



# TRAFFIC IMPACT STUDY

## PROPOSED 7-ELEVEN CONVENIENCE MARKET

Proposed 7-Eleven  
Convenience Market  
73 Cedar Swamp Road  
City of Glen Cove,  
Nassau County, New York

Prepared For:  
7-Eleven, Inc.

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## INTRODUCTION

This Traffic Impact Study has been prepared to investigate the potential impacts of the proposed 7-Eleven convenience market on the adjacent roadway network. The subject property is located at the northeast quadrant of the intersection of Cedar Swamp Road and 4<sup>th</sup> Street in the City of Glen Cove, Nassau County, New York. The site location is shown on appended **Figure I**.

The subject property is designated as District 100, Section 22, Block 20, Lots 6 and 7. The site has approximately 100 feet of frontage along Cedar Swamp Road and approximately 115 feet of frontage along 4<sup>th</sup> Street. The existing site contains an automobile service station. The existing access is provided via one (1) full-movement driveway on Cedar Swamp Road and two (2) full movement driveways on 4<sup>th</sup> Street. Under the proposed development program, a 2,500-square-foot 7-Eleven convenience market would be constructed. Access is proposed via one (1) left-in/right-in/right-out driveway on Cedar Swamp Road and one (1) right-in/right-out driveway on 4<sup>th</sup> Street.

## METHODOLOGY

Stonefield Engineering & Design, LLC ("Stonefield") prepared this Traffic Impact Study in accordance with the recommended guidelines and practices outlined by the Institute of Transportation Engineers (ITE) within Transportation Impact Analyses for Site Development. A detailed field investigation was performed to assess the existing conditions of the adjacent roadway network. A data collection effort was completed to identify the existing traffic volumes at the study intersections to serve as a base for the traffic analyses. Capacity analysis, a procedure used to estimate the traffic-carrying ability of roadway facilities over a range of defined operating conditions, was performed using the Highway Capacity Manual, 6<sup>th</sup> Edition (HCM) and Synchro 10 Software for all study conditions to assess the roadway operations.

For an unsignalized intersection, Level of Service (LOS) A indicates operations with delay of less than 10 seconds per vehicle, while LOS F describes operations with delay in excess of 50 seconds per vehicle. For a signalized intersection, LOS A indicates operations with delay of less than 10 seconds per vehicle, while LOS F describes operations with delay in excess of 80 seconds per vehicle. The Technical Appendix contains the Highway Capacity Analysis Detail Sheets for the study intersections analyzed in this assessment. The traffic signal timing utilized within the signalized analysis is based on timing directives and as-built plans provided by Nassau County Department of Public Works (NCDPW).

## **NCDPW 239-F APPROVAL**

Given the jurisdiction of Cedar Swamp Road as a Nassau County roadway, the allowable turning movements at the proposed Cedar Swamp Road driveway were reviewed by the NCDPW. It was determined that left-turn egress at the subject driveway would not be acceptable and that left-turn ingress would be acceptable if the median along the roadway was adequately modified. Additionally, both right-turn ingress and egress movements were determined to be acceptable. On May 28, 2019, a 239-f approval was granted for the proposed modifications to the median on Cedar Swamp Road presented in the Site Plan prepared by Stonefield Engineering & Design, LLC., dated January 29, 2020. Therefore, the 7-Eleven site development plan and associated traffic analysis are based on a left-in/right-in/right-out driveway configuration on Cedar Swamp Road.

## **2019 EXISTING CONDITION**

### **EXISTING ROADWAY CONDITIONS**

The proposed 7-Eleven convenience market is located at the northeast quadrant of the intersection of Cedar Swamp Road and 4<sup>th</sup> Street in the City of Glen Cove, Nassau County, New York. The subject property is designated as District 100, Section 22, Block 20, Lots 6 and 7. The site has approximately 100 feet of frontage along Cedar Swamp Road and approximately 115 feet of frontage along 4<sup>th</sup> Street. Land uses in the area are a mix of commercial and residential.

Cedar Swamp Road is classified as an urban minor arterial with a general north-south orientation and is under the jurisdiction of the NCDPW. The posted speed limit is 30 mph. Along the site frontage, the roadway provides two (2) lanes in each direction; to the north, there is an intermittent raised median dividing the northbound and southbound traffic flows. Sidewalks and curbs are provided along both sides of the roadway and a full-width shoulder is provided along the easterly side of the roadway. On-street parking is not permitted along the site frontage. Cedar Swamp Road provides access to New York State Route 107 to the south and the center of Glen Cove to the north.

4<sup>th</sup> Street is classified as an urban major collector with a general east-west orientation and is under the jurisdiction of the City of Glen Cove. The posted speed limit is 30 mph. The roadway generally provides one (1) lane in each direction. Curbs are provided along both sides of the roadway and sidewalk is provided on the north side of the roadway. On-street parking is not permitted along the site frontage. 4<sup>th</sup> Street begins at Cedar Swamp Road and provides access to Piping Rock Road and the Village of Old Brookville to the east. 4<sup>th</sup> Street is designated as Frost Pond Road in the Village of Old Brookville.

Cedar Swamp Road intersects 4<sup>th</sup> Street to form a three (3) legged T-intersection controlled by a two (2)-phase traffic signal, operating on a 70-second cycle during the peak hours. The northbound approach of Cedar

Swamp Road provides two (2) exclusive through lanes and one (1) exclusive right-turn lane. The southbound approach of Cedar Swamp Road provides one (1) exclusive left-turn lane and two (2) exclusive through lanes. The westbound approach of 4<sup>th</sup> Street provides one (1) exclusive left-turn lane and one (1) exclusive right-turn lane. Right turns on red are permitted at this intersection. A crosswalk and pedestrian signals are provided across the northerly leg of the intersection.

### EXISTING TRAFFIC VOLUMES

Manual turning movement counts were collected during the typical weekday morning and weekday evening time periods to evaluate existing traffic conditions and identify the specific hours when traffic activity on the adjacent roadways is at a maximum and could be potentially impacted by the development of the site. Specifically, turning movement counts were collected at the intersection of Cedar Swamp Road and 4<sup>th</sup> Street on Thursday, December 12, 2019, from 7:00 a.m. to 9:00 a.m. and from 3:30 p.m. to 6:30 p.m. Additionally, detailed vehicle queue counts on the westbound 4<sup>th</sup> Street approach to Cedar Swamp Road were observed every signal cycle during the study peak hours.

The traffic volume data was collected and analyzed to identify the design peak hour in accordance with HCM and ITE guidelines. The study time periods were chosen as they are representative of the peak periods of both the adjacent roadway network and the proposed 7-Eleven convenience market. Based on the review of the count data, the weekday morning peak hour occurred from 7:45 a.m. to 8:45 a.m. and the weekday evening peak hour occurred from 4:00 p.m. to 5:00 p.m. The 2019 Existing weekday morning and evening peak hour volumes are summarized on appended **Figure 2**.

### EXISTING LOS/CAPACITY ANALYSIS

A Level of Service and Volume/Capacity analysis was conducted for the 2019 Existing Condition for the weekday morning and weekday evening peak hours at the study intersection. The signalized intersection of Cedar Swamp Road and 4<sup>th</sup> Street is calculated to operate at overall Level of Service B during both the weekday morning and weekday evening peak hours. Please note that the drone footage collected on December 12, 2019 during the study peak periods was reviewed in order to verify the results of the Synchro Model of the existing traffic patterns at the study intersection. As such, the northbound and southbound Cedar Swamp Road approaches and the westbound 4<sup>th</sup> Street approach were calibrated accordingly to accurately portray the observed queue lengths during the weekday morning and weekday evening peak hours. Please note that the queues at each approach were observed to clear each cycle.

**EXISTING VEHICULAR GAP ANALYSIS**

In addition to the manual turning movement counts, Stonefield conducted an analysis of the total vehicular capacity of the left-turn ingress movements in terms of available gaps in traffic along Cedar Swamp Road. Vehicular gaps in northbound traffic along Cedar Swamp Road were recorded during the weekday morning and weekday evening peak periods to evaluate the existing vehicular headway conditions along the subject roadway. Vehicular gaps were recorded coincidentally with the supplemental manual turning movement counts.

The data was analyzed using minimum gap acceptance rates as specified within Highway Capacity Manual 2010 (HCM). An available gap, or critical headway, represents the minimum time interval between oncoming vehicles that a motorist will accept in order to execute a turning movement. Note that because of the limited number of vehicles expected to queue while waiting for a gap, Stonefield assumed that a maximum of two (2) vehicles could perform a left-turn ingress movement during any single gap. However, several gaps of a duration that would otherwise allow for more than two (2) vehicles to complete left turns were observed.

The total number and duration of the existing gaps in traffic on Cedar Swamp Road were evaluated in terms of the minimum gap acceptance and follow-up times. The existing gaps were summarized over the course of the weekday morning and evening peak hours, as provided in **Table I**.

**TABLE I – CEDAR SWAMP ROAD – TOTAL CAPACITY**

<b>Movement</b>	<b>Peak Hour</b>	<b>Total Vehicular Capacity (HCM Base Critical Gap)</b>
Cedar Swamp Road Left-Turn Ingress (Main Line, 2 lanes)	AM Peak Hour (7:45 a.m. to 8:45 a.m.)	295 (4.1 sec)
	PM Peak Hour (4:00 p.m. to 5:00 p.m.)	332 (4.1 sec)

**ACCIDENT ANALYSIS**

In order to assess the safety of the subject intersection and the surrounding corridor, the four (4) most recent years of available motor vehicle collision data were obtained from the New York State Department of Transportation (NYSDOT). The study time spans from January 2016 to December 2019. It is important to note that zero (0) fatalities occurred as a result of the reported motor vehicle collisions in the study network. **Table 2** provides a summary of the manner and severity of the motor vehicle collisions reported at the intersections of Cedar Swamp Road and Fourth Street, Cedar Swamp Road and Sea Cliff Avenue, Cedar Swamp Road and Carney Street, Fourth Street and Gabriel Place, and the connecting corridors.

**TABLE 2 – MOTOR VEHICLE COLLISION DATA SUMMARY**

<b>Intersection</b>	<b>Collision Type</b>	<b>Number of Collisions</b>	<b>Collisions Resulting in Injury</b>	<b>Collisions Resulting in Fatalities</b>
Cedar Swamp Road & Fourth Street	Rear End	3	1	0
	Left Turn (With Other Car)	1	1	0
	Right Angle	1	1	0
	Left Turn (Against Other Car)	1	0	0
	<b>Total</b>	<b>6</b>	<b>3</b>	<b>0</b>
Cedar Swamp Road & Sea Cliff Avenue	Collision with Pedestrian	4	4	0
	Overtaking	3	0	0
	Left Turn (Against Other Car)	2	1	0
	Right Angle	2	2	0
	Rear End	2	1	0
	Left Turn (With Other Car)	1	0	0
	Right Turn	1	0	0
	<b>Total</b>	<b>15</b>	<b>8</b>	<b>0</b>
Cedar Swamp Road & Carney Street	Left Turn (Against Other Car)	3	3	0
	Collision with Fixed Object	1	1	0
	Overtaking	1	1	0
	Rear End	1	1	0
	<b>Total</b>	<b>6</b>	<b>5</b>	<b>0</b>
Fourth Street & Gabriel Place	Right Angle	1	1	0
	Collision with Fixed Object	1	0	0
	Collision with Parked Car	1	0	0
	<b>Total</b>	<b>3</b>	<b>1</b>	<b>0</b>
Cedar Swamp Road between Fourth Street and Sea Cliff Avenue	Overtaking	1	0	0
	Collision with Parked Car	1	0	0
	Collision with Fixed Object	1	0	0
	<b>Total</b>	<b>3</b>	<b>0</b>	<b>0</b>
Cedar Swamp Road between Fourth Street and Carney Street	Overtaking	2	0	0
	Collision with Curbing	1	1	0
	<b>Total</b>	<b>3</b>	<b>1</b>	<b>0</b>
<b>Network Total</b>		<b>36</b>	<b>18</b>	<b>0</b>

As shown in **Table 2**, a total of 36 collisions were reported at the study intersections and corridors over the 48-month period; this equates to less than one (1) collision every month. It should be noted that the accident rate of the study intersection of Cedar Swamp Road and Fourth Street was calculated using NYSDOT annual average daily traffic counts to be 0.184 accidents per million entering vehicles. This rate is lower than



the state average, as reported by NYSDOT, of 0.32 accidents per million entering vehicles for urban three (3)-legged signalized intersections with one (1) to four (4) lanes.

## **2022 NO-BUILD CONDITION**

### **BACKGROUND GROWTH**

Please note that manual turning movement counts were previously collected at the intersection of Cedar Swamp Road and 4<sup>th</sup> Street on Tuesday, March 24, 2015 from 7:00 a.m. to 9:00 a.m. and from 4:00 p.m. to 7:00 p.m. From 2015 to 2019, traffic volumes through the intersection have been generally consistent, with an annual growth rate of 0.2% calculated. Therefore, the applied 2.0% growth rate is a conservative value, as recent historic traffic volumes for the adjacent roadway network exhibit minimal growth. The 2015 Existing weekday morning and evening peak hour volumes are summarized on appended **Figure 3**.

The 2019 traffic volume data was grown to a future horizon year of 2022, when the proposed 7-Eleven convenience market is expected to be fully constructed. In accordance with industry guidelines, the existing traffic volumes at the study intersections were increased by 2.0% for three (3) years to generate the 2022 Base Traffic Volumes. The background growth information was obtained from the NYSDOT Highway Data Services Bureau and the rate applied is a conservative value since recent historic traffic volumes for the proximate roadways do not exhibit growth. These volumes are summarized on appended **Figure 4**.

### **OTHER PLANNED DEVELOPMENT PROJECTS**

To evaluate the future traffic conditions, it is important to consider the potential site-generated traffic of site-specific projects that could further influence the traffic volume at the study intersections. Other planned development projects include those that are in the entitlement process or have recently been approved for building permits in proximity to the proposed development. Based on consultations with the City of Glen Cove's Planning Commission and Zoning Board, the following developments are anticipated to impact traffic volumes within the study area:

- Village Square Plaza – 146-unit apartment building, 15,600-square-foot retail space located at the intersection of Glen Street and Bridge Street, 1.1-miles northwest of the study site
- Villas at Glen Cove – 176-unit residential development located on Glen Cove Avenue, 1.2-miles west of the study site
- Breton Hills – 86-unit residential development located on Hill Street, 1.6-miles northwest of the study site
- Garvies Point Mixed-Use Waterfront Development – 250-suite luxury hotel, 50,000-square-foot office building, 25,000-square-foot retail space, and 860-dwelling condominium with outdoor

recreation amenities is located on the Herb Hill Road and the waterfront area, 1.5-miles northwest of the study site

Stonefield has reviewed the available associated traffic reports to determine the trip generation volumes. For the developments that a traffic study has not been provided, trip generation volumes have been generated utilizing the Institute of Transportation Engineers (ITE) Trip Generation Manual, 10<sup>th</sup> Edition. **Table 3** shows the trip generation volumes associated with the planned projects.

