

100 CLINTON AVENUE

TRAFFIC STUDY

Prepared for: Carmel Partners

Client Ref: 141.21074.00001

December 2022





September 26, 2022 **(Revised December 6, 2022)**

Mr. Todd Christensen
Carmel Partners
1330 Connecticut Avenue NW, Suite 320
Washington, DC 20036

**Re: Traffic Impact Study
100 Clinton Avenue Development
Stamford, Connecticut
SLR #141.21074.00001**

Dear Mr. Christensen,

At your request, SLR International Corporation (SLR) has undertaken this study to evaluate the traffic-related implications associated with the proposed development to be located at 100 Clinton Avenue in Stamford, Connecticut. The site consists of two properties that are bisected by Clinton Avenue. Block A is located on the east side of Clinton Avenue, and Block B is located on the west side. **Figure 1** displays the site location map. The proposed project plans to develop the two parcels on either side of Clinton Avenue, between Division Street and Richmond Hill Avenue, with two multifamily residential buildings, totaling 471 units. Access to the parking garages will be provided off Clinton Avenue, between Division Street and Richmond Hill Avenue.

The work comprising the study consisted of several tasks, including data collection, review of roadway and traffic conditions, estimation of site-generated traffic volumes, and assessment of future traffic operations. For this study, the following intersections were evaluated:

1. Greenwich Avenue at Tresser Boulevard (US Route 1)
2. Greenwich Avenue at Richmond Hill Avenue
3. **Greenwich Avenue at South State Street**
4. Clinton Avenue at Tresser Boulevard (US Route 1)
5. Clinton Avenue at Division Street
6. Clinton Avenue at Richmond Hill Avenue
7. Washington Boulevard at Tresser Boulevard (US Route 1)
8. Washington Boulevard at Division Street
9. Washington Boulevard at Richmond Hill Avenue
10. Washington Boulevard at North State Street and the I-95 westbound on ramp

Please note that we have also prepared a Transportation Demand Management Plan (TDMP)/Parking Management Plan (PMP) for this development under a separate cover.

EXECUTIVE SUMMARY

Based on the results of this traffic study, it is our opinion that the changes in traffic patterns resulting from the proposed development will be minimal and can be accommodated by the surrounding roadway system. Therefore, no offsite mitigation to the surrounding roadway system is required.

EXISTING CONDITIONS

Existing data and information on adjacent/nearby vehicle traffic volumes, transit, and crash history were collected to determine the existing conditions of the area around the proposed development.

Site Environs

Clinton Avenue is a local roadway that runs north/south from Main Street to Richmond Hill Avenue. Clinton Avenue generally has one lane in each direction with on-street parking permitted on the west side and sidewalks on both sides of the roadway.

Richmond Hill Avenue is a local roadway that runs east/west from West Main Street (US Route 1) to Washington Boulevard. Within the vicinity of the site, Richmond Hill Avenue generally has one lane in each direction and widens to provide turn lanes at Washington Boulevard. On-street parking is generally not permitted directly near the site, and sidewalks are present on both sides of the roadway.

Division Street is a local roadway that runs east/west from Clinton Avenue to Washington Boulevard. Division Street generally has one lane in each direction with on-street parking and sidewalks on both sides of the roadway.

Washington Boulevard is a principal arterial that runs north/south through Stamford from Cold Spring Road to Atlantic Street. Within the vicinity of the project site, Washington Boulevard generally has two lanes in each direction and widens to provide turn lanes at the signalized intersections. On-street parking is not permitted near the site south of Tresser Boulevard, and sidewalks are present on both sides of the roadway.

Tresser Boulevard (US Route 1) is a principal arterial that runs east/west through the City of Stamford, parallel to Interstate 95 (I-95). Within the vicinity of the site, Tresser Boulevard has three lanes in each direction and widens to provide turn lanes at the signalized intersections. On-street parking is not permitted, and sidewalks are present on both sides of the roadway.

Greenwich Avenue is a minor arterial that runs north/south along the west side of the Rippowam River from Tresser Boulevard (US Route 1), where it transitions to West Main Street, to Selleck Street, where it transitions to Southfield Avenue. Within the vicinity of the project site, Greenwich Avenue generally has

one lane in each direction and widens to provide turn lanes at key intersections. On-street parking is permitted within some areas, sidewalks are present on both sides of the roadway, and sharrows are painted on both travel lanes.

Existing Transit Routes

CTtransit is Connecticut Department of Transportation's (CTDOT) bus service, connecting with other services in Norwalk, the Metro-North Railroad New Haven Line, Amtrak service, the Metro-North Harlem Line, and with Bee-Line buses in Westchester County, New York. CTtransit Stamford bus routes 311, 312, 313, 321, 324, 328, 331, 333, 334, 335, 336, 341, 342, 344, and 345 have stops near the site along one or more of the following locations: Greenwich Avenue, Washington Boulevard, Tresser Boulevard (US Route 1), Clinton Avenue, Richmond Hill Avenue, and Division Street. The proposed redevelopment is also within walking distance (approximately 0.25 miles) from the Stamford Transportation Center, which provides access to both Metro-North Railroad and Amtrak services.

Crash Data Summary

Information on traffic crash statistics for the study intersections were obtained from the Connecticut Crash Data Repository for the roughly 3-year period of January 1, 2019, to September 7, 2022. The crash data collected for this period, shown in Table 1, is summarized by location.

A total of 223 crashes were reported at the study intersections during the roughly 3-year period. More than 70 percent of the total crashes resulted in property damage only. Approximately 14 percent of the total crashes resulted in suspected minor injuries, and approximately 11 percent resulted in possible injuries. One fatality was reported. According to the Connecticut Crash Data Repository, the fatality occurred at the intersection of Washington Boulevard and Tresser Boulevard (US Route 1) on November 13, 2019. The vehicle was traveling straight across the intersection when the pedestrian crossed the roadway at the marked crosswalk. The pedestrian failed to follow the pedestrian signal and was hit by the vehicle and killed. There were no other contributing circumstances documented. We also understand there was a second fatal crash, a hit-and-run, involving a pedestrian that occurred at the intersection of Washington Boulevard and Tresser Boulevard (US Route 1) in April 2021 that has apparently not yet made it into the Connecticut Crash Data Repository.

The most common collision type was rear-end collisions, comprising approximately 40 percent of reported crashes, followed by angle collisions at approximately 26 percent, and sideswipe (same direction) collisions at 19 percent of reported crashes. Nine pedestrian-related collisions were reported in the Connecticut Crash Data Repository: two at the intersection of Clinton Avenue and Tresser Boulevard (US Route 1), one at the intersection of Washington Boulevard and Tresser Boulevard (US Route 1), four at the intersection of Washington Boulevard and Richmond Hill Avenue, and two at the intersection of Washington Boulevard and North State Street. According to the Repository, in half of the collisions, the drivers failed to yield to the pedestrian when turning. In the other half of the collisions, the pedestrians failed to obey the traffic

signs or signals. One pedestrian was under the influence of medications, drug, or alcohol. No bicycle-related collisions were reported.

Table 1 Crash Data Summary

	Location	Crash Severity					Type of Collision													Total
		Property Damage Only	Possible Injury	Suspected Minor Injury	Suspected Serious Injury	Fatal Injury	Rear End	Angle	Sideswipe (Same Direction)	Hit Pedestrian	Hit Fixed Object	Head On	Sideswipe (Opposite Direction)	Overturn/Rollover	Fell/Jumped From Vehicle	Hit Curb	Hit Non-Fixed Object	Hit Tree	Other	
1	Greenwich Ave @ Tresser Blvd	20	2	5	1	-	6	13	4	-	1	-	-	1	1	-	-	-	2	28
2	Greenwich Ave @ Richmond Hill Ave	14	3	8	1	-	11	10	3	-	-	1	1	-	-	-	-	-	-	26
3	Greenwich Ave @ S State St	17	1	2	-	-	6	3	8	-	2	1	-	-	-	-	-	-	-	20
4	Clinton Ave @ Tresser Blvd	10	2	5	-	-	6	3	3	2	-	-	-	1	-	-	1	-	1	17
6	Clinton Ave @ Richmond Hill Ave	2	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	3
7	Washington Blvd @ Tresser Blvd	42	4	4	1	1	27	8	11	1	1	-	-	-	1	1	-	-	2	52
8	Washington Blvd @ Division St	7	1	-	-	-	4	-	2	-	1	-	-	-	-	-	-	-	1	8
9	Washington Blvd @ Richmond Hill Ave	15	2	3	2	-	5	6	5	4	2	-	-	-	-	-	-	-	-	22
10	Washington Blvd @ N State St	34	8	4	1	-	23	13	6	2	1	1	1	-	-	-	-	-	-	47
Intersection Totals		161	24	31	6	1	88	57	43	9	8	3	2	2	2	1	1	1	6	223

Source: Connecticut Crash Data Repository from January 1, 2019, to September 7, 2022.

Existing Traffic Volumes

Traffic monitoring data from August 2020 (collected during the COVID-19 epoch) for Greenwich Avenue south of US Route 1, Washington Boulevard south of US Route 1, and Tresser Boulevard west of Route 137 was obtained from CTDOT. The annualized average daily traffic (AADT) on Greenwich Avenue was recorded as 6,800 vehicles (3,800 northbound and 3,000 southbound). The AADT on Washington Boulevard was

recorded as 13,200 vehicles (6,000 northbound and 7,200 southbound). The AADT on Tresser Boulevard was recorded as 12,500 vehicles (6,400 northbound and 6,100 southbound).

At the time of this report, the intersection of South State Street at Greenwich Avenue was closed for the construction of the Stamford Station Parking Garage and traffic was detoured down to Richmond Hill Avenue. Because of this, multimodal traffic counts could not be conducted, and instead, 2022 balanced volumes obtained from CTDOT for the ongoing I-95 Exits 7-9 PEL Study were used at the study intersections along Greenwich Avenue and Washington Boulevard. For the study intersections on Clinton Avenue, counts conducted in March 2016 were adjusted using the 2022 balanced volumes at the adjacent intersections. The Baseline (2022) Conditions peak-hour traffic volumes were approved by CTDOT Bureau of Policy and Planning. The Baseline (2022) Conditions peak-hour traffic volumes are shown in **Figure 2**.

It is important to note that the intersection counts provided by CTDOT did not include pedestrian volumes, however, pedestrians were accounted for in the intersection capacity analysis. At every signalized intersection on Washington Boulevard, 30 pedestrian calls per hour were assumed for each pedestrian phase and for all other signalized intersections, 10 pedestrian calls per hour were assumed.

PROPOSED DEVELOPMENT

As stated previously, the proposed project plans to develop two multifamily residential buildings on either side of Clinton Avenue, totaling 471 units. Parking is proposed under each building. Access to the parking will be provided off Clinton Avenue, between Division Street and Richmond Hill Avenue.

Proposed Development Trip Generation

The proposed site-generated peak-hour trips were estimated using statistical data published by the Institute of Transportation Engineers (ITE).¹ **Table 2** summarizes the site-generated traffic estimates for the proposed development during the study peak hours.

The statistical data published by ITE is largely based on areas without the public transportation attributes and access to the train station of Stamford. The proposed redevelopment is approximately 0.25 miles from the Stamford Transportation Center. Given the proposed development's location within downtown Stamford and its proximity to the Stamford Transportation Center, and based on correspondence with CTDOT, a 20 percent Transit Oriented Development (TOD) reduction was applied to the site-generated traffic estimates. Because TODs reduce the need for residents and visitors to drive, TOD housing typically produces considerably less vehicle traffic than what is generated by conventional housing developments.

¹ *Trip Generation, 11th Edition*, Institute of Transportation Engineers, 2021

Table 2 Proposed Development Vehicle Traffic Estimates

Land Use	Units	A.M. Peak Hour				P.M. Peak Hour			
		Trip Rate	In	Out	Total	Trip Rate	In	Out	Total
<i>Proposed Development</i>									
ITE Land Use 221 – Multifamily Housing (Mid-Rise)	471 DU	0.37/DU	40	134	174	0.39/DU	112	72	184
<i>TOD Reduction (-20%)</i>	-	-	-8	-27	-35	-	-22	-14	-36
<i>Estimated Total</i>	-	-	32	107	139	-	90	58	148

Notes:

1. *Trip Generation*, 11th Edition, Institute of Transportation Engineers
2. DU = Dwelling Units

As shown in Table 2, the proposed development is estimated to generate around 139 new vehicle trips (32 vehicles entering and 107 vehicles exiting) during the morning peak hour and 148 new vehicle trips (90 vehicles entering and 58 vehicles exiting) during the afternoon peak hour.

Proposed Development Trip Distribution and Trip Assignment

The geographic distribution of the proposed development site-generated traffic was estimated based on review of the roadway traffic patterns in the vicinity of the site as well as review of census commuting data. **Figure 3** illustrates the distribution for the proposed redevelopment site-generated traffic through the study area.

Based on the proposed redevelopment trip generation and trip distribution, the proposed site-generated trips were assigned to the study area intersections. **Figure 4** displays the resulting proposed redevelopment trip assignment.

