour Volume:	1043	B =	0.38% % of Design Hour Volume	
Posted Speed:	45	MC =	0.39% % of Design Hour Volume	
No Build Alternative (Design Year)		D =	58.90% %	
No bullu Alternative (Design Tear)	·	T24 =	7.50% % of 24 Hour Volume	
Year:	2045	Tpeak =	4.00% % of Design Hour Volume	
real.	2043	MT =	2.04% % of Design Hour Volume	
LOS C Peak Hour Directional Volun	ne: 830	HT =	1.57% % of Design Hour Volume	
Demand Peak Hour Volume:	1637	п - В =	0.38% % of Design Hour Volume	
Posted Speed:	45	MC =	<b>0.39%</b> % of Design Hour Volume	
Build Alternative (Design Year):		D =	<b>58.90%</b> %	
	<u> </u>	T24 =	<b>7.50%</b> % of 24 Hour Volume	
Year:	2045	Tpeak =	4.00% % of Design Hour Volume	
		MT =	2.04% % of Design Hour Volume	
LOS C Peak Hour Directional Volur	me: 2005	HT =	1.57% % of Design Hour Volume	
Demand Peak Hour Volume:	2097	B =	0.38% % of Design Hour Volume	
Posted Speed:	45	MC =	0.39% % of Design Hour Volume	
I certify that the above informat	ion is accurate and appropria	ate for use with the traffic noise a	analysis.	
Prepared By: Srinivas Kan	dala		Date: 12/28/2020	
	Print Name	Signature		
I have reviewed and concur that	the above information is app	propriate for use with the traffic r	noise analysis.	
FDOT Reviewer:			Date:	
	Print Name	Signature		

## Appendix N

# Air Quality Analysis Traffic Data

Date: 12/16/2020

#### TRAFFIC DATA FOR AIR QUALITY ANALYSIS

Prepared by: VHB, Inc

Effective: June 14, 2017

Financial Management Number(s):
Federal Aid Number(s):
Project Description: <u>Boggy Creek Road Widening - Project Traffic Analysis Report</u>
<b>NOTE:</b> Traffic data should be provided for the intersection that is forecast to have the highest total approach traffic volume. Notably, the intersection may not be the same for the Build and No-Build alternatives. The number of lanes should be the number of intersection approach through lanes. The traffic volumes should be representative of vehicles per hour (vph) and vehicle speeds should be representative of posted speeds if intersection cruise approach speeds are unknown. This traffic data sheet was prepared to assist in obtaining appropriate traffic data for the FDOT CO Florida 2004 Intersection Screening Model. Notably, additional traffic data is required for diamond interchanges (see User's Guide).
Opening Year: 2025
Land Use: Urban X, Suburban, or Rural

Build/No Build	Boggy Creek Rd - EB			Boggy Creek Rd - WB			E. Lake Pointe Dr - NB			SB		
	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed
Build	2	809	45	2	1,110	45	1	67	30	-	-	-
No Build	1	705	45	1	976	45	1	67	30	-	-	-

\_\_\_\_\_\_

Design Year: 2045

Build/No Build	Boggy Creek Rd - EB			Boggy Creek Rd - WB			E. Lake Pointe Dr - NB			SB		
	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed	No. of Lanes	VPH	Speed
Build	2	1,530	45	2	2,048	45	1	107	30	-	-	-
No Build	1	1,081	45	1	1,465	45	1	107	30	-	1	-

Figure 16-4 Example Traffic Data Input Sheet

Air Quality 16-17