**TABLE 3 – OTHER PLANNED PROJECTS TRIP GENERATION VOLUMES**

Land Use	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
	Enter	Exit	Total	Enter	Exit	Total
<b>Village Square</b> <i>ITE Land Use 231 "Mid-Rise Residential with 1st-Floor Commercial"</i>	17	45	62	50	22	72
<b>Villas at Glen Cove</b> <i>ITE Land Use 221 "Multifamily Housing (Mid-Rise)"</i>	15	45	60	46	30	76
<b>Breton Hills</b> (Values from traffic report submitted to the city)	8	38	46	44	24	68
<b>Garvies Point</b> (Values from traffic report submitted to the city - trip volumes after transit credits)	266	339	605	455	409	864
<b>TOTAL</b>	<b>306</b>	<b>467</b>	<b>773</b>	<b>595</b>	<b>485</b>	<b>1080</b>

Based on the locations of these projects, and the study scope of the associated traffic reports, Stonefield has determined that only a small percentage of these trips would travel on Cedar Swamp Road. For a conservative analysis, a portion of these trips have been routed passed the subject site. The appended **Figure 5** illustrates the project-generated traffic associated with the approved developments assigned to the study network.

#### 2022 NO-BUILD TRAFFIC VOLUMES

The site-generated trips associated with the approved developments were added to the 2022 Base Traffic Volumes to calculate the 2022 No-Build Traffic Volumes for the weekday morning peak hour and the weekday evening peak hour. These volumes are summarized on appended **Figure 6**.

#### 2022 NO-BUILD LOS/CAPACITY ANALYSIS

A Level of Service and Volume/Capacity analysis was also conducted for the 2022 No-Build Condition for the weekday morning and weekday evening peak hours at the study intersection. Under the 2022 No-Build Conditions, the signalized intersection of Cedar Swamp Road and 4<sup>th</sup> Street is calculated to operate generally

consistently with the findings of the 2019 Existing Condition during the weekday morning and weekday evening peak hours. During the weekday morning and weekday evening periods, the southbound movements at the intersection were degraded to Level of Service B but does not exceed the letter-to-letter thresholds by more than one (1) second.

#### NO-BUILD VEHICULAR GAP ANALYSIS

As traffic would be added to northbound Cedar Swamp Road due to the projected growth in traffic and nearby planned developments, the total number of available gaps in traffic would be expected to decrease. Therefore, the existing gaps in traffic were decreased proportionately to the growth in volumes from the 2019 Existing Condition to the 2022 No-Build Condition. The expected gaps over the course of the 2022 No-Build Condition weekday morning and evening peak hours are provided in **Table 4**.

**TABLE 4 – CEDAR SWAMP ROAD INGRESS – PROJECTED CAPACITY**

<b>Movement</b>	<b>Peak Hour</b>	<b>Total Projected Vehicular Capacity (HCM Base Critical Gap)</b>
Cedar Swamp Road Left-turn Ingress (Main Line, 2 lanes)	AM Peak Hour (7:45 a.m. to 8:45 a.m.)	260 (4.1 sec)
	PM Peak Hour (4:00 p.m. to 5:00 p.m.)	291 (4.1 sec)

#### **2022 BUILD CONDITION**

The site-generated traffic volume of the proposed 7-Eleven development was estimated to identify the potential impacts of the project. For the purpose of this analysis, a complete project “build out” is assumed by 2022.

**TRIP GENERATION**

Trip generation projections for the proposed 7-Eleven convenience store were prepared utilizing the Institute of Transportation Engineers (ITE) Trip Generation Manual, 10<sup>th</sup> Edition. The appropriate Land Use 851 “Convenience Market (Open 24 hours)” for the 2,500-square-foot convenience market was used for analysis purposes. **Table 5** provides the peak hour trip generation volumes associated with the proposed development.

**TABLE 5 – PROJECTED TRIP GENERATION**

Land Use	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
	Enter	Exit	Total	Enter	Exit	Total
2,500 SF Convenience Market <i>Land Use 851</i>	78	78	156	63	60	123

As stated within Chapter 5 of ITE’s Trip Generation Handbook, 3<sup>rd</sup> Edition, there are instances when the total number of trips generated by a site is different from the amount of new traffic added to the street system by the generator. Convenience markets are specifically located on or adjacent to busy streets to attract motorists already on the roadway. Therefore, the proposed site would be expected to attract a portion of its trips from the traffic passing the site on the way from an origin to an ultimate destination. These trips do not add new traffic to the adjacent roadway system and are referred to as pass-by trips.

Based upon the published ITE data for Land Use 851 “Convenience Market,” approximately 51% of site generated traffic during the weekday evening peak hour is expected to be comprised of pass-by traffic. ITE does not publish pass-by data for Land Use 851 “Convenience Market” during morning peak hour; however, it is expected that a portion of the morning peak hour trips generated by the proposed convenience store would be comprised of pass-by trips. Therefore, the pass-by rates for similar Land Use 853 “Convenience Market with Gasoline Pumps” were utilized to estimate the anticipated pass-by traffic of the proposed site. Based upon the published ITE data for Land Use 853, 48% of the site-generated traffic during the weekday morning peak hour will be comprised of pass-by traffic. **Table 6** summarizes the trip generation of the proposed 7-Eleven in terms of newly generated and pass-by traffic.

**TABLE 6 – PROJECTED TRIP GENERATION – NEW AND PASS-BY TRIPS**

	Weekday Morning Peak Hour			Weekday Evening Peak Hour		
	Enter	Exit	Total	Enter	Exit	Total
“New” Trips	41	41	82	33	30	63
“Pass-By” Trips	37	37	74	30	30	60
<b>Total Trips</b>	78	78	156	63	60	123

At the site driveways, the calculated number of pass-by trips is shown as a negative number at the through movement since these the vehicles are temporarily diverted from the through travel stream via the site access point.

### TRIP ASSIGNMENT/DISTRIBUTION

The trips generated by the proposed development were distributed according to existing traffic volumes, the location of residential properties and major arterial roadways in the surrounding area, the location of other convenience-type uses, and the proposed access management plan. The “New” Site-Generated Traffic Volumes and the “Pass-By” Site-Generated Traffic Volumes are illustrated on appended **Figure 7** and **Figure 8**, respectively.

### 2022 BUILD TRAFFIC VOLUMES

The site-generated trips were added to the 2022 No-Build Volumes to calculate the 2022 Build Volumes and are shown on appended **Figure 9**.

### 2022 BUILD LOS/CAPACITY ANALYSIS

A Level of Service and Volume/Capacity analysis was also conducted for the 2022 Build Condition for the weekday morning and weekday evening peak hours at the study intersection and proposed site driveways. **Tables 7** through **10** compare the 2019 Existing, 2022 No Build, and 2022 Build Conditions Level of Service and delay values.

The signalized intersection of Cedar Swamp Road and 4<sup>th</sup> Street is calculated to operate generally consistently with the findings of the 2022 No-Build Condition. Please note that during the weekday morning study period, the westbound left-turn movement degrades to Level of Service E, but only exceeds the letter-to-letter threshold by 0.1 seconds. Under the 2022 Build Condition, movements at each of the site driveways are calculated to operate at acceptable Level of Service B or better during the study peak hours.

Based on the expected volume of trips generated by the proposed use and the proposed access management plan of the site, 31 and 25 vehicles would be added to westbound 4<sup>th</sup> Street approach in the weekday morning peak hour and weekday evening peak hour, respectively. This equates to approximately one (1) additional vehicle every two (2) signal cycles during each peak hour, based on the signal cycle length of 70 seconds. There is adequate capacity on the westbound approach to accommodate this minor increase in traffic.

**COMPARATIVE LEVEL OF SERVICE (DELAY) TABLES****CEDAR SWAMP ROAD & 4<sup>TH</sup> STREET**

NB (Northbound) and SB (Southbound) approaches are the Cedar Swamp Road approaches

WB (Westbound) approach is the 4<sup>th</sup> Street approach

X (n) = Level of Service (seconds of delay)

**TABLE 7 – WEEKDAY MORNING PEAK HOUR**

Lane Group	2019 Existing	2022 No-Build	2022 Build
WB Left	D (53.5)	D (54.0)	E (55.1)
WB Right	C (26.1)	C (25.4)	C (24.2)
NB Through	A (7.4)	A (8.0)	A (8.9)
NB Right	A (6.8)	A (7.2)	A (7.9)
SB Left	A (9.4)	B (10.7)	B (11.9)
SB Through	A (9.3)	B (10.1)	B (10.8)
<b>Intersection</b>	<b>B (17.4)</b>	<b>B (17.6)</b>	<b>B (19.1)</b>

**TABLE 8 – WEEKDAY EVENING PEAK HOUR**

Lane Group	2019 Existing	2022 No-Build	2022 Build
WB Left	D (48.3)	D (46.9)	C (32.8)
WB Right	C (27.4)	C (26.9)	C (24.3)
NB Through	A (7.9)	A (8.6)	A (8.6)
NB Right	A (5.5)	A (5.9)	A (5.9)
SB Left	A (9.1)	B (10.9)	B (11.0)
SB Through	A (5.2)	A (5.7)	A (5.6)
<b>Intersection</b>	<b>B (11.9)</b>	<b>B (12.0)</b>	<b>B (10.6)</b>

**CEDAR SWAMP ROAD & SITE DRIVEWAY**

SB (Southbound) approach is the Cedar Swamp Road approach

WB (Westbound) approach is the site driveway approach

X (n) = Level of Service (seconds of delay)

**TABLE 9 – 2022 BUILD CONDITION**

Lane Group	Weekday Morning Peak Hour	Weekday Evening Peak Hour
SB Left	A (9.1)	A (9.7)
WB Right	B (10.9)	B (11.6)

**4<sup>TH</sup> STREET & SITE DRIVEWAY**

SB (Southbound) approach is the site driveway approach

X (n) = Level of Service (seconds of delay)

**TABLE 10 – 2022 BUILD CONDITION**

Lane Group	Weekday Morning Peak Hour	Weekday Evening Peak Hour
SB Right	B (10.6)	A (9.8)

**BUILD VEHICULAR GAP ANALYSIS**

To determine if the projected left-turning traffic volumes from Cedar Swamp Road into the site would be accommodated by the expected gaps in traffic, the expected vehicular capacity of projected gaps was compared to the projected left-turning volumes. This comparison, over the course of the weekday morning and evening peak hours, is provided in **Table II**.

**TABLE II – CEDAR SWAMP ROAD – PROJECTED CAPACITY**

<b>Movement</b>	<b>Peak Hour</b>	<b>Total Projected Vehicular Capacity</b>	<b>Total Projected Left-Turn Traffic Volumes</b>
Cedar Swamp Road Left-turn Ingress (Main Line, 2 lanes)	AM Peak Hour (7:45 a.m. to 8:45 a.m.)	260	27
	PM Peak Hour (4:00 p.m. to 5:00 p.m.)	291	24

Based on a review of available gaps in traffic, adequate gaps in traffic are expected to be present over the duration of the peak hours to accommodate the projected left-turning volumes.

**PROPOSED OFF-SITE IMPROVEMENTS**

Modifications to the existing median along Cedar Swamp Road will be made to provide a southbound storage lane for vehicles turning left into the subject site from Cedar Swamp Road. The proposed modifications to the existing median received a 239-f approval from the NCDPW on May 28, 2019. Please refer to the Site Plan (C-2) prepared by Stonefield Engineering & Design, LLC., dated January 20, 2020, for the proposed modifications.

**SITE CIRCULATION/PARKING SUPPLY**

A review was conducted of the proposed development using the Site Plan prepared by Stonefield Engineering & Design, LLC., dated January 20, 2020, for the proposed 7-Eleven convenience store. In completing this plan, particular attention was focused on the site access, circulation, and parking supply.

Access is proposed via one (1) left-in/right-in/right-out driveway on Cedar Swamp Road and one (1) right-in/right-out driveway on 4<sup>th</sup> Street. Under the current development program, a 2,500-square-foot 7-Eleven convenience market would be located in the eastern extent of the site and oriented towards Cedar Swamp Road. Parking stalls and a 25-foot drive aisle would be located on the western portion of the site. A dedicated 12-foot-wide loading zone would be located in the northeast quadrant of the site.

The City of Glen Cove Ordinance requires one (1) parking stall for every 250-square-foot of retail space. For the proposed 2,500-square-foot 7-Eleven convenience market, this equates to ten (10) required spaces.

The site would provide ten (10) total parking spaces, inclusive of one (1) handicap parking stall, which meets the parking requirement and would be sufficient to support this project's parking demand. The stalls would be nine (9) feet wide by 20 feet deep in accordance with industry standards.

## **CONCLUSION**

This report was prepared to examine the potential traffic impact of the proposed 7-Eleven convenience market. The analysis findings, which have been based on industry-standard guidelines, indicate that the proposed development would not have a significant impact on the traffic operations of the adjacent roadway network. The site driveways and on-site layout have been designed to provide for effective access to and from the subject property, and the off-street parking supply satisfies the city's zoning requirement.

Z:\Rutherford\IS\2014\IS-14174 7-Eleven, Glen Cove\Reports\2021-03 TIS update\2021-03 TIS.docx




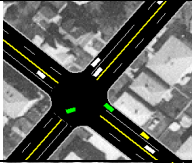




## **TECHNICAL APPENDIX**

**LEVEL OF SERVICE/AVERAGE CONTROL DELAY CRITERIA**

## LEVEL OF SERVICE /AVERAGE CONTROL DELAY CRITERIA

The ability of a roadway to effectively accommodate traffic demand is determined through an assessment of the volume-to-capacity ratio, delay and Level of Service of the lane group and/or intersection. The volume-to-capacity ratio is the ratio of traffic flow rate to capacity for a given transportation facility. As defined within the Highway Capacity Manual 2010 (HCM 2010), intersection delay is the total additional travel time experienced by drivers, passengers, or pedestrians as a result of control measures and interaction with other users of the facility, divided by the volume departing from the corresponding cross section of the facility. Level of service is a qualitative measure describing operational conditions within a traffic stream, based on service measures such as speed and travel time, freedom to maneuver, traffic interruptions, comfort and convenience.

For an unsignalized intersection, LOS A indicates operations with delay less than 10 seconds per vehicle, while LOS F describes operations with delay in excess of 50 seconds per vehicle. For a signalized intersection, LOS A indicates operations with delay less than 10 seconds per vehicle and LOS F denotes operations with delay in excess of 80 seconds per vehicle.