FUTURE (2025) CONDITIONS

The proposed development is anticipated to be completed by 2025. Future (2025) Conditions were evaluated with the proposed development site vacant and with the proposed residential development completed to determine possible traffic impacts.

Background Traffic Volumes

The background traffic scenario is reflective of Future (2025) Conditions if the proposed development was not built. Background (2025) Conditions also include traffic associated with other nearby expected upcoming developments as well as general traffic growth.

Based on correspondence with the City of Stamford, CTDOT, and based on our knowledge of proposed and pending developments in the area, the following development projects were included in Background (2025) Conditions. They are as follows:

1. Stamford Station Parking Garage (State Street Garage)
2. 406 Washington Boulevard – Gateway Tower Expansion
3. 885 Washington Boulevard – The Smyth
4. 245 Atlantic Street – True North
5. 677 Washington Boulevard
6. 154 Broad Street

Figure 5 displays the locations of the nearby planned developments. The anticipated future site-generated peak-hour trips from each planned development were obtained from their respective traffic studies and/or OSTA applications. Information on the nearby planned developments is included in the Appendix. The resulting total trip assignment from the nearby planned developments is shown in **Figure 6**.

There were also a few other development projects in the area that were identified by the City of Stamford but not by CTDOT. These were deemed relatively insignificant in relation to our study area, and any of their new traffic can be considered accounted for within the ambient traffic growth rate for the area at the advice of CTDOT. Based on correspondence with CTDOT, the existing traffic volumes were projected to Future (2025) Conditions using a growth rate of 0.7 percent per year. Background (2025) Conditions peak-hour traffic volumes were estimated by applying the growth rate to the Baseline (2022) Conditions peak-hour traffic volumes (shown in Figure 2) and then adding the anticipated peak-hour total trip assignment from the nearby planned developments (shown in Figure 6). The resultant Background (2025) Conditions peak-hour traffic volumes are shown in **Figure 7**. The Background (2025) Conditions peak-hour traffic volumes were approved by CTDOT Bureau of Policy and Planning.

Combined Traffic Volumes

The combined traffic scenario is reflective of Future (2025) Conditions once the proposed development is completed. Combined (2025) Conditions peak-hour traffic volumes were estimated by adding the proposed development trip assignment (shown in Figure 4) to the Background (2025) Conditions peak-hour traffic volumes (shown in Figure 7). The resultant Combined (2025) Conditions peak-hour traffic volumes are shown in **Figure 8**.

INTERSECTION CAPACITY ANALYSIS

Intersection capacity analysis was performed at the study intersections under Background and Combined (2025) Conditions to evaluate each intersection's ability to process traffic volumes. These evaluations were used to determine possible traffic impacts from the proposed development based on the comparison of background and combined traffic operations.

Intersection operation results are expressed as a level of service (LOS). LOS is used to provide a qualitative evaluation of the efficiency of operations of an intersection in terms of delay and inconvenience based on certain quantitative calculations. A description of the various LOS designations, A through F, is given in the Appendix. The study intersections were evaluated using *Synchro 11 (Trafficware)* traffic analysis software package. **Table 3** summarizes the capacity analysis findings under Background and Combined (2025) Conditions. The full level of service table and the *Synchro* analysis worksheets are included in the Appendix.

Table 3 Capacity Analysis Summary - Future (2025) Conditions

Intersection/Lane Group	Overall Level of Service			
	A.M. Peak Hour		P.M. Peak Hour	
	Background	Combined	Background	Combined
Signalized				
1. Greenwich Avenue at Tresser Boulevard (US Route 1)	C	C	C	C
2. Greenwich Avenue at Richmond Hill Avenue	D	D	D	D
3. Greenwich Avenue at South State Street	C	C	D	D
4. Clinton Avenue at Tresser Boulevard (US Route 1)	C	C	B	B
6. Clinton Avenue at Richmond Hill Avenue	C	C	B	C
7. Washington Boulevard at Tresser Boulevard (US Route 1)	D	D	D	D
8. Washington Boulevard at Division Street	A	A	A	A
9. Washington Boulevard at Richmond Hill Avenue	B	B	C	C
10. Washington Boulevard at North State Street/I-95 Westbound On Ramp	C	C	B	B
Unsignalized				
5. Clinton Avenue at Division Street				
Westbound Left/Right	B	B	A	B
Southbound Left	A	A	A	A
11. Clinton Avenue at Proposed Parking Garage Access				
Northbound Left		A		A
Eastbound Left/Through/Right		B		B
Westbound left/Through/Right		B		B
Southbound Left		A		A

Notes: LOS calculations were performed using *Synchro 11*.

It is important to note that LOS A to LOS D are generally considered acceptable conditions. However, in some areas, LOS E during peak hours is often deemed acceptable and can indicate an efficient tradeoff between traffic flow and the amount of land devoted to the movement of motor vehicles.

As shown in Table 3, the study intersections are expected to operate at acceptable overall LOS (LOS D or better) during both peak hours under Background and Combined (2025) Conditions. Additionally, the proposed parking garage access is expected to operate at acceptable conditions (LOS B or better) during both peak hours under Combined (2025) Conditions.

QUEUE ANALYSIS

The study intersection queues were also evaluated using *Synchro 11 (Trafficware)* traffic analysis software package. For analysis, the average and 95th percentile queues are recorded. The *Synchro* analysis worksheets are included in the Appendix.

All study intersections are not expected to experience any significant increases in queues resulting from the proposed development. Additionally, all approach lanes within close proximity to the proposed development are expected to provide adequate storage length under Background and Combined (2025) Conditions during both peak periods.

MULTI-WAY STOP APPLICATION

The *Manual on Uniform Traffic Control Devices (MUTCD)* lists four criteria that should be considered with an engineering study for a multi-way STOP sign installation. After reviewing all criteria listed in Section 2B.07, it is not recommended to install a multi-way stop at the intersection of Clinton Avenue at Division Street. Only three crashes have been reported in the last five years and none have been recorded in the last three years. The intersection does not meet the minimum combined vehicular, pedestrian, and bicycle volume from the minor street approach criteria. Additionally, the average delay to the minor street vehicular traffic during the peak hours is considerably less than 30 seconds per vehicle. The westbound approach is expected to operate at a LOS B or better during both peak hours under Background and Combined (2025) Conditions.

INTERSECTION SIGHT DISTANCE

Intersection sight distance was measured at the proposed parking garage driveways. Intersection sight distance is determined through the creation of clear sight triangles. Each quadrant of the intersection should contain a triangular area free of obstructions. For the proposed garage driveways, and for vehicles on Clinton Avenue approaching each driveway, the length of the legs of the triangles should be long enough such that the driver can see any potentially conflicting vehicles departing the proposed garage driveways in sufficient time to slow or stop before colliding. For vehicles departing from the proposed garage driveways, the length of the legs of the triangles should be sufficient for a stopped driver to depart each driveway and turn onto Clinton Avenue safely.

Intersection sight distance was measured in accordance with criteria set forth in the 2003 CTDOT *Highway Design Manual*. For a speed of 25 miles per hour (mph), 280 feet of intersection sight distance is required. Looking north towards Division Street when exiting each driveway, a driver can see more than the 280 feet required for a speed of 25 mph. Looking south towards Richmond Hill Avenue, the required sight line extends into the signalized intersection of Clinton Avenue and Richmond Hill Avenue. At a conventional intersection, left-turning vehicles typically travel at a speed of 15 mph and right-turning vehicles typically travel at a speed of 9 mph. For a speed of 15 mph, approximately 165 feet of intersection sight distance is required. For a speed of 9 mph, approximately 100 feet of intersection sight distance is required. Looking south towards Richmond Hill Road when exiting each driveway, a driver can see more than the 165 feet required for a speed of 15 mph at the eastbound approach, more than the 100 feet required for a speed of 9 mph at the westbound approach, and more than the 280 feet required for a speed of 25 mph at the northbound approach at the signalized intersection of Clinton Avenue and Richmond Hill Avenue.

All vegetation within the clear sight triangles at the parking garage driveways must be kept trimmed, especially during the spring and summer, to ensure that sufficient intersection sight distance is provided throughout the year. On-street parking is currently permitted on the west side of Clinton Avenue. It is recommended to establish a no-parking zone along the west side of Clinton Avenue from approximately 50 feet north of the proposed garage driveway to Richmond Hill Avenue to improve the sight lines at the driveway.

Additionally, upon review of the study area, the vegetation within the median at Gateway Commons (the westbound approach at the intersection of Washington Boulevard and Richmond Hill Avenue) is very tall and restricts the sight distance of vehicles and more importantly pedestrians crossing the intersection. This vegetation should get trimmed to maintain the required sight distance at the intersection.

SUMMARY

This study was conducted to assess the traffic impacts of the proposed development to be located at 100 Clinton Avenue in Stamford. The proposed project plans to develop two multifamily residential buildings on either side of Clinton Avenue, totaling 471 units. Parking is proposed under each building. Access to the parking will be provided off Clinton Avenue, between Division Street and Richmond Hill Avenue.

To determine a profile of existing conditions, data assembly efforts were undertaken. Estimates of traffic that will be generated by the proposed development was developed based on statistical data published by ITE; and intersection capacity analysis and queue analysis were performed at the study intersections under Background and Combined (2025) Conditions.

With the proposed development, all study intersections are expected to operate at acceptable overall LOS during both peak periods. Additionally, all study intersections are not expected to experience any significant increases in queues with the proposed development. Based on the results of this traffic study, it is our opinion that the changes in traffic patterns resulting from the proposed development, can be

accommodated by the surrounding roadway system. Therefore, no offsite mitigation to the surrounding roadway system is required.

To improve roadway operations and sight lines at the proposed parking garage driveways, it is recommended to establish a no-parking zone along the west side of Clinton Avenue from approximately 50 feet north of the proposed garage driveway to Richmond Hill Avenue. Additionally, upon review of the study area, the vegetation within the median at Gateway Commons (the westbound approach at the intersection of Washington Boulevard and Richmond Hill Avenue) is very tall and restricts the sight distance of vehicles and more importantly pedestrians crossing the intersection. This vegetation should get trimmed to maintain the required sight distance at the intersection. We hope this report is useful to you and the City of Stamford. If you have any questions or need anything further, please do not hesitate to contact either of the undersigned.

Sincerely,

SLR International Corporation



Emily A. Foster, PE
Associate Transportation Engineer



Neil C. Olinski, MS, PTP
Senior Transportation Planner

Figures

- Figure 1 – Site Location Map
- Figure 2 – Baseline (2022) Conditions Peak-Hour Traffic Volumes
- Figure 3 – Proposed Development Distribution
- Figure 4 – Proposed Development Peak-Hour Trip Assignment
- Figure 5 – Nearby Planned Developments Locations
- Figure 6 – Nearby Planned Developments Total Peak-Hour Trip Assignment
- Figure 7 – Background (2025) Conditions Peak Hour-Traffic Volumes
- Figure 8 – Combined (2025) Conditions Peak Hour-Traffic Volumes

Appendix

- Information on the Nearby Planned Developments Included in Background (2025) Conditions
- LOS Designation Descriptions
- Full LOS Table
- *Synchro* Analysis Worksheets