	Level Of Service (LOS)	Signalized Delay Range (average control delay in sec/veh)	Unsignalized Delay Range (average control delay in sec/veh)
	A	$\leq 10$	$\leq 10$
	B	$> 10$ and $\leq 20$	$> 10$ and $\leq 15$
	C	$> 20$ and $\leq 35$	$> 15$ and $\leq 25$
	D	$> 35$ and $\leq 55$	$> 25$ and $\leq 35$
	E	$> 55$ and $\leq 80$	$> 35$ and $\leq 50$
	F	$> 80$	$> 50$

Source: Highway Capacity Manual 2010

## **TURNING MOVEMENT COUNT DATA**

# Stonefield Engineering & Design, LLC

584 Broadway, Suite 310, New York, NY 10012

718.606.8305 t.

Intersection of 4th Street (E/W)  
and Cedar Swamp Road (N/S)  
Glen Cove, Nassau County, New York  
Thursday, December 12, 2019

File Name : S-14174\_4th Street and Cedar Swamp Road  
Site Code : 00014174  
Start Date : 12/12/2019  
Page No : 1

## Groups Printed- Auto - HV - B/SB

	4th Street Westbound					Cedar Swamp Road Northbound					Cedar Swamp Road Southbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	71	0	3	2	76	0	110	10	7	127	4	109	0	0	113	316
07:15 AM	49	0	6	3	58	0	99	16	16	131	11	84	0	0	95	284
07:30 AM	74	0	0	6	80	0	162	22	8	192	16	96	1	0	113	385
07:45 AM	61	0	4	5	70	0	130	33	19	182	14	114	0	0	128	380
Total	255	0	13	16	284	0	501	81	50	632	45	403	1	0	449	1365
08:00 AM	63	0	10	8	81	0	84	18	17	119	7	103	0	0	110	310
08:15 AM	74	0	4	6	84	0	111	15	9	135	12	90	0	0	102	321
08:30 AM	64	0	6	17	87	0	169	37	4	210	9	101	0	0	110	407
08:45 AM	43	0	2	16	61	0	137	26	4	167	11	79	0	0	90	318
Total	244	0	22	47	313	0	501	96	34	631	39	373	0	0	412	1356
*** BREAK ***																
03:30 PM	54	0	7	3	64	0	153	49	13	215	10	98	0	0	108	387
03:45 PM	37	0	4	9	50	0	134	45	18	197	15	107	1	0	123	370
Total	91	0	11	12	114	0	287	94	31	412	25	205	1	0	231	757
04:00 PM	44	0	5	5	54	0	158	56	11	225	18	159	0	0	177	456
04:15 PM	59	0	8	7	74	0	179	42	21	242	13	152	0	0	165	481
04:30 PM	44	0	6	4	54	0	178	69	8	255	22	124	1	0	147	456
04:45 PM	58	0	8	9	75	0	155	62	3	220	15	104	0	0	119	414
Total	205	0	27	25	257	0	670	229	43	942	68	539	1	0	608	1807
05:00 PM	62	0	13	2	77	0	148	73	1	222	18	137	0	0	155	454
05:15 PM	37	0	9	2	48	1	137	59	10	207	21	105	0	0	126	381
05:30 PM	49	0	5	8	62	0	143	73	10	226	14	86	0	0	100	388
05:45 PM	28	2	11	9	50	0	132	45	3	180	7	80	2	0	89	319
Total	176	2	38	21	237	1	560	250	24	835	60	408	2	0	470	1542
06:00 PM	45	0	0	4	49	0	125	76	17	218	13	96	0	0	109	376
06:15 PM	41	0	3	5	49	0	179	57	8	244	13	112	0	0	125	418
Grand Total	1057	2	114	130	1303	1	2823	883	207	3914	263	2136	5	0	2404	7621
Apprch %	81.1	0.2	8.7	10		0	72.1	22.6	5.3		10.9	88.9	0.2	0		
Total %	13.9	0	1.5	1.7	17.1	0	37	11.6	2.7	51.4	3.5	28	0.1	0	31.5	
Auto	1033	2	111	130	1276	1	2748	868	207	3824	255	2054	5	0	2314	7414
% Auto	97.7	100	97.4	100	97.9	100	97.3	98.3	100	97.7	97	96.2	100	0	96.3	97.3
HV	2	0	0	0	2	0	17	2	0	19	0	13	0	0	13	34
% HV	0.2	0	0	0	0.2	0	0.6	0.2	0	0.5	0	0.6	0	0	0.5	0.4
B/SB	22	0	3	0	25	0	58	13	0	71	8	69	0	0	77	173
% B/SB	2.1	0	2.6	0	1.9	0	2.1	1.5	0	1.8	3	3.2	0	0	3.2	2.3

# Stonefield Engineering & Design, LLC

584 Broadway, Suite 310, New York, NY 10012

718.606.8305 t.

Intersection of 4th Street (E/W)  
and Cedar Swamp Road (N/S)  
Glen Cove, Nassau County, New York  
Thursday, December 12, 2019

File Name : S-14174\_4th Street and Cedar Swamp Road  
Site Code : 00014174  
Start Date : 12/12/2019  
Page No : 2

	4th Street Westbound					Cedar Swamp Road Northbound					Cedar Swamp Road Southbound					
Start Time	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 07:45 AM																
07:45 AM	61	0	4	5	70	0	130	33	19	182	14	114	0	0	128	380
08:00 AM	63	0	10	8	81	0	84	18	17	119	7	103	0	0	110	310
08:15 AM	74	0	4	6	84	0	111	15	9	135	12	90	0	0	102	321
08:30 AM	64	0	6	17	87	0	169	37	4	210	9	101	0	0	110	407
Total Volume	262	0	24	36	322	0	494	103	49	646	42	408	0	0	450	1418
% App. Total	81.4	0	7.5	11.2		0	76.5	15.9	7.6		9.3	90.7	0	0		
PHF	.885	.000	.600	.529	.925	.000	.731	.696	.645	.769	.750	.895	.000	.000	.879	.871
Auto	253	0	23	36	312	0	475	99	49	623	40	382	0	0	422	1357
% Auto	96.6	0	95.8	100	96.9	0	96.2	96.1	100	96.4	95.2	93.6	0	0	93.8	95.7
HV	1	0	0	0	1	0	6	1	0	7	0	3	0	0	3	11
% HV	0.4	0	0	0	0.3	0	1.2	1.0	0	1.1	0	0.7	0	0	0.7	0.8
B/SB	8	0	1	0	9	0	13	3	0	16	2	23	0	0	25	50
% B/SB	3.1	0	4.2	0	2.8	0	2.6	2.9	0	2.5	4.8	5.6	0	0	5.6	3.5

Peak Hour Analysis From 12:00 PM to 06:15 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 04:00 PM

04:00 PM	44	0	5	5	54	0	158	56	11	225	18	159	0	0	177	456
04:15 PM	59	0	8	7	74	0	179	42	21	242	13	152	0	0	165	481
04:30 PM	44	0	6	4	54	0	178	69	8	255	22	124	1	0	147	456
04:45 PM	58	0	8	9	75	0	155	62	3	220	15	104	0	0	119	414
Total Volume	205	0	27	25	257	0	670	229	43	942	68	539	1	0	608	1807
% App. Total	79.8	0	10.5	9.7		0	71.1	24.3	4.6		11.2	88.7	0.2	0		
PHF	.869	.000	.844	.694	.857	.000	.936	.830	.512	.924	.773	.847	.250	.000	.859	.939
Auto	201	0	26	25	252	0	662	229	43	934	68	502	1	0	571	1757
% Auto	98.0	0	96.3	100	98.1	0	98.8	100	100	99.2	100	93.1	100	0	93.9	97.2
HV	1	0	0	0	1	0	1	0	0	1	0	5	0	0	5	7
% HV	0.5	0	0	0	0.4	0	0.1	0	0	0.1	0	0.9	0	0	0.8	0.4
B/SB	3	0	1	0	4	0	7	0	0	7	0	32	0	0	32	43
% B/SB	1.5	0	3.7	0	1.6	0	1.0	0	0	0.7	0	5.9	0	0	5.3	2.4

# Stonefield Engineering & Design, LLC

75 Orient Way, Suite 303, Rutherford, NJ 07070  
201.340.4468 t. 201.340.4472 f.

Intersection of 4th Street (EB/WB) and  
Cedar Swamp Road (NB/SB)  
Glen Cove, Nassau County, New York  
Tuesday, March 24, 2015

File Name : S-14174\_VV  
Site Code : 00014174 Start  
Date : 3/24/2015 Page  
No : 1

## Groups Printed- Autos - HV - B/SB

	Cedar Swamp Rd Southbound					4th Street Westbound					Cedar Swamp Rd Northbound					Eastbound					
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
07:00 AM	8	98	0	0	106	39	0	2	5	46	5	74	11	2	92	0	0	0	0	0	244
07:15 AM	8	101	0	0	109	86	0	2	2	90	0	85	19	10	114	0	0	0	0	0	313
07:30 AM	11	123	0	0	134	63	0	9	4	76	0	104	37	5	146	0	0	0	0	0	356
07:45 AM	10	116	0	0	126	68	1	6	2	77	6	110	32	4	152	0	0	0	1	1	356
Total	37	438	0	0	475	256	1	19	13	289	11	373	99	21	504	0	0	0	1	1	1269
08:00 AM	21	105	0	0	126	68	0	6	8	82	0	100	38	4	142	0	0	0	0	0	350
08:15 AM	7	85	0	0	92	63	0	4	9	76	0	110	30	4	144	0	0	0	0	0	312
08:30 AM	10	88	0	0	98	63	0	7	2	72	0	87	37	3	127	0	0	0	0	0	297
08:45 AM	13	101	0	0	114	70	2	10	5	87	0	135	37	1	173	0	0	0	0	0	374
Total	51	379	0	0	430	264	2	27	24	317	0	432	142	12	586	0	0	0	0	0	1333
*** BREAK ***																					
04:00 PM	14	104	0	0	118	37	0	5	4	46	0	161	56	2	219	0	0	0	0	0	383
04:15 PM	3	98	0	0	101	31	0	1	2	34	0	145	63	3	211	0	0	0	0	0	346
04:30 PM	7	98	0	0	105	38	0	3	6	47	0	164	72	3	239	0	0	0	0	0	391
04:45 PM	14	106	0	0	120	37	0	5	2	44	0	143	62	2	207	0	0	0	0	0	371
Total	38	406	0	0	444	143	0	14	14	171	0	613	253	10	876	0	0	0	0	0	1491
05:00 PM	9	176	0	0	185	45	0	5	3	53	0	178	71	6	255	0	0	0	0	0	493
05:15 PM	19	109	0	0	128	45	0	6	4	55	0	134	57	7	198	0	0	0	0	0	381
05:30 PM	15	130	0	0	145	57	0	4	6	67	0	148	59	5	212	0	0	0	0	0	424
05:45 PM	9	82	0	0	91	43	0	7	7	57	0	128	70	2	200	0	0	0	0	0	348
Total	52	497	0	0	549	190	0	22	20	232	0	588	257	20	865	0	0	0	0	0	1646
06:00 PM	6	97	0	0	103	47	1	6	4	58	0	132	53	11	196	0	1	0	0	1	358
06:15 PM	8	92	0	0	100	36	1	7	2	46	0	143	46	2	191	0	0	4	0	4	341
06:30 PM	12	102	0	0	114	36	0	3	2	41	0	148	38	5	191	0	0	0	0	0	346
06:45 PM	15	73	0	0	88	39	0	3	3	45	0	122	52	4	178	0	0	0	0	0	311
Total	41	364	0	0	405	158	2	19	11	190	0	545	189	22	756	0	1	4	0	5	1356
Grand Total	219	2084	0	0	2303	1011	5	101	82	1199	11	2553	941	85	3590	0	1	4	1	6	7098
Apprch %	9.5	90.5	0	0		84.3	0.4	8.4	6.8		0.3	71.1	26.2	2.4		0	16.7	66.7	16.7		
Total %	3.1	29.4	0	0	32.4	14.2	0.1	1.4	1.2	16.9	0.2	36	13.3	1.2	50.6	0	0	0.1	0	0.1	
Autos	213	2043	0	0	2256	1003	5	99	82	1189	11	2525	936	85	3557	0	1	4	1	6	7008
% Autos	97.3	98	0	0	98	99.2	100	98	100	99.2	100	98.9	99.5	100	99.1	0	100	100	100	100	98.7
HV	0	17	0	0	17	4	0	0	0	4	0	19	2	0	21	0	0	0	0	0	42
% HV	0	0.8	0	0	0.7	0.4	0	0	0	0.3	0	0.7	0.2	0	0.6	0	0	0	0	0	0.6
B/SB	6	24	0	0	30	4	0	2	0	6	0	9	3	0	12	0	0	0	0	0	48
% B/SB	2.7	1.2	0	0	1.3	0.4	0	2	0	0.5	0	0.4	0.3	0	0.3	0	0	0	0	0	0.7

# Stonefield Engineering & Design, LLC

75 Orient Way, Suite 303, Rutherford, NJ 07070

201.340.4468 t. 201.340.4472 f.

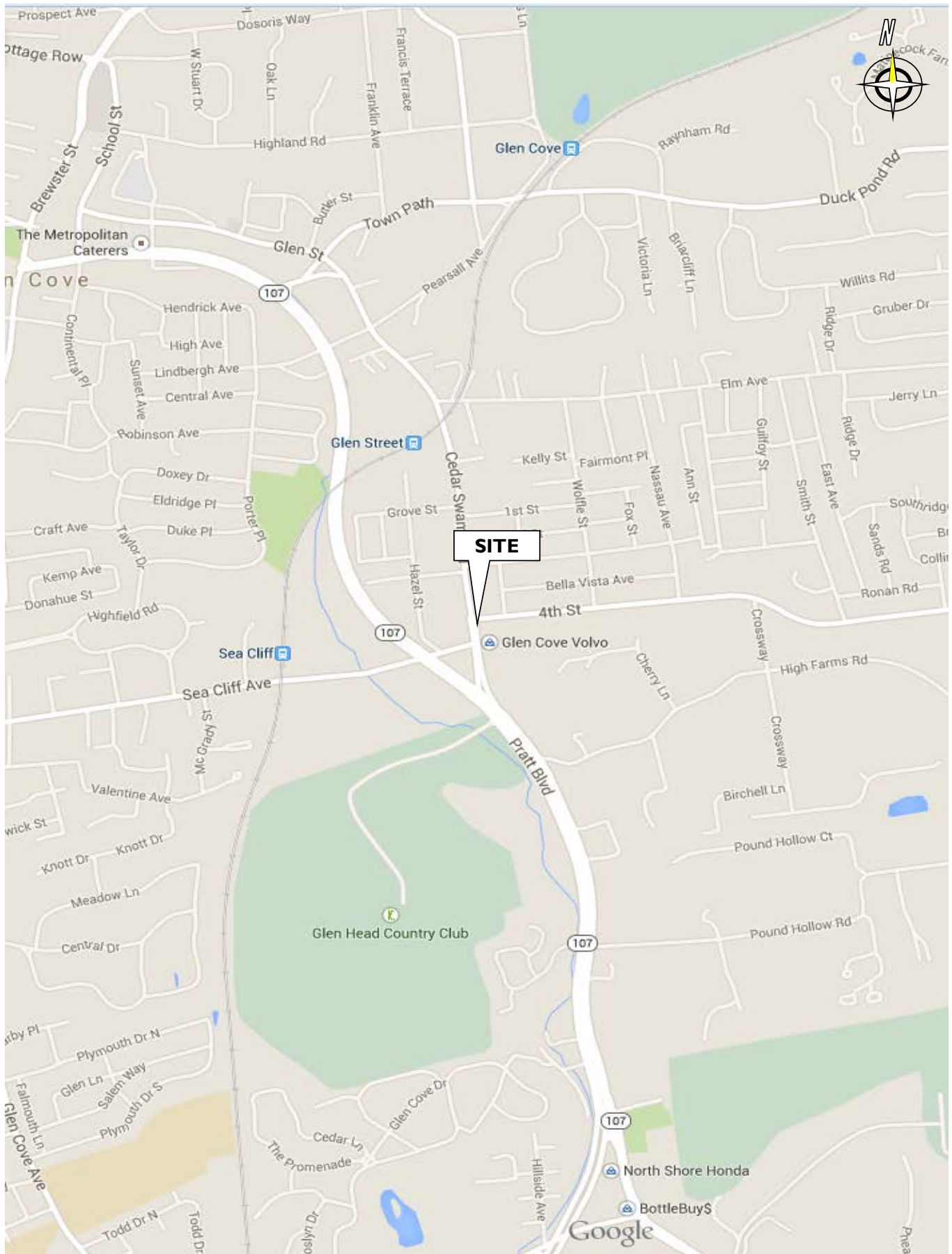
Intersection of 4th Street (EB/WB) and  
Cedar Swamp Road (NB/SB)  
Glen Cove, Nassau County, New York  
Tuesday, March 24, 2015

File Name : S-I4174\_VV  
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	Cedar Swamp Rd Southbound					4th Street Westbound					Cedar Swamp Rd Northbound					Eastbound					
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	Peds	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:15 AM																					
07:15 AM	8	101	0	0	109	86	0	2	2	90	0	85	19	10	114	0	0	0	0	0	313
07:30 AM	11	123	0	0	134	63	0	9	4	76	0	104	37	5	146	0	0	0	0	0	356
07:45 AM	10	116	0	0	126	68	1	6	2	77	6	110	32	4	152	0	0	0	1	1	356
08:00 AM	21	105	0	0	126	68	0	6	8	82	0	100	38	4	142	0	0	0	0	0	350
Total Volume	50	445	0	0	495	285	1	23	16	325	6	399	126	23	554	0	0	0	1	1	1375
% App. Total	10.1	89.9	0	0		87.7	0.3	7.1	4.9		1.1	72	22.7	4.2		0	0	0	100		
PHF	.595	.904	.000	.000	.924	.828	.250	.639	.500	.903	.250	.907	.829	.575	.911	.000	.000	.000	.250	.250	.966
Autos	47	433	0	0	480	280	1	22	16	319	6	393	122	23	544	0	0	0	1	1	1344
% Autos	94.0	97.3	0	0	97.0	98.2	100	95.7	100	98.2	100	98.5	96.8	100	98.2	0	0	0	100	100	97.7
HV	0	5	0	0	5	1	0	0	0	1	0	5	2	0	7	0	0	0	0	0	13
% HV	0	1.1	0	0	1.0	0.4	0	0	0	0.3	0	1.3	1.6	0	1.3	0	0	0	0	0	0.9
B/SB	3	7	0	0	10	4	0	1	0	5	0	1	2	0	3	0	0	0	0	0	18
% B/SB	6.0	1.6	0	0	2.0	1.4	0	4.3	0	1.5	0	0.3	1.6	0	0.5	0	0	0	0	0	1.3
Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	14	106	0	0	120	37	0	5	2	44	0	143	62	2	207	0	0	0	0	0	371
05:00 PM	9	176	0	0	185	45	0	5	3	53	0	178	71	6	255	0	0	0	0	0	493
05:15 PM	19	109	0	0	128	45	0	6	4	55	0	134	57	7	198	0	0	0	0	0	381
05:30 PM	15	130	0	0	145	57	0	4	6	67	0	148	59	5	212	0	0	0	0	0	424
Total Volume	57	521	0	0	578	184	0	20	15	219	0	603	249	20	872	0	0	0	0	0	1669
% App. Total	9.9	90.1	0	0		84	0	9.1	6.8		0	69.2	28.6	2.3		0	0	0	0		
PHF	.750	.740	.000	.000	.781	.807	.000	.833	.625	.817	.000	.847	.877	.714	.855	.000	.000	.000	.000	.000	.846
Autos	57	518	0	0	575	181	0	20	15	216	0	599	249	20	868	0	0	0	0	0	1659
% Autos	100	99.4	0	0	99.5	98.4	0	100	100	98.6	0	99.3	100	100	99.5	0	0	0	0	0	99.4
HV	0	1	0	0	1	3	0	0	0	3	0	2	0	0	2	0	0	0	0	0	6
% HV	0	0.2	0	0	0.2	1.6	0	0	0	1.4	0	0.3	0	0	0.2	0	0	0	0	0	0.4
B/SB	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
% B/SB	0	0.4	0	0	0.3	0	0	0	0	0	0	0.3	0	0	0.2	0	0	0	0	0	0.2



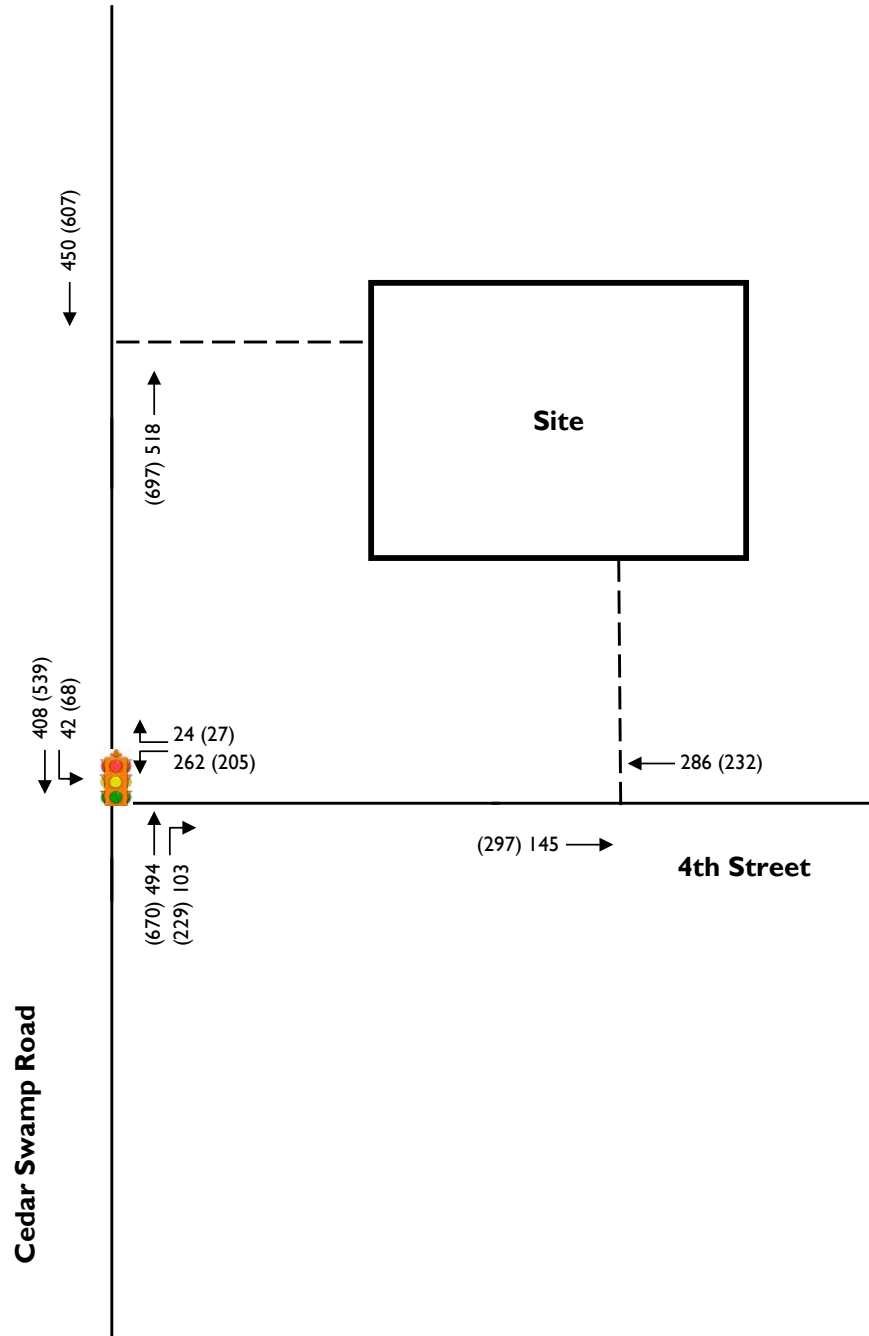
## FIGURES




**STONEFIELD**

**Proposed 7-Eleven Convenience Market  
Cedar Swamp Road and 4th Street  
City of Glen Cove, Nassau County, New York  
Traffic Impact Study**

**FIGURE I  
Site Location Map**



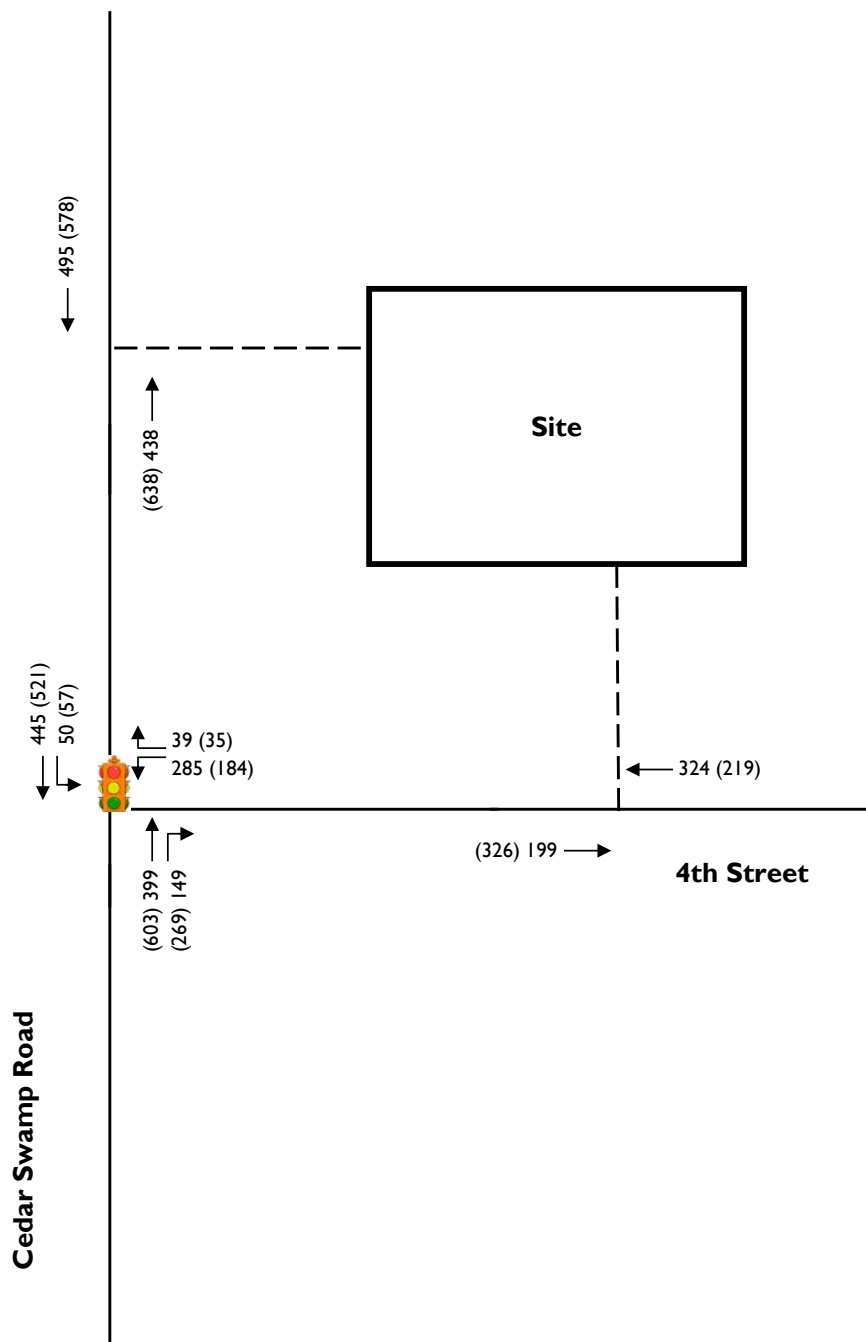
**LEGEND**

- Existing Roadway
- - - Proposed Driveway
- . - Existing Private Driveway
- ← AM (PM) Peak Hour Volumes
-  Signalized Intersection


**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
**City of Glen Cove, Nassau County, New York**  
**Traffic Impact Study**