Figure 1
Site Location Map

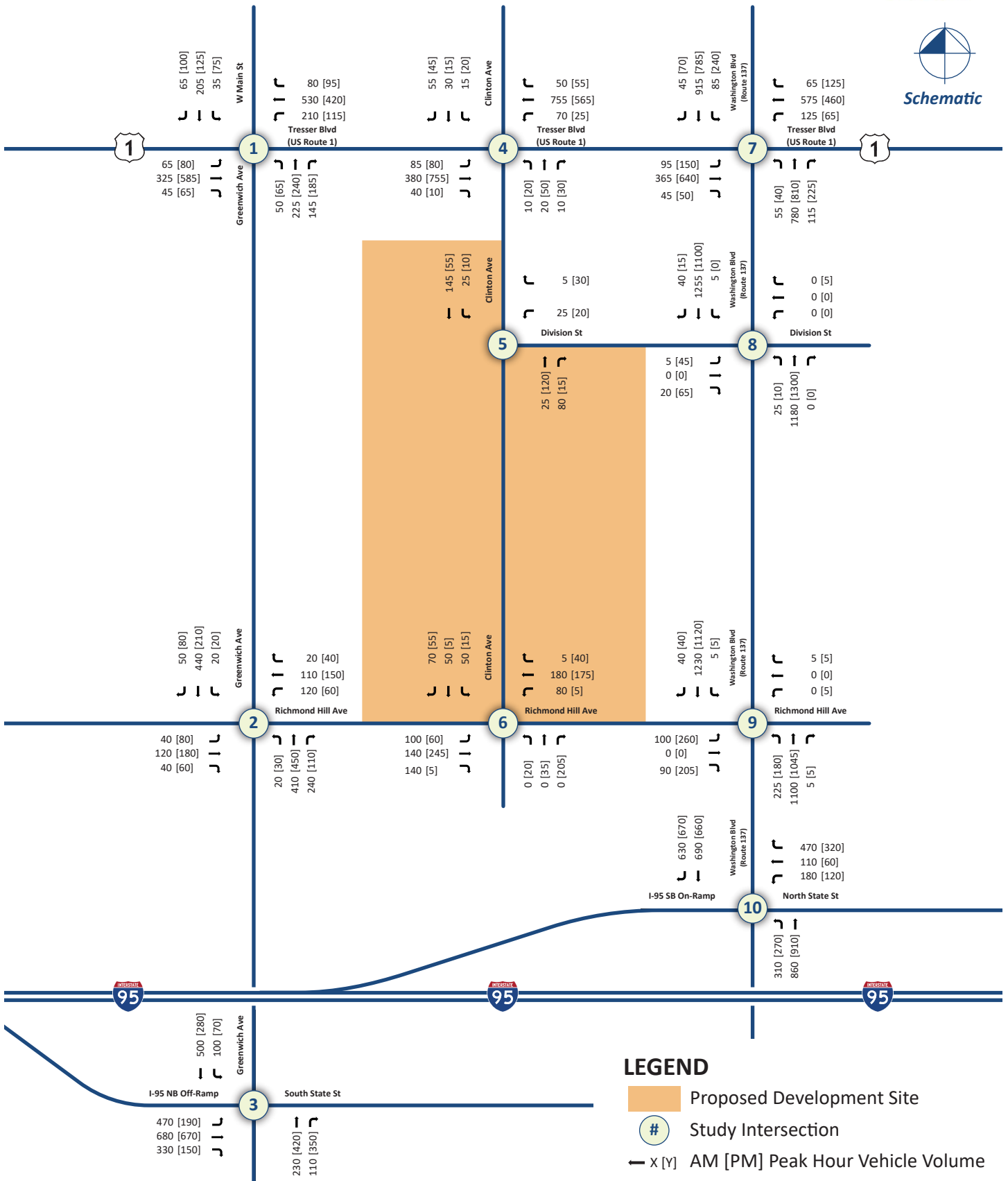


Figure 2
Baseline (2022) Conditions Peak Hour Traffic Volumes

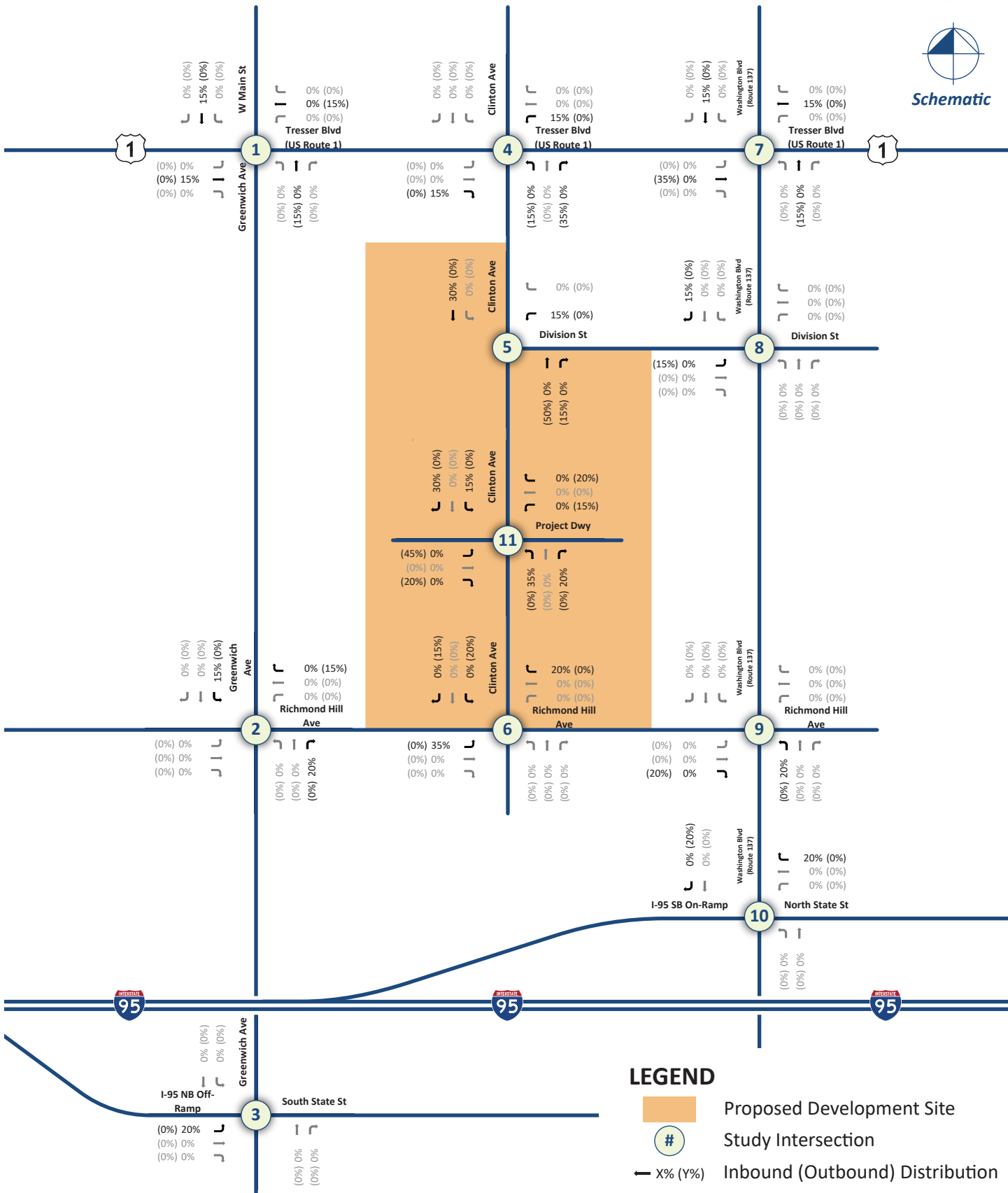


Figure 3
Proposed Development Distribution

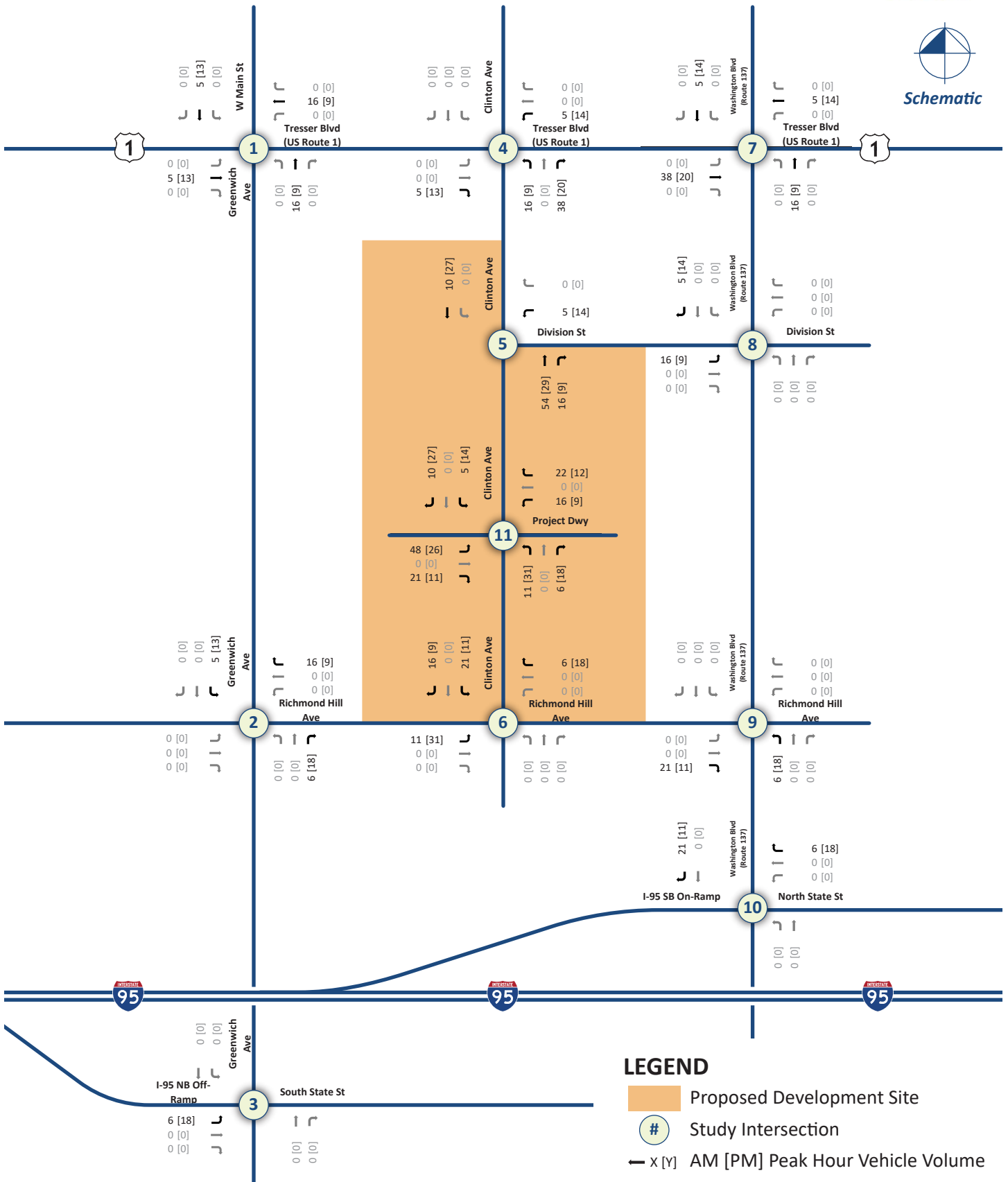


Figure 4
Proposed Development Peak Hour Trip Assignment

Nearby Planned Developments

1. Stamford Transportation Center Parking Garage Expansion
2. 406 Washington Boulevard Gateway Tower Expansion Office Development
3. 885 Washington Boulevard The Smyth Mixed-Use Development
4. 245 Atlantic Street True North Mixed-Use Development
5. 677 Washington Boulevard Mixed-Use Development
6. 154 Broad Street Residential Development