**FIGURE 2**  
**2019 Existing Traffic**  
**Volumes**



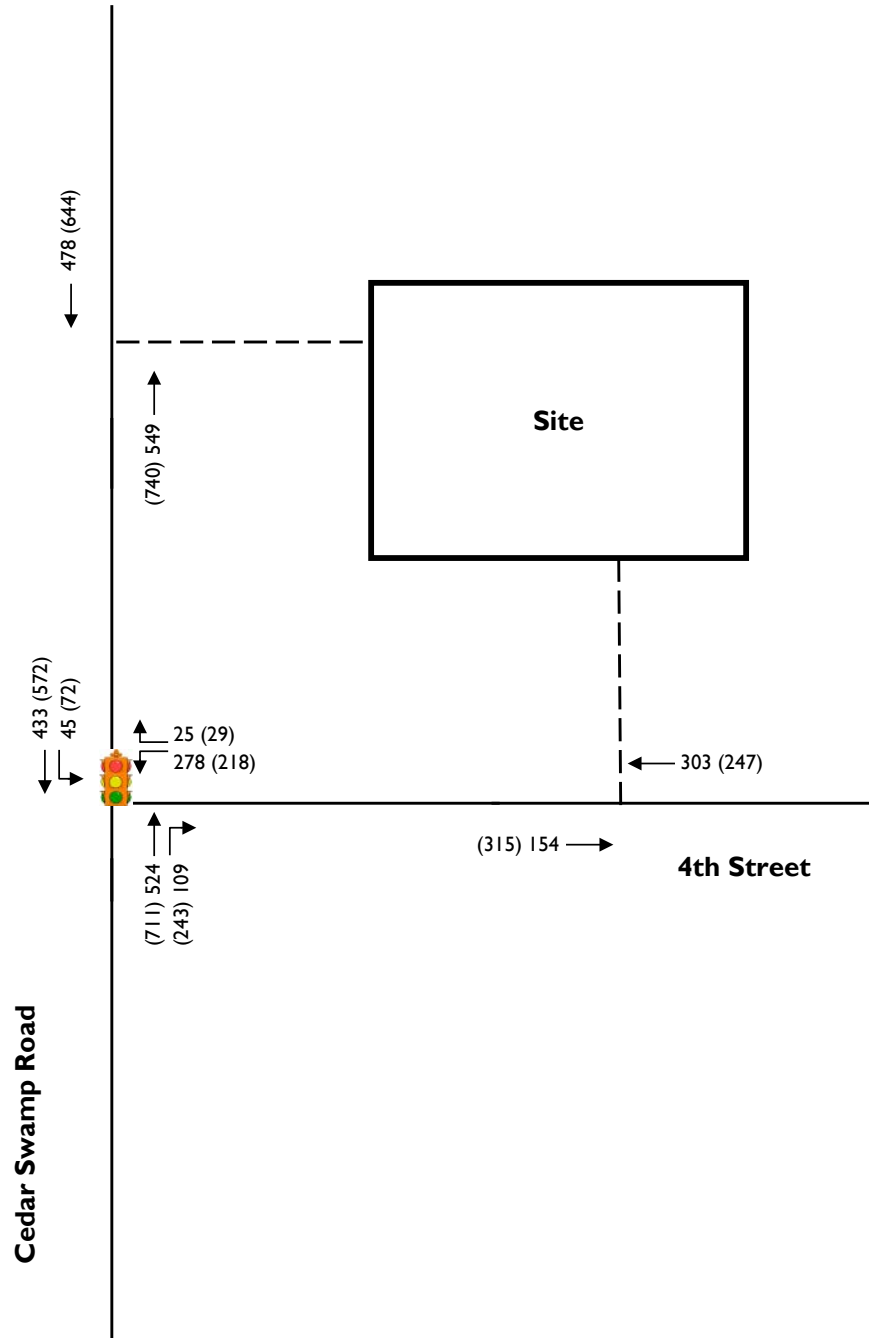
**LEGEND**

- Existing Roadway
- - - Proposed Driveway
- . - Existing Private Driveway
- ← AM (PM) Peak Hour Volumes
-  Signalized Intersection


**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
**City of Glen Cove, Nassau County, New York**  
**Traffic Impact Study**

**FIGURE 3**  
**2015 Existing Traffic**  
**Volumes**



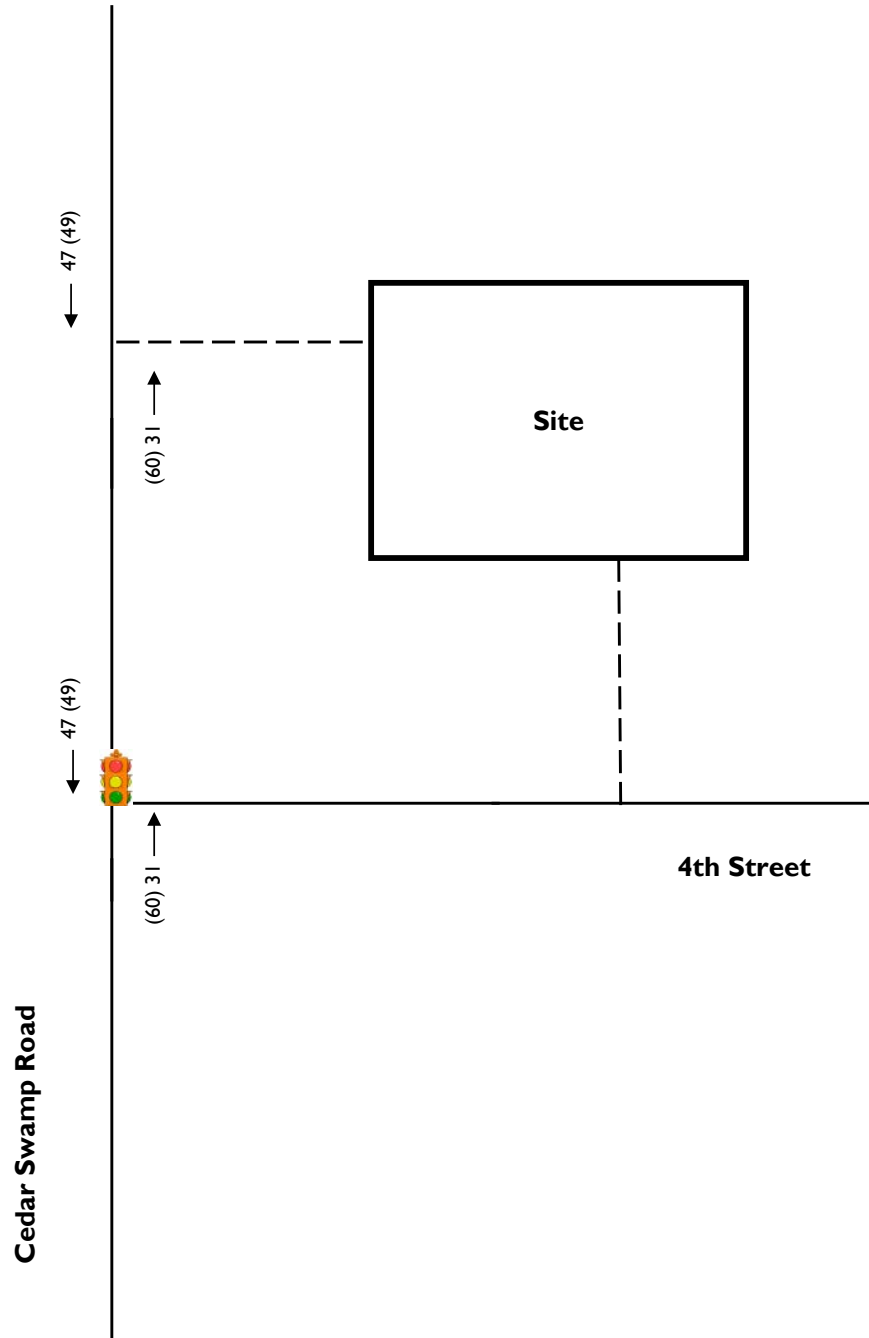
**LEGEND**

- Existing Roadway
- - - Proposed Driveway
- . . Existing Private Driveway
- ← AM (PM) Peak Hour Volumes
-  Signalized Intersection

**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
**City of Glen Cove, Nassau County, New York**  
**Traffic Impact Study**

**FIGURE 4**  
**2022 Base Traffic Volumes**



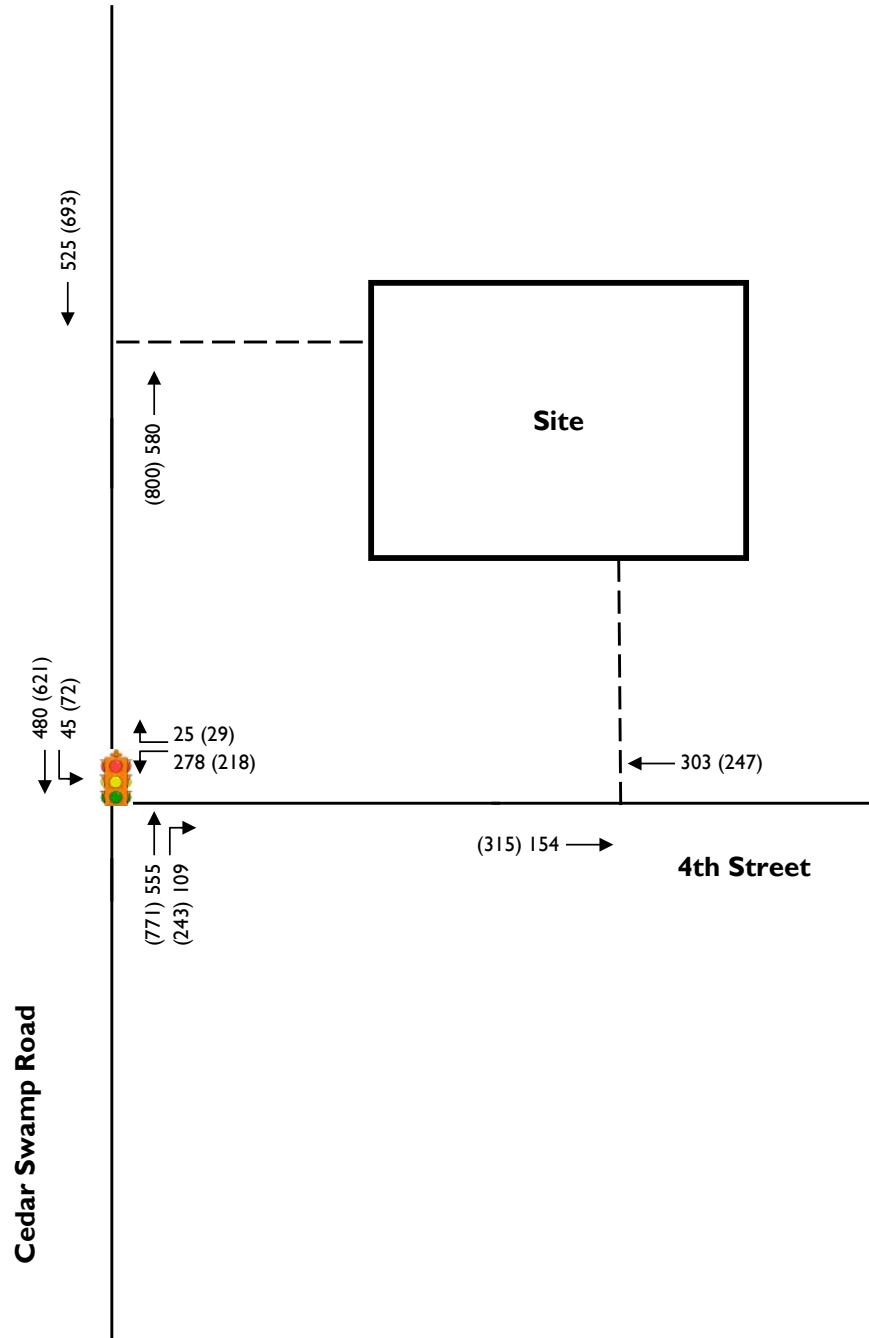
**LEGEND**

- Existing Roadway
- - - Proposed Driveway
- . - Existing Private Driveway
- ← AM (PM) Peak Hour Volumes
- Signalized Intersection

**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
 City of Glen Cove, Nassau County, New York  
**Traffic Impact Study**

**FIGURE 5**  
**Other Planned Projects**  
**Future Traffic Volumes**



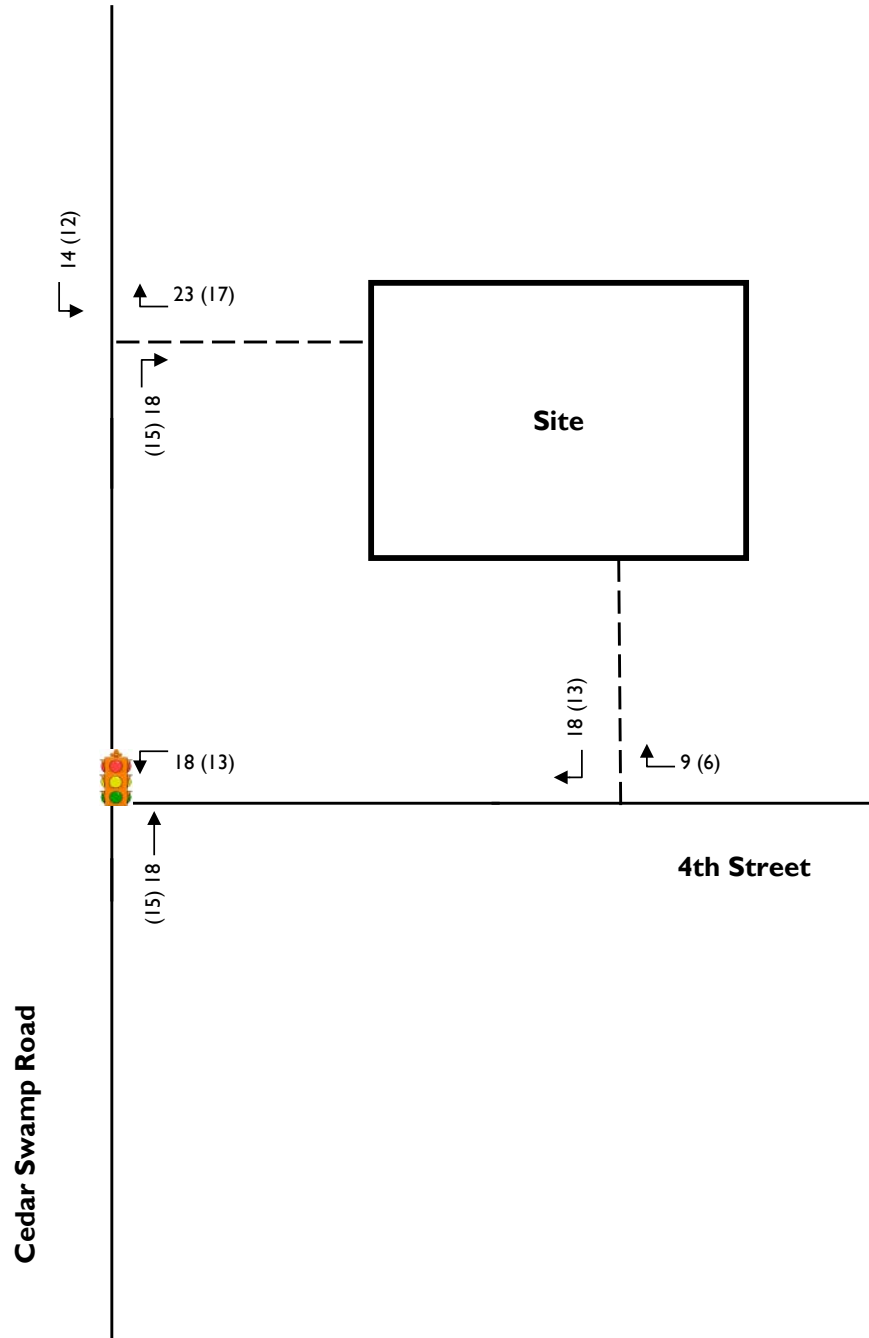
**LEGEND**

- Existing Roadway
- Proposed Driveway
- Existing Private Driveway
- AM (PM) Peak Hour Volumes
- Signalized Intersection

**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
**City of Glen Cove, Nassau County, New York**  
**Traffic Impact Study**

**FIGURE 6**  
**2022 No-Build Traffic**  
**Volumes**



**LEGEND**

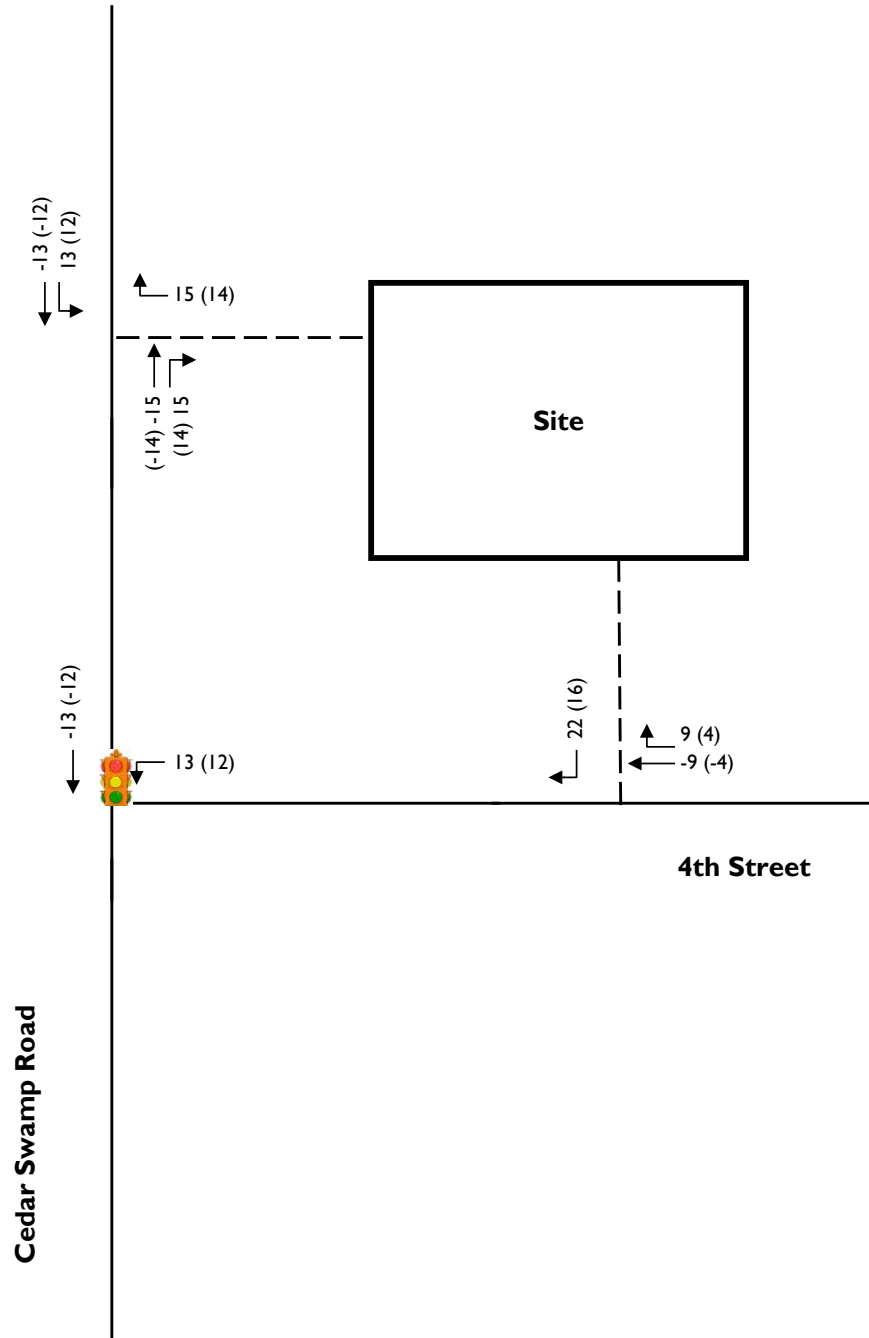
- Existing Roadway
- Proposed Driveway
- Existing Private Driveway
- AM (PM) Peak Hour Volumes
- Signalized Intersection

**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
**City of Glen Cove, Nassau County, New York**  
**Traffic Impact Study**

**FIGURE 7**  
**"New" Site-Generated**  
**Traffic Volumes**

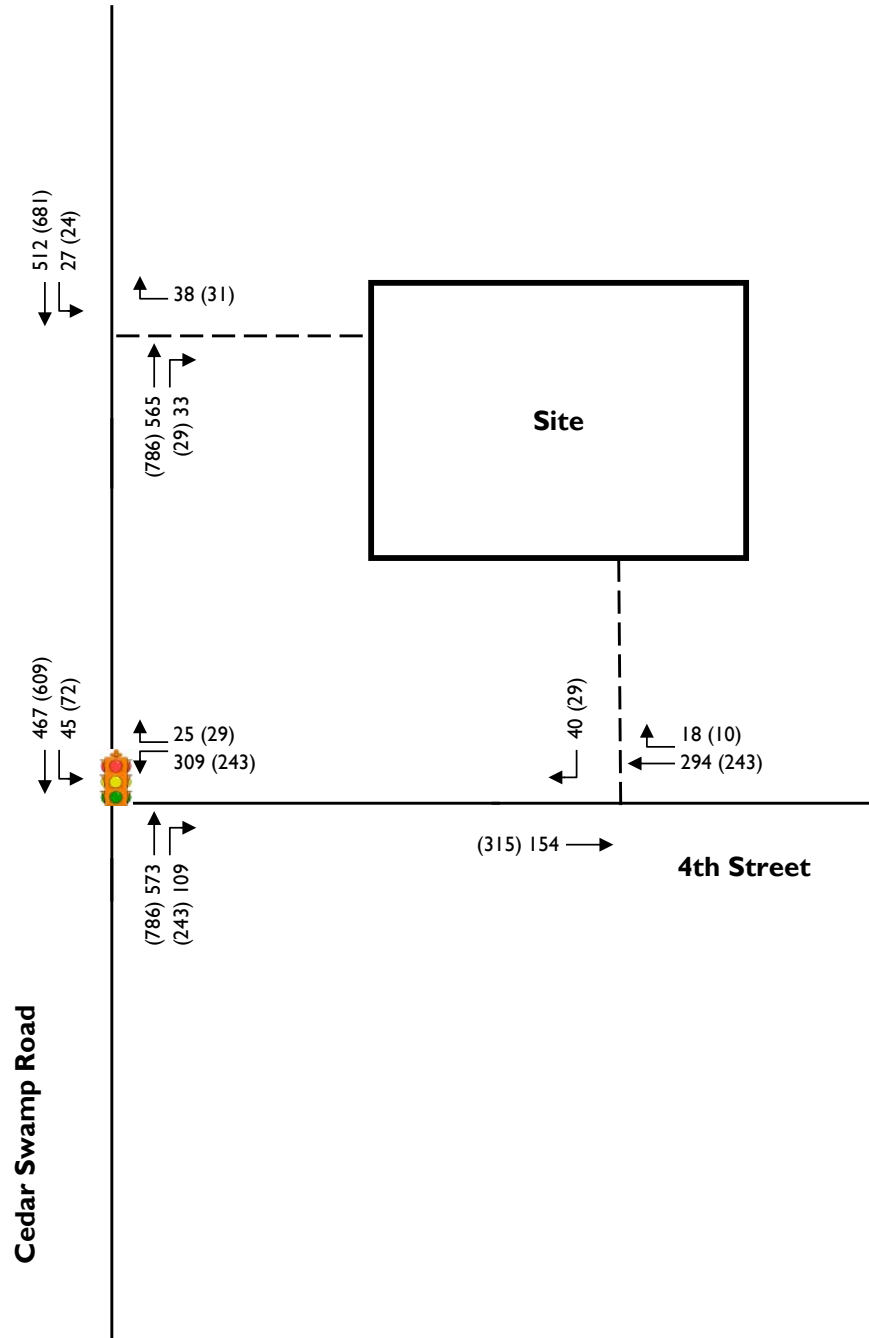




**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
**City of Glen Cove, Nassau County, New York**  
**Traffic Impact Study**

**FIGURE 8**  
**"Pass-By" Site-Generated**  
**Traffic Volumes**



**LEGEND**

- Existing Roadway
- Proposed Driveway
- Existing Private Driveway
- AM (PM) Peak Hour Volumes
- Signalized Intersection

**STONEFIELD**

**Proposed 7-Eleven Convenience Market**  
**Cedar Swamp Road and 4th Street**  
**City of Glen Cove, Nassau County, New York**  
**Traffic Impact Study**













**FIGURE 9**  
**2022 Build Traffic Volumes**

## **HIGHWAY CAPACITY ANALYSIS DETAIL SHEETS**

# HCM 6th Signalized Intersection Summary

## 3: Cedar Swamp Road & 4th Street













2019 Existing  
Weekday AM Peak Hour

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	262	24	494	103	42	408
Future Volume (veh/h)	262	24	494	103	42	408
Initial Q (Qb), veh	4	3	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.96	0.99	
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	1758	1841	1841	1767	1826	1811
Adj Flow Rate, veh/h	301	28	568	118	48	469
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	3	4	4	4	5	6
Cap, veh/h	331	300	2066	848	475	2033
Arrive On Green	0.13	0.13	0.60	0.60	0.60	0.48
Sat Flow, veh/h	1674	1560	3589	1436	727	3532
Grp Volume(v), veh/h	301	28	568	118	48	469
Grp Sat Flow(s),veh/h/ln	1674	1560	1749	1436	727	1721
Q Serve(g_s), s	12.5	1.1	5.5	2.5	2.4	5.6
Cycle Q Clear(g_c), s	12.5	1.1	5.5	2.5	7.9	5.6
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	331	300	2066	848	475	2033
V/C Ratio(X)	0.91	0.09	0.27	0.14	0.10	0.23
Avail Cap(c_a), veh/h	550	513	2088	857	480	2054
HCM Platoon Ratio	0.70	0.70	1.00	1.00	1.00	0.80
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.9	25.2	7.0	6.4	9.0	9.1
Incr Delay (d2), s/veh	12.1	0.1	0.3	0.3	0.4	0.3
Initial Q Delay(d3),s/veh	11.5	0.8	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.6	0.7	1.8	0.7	0.4	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	53.5	26.1	7.4	6.8	9.4	9.3
LnGrp LOS	D	C	A	A	A	A
Approach Vol, veh/h	329		686			517
Approach Delay, s/veh	51.2		7.3			9.3
Approach LOS	D		A			A
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	47.8		47.8		22.2	
Change Period (Y+Rc), s	6.0		6.0		6.0	
Max Green Setting (Gmax), s	32.0		32.0		26.0	
Max Q Clear Time (g_c+I1), s	7.5		9.9		15.5	
Green Ext Time (p_c), s	4.5		3.6		0.8	
Intersection Summary						
HCM 6th Ctrl Delay			17.4			
HCM 6th LOS			B			

# HCM 6th Signalized Intersection Summary

## 3: Cedar Swamp Road & 4th Street













2019 Existing  
Weekday PM Peak Hour

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	205	27	670	229	68	539
Future Volume (veh/h)	205	27	670	229	68	539
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.97	0.99	
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	1870	1841	1885	1824	1900	1796
Adj Flow Rate, veh/h	218	29	713	244	72	573
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	4	1	0	0	7
Cap, veh/h	229	201	2353	982	425	2242
Arrive On Green	0.13	0.13	0.53	0.66	0.66	0.66
Sat Flow, veh/h	1781	1560	3676	1495	591	3503
Grp Volume(v), veh/h	218	29	713	244	72	573
Grp Sat Flow(s),veh/h/ln	1781	1560	1791	1495	591	1706
Q Serve(g_s), s	8.5	1.2	7.9	4.7	4.4	4.8
Cycle Q Clear(g_c), s	8.5	1.2	7.9	4.7	12.3	4.8
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	229	201	2353	982	425	2242
V/C Ratio(X)	0.95	0.14	0.30	0.25	0.17	0.26
Avail Cap(c_a), veh/h	585	513	2353	982	425	2242
HCM Platoon Ratio	1.00	1.00	0.80	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	30.3	27.1	7.6	4.9	8.3	4.9
Incr Delay (d2), s/veh	18.0	0.3	0.3	0.6	0.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.6	0.4	2.7	1.3	0.6	1.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	48.3	27.4	7.9	5.5	9.1	5.2
LnGrp LOS	D	C	A	A	A	A
Approach Vol, veh/h	247		957			645
Approach Delay, s/veh	45.9		7.3			5.7
Approach LOS	D		A			A
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	52.0		52.0		18.0	
Change Period (Y+Rc), s	6.0		6.0		6.0	
Max Green Setting (Gmax), s	32.0		32.0		26.0	
Max Q Clear Time (g_c+I1), s	9.9		14.3		11.5	
Green Ext Time (p_c), s	6.1		4.4		0.6	
Intersection Summary						
HCM 6th Ctrl Delay			11.9			
HCM 6th LOS			B			

# HCM 6th Signalized Intersection Summary

## 3: Cedar Swamp Road & 4th Street













2022 No-Build  
Weekday AM Peak Hour

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	278	25	555	109	45	480
Future Volume (veh/h)	278	25	555	109	45	480
Initial Q (Qb), veh	4	3	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.96	0.99	
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	1758	1841	1841	1767	1826	1811
Adj Flow Rate, veh/h	320	29	638	125	52	552
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	3	4	4	4	5	6
Cap, veh/h	351	318	2025	831	432	1993
Arrive On Green	0.14	0.14	0.59	0.59	0.59	0.47
Sat Flow, veh/h	1674	1560	3589	1435	678	3532
Grp Volume(v), veh/h	320	29	638	125	52	552
Grp Sat Flow(s),veh/h/ln	1674	1560	1749	1435	678	1721
Q Serve(g_s), s	13.3	1.1	6.5	2.8	3.0	6.9
Cycle Q Clear(g_c), s	13.3	1.1	6.5	2.8	9.4	6.9
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	351	318	2025	831	432	1993
V/C Ratio(X)	0.91	0.09	0.31	0.15	0.12	0.28
Avail Cap(c_a), veh/h	550	513	2047	840	437	2014
HCM Platoon Ratio	0.70	0.70	1.00	1.00	1.00	0.80
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.6	24.6	7.6	6.8	10.1	9.8
Incr Delay (d2), s/veh	13.7	0.1	0.4	0.4	0.6	0.3
Initial Q Delay(d3),s/veh	10.7	0.7	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.1	0.7	2.2	0.8	0.5	2.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	54.0	25.4	8.0	7.2	10.7	10.1
LnGrp LOS	D	C	A	A	B	B
Approach Vol, veh/h	349		763			604
Approach Delay, s/veh	51.6		7.9			10.2
Approach LOS	D		A			B
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	47.0		47.0		23.0	
Change Period (Y+Rc), s	6.0		6.0		6.0	
Max Green Setting (Gmax), s	32.0		32.0		26.0	
Max Q Clear Time (g_c+I1), s	8.5		11.4		16.3	
Green Ext Time (p_c), s	5.1		4.2		0.8	
Intersection Summary						
HCM 6th Ctrl Delay			17.6			
HCM 6th LOS			B			