LEGEND

- Proposed Development Location
- Planned Development Location

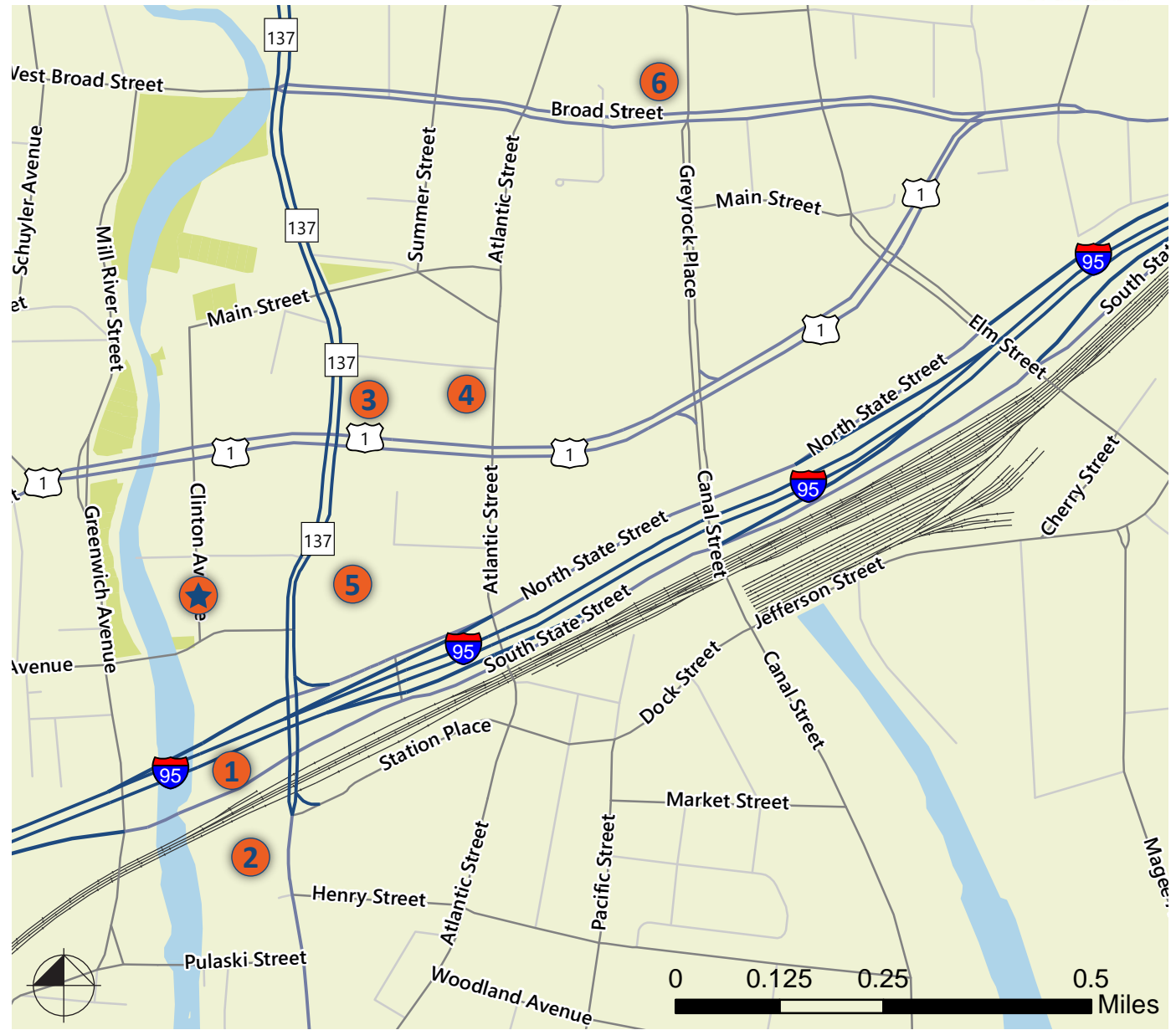


Figure 5
Nearby Planned Developments Locations

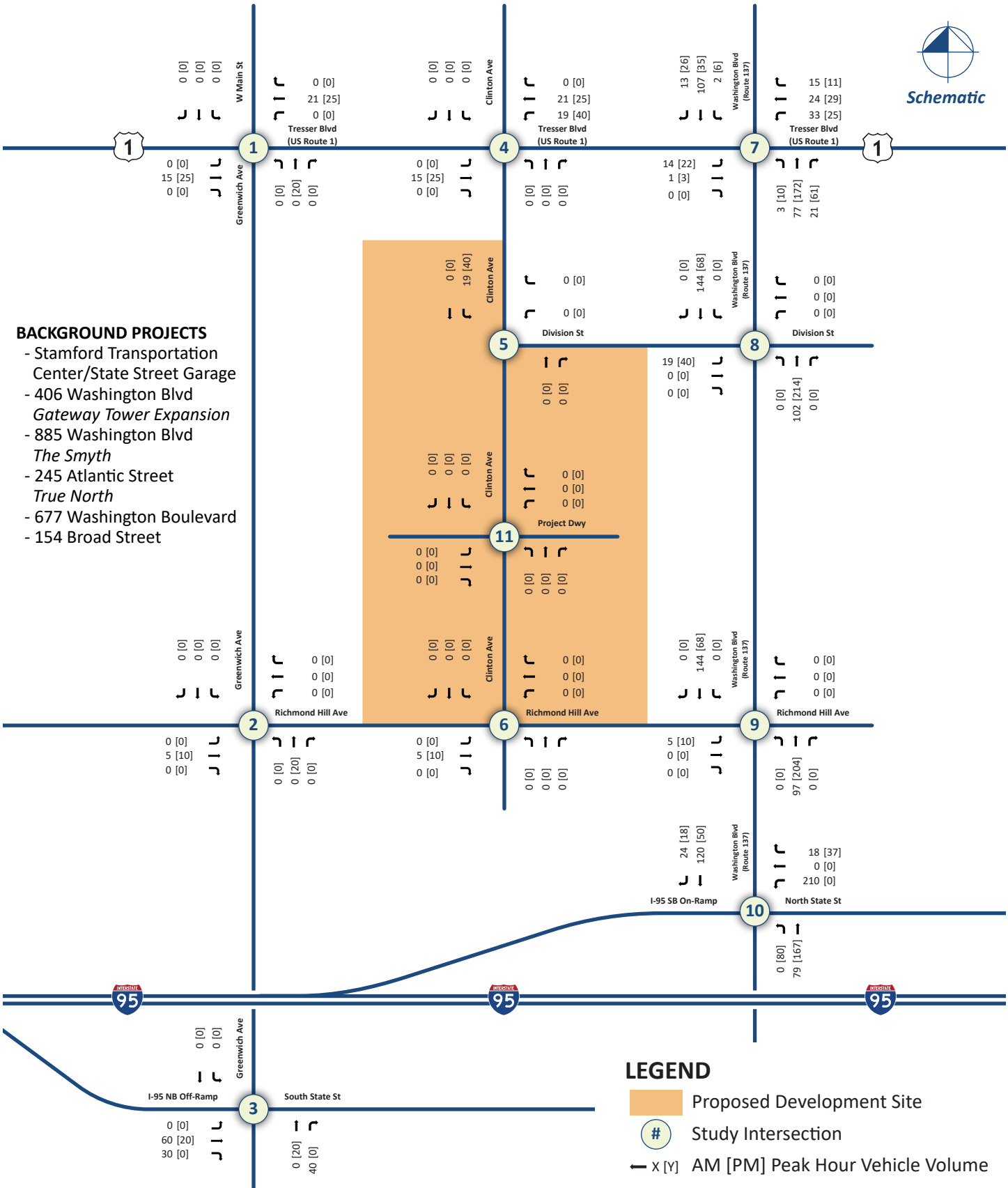


Figure 6
Nearby Planned Developments Total Peak Hour Trip Assignment

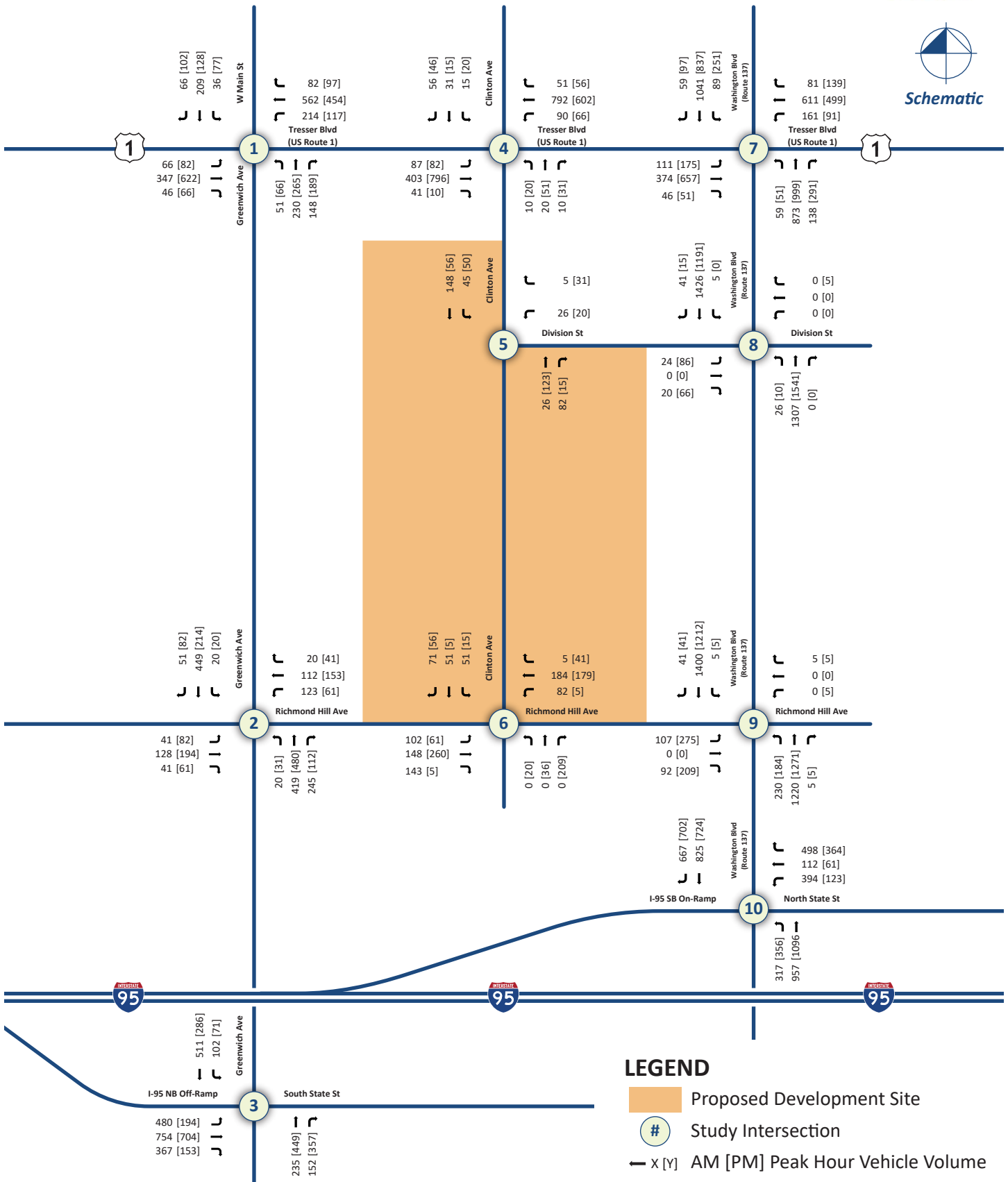


Figure 7
Background (2025) Conditions Peak Hour Traffic Volumes

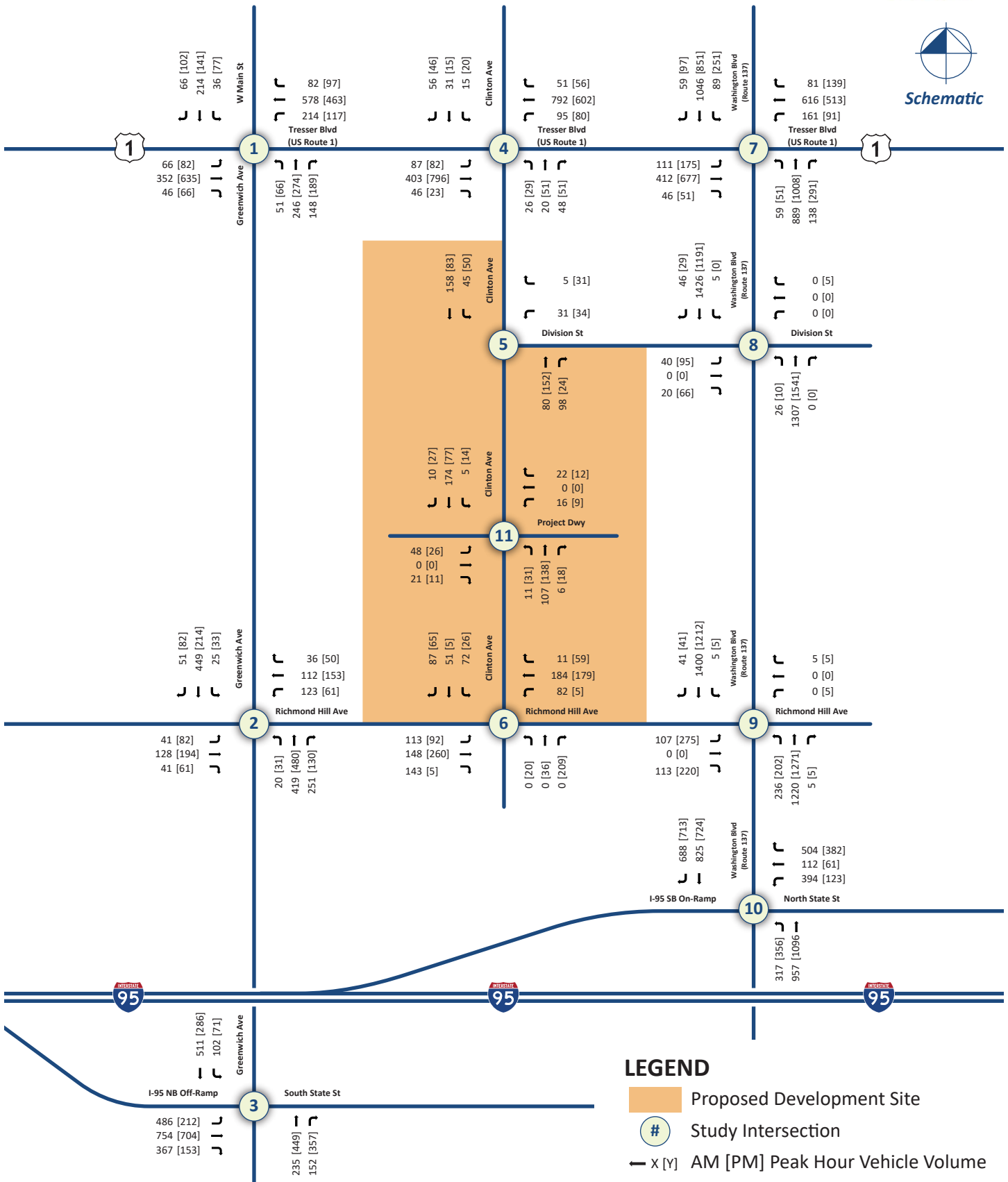


Figure 8
Combined (2025) Conditions Peak Hour Traffic Volumes

APPENDIX

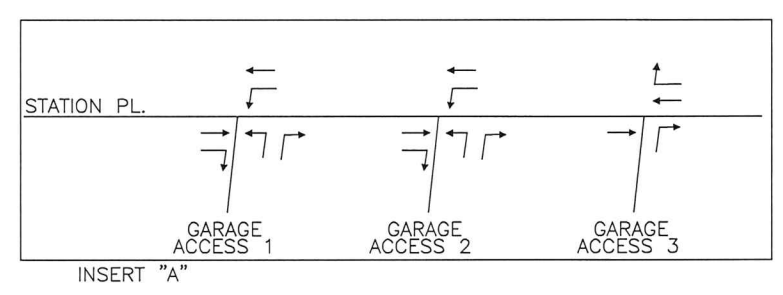
Background Project List

1. **Stamford Transportation Center/State Street Garage** – STEP 1 MTG Pre-Certification Application Traffic Volume Data Requirements (April 26, 2018)
2. **406 Washington Blvd - Gateway Tower Expansion** – Administrative Decision Review (February 11, 2021) / Traffic Impact Study (February 2019)
3. **885 Washington Blvd – The Smyth** – OSTA Response to Comments (June 26, 2018)
4. **245 Atlantic Street – True North** – Site Generated Traffic Volumes
5. **677 Washington Boulevard** – Traffic Access and Impact Study (October 2020)
6. **154 Broad Street** – Traffic Impact and Parking Study (April 9, 2021)