# HCM 6th Signalized Intersection Summary

## 3: Cedar Swamp Road & 4th Street













2022 No-Build  
Weekday PM Peak Hour

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	218	29	771	243	72	621
Future Volume (veh/h)	218	29	771	243	72	621
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.97	0.99	
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	1870	1841	1885	1824	1900	1796
Adj Flow Rate, veh/h	232	31	820	259	77	661
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	4	1	0	0	7
Cap, veh/h	245	214	2323	969	374	2213
Arrive On Green	0.14	0.14	0.52	0.65	0.65	0.65
Sat Flow, veh/h	1781	1560	3676	1495	528	3503
Grp Volume(v), veh/h	232	31	820	259	77	661
Grp Sat Flow(s),veh/h/ln	1781	1560	1791	1495	528	1706
Q Serve(g_s), s	9.0	1.2	9.4	5.2	5.8	5.9
Cycle Q Clear(g_c), s	9.0	1.2	9.4	5.2	15.3	5.9
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	245	214	2323	969	374	2213
V/C Ratio(X)	0.95	0.14	0.35	0.27	0.21	0.30
Avail Cap(c_a), veh/h	585	513	2323	969	374	2213
HCM Platoon Ratio	1.00	1.00	0.80	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	29.9	26.6	8.2	5.2	9.7	5.4
Incr Delay (d2), s/veh	16.9	0.3	0.4	0.7	1.2	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	0.5	3.4	1.4	0.7	1.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	46.9	26.9	8.6	5.9	10.9	5.7
LnGrp LOS	D	C	A	A	B	A
Approach Vol, veh/h	263		1079			738
Approach Delay, s/veh	44.5		8.0			6.3
Approach LOS	D		A			A
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	51.4		51.4		18.6	
Change Period (Y+Rc), s	6.0		6.0		6.0	
Max Green Setting (Gmax), s	32.0		32.0		26.0	
Max Q Clear Time (g_c+I1), s	11.4		17.3		12.0	
Green Ext Time (p_c), s	6.9		4.8		0.6	
Intersection Summary						
HCM 6th Ctrl Delay			12.0			
HCM 6th LOS			B			

# HCM 6th Signalized Intersection Summary

## 3: Cedar Swamp Road & 4th Street

2022 Build  
Weekday AM Peak Hour













						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	309	25	573	109	45	467
Future Volume (veh/h)	309	25	573	109	45	467
Initial Q (Qb), veh	4	3	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.96	0.99	
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	1758	1841	1841	1767	1826	1811
Adj Flow Rate, veh/h	355	29	659	125	52	537
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	3	4	4	4	5	6
Cap, veh/h	386	350	1952	799	406	1921
Arrive On Green	0.16	0.16	0.56	0.56	0.56	0.45
Sat Flow, veh/h	1674	1560	3589	1432	665	3532
Grp Volume(v), veh/h	355	29	659	125	52	537
Grp Sat Flow(s),veh/h/ln	1674	1560	1749	1432	665	1721
Q Serve(g_s), s	14.7	1.1	7.1	2.9	3.2	6.9
Cycle Q Clear(g_c), s	14.7	1.1	7.1	2.9	10.3	6.9
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	386	350	1952	799	406	1921
V/C Ratio(X)	0.92	0.08	0.34	0.16	0.13	0.28
Avail Cap(c_a), veh/h	550	513	1972	808	410	1941
HCM Platoon Ratio	0.70	0.70	1.00	1.00	1.00	0.80
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.0	23.6	8.4	7.5	11.3	10.5
Incr Delay (d2), s/veh	16.4	0.1	0.5	0.4	0.7	0.4
Initial Q Delay(d3),s/veh	9.7	0.6	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.1	0.7	2.4	0.9	0.5	2.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	55.1	24.2	8.9	7.9	11.9	10.8
LnGrp LOS	E	C	A	A	B	B
Approach Vol, veh/h	384		784			589
Approach Delay, s/veh	52.7		8.8			10.9
Approach LOS	D		A			B
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	45.5		45.5		24.5	
Change Period (Y+Rc), s	6.0		6.0		6.0	
Max Green Setting (Gmax), s	32.0		32.0		26.0	
Max Q Clear Time (g_c+I1), s	9.1		12.3		17.7	
Green Ext Time (p_c), s	5.2		4.0		0.8	
Intersection Summary						
HCM 6th Ctrl Delay			19.1			
HCM 6th LOS			B			



# HCM 6th Signalized Intersection Summary




## 3: Cedar Swamp Road & 4th Street

2022 Build  
Weekday PM Peak Hour

						
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	243	29	786	243	72	609
Future Volume (veh/h)	243	29	786	243	72	609
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00	1.00		0.96	0.99	
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	1870	1841	1885	1824	1900	1796
Adj Flow Rate, veh/h	259	31	836	259	77	648
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	4	1	0	0	7
Cap, veh/h	317	278	2330	967	369	2220
Arrive On Green	0.18	0.18	0.52	0.65	0.65	0.65
Sat Flow, veh/h	1781	1560	3676	1488	519	3503
Grp Volume(v), veh/h	259	31	836	259	77	648
Grp Sat Flow(s),veh/h/ln	1781	1560	1791	1488	519	1706
Q Serve(g_s), s	9.8	1.2	9.6	5.2	5.9	5.7
Cycle Q Clear(g_c), s	9.8	1.2	9.6	5.2	15.6	5.7
Prop In Lane	1.00	1.00		1.00	1.00	
Lane Grp Cap(c), veh/h	317	278	2330	967	369	2220
V/C Ratio(X)	0.82	0.11	0.36	0.27	0.21	0.29
Avail Cap(c_a), veh/h	662	579	2330	967	369	2220
HCM Platoon Ratio	1.00	1.00	0.80	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	27.7	24.1	8.2	5.2	9.8	5.3
Incr Delay (d2), s/veh	5.1	0.2	0.4	0.7	1.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	0.4	3.4	1.4	0.7	1.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	32.8	24.3	8.6	5.9	11.0	5.6
LnGrp LOS	C	C	A	A	B	A
Approach Vol, veh/h	290		1095			725
Approach Delay, s/veh	31.9		8.0			6.2
Approach LOS	C		A			A
Timer - Assigned Phs	2		6		8	
Phs Duration (G+Y+Rc), s	51.5		51.5		18.5	
Change Period (Y+Rc), s	6.0		6.0		6.0	
Max Green Setting (Gmax), s	32.0		32.0		26.0	
Max Q Clear Time (g_c+I1), s	11.6		17.6		11.8	
Green Ext Time (p_c), s	7.0		4.6		0.7	
Intersection Summary						
HCM 6th Ctrl Delay			10.6			
HCM 6th LOS			B			

HCM 6th TWSC  
1: 4th Street & Site Driveway

2022 Build  
Weekday AM Peak Hour

Intersection						
Int Delay, s/veh	0.8					
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	154	294	18	0	40
Future Vol, veh/h	0	154	294	18	0	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	0	5	2	2	2	2
Mvmt Flow	0	177	338	21	0	46
Major/Minor	Major1	Major2		Minor2		
Conflicting Flow All	359	0	-	0	526	349
Stage 1	-	-	-	-	349	-
Stage 2	-	-	-	-	177	-
Critical Hdwy	4.1	-	-	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	2.2	-	-	-	3.518	3.318
Pot Cap-1 Maneuver	1211	-	-	-	512	694
Stage 1	-	-	-	-	714	-
Stage 2	-	-	-	-	854	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1211	-	-	-	512	694
Mov Cap-2 Maneuver	-	-	-	-	512	-
Stage 1	-	-	-	-	714	-
Stage 2	-	-	-	-	854	-
Approach	EB	WB		SB		
HCM Control Delay, s	0	0		10.6		
HCM LOS				B		
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	
Capacity (veh/h)	1211	-	-	-	694	
HCM Lane V/C Ratio	-	-	-	-	0.066	
HCM Control Delay (s)	0	-	-	-	10.6	
HCM Lane LOS	A	-	-	-	B	
HCM 95th %tile Q(veh)	0	-	-	-	0.2	

HCM 6th TWSC  
8: Cedar Swamp Road & Site Driveway

2022 Build  
Weekday AM Peak Hour




Intersection						
Int Delay, s/veh	0.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		↗	↕		↖	↕
Traffic Vol, veh/h	0	38	565	33	27	512
Future Vol, veh/h	0	38	565	33	27	512
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	-	-	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	0	0	4	0	0	6
Mvmt Flow	0	44	649	38	31	589
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	-	344	0	0	687	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	4.1	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	0	658	-	-	916	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	658	-	-	916	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	10.9	0	0.5			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	658	916	-	
HCM Lane V/C Ratio	-	-	0.066	0.034	-	
HCM Control Delay (s)	-	-	10.9	9.1	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.2	0.1	-	

HCM 6th TWSC  
1: 4th Street & Site Driveway

2022 Build  
Weekday PM Peak Hour

Intersection

Int Delay, s/veh 0.5

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	315	243	10	0	29
Future Vol, veh/h	0	315	243	10	0	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	3	0	0	0
Mvmt Flow	0	335	259	11	0	31

Major/Minor	Major1	Major2	Minor2
Conflicting Flow All	270	0	0 600 265
Stage 1	-	-	- - 265 -
Stage 2	-	-	- - 335 -
Critical Hdwy	4.1	-	- - 6.4 6.2
Critical Hdwy Stg 1	-	-	- - 5.4 -
Critical Hdwy Stg 2	-	-	- - 5.4 -
Follow-up Hdwy	2.2	-	- - 3.5 3.3
Pot Cap-1 Maneuver	1305	-	- - 467 779
Stage 1	-	-	- - 784 -
Stage 2	-	-	- - 729 -
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	1305	-	- - 467 779
Mov Cap-2 Maneuver	-	-	- - 467 -
Stage 1	-	-	- - 784 -
Stage 2	-	-	- - 729 -

Approach	EB	WB	SB
HCM Control Delay, s	0	0	9.8
HCM LOS			A

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1305	-	-	-	779
HCM Lane V/C Ratio	-	-	-	-	0.04
HCM Control Delay (s)	0	-	-	-	9.8
HCM Lane LOS	A	-	-	-	A
HCM 95th %tile Q(veh)	0	-	-	-	0.1

HCM 6th TWSC  
8: Cedar Swamp Road & Site Driveway

2022 Build  
Weekday PM Peak Hour

Intersection						
Int Delay, s/veh	0.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations		↗	↕		↖	↕
Traffic Vol, veh/h	0	31	786	29	24	681
Future Vol, veh/h	0	31	786	29	24	681
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	-	-	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	94	94	94	94	94	94
Heavy Vehicles, %	0	0	1	0	0	7
Mvmt Flow	0	33	836	31	26	724
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	-	434	0	0	867	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	4.1	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	0	576	-	-	785	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	576	-	-	785	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s	11.6	0	0.3			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	576	785	-	
HCM Lane V/C Ratio	-	-	0.057	0.033	-	
HCM Control Delay (s)	-	-	11.6	9.7	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.2	0.1	-	

**NYSDOT MOTOR VEHICLE COLLISION DATA**

Case Num	Case Year	County	Comp Muni	Muni Type	At Intersection	Comp X	Comp Y	Accd Date	Accd Time	Severity	Num Of Injuries	Num Serious Injuries	Num Of Fatalities
37697963	2018	NASSAU	Glen Cove	1	N	616386.4100	4523313.8000	12/28/2018	03:57pm	PROPERTY DAMAGE	0		0
37275410	2018	NASSAU	Glen Cove	1	Y	616464.3700	4523395.8600	02/18/2018	12:19pm	PROPERTY DAMAGE	0		0
37499164	2018	NASSAU	Glen Cove	1	N	616384.2284	4523328.8830	09/26/2018	04:35pm	PROPERTY DAMAGE	0		0
38290601	2019	NASSAU	Glen Cove	1	N	616390.9578	4523387.3157	11/18/2019	07:22am	PROPERTY DAMAGE	0		0
36198612	2016	NASSAU	Glen Cove	1	Y	616375.8300	4523385.4700	02/25/2016	10:51am	INJURY	1	0	0
37157838	2018	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	02/11/2018	03:06pm	PROPERTY DAMAGE AND INJURY	2	0	0
37297860	2018	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	05/23/2018	03:30pm	PROPERTY DAMAGE	0		0
37401525	2018	NASSAU	Glen Cove	1	N	616363.9965	4523464.5423	07/24/2018	06:30pm	PROPERTY DAMAGE	0		0
37124013	2018	NASSAU	Glen Cove	1	Y	616355.7400	4523526.1800	01/10/2018	08:11am	PROPERTY DAMAGE AND INJURY	1	0	0
36384265	2016	NASSAU	Glen Cove	1	Y	616355.7400	4523526.1800	09/02/2016	01:38pm	PROPERTY DAMAGE	0		0
37067610	2017	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	09/25/2017	02:39pm	INJURY	1	0	0
37762767	2018	NASSAU	Glen Cove	1	Y	616464.3700	4523395.8600	12/17/2018	07:22am	PROPERTY DAMAGE	0		0
36087500	2016	NASSAU	Glen Cove	1	Y	616355.7400	4523526.1800	01/18/2016	03:29pm	PROPERTY DAMAGE AND INJURY	2	0	0
37172257	2018	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	03/06/2018	05:00pm	NON-REPORTABLE	0		0
37955554	2019	NASSAU	Glen Cove	1	Y	616375.8300	4523385.4700	04/05/2019	11:40am	PROPERTY DAMAGE	0		0
37723723	2018	NASSAU	Glen Cove	1	Y	616375.8300	4523385.4700	11/14/2018	05:24pm	PROPERTY DAMAGE	0		0
38004370	2019	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	07/12/2019	06:42pm	PROPERTY DAMAGE AND INJURY	1	0	0
38127868	2019	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	07/21/2019	10:44am	PROPERTY DAMAGE	0		0
37104835	2017	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	11/20/2017	12:30pm	INJURY	1	0	0
36770823	2017	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	04/02/2017	10:58am	INJURY	1	0	0
37693482	2018	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	10/26/2018	08:00am	INJURY	1	0	0
37756316	2019	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	01/28/2019	11:03am	PROPERTY DAMAGE	0		0
37810937	2019	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	03/11/2019	09:07am	INJURY	1	0	0
38030522	2019	NASSAU	Glen Cove	1	Y	616355.7400	4523526.1800	07/21/2019	05:31pm	PROPERTY DAMAGE AND INJURY	1	0	0
36582869	2017	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	01/27/2017	01:05pm	NON-REPORTABLE	0		0
37367834	2018	NASSAU	Glen Cove	1	N	616364.5520	4523460.8308	04/23/2018	09:11pm	PROPERTY DAMAGE AND INJURY	2	0	0
37933330	2019	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	03/19/2019	11:41am	PROPERTY DAMAGE	0		0
36174822	2016	NASSAU	Glen Cove	1	N	616382.0467	4523343.9661	04/17/2016	10:40am	NON-REPORTABLE	0		0
37763080	2018	NASSAU	Glen Cove	1	Y	616375.8300	4523385.4700	12/02/2018	09:54pm	PROPERTY DAMAGE AND INJURY	2	0	0
37693477	2018	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	10/22/2018	01:58pm	PROPERTY DAMAGE AND INJURY	1	0	0
36652322	2017	NASSAU	Glen Cove	1	Y	616464.3700	4523395.8600	03/08/2017	08:43am	PROPERTY DAMAGE AND INJURY	2	0	0
36190835	2016	NASSAU	Glen Cove	1	Y	616375.8300	4523385.4700	03/23/2016	09:36pm	PROPERTY DAMAGE AND INJURY	2	0	0
37232532	2018	NASSAU	Glen Cove	1	Y	616355.7400	4523526.1800	01/26/2018	06:00pm	INJURY	1	0	0
37933220	2019	NASSAU	Glen Cove	1	Y	616355.7400	4523526.1800	03/10/2019	05:17am	PROPERTY DAMAGE AND INJURY	2	0	0
37415371	2018	NASSAU	Glen Cove	1	Y	616386.4100	4523313.8000	08/04/2018	07:08pm	PROPERTY DAMAGE	0		0
37467533	2018	NASSAU	Glen Cove	1	N	616363.8121	4523465.7748	05/24/2018	11:57am	PROPERTY DAMAGE	0		0