Same as approved

LEGEND:
90 IN (7 OUT)



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STAMFORD
NEW TRIPS FOR PROPOSED
STATE STREET GARAGE AM

STAMFORD
PARKING GARAGE

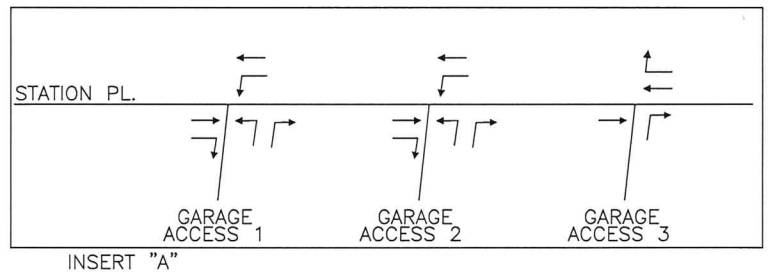
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Same as approved

LEGEND:
7 IN (90 OUT)



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NEW TRIPS FOR PROPOSED
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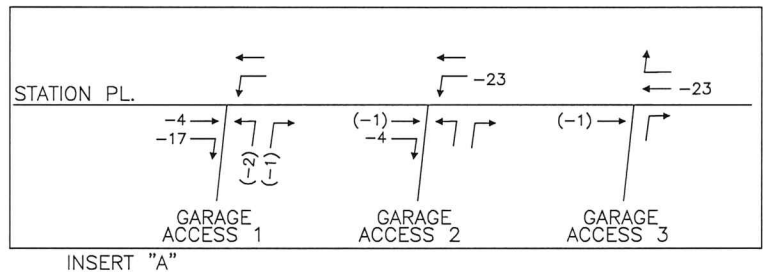
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8

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same as approved

LEGEND:
44 IN (3 OUT)



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STAMFORD
STATION PLACE ORIGINAL GARAGE
RELOCATED TRIPS AM

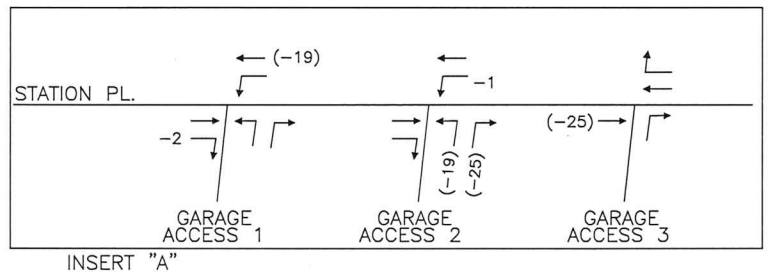
STAMFORD
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3 IN (44 OUT)



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PARKING GARAGE

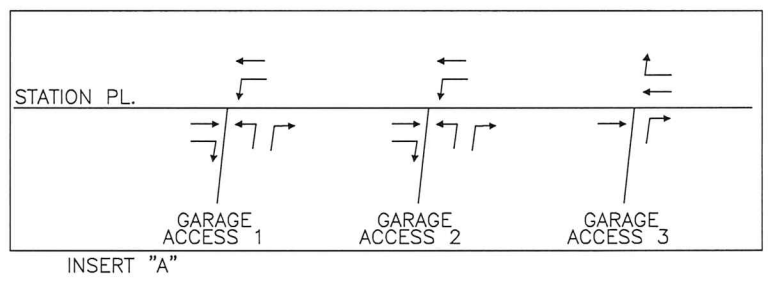
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same as approved

LEGEND:
131 IN (9 OUT)



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**STAMFORD
PARKING GARAGE**

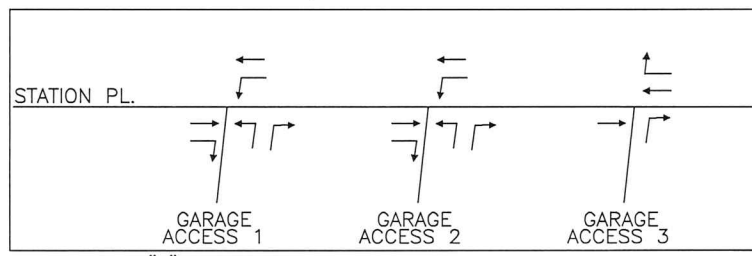
**FIGURE
11**

 DATE: 4/18



Same as approved

LEGEND:
9 IN (131 OUT)



INSERT "A"

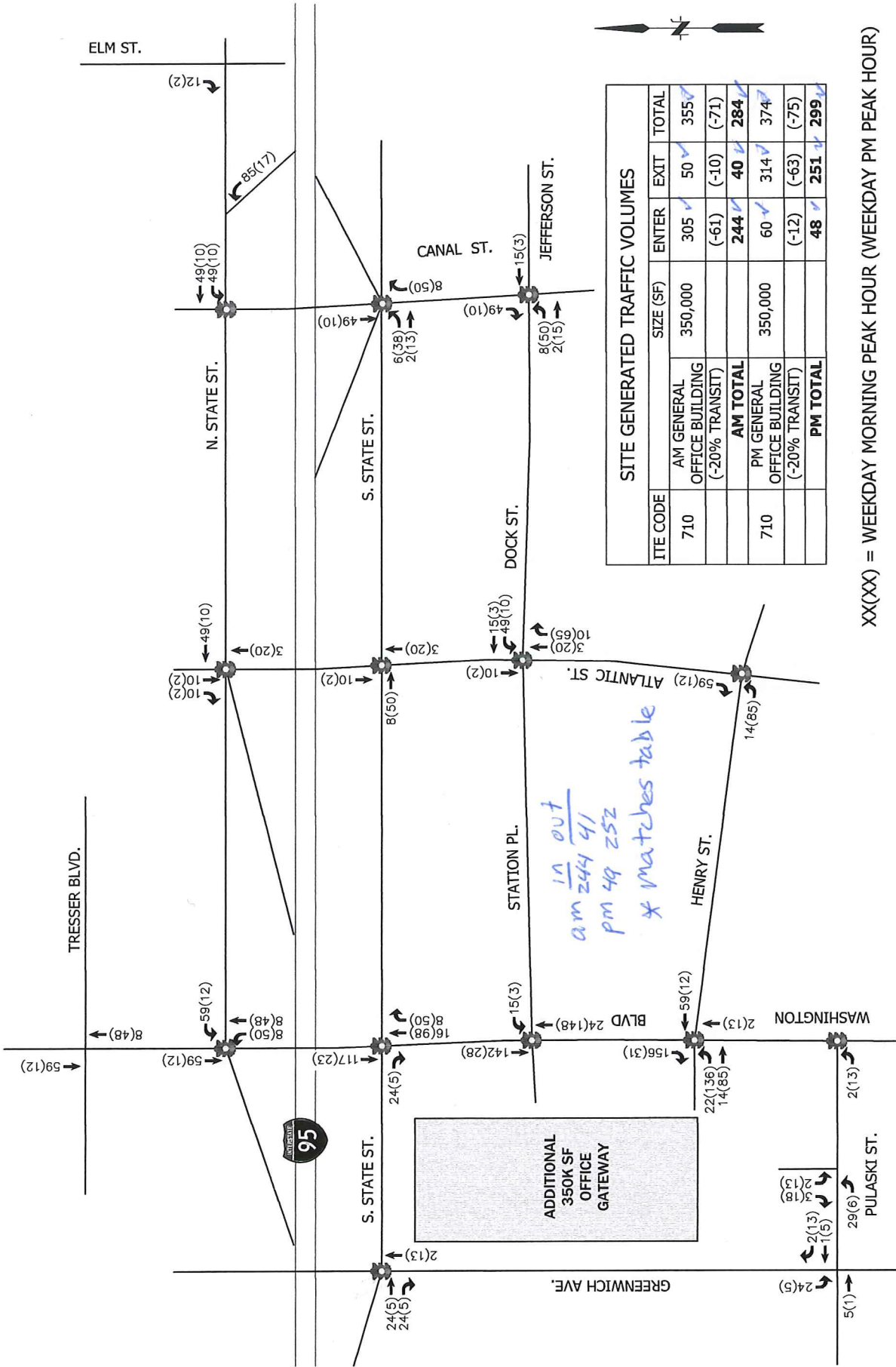
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200 Corporate Place, Suite 110
Rocky Hill, CT 06067
860.257.4557 - www.chacompanies.com

STAMFORD
GATEWAY GARAGE
RELOCATED TRIPS PM

STAMFORD
PARKING GARAGE

FIGURE
12
DATE: 4/18



ITE CODE	SIZE (SF)		ENTER	EXIT	TOTAL
	AM GENERAL OFFICE BUILDING (-20% TRANSIT)	PM GENERAL OFFICE BUILDING (-20% TRANSIT)			
710	350,000		305	50	355
			(-61)	(-10)	(-71)
			244	40	284
710	350,000		60	314	374
			(-12)	(-63)	(-75)
			48	251	299

XX(XX) = WEEKDAY MORNING PEAK HOUR (WEEKDAY PM PEAK HOUR)



FUSS & O'NEILL

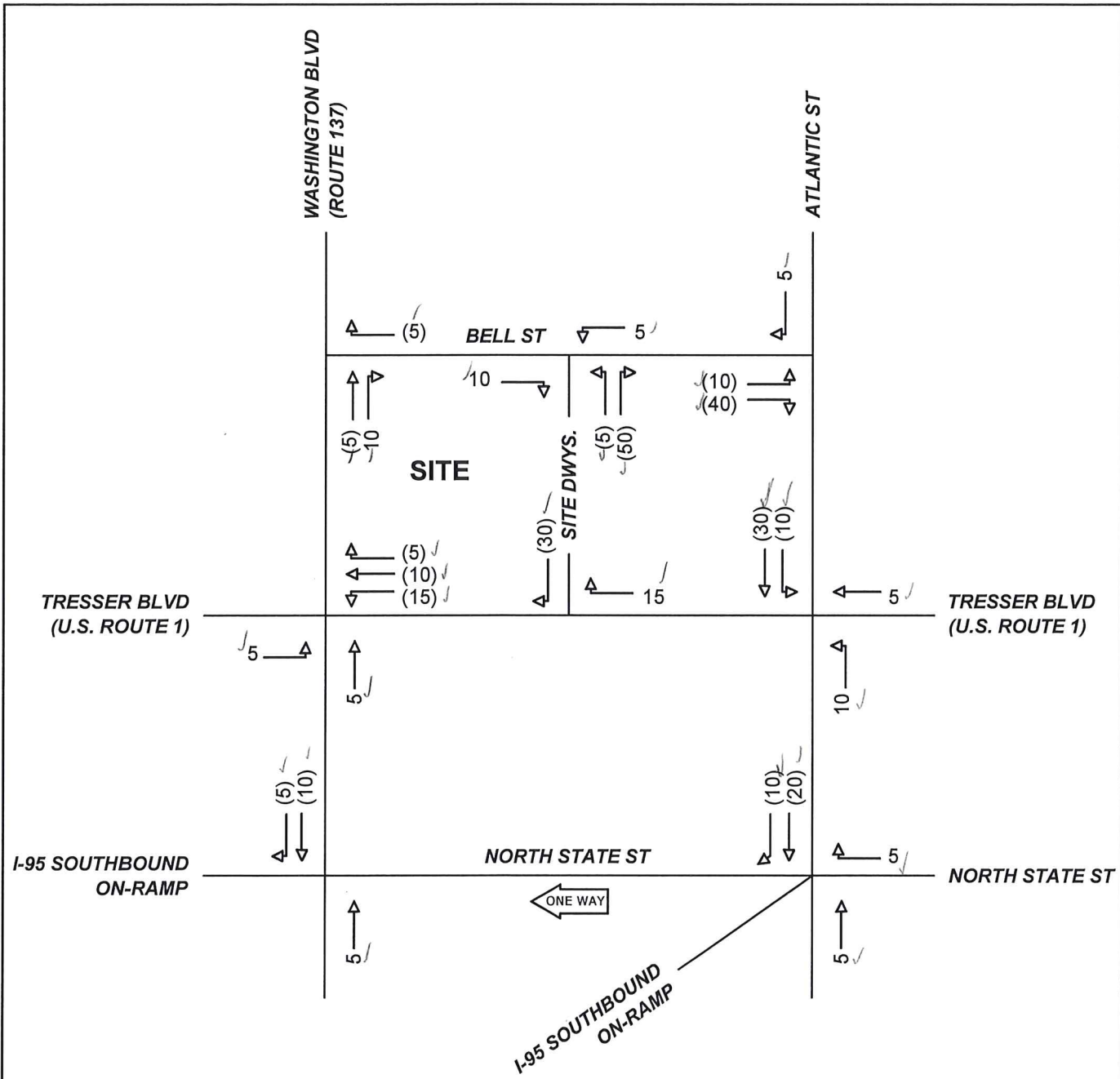
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fandoc.com

FIGURE 8: GATEWAY SITE GENERATED TRAFFIC VOLUMES

PROJ. NO: 20100591.T85

GATEWAY TRAFFIC STUDY, STAMFORD, CT

February 2019

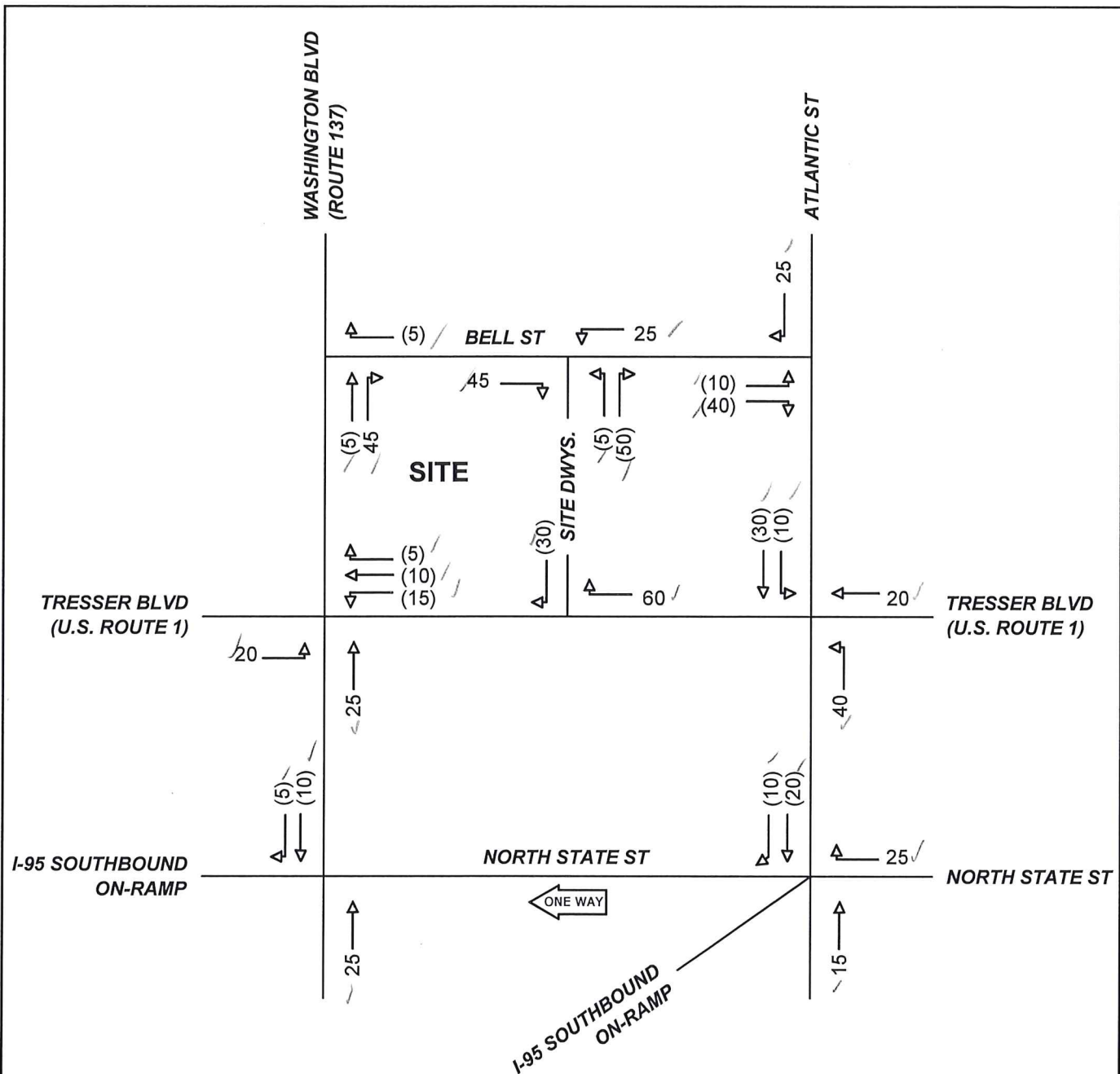


**ANTICIPATED SITE TRAFFIC VOLUMES
WEEKDAY MORNING PEAK HOUR**

Proposed Development at 885 Washington Blvd
Stamford, Connecticut

LEGEND
00 - ENTERING
(0) - EXITING





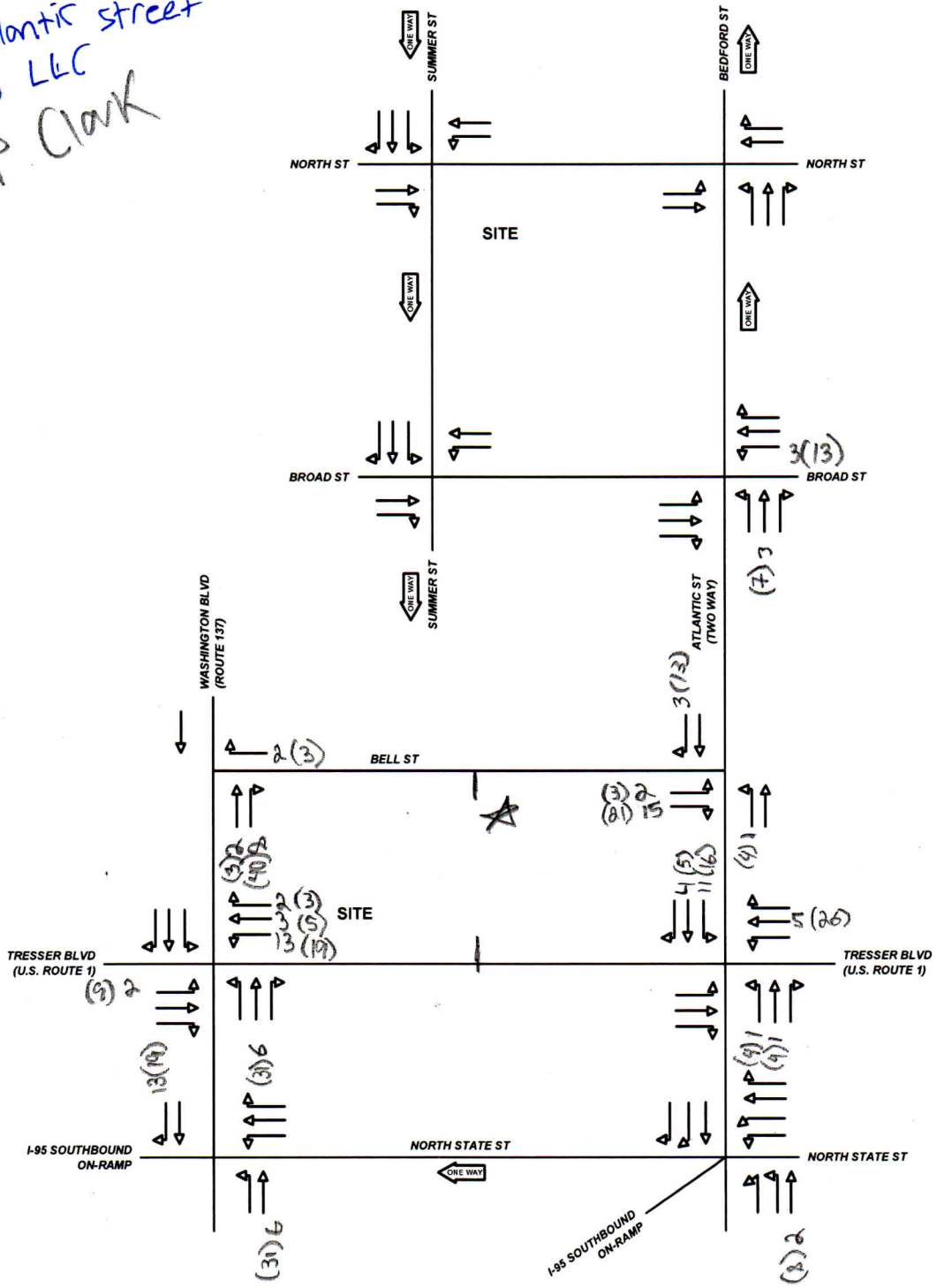
**ANTICIPATED SITE TRAFFIC VOLUMES
WEEKDAY AFTERNOON PEAK HOUR**

Proposed Development at 885 Washington Blvd
Stamford, Connecticut

LEGEND
00 - ENTERING
(00) - EXITING



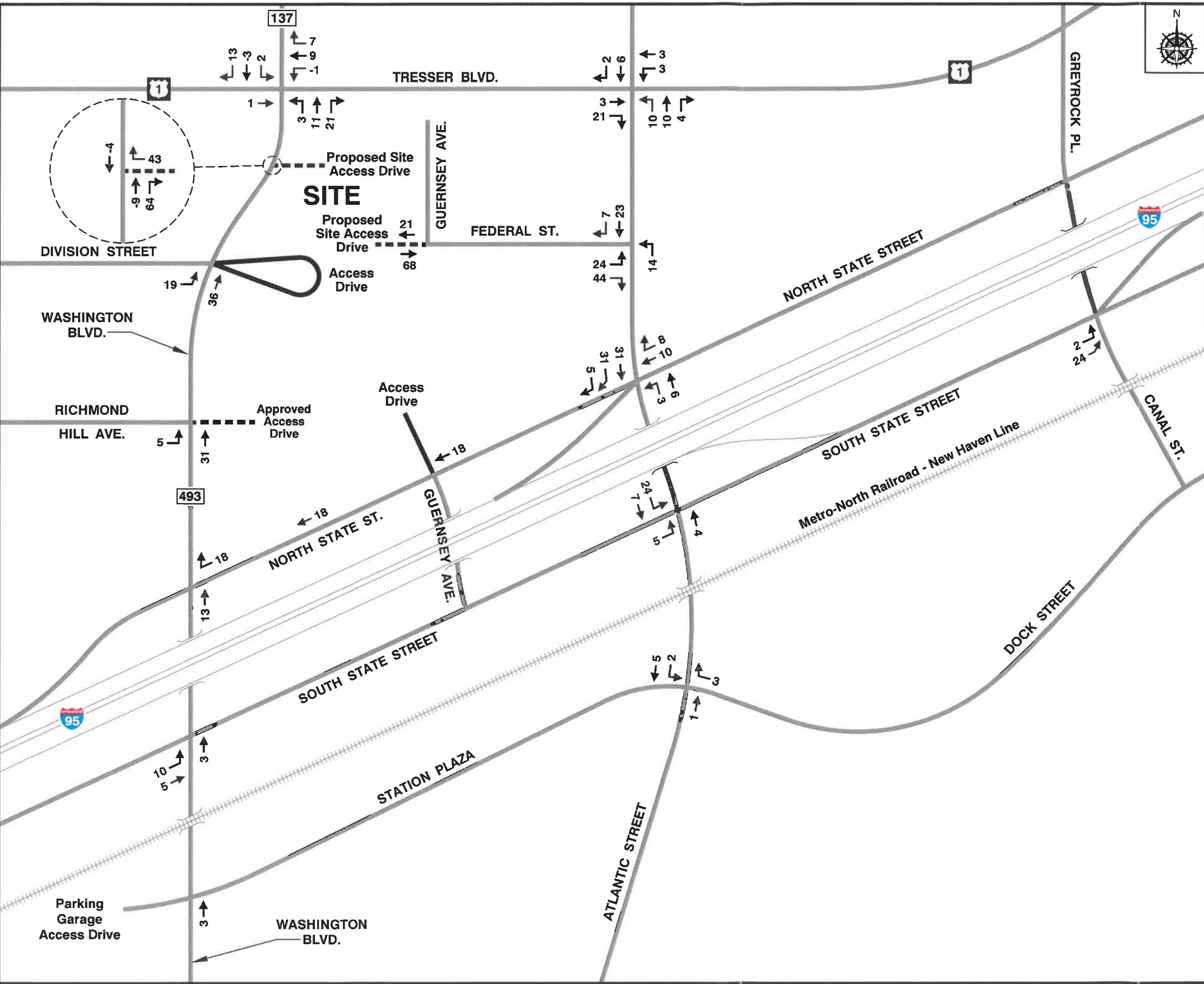
245 Atlantic street
 RoeCo LLC
 FP Clark



TRAFFIC VOLUMES
 AFTERNOON PEAK HOUR
 Stamford, Connecticut



p:\hardesty-pw\benitey.com\hardesty-pw-01\Documents\04146\40_Highway\Washington Figures.dwg



NOTE:
Total Site Traffic includes
Residential Site Traffic
and Retail Site Traffic.