Num Of Vehicles	Accd Type	Collision Type	Traffic Control	Light Condition	Weather	Road Surf Cond	Ped Loc
1	COLLISION WITH CURBING	COLLISION WITH CURBING	NONE	DAYLIGHT	RAIN	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	COLLISION WITH PARKED VEHICLE	NONE	DARK-ROAD LIGHTED	SNOW	SNOW/ICE	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	COLLISION WITH PARKED VEHICLE	NONE	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	REAR END	TRAFFIC SIGNAL	DAYLIGHT	RAIN	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	REAR END	TRAFFIC SIGNAL	DAYLIGHT	CLOUDY	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	LEFT TURN (AGAINST OTHER CAR)	TRAFFIC SIGNAL	DAYLIGHT	RAIN	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	OVERTAKING	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	OVERTAKING	NONE	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	LEFT TURN (AGAINST OTHER CAR)	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	LEFT TURN (AGAINST OTHER CAR)	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
1	COLLISION WITH PEDESTRIAN	COLLISION WITH PEDESTRIAN	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	PED/BICYCLIST AT INTERSECTION
1	COLLISION WITH SIGN POST	COLLISION WITH SIGN POST	NONE	DAYLIGHT	CLEAR	WET	NOT APPLICABLE
3	COLLISION WITH MOTOR VEHICLE	LEFT TURN (AGAINST OTHER CAR)	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	OVERTAKING	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	REAR END	TRAFFIC SIGNAL	DAYLIGHT	SLEET/HAIL/FREEZING RAIN	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	LEFT TURN (AGAINST OTHER CAR)	TRAFFIC SIGNAL	DARK-ROAD LIGHTED	CLEAR	DRY	NOT APPLICABLE
3	COLLISION WITH MOTOR VEHICLE	REAR END	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	LEFT TURN (AGAINST OTHER CAR)	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
1	COLLISION WITH PEDESTRIAN	COLLISION WITH PEDESTRIAN	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	PED/BICYCLIST AT INTERSECTION
4	COLLISION WITH MOTOR VEHICLE	RIGHT ANGLE	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
1	COLLISION WITH PEDESTRIAN	COLLISION WITH PEDESTRIAN	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	PED/BICYCLIST AT INTERSECTION
2	COLLISION WITH MOTOR VEHICLE	RIGHT TURN	TRAFFIC SIGNAL	DAYLIGHT	CLOUDY	DRY	NOT APPLICABLE
1	COLLISION WITH PEDESTRIAN	COLLISION WITH PEDESTRIAN	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	PED/BICYCLIST NOT AT INTERSECTION
2	COLLISION WITH MOTOR VEHICLE	OVERTAKING	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	OVERTAKING	TRAFFIC SIGNAL	DAYLIGHT	CLOUDY	DRY	NOT APPLICABLE
1	COLLISION WITH CURBING	COLLISION WITH CURBING	NONE	DARK-ROAD LIGHTED	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	LEFT TURN (WITH OTHER CAR)	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	OVERTAKING	NONE	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	RIGHT ANGLE	TRAFFIC SIGNAL	DARK-ROAD LIGHTED	RAIN	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	RIGHT ANGLE	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	RIGHT ANGLE	NONE	DAYLIGHT	CLOUDY	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	LEFT TURN (WITH OTHER CAR)	TRAFFIC SIGNAL	DARK-ROAD LIGHTED	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	REAR END	TRAFFIC SIGNAL	DUSK	CLEAR	DRY	NOT APPLICABLE
1	COLL. W/LIGHT SUPPORT/UTILITY POLE	COLLISION WITH SIGN POST	TRAFFIC SIGNAL	DARK-ROAD LIGHTED	SLEET/HAIL/FREEZING RAIN	WET	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	REAR END	TRAFFIC SIGNAL	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE
2	COLLISION WITH MOTOR VEHICLE	OVERTAKING	NONE	DAYLIGHT	CLEAR	DRY	NOT APPLICABLE



Ped Action	Veh Type Veh 1	Veh Type Veh 2	Dir Of Travel Veh 1	Dir Of Travel Veh 2	Apparent Factor Veh 1	Apparent Factor Veh 2	Driver Age Veh 1	Driver Age Veh 2
NOT APPLICABLE	CAR/VAN/PICKUP		EAST		PAVEMENT SLIPPERY		18	
NOT APPLICABLE	OTHER	CAR/VAN/PICKUP	UNKNOWN	NORTH	UNKNOWN	NOT APPLICABLE		
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH	WEST	BACKING UNSAFELY	NOT APPLICABLE	52	
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	WEST	WEST	FOLLOWING TOO CLOSELY	NOT ENTERED	52	49
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH	SOUTH	FOLLOWING TOO CLOSELY	NOT APPLICABLE	88	33
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH-WEST	SOUTH	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	96	24
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH	NORTH	PASSING OR LANE USAGE IMPROPERLY	NOT APPLICABLE	23	
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH	NORTH	UNSAFE LANE CHANGE	NOT APPLICABLE	51	61
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH	EAST	TRAFFIC CONTROL DEVICES DISREGARDED	NOT APPLICABLE	56	24
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH-EAST	SOUTH	NOT ENTERED	TRAFFIC CONTROL DEVICES DISREGARDED	86	20
CROSSING WITH SIGNAL	CAR/VAN/PICKUP	PEDESTRIAN	EAST	NOT APPLICABLE	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	40	25
NOT APPLICABLE	CAR/VAN/PICKUP		WEST		PAVEMENT SLIPPERY		47	
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	WEST	SOUTH	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	64	36
NOT APPLICABLE	TRUCK	CAR/VAN/PICKUP	NORTH	NORTH	PASSING OR LANE USAGE IMPROPERLY	NOT APPLICABLE	27	
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	WEST	WEST	FOLLOWING TOO CLOSELY	NOT ENTERED	80	60
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH-EAST	NORTH	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	22	67
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH	SOUTH	DRIVER INATTENTION	NOT ENTERED	22	52
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	EAST	WEST	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	17	49
CROSSING WITH SIGNAL	CAR/VAN/PICKUP	PEDESTRIAN	NORTH-EAST	NOT APPLICABLE	DRIVER INATTENTION	NOT APPLICABLE	38	54
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	EAST	SOUTH	NOT ENTERED	TRAFFIC CONTROL DEVICES DISREGARDED	45	61
CROSSING WITH SIGNAL	CAR/VAN/PICKUP	PEDESTRIAN	NORTH-EAST	NOT APPLICABLE	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	59	23
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH-EAST	SOUTH	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	21	73
CROSSING AGAINST SIGNAL	CAR/VAN/PICKUP	PEDESTRIAN	NORTH-EAST	NOT APPLICABLE	DRIVER INATTENTION	NOT APPLICABLE	62	42
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	EAST	EAST	PASSING OR LANE USAGE IMPROPERLY	NOT ENTERED	27	44
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH	NORTH	PASSING OR LANE USAGE IMPROPERLY	NOT APPLICABLE	64	28
NOT APPLICABLE	CAR/VAN/PICKUP		NORTH		LOST CONSCIOUSNESS		37	
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	EAST	SOUTH	TRAFFIC CONTROL DEVICES DISREGARDED	NOT APPLICABLE	28	55
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH-EAST	NORTH-EAST	NOT APPLICABLE	PASSING OR LANE USAGE IMPROPERLY	24	
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH-WEST	NORTH	TRAFFIC CONTROL DEVICES DISREGARDED	NOT APPLICABLE	18	45
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	EAST	NORTH	FAILURE TO YIELD RIGHT OF WAY	NOT APPLICABLE	23	54
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	WEST	SOUTH	UNSAFE SPEED	FAILURE TO YIELD RIGHT OF WAY	44	28
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH	SOUTH-WEST	TRAFFIC CONTROL DEVICES DISREGARDED	NOT APPLICABLE	17	59
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	SOUTH	SOUTH	UNSAFE SPEED	UNSAFE LANE CHANGE	44	24
NOT APPLICABLE	CAR/VAN/PICKUP		SOUTH		ALCOHOL INVOLVEMENT		25	
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH	NORTH	FOLLOWING TOO CLOSELY	NOT APPLICABLE	23	38
NOT APPLICABLE	CAR/VAN/PICKUP	CAR/VAN/PICKUP	NORTH	NORTH	FAILURE TO YIELD RIGHT OF WAY	NOT ENTERED	38	58

PRE_ACCD_ACTN_VEH1	PRE_ACCD_ACTN_VEH2	Day_Of_Week	On Street	Closest Cross Street	Parking Lot Ind
MAKING LEFT TURN		Fri	SEA CLIFF AVE	Cedar Swamp Rd	N
UNKNOWN	PARKED	Sun	GABRIEL PL	4TH ST	N
BACKING	PARKED	Wed	CEDAR SWAMP RD	SEA CLIFF AVE	N
SLOWED OR STOPPING	STOPPED IN TRAFFIC	Mon	4TH ST	CEDAR SWAMP RD	N
SLOWED OR STOPPING	MAKING LEFT TURN	Thu	CEDAR SWAMP RD	4TH ST	N
MAKING LEFT TURN	GOING STRAIGHT AHEAD	Sun	CEDAR SWAMP RD	SEA CLIFF AVE	N
GOING STRAIGHT AHEAD	PARKED	Wed	CEDAR SWAMP RD	SEA CLIFF AVE	N
CHANGING LANES	GOING STRAIGHT AHEAD	Tue	CEDAR SWAMP RD	Carney St	N
GOING STRAIGHT AHEAD	MAKING LEFT TURN	Wed	CEDAR SWAMP RD	CARNEY ST	N
MAKING LEFT TURN	GOING STRAIGHT AHEAD	Fri	CEDAR SWAMP RD	CARNEY ST	N
MAKING RIGHT TURN ON RED	NOT APPLICABLE	Mon	CEDAR SWAMP RD	SEA CLIFF AVE	N
SLOWED OR STOPPING		Mon	4TH ST	GABRIEL PL	N
GOING STRAIGHT AHEAD	GOING STRAIGHT AHEAD	Mon	CEDAR SWAMP RD	CARNEY ST	N
GOING STRAIGHT AHEAD	PARKED	Tue	CEDAR SWAMP RD	SEA CLIFF AVE	N
SLOWED OR STOPPING	STOPPED IN TRAFFIC	Fri	4TH ST	CEDAR SWAMP RD	N
MAKING LEFT TURN	GOING STRAIGHT AHEAD	Wed	CEDAR SWAMP RD	4TH ST	N
GOING STRAIGHT AHEAD	STOPPED IN TRAFFIC	Fri	CEDAR SWAMP RD	SEA CLIFF AVE	N
MAKING LEFT TURN	GOING STRAIGHT AHEAD	Sun	CEDAR SWAMP RD	SEA CLIFF AVE	N
MAKING LEFT TURN	NOT APPLICABLE	Mon	SEA CLIFF AVE	CEDAR SWAMP RD	N
MAKING LEFT TURN	GOING STRAIGHT AHEAD	Sun	CEDAR SWAMP RD	SEA CLIFF AVE	N
MAKING LEFT TURN	NOT APPLICABLE	Fri	CEDAR SWAMP RD	SEA CLIFF AVE	N
MAKING RIGHT TURN	GOING STRAIGHT AHEAD	Mon	CEDAR SWAMP RD	SEA CLIFF AVE	N
MAKING LEFT TURN	NOT APPLICABLE	Mon	CEDAR SWAMP RD	SEA CLIFF AVE	N
OVERTAKING	MAKING LEFT TURN	Sun	CARNEY ST	CEDAR SWAMP RD	N
MAKING U TURN	ENTERING PARKED POSITION	Fri	CEDAR SWAMP RD	SEA CLIFF AVE	N
GOING STRAIGHT AHEAD		Mon	CEDAR SWAMP RD	Carney St	N
MAKING LEFT TURN	GOING STRAIGHT AHEAD	Tue	CEDAR SWAMP RD	SEA CLIFF AVE	N
GOING STRAIGHT AHEAD	GOING STRAIGHT AHEAD	Sun	CEDAR SWAMP RD	SEA CLIFF AVE	N
MAKING LEFT TURN	GOING STRAIGHT AHEAD	Sun	CEDAR SWAMP RD	4TH ST	N
GOING STRAIGHT AHEAD	GOING STRAIGHT AHEAD	Mon	CEDAR SWAMP RD	SEA CLIFF AVE	N
GOING STRAIGHT AHEAD	MAKING LEFT TURN	Wed	4TH ST	GABRIEL PL	N
GOING STRAIGHT AHEAD	MAKING LEFT TURN	Wed	CEDAR SWAMP RD	4TH ST	N
GOING STRAIGHT AHEAD	SLOWED OR STOPPING	Fri	CEDAR SWAMP RD	CARNEY ST	N
GOING STRAIGHT AHEAD		Sun	CEDAR SWAMP RD	CARNEY ST	N
GOING STRAIGHT AHEAD	SLOWED OR STOPPING	Sat	CEDAR SWAMP RD	SEA CLIFF AVE	N
STARTING FROM PARKING	GOING STRAIGHT AHEAD	Thu	CEDAR SWAMP RD	CARNEY ST	N