**TOTAL
SITE TRAFFIC GENERATION & ASSIGNMENT
WEEKDAY MORNING PEAK HOUR**

**MIXED-USE DEVELOPMENT
677 WASHINGTON BOULEVARD
Stamford, Connecticut**



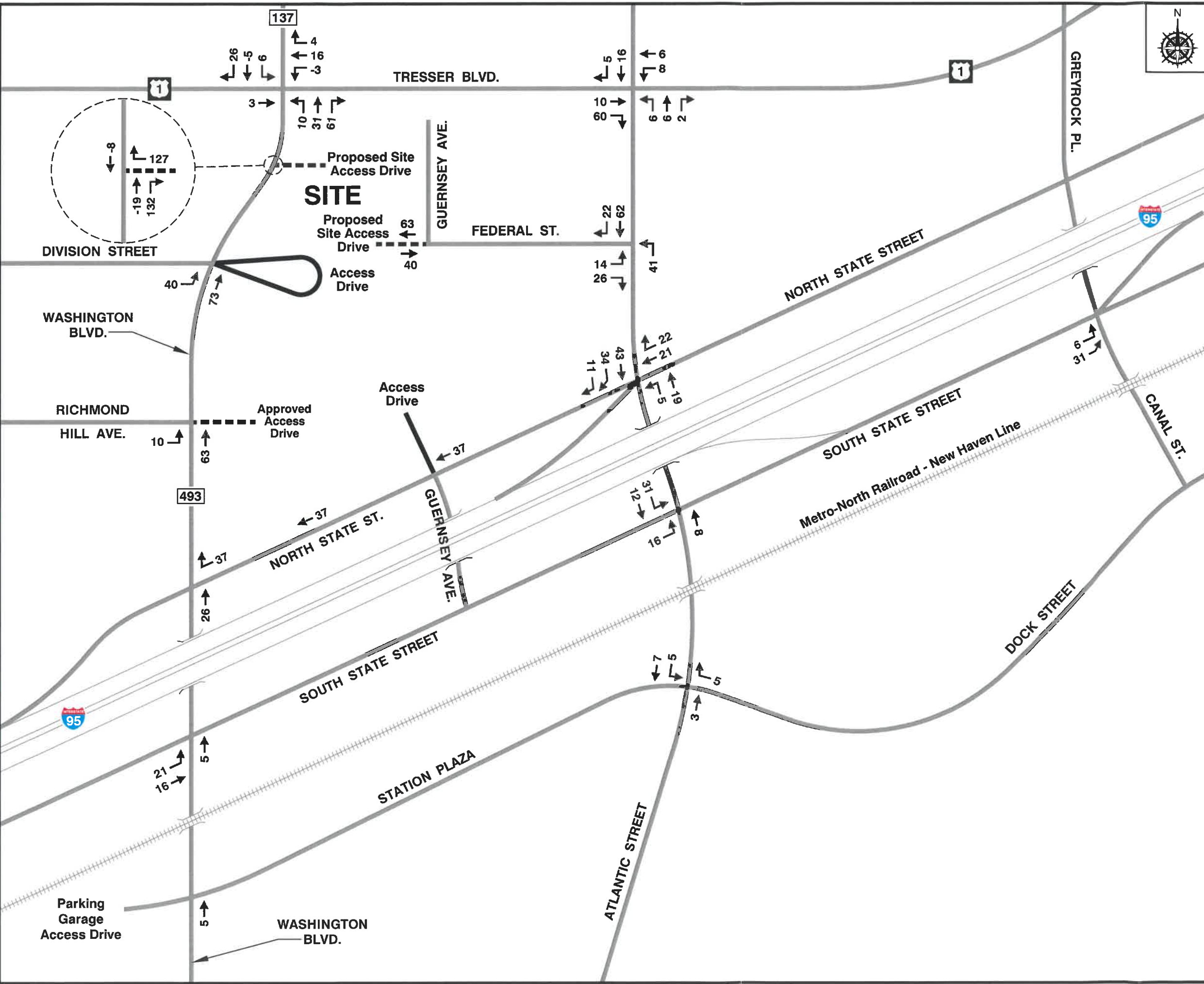
**FREDERICK P. CLARK / Hardesty
ASSOCIATES & Hanover**

27

Not to Scale

8/31/20

p:\hardesty-pw\benitey.com\hardesty-pw-01\Documents\04146\40_Highway\Washington Figures.dwg



NOTE:
Total Site Traffic includes
Residential Site Traffic
and Retail Site Traffic.

**TOTAL
SITE TRAFFIC GENERATION & ASSIGNMENT
WEEKDAY AFTERNOON PEAK HOUR**

**MIXED-USE DEVELOPMENT
677 WASHINGTON BOULEVARD
Stamford, Connecticut**



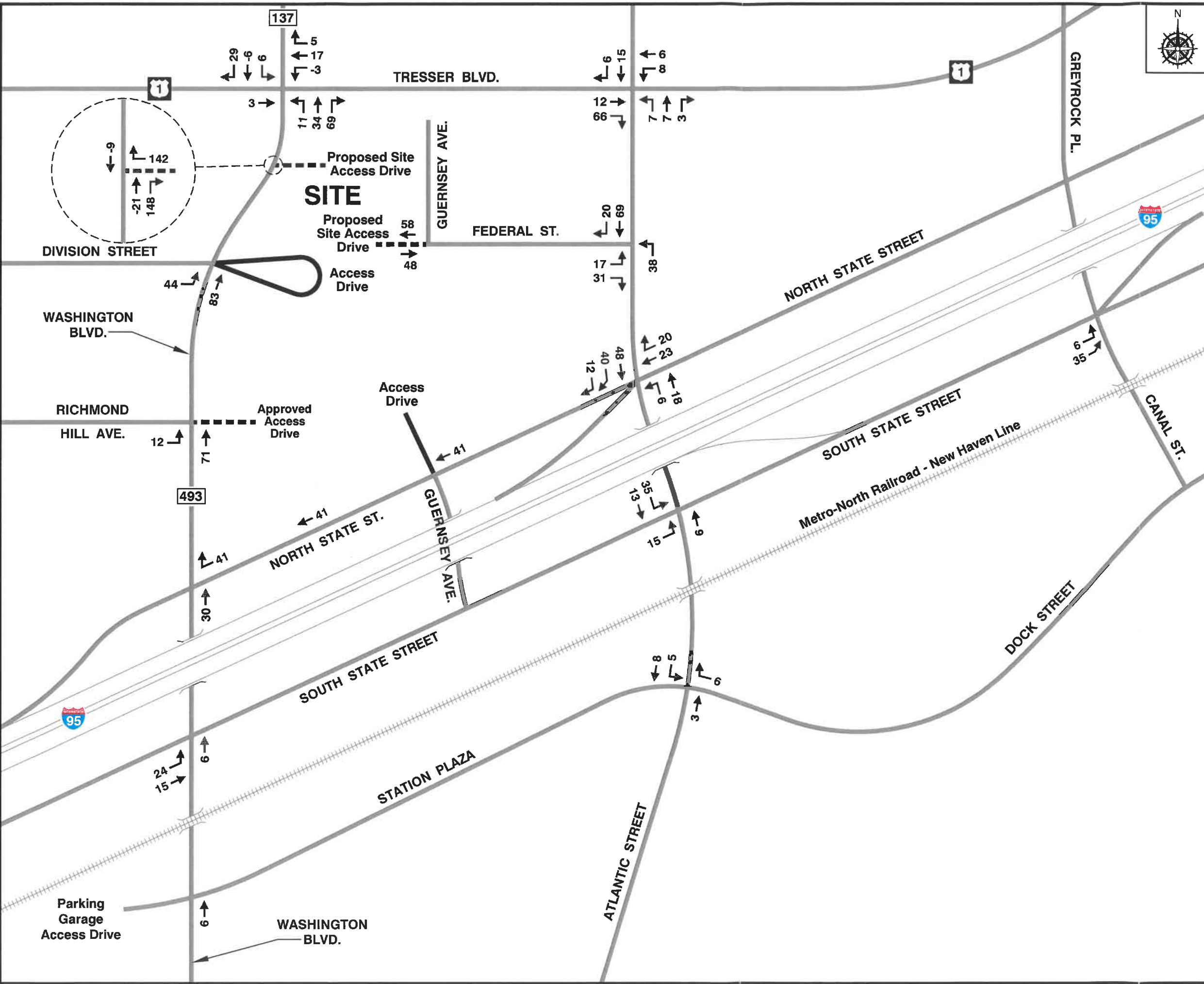
**FREDERICK P. CLARK / Hardesty
ASSOCIATES & Hanover**

28


Not to Scale

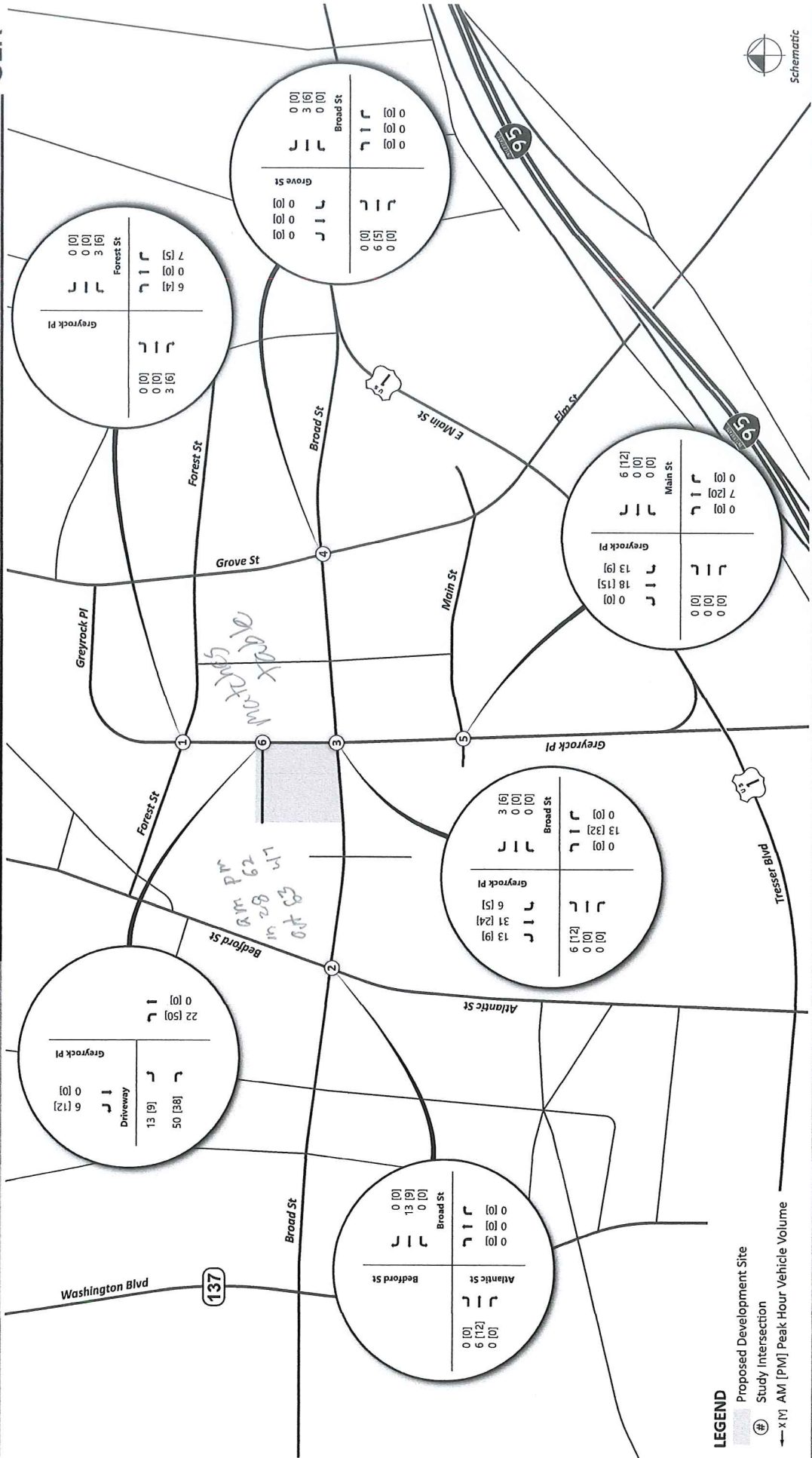
8/31/20

p:\hardesty-pw\benitey.com\hardesty-pw-01\Documents\04146\40_Highway\Washington Figures.dwg



NOTE:
Total Site Traffic includes Residential Site Traffic and Retail Site Traffic.

TOTAL SITE TRAFFIC GENERATION & ASSIGNMENT SATURDAY MIDDAY PEAK HOUR	
MIXED-USE DEVELOPMENT 677 WASHINGTON BOULEVARD Stamford, Connecticut	
FREDERICK P. CLARK / Hardesty ASSOCIATES & Hanover	
Not to Scale	29 8/31/20



LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS (MOTORIZED VEHICLE MODE)

Level of service for signalized intersections is defined in terms of control delay, which is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, geometrics, traffic, and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions: in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Specifically, LOS criteria for traffic signals are stated in terms of the average control delay per vehicle, typically for a 15-min analysis period. Delay is a complex measure and depends on a number of variables, including the quality of progression, the cycle length, the green ratio, and the v/c ratio for the lane group. The criteria are given below.

LEVEL-OF SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS MOTORIZED VEHICLE MODE		
LOS By Volume-to-Capacity Ratio¹		CONTROL DELAY (s/veh)
v/c ≤ 1.0	v/c > 1.0	
A	F	≤ 10
B	F	> 10 AND ≤ 20
C	F	> 20 AND ≤ 35
D	F	> 35 AND ≤ 55
E	F	> 55 AND ≤ 80
F	F	> 80

¹ For approach-based and intersection-wide assessments, LOS is defined solely by control delay.

Specific descriptions of each LOS for signalized intersections are provided below:

Level of Service A describes operations with a control delay of 10 s/veh and 20 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.

Level of Service B describes operations with control delay between 10 and 20 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.

Level of Service C describes operations with control delay between 20 and 35 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual *cycle failures* (i.e., one or more queued vehicles are not able to depart as a result of insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.

Level of Service D describes operations with control delay between 35 and 55 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.

Level of Service E describes operations with control delay between 55 and 80 s/veh and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.

Level of Service F describes operations with control delay exceeding 80 s/veh or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Reference: Highway Capacity Manual 6, Transportation Research Board, 2016.

LEVEL OF SERVICE

FOR TWO-WAY

STOP SIGN CONTROLLED INTERSECTIONS

The level of service for a TWSC (two-way stop controlled) intersection is determined by the computed or measured control delay and is defined for each minor movement. Level of service is not defined for the intersection as a whole. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. LOS criteria are given in the Table. LOS criteria are given below:

LEVEL-OF SERVICE CRITERIA FOR AWSC INTERSECTIONS	
LOS¹	CONTROL DELAY (s/veh)
A	≤ 10
B	$> 10 \text{ AND } \leq 15$
C	$> 15 \text{ AND } \leq 25$
D	$> 25 \text{ AND } \leq 35$
E	$> 35 \text{ AND } \leq 50$
F	> 50

Note: LOS criteria apply to each lane on a given approach and to each approach on the minor street.
 LOS is not calculated for major-street approaches or for the intersection as a whole.
 LOS F is assigned to a movement if the volume-to-capacity ratio exceeds 1.0, regardless of the control delay

Reference: Highway Capacity Manual Version 6.0, Transportation Research Board, 2016.

Full Capacity Analysis Summary - Future (2025) Conditions

INTERSECTION/LANE GROUP	LEVEL OF SERVICE			
	A.M. PEAK HOUR		P.M. PEAK HOUR	
	BACKGROUND	COMBINED	BACKGROUND	COMBINED
Signalized				
1. Greenwich Avenue at Tresser Boulevard (US Route 1)				
Eastbound Left	B	B	B	B
Eastbound Through/Right	B	B	B	C
Westbound Left	B	B	B	B
Westbound Through/Right	B	B	B	B
Northbound Left	C	C	C	C
Northbound Through	D	D	D	D
Northbound Right	B	B	C	C
Southbound Left	C	C	C	C
Southbound Through	D	D	C	C
Southbound Right	A	A	A	A
Overall	C	C	C	C
2. Greenwich Avenue at Richmond Hill Avenue				
Eastbound Left/Through/Right	E	E	E	E
Westbound Left/Through/Right	D	D	C	C
Northbound Left/Through/Right	D	D	D	D
Southbound Left/Through/Right	B	B	C	C
Overall	D	D	D	D
3. Greenwich Avenue at South State Street/I-95 NB Off Ramp				
Eastbound Left	D	D	D	D
Eastbound Through	D	D	D	D
Eastbound Right	A	A	A	A
Northbound Through	C	C	D	E
Northbound Right	B	B	C	D
Southbound Left	C	C	B	C
Southbound Through	C	C	B	B
Overall	C	C	D	D
4. Clinton Avenue at Tresser Boulevard (US Route 1)				
Eastbound Left	A	A	A	A
Eastbound Through/Right	A	A	A	B
Westbound Left	B	B	B	B
Westbound Through	C	C	B	B
Westbound Right	C	C	B	B
Northbound Left/Through/Right	D	E	E	E
Southbound Left/Through/Right	E	E	E	D
Overall	C	C	B	B
6. Clinton Avenue at Richmond Hill Avenue				
Eastbound Left/Through/Right	D	D	B	C
Westbound Left	C	C	B	B
Westbound Through/Right	C	C	B	B
Northbound Left/Through/Right	A	A	C	C
Northbound Right	A	A	A	B
Southbound Left/Through/Right	B	B	C	D
Overall	C	C	B	C

Full Capacity Analysis Summary - Future (2025) Conditions (Continued)

INTERSECTION/LANE GROUP	LEVEL OF SERVICE			
	A.M. PEAK HOUR		P.M. PEAK HOUR	
	BACKGROUND	COMBINED	BACKGROUND	COMBINED
Signalized				
7. Washington Boulevard at Tresser Boulevard (US Route 1)				
Eastbound Left	E	E	E	E
Eastbound Through/Right	D	D	D	D
Westbound Left	E	E	D	D
Westbound Through/Right	D	D	D	D
Northbound Left	E	E	D	D
Northbound Through	D	D	D	D
Northbound Right	C	C	D	D
Southbound Left	E	E	F	F
Southbound Through	C	C	D	D
Southbound Right	C	C	C	C
Overall	D	D	D	D
8. Washington Boulevard at Division Street				
Eastbound Left/Through	D	D	D	D
Eastbound Right	B	B	B	B
Westbound Left/Through/Right	A	A	A	A
Northbound Left	A	A	A	A
Northbound Through/Right	A	A	A	A
Southbound left	A	A	A	A
Southbound Through/Right	A	A	A	A
Overall	A	A	A	A
9. Washington Boulevard at Richmond Hill Avenue				
Eastbound Left	E	E	E	E
Eastbound Through/Right	D	E	D	D
Westbound Left/Through/Right	D	D	C	C
Northbound Left	D	D	D	D
Northbound Through/Right	A	A	B	B
Southbound Left/Through/Right	A	A	B	B
Overall	B	B	C	C
10. Washington Boulevard at North State Street/I-95 Westbound On Ramp				
Westbound Left	D	D	D	D
Westbound Through	C	C	C	C
Westbound Right	E	E	E	E
Northbound Left	C	C	B	C
Northbound Through	B	B	B	B
Southbound Through	C	C	B	B
Southbound Right	C	C	A	A
Overall	C	C	B	B

Full Capacity Analysis Summary - Future (2025) Conditions (Continued)

INTERSECTION/LANE GROUP	LEVEL OF SERVICE			
	A.M. PEAK HOUR		P.M. PEAK HOUR	
	BACKGROUND	COMBINED	BACKGROUND	COMBINED
<i>Unsignalized</i>				
5. Clinton Avenue at Division Street				
Westbound Left/Right	B	B	A	B
Southbound Left	A	A	A	A
11. Clinton Avenue at Proposed Parking Garage Access				
Northbound Left		A		A
Eastbound Left/Through/Right		B		B
Westbound left/Through/Right		B		B
Southbound Left		A		A

Notes: LOS calculations were performed using *Synchro 11*.

100 Clinton Avenue
1: Greenwich Ave & W Main St/Tresser Blvd

Background (2025) Conditions
All Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	66	347	46	214	562	82	51	230	148	36	203	66
Trucks/Vol (vph)	66	347	46	214	562	82	51	230	148	36	203	66
Trucks/Vol (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50	0	150	0	0	0	50	40	0	40	20	20
Storage Lanes	1	0	0	1	0	0	1	1	1	1	1	2
Travel Length (ft)	80	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.95	1.00
Lane Util. Factor	1.00	0.982	0.95	1.00	0.981	0.95	1.00	1.00	1.00	1.00	0.95	1.00
Flt Protected	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Satd. Flow (prot)	1770	3476	0	1770	3472	0	1770	1863	1563	1770	3539	1425
Flt Permitted	0.367	0.448	0	0.448	0.547	0	0.547	0.547	0.547	0.405	0.405	0.405
Satd. Flow (perm)	684	3476	0	835	3472	0	1019	1863	1563	754	3539	1425
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	17	19	0	19	19	0	19	116	116	116	116	116
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	331	7.5	563	563	529	334	529	21.1	21.1	7.6	7.6	7.6
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Peak Hour Factor	72	377	50	233	611	89	55	250	161	39	227	72
Adj. Flow (vph)	72	427	0	233	700	0	55	250	161	39	227	72
Shared Lane Traffic (%)	1	1	1	1	1	1	1	1	1	1	1	1
Lane Group Flow (vph)	40	50	40	50	40	40	40	40	40	40	100	50
Number of Detectors	-10	0	-10	0	-10	-10	-10	-10	-10	-10	0	0
Detector 1 Position (ft)	50	50	50	50	50	50	50	50	50	50	50	50
Detector 1 Sizing	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Sizing	6	6	6	6	6	6	6	6	6	6	6	6
Detector 2 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 2 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA
Protected Phases	1	6	5	2	7	4	4	4	3	8	8	8
Permitted Phases	6	2	2	4	7	4	4	4	4	3	8	8
Detector Phase	1	6	5	2	7	4	4	4	4	3	8	8
Switch Phase	4.0	20.0	4.0	20.0	4.0	10.0	10.0	4.0	10.0	4.0	10.0	10.0
Minimum Initial (s)	8.0	32.6	8.0	32.6	8.0	36.2	36.2	8.0	36.2	8.0	36.2	36.2
Minimum Split (s)	15.0	45.0	15.0	45.0	12.0	28.0	28.0	12.0	28.0	12.0	28.0	28.0
Total Split (%)	15.0%	45.0%	15.0%	45.0%	12.0%	28.0%	28.0%	12.0%	28.0%	12.0%	28.0%	28.0%
Maximum Green (s)	11.0	39.4	11.0	39.4	8.0	22.8	22.8	8.0	22.8	8.0	22.8	22.8
Yellow Time (s)	3.0	3.7	3.0	3.7	3.0	3.7	3.7	3.0	3.7	3.0	3.7	3.7
All-Red Time (s)	1.0	1.9	1.0	1.9	1.0	1.5	1.5	1.0	1.5	1.0	1.5	1.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.6	4.0	5.6	4.0	5.2	5.2	4.0	5.2	4.0	5.2	5.2
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lag
Lead-Lag Optimizer?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lead-Lag Extension(s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recall Mode	None	C-Min	None	C-Min	None	None	None	None	None	None	None	None
Walk Time (s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Flash Don't Walk (s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Flash Walk (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Act Effc G/C Ratio	57.2	60.1	64.4	65.1	25.4	20.2	20.2	23.5	17.9	17.9	17.9	17.9
Act Effc G/C Ratio	0.16	0.24	0.38	0.36	0.18	0.39	0.17	0.36	0.21	0.21	0.21	0.21
Control Delay	10.9	17.1	11.4	16.1	24.1	44.6	13.0	23.8	36.0	27.5	27.5	27.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Lanes, Volumes, Timings
SLR

Syncho 11 Report
Page 1

100 Clinton Avenue
1: Greenwich Ave & W Main St/Tresser Blvd

Background (2025) Conditions
All Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Total Delay	10.9	17.1	11.4	16.1	24.1	44.6	13.0	23.8	36.0	27.5	27.5	27.5
LOS	B	B	B	B	B	B	C	D	B	C	D	A
Approach Delay	16	76	57	127	26	153	24	18	67	0	0	0
Approach LOS	B	B	B	B	B	B	C	D	B	C	D	C
Queue Length (ft)	48	152	137	243	43	196	67	34	86	11	11	11
Queue Length (ft)	50	251	150	483	50	849	50	40	254	20	20	20
Turn Bay Length (ft)	545	1812	645	1955	326	458	477	273	864	435	435	435
Base Capacity (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.13	0.24	0.36	0.36	0.17	0.55	0.34	0.14	0.26	0.17	0.17	0.17
Intersection Summary	Other											
Area Type:	Other											
Cycle Length:	100											
Offset: 75 (75%):	Reference to phase 2:WBT and 6EBTL, Start of Yellow											
Natural Cycle:	85											
Control Type:	Actuated-Coordinated											
Maximum v/c Ratio:	0.67											
Intersection Signal Delay:	20.5											
Intersection Capacity Utilization:	59.6%											
Analysis Period (min):	15											

Lanes, Volumes, Timings
SLR

Syncho 11 Report
Page 2

100 Clinton Avenue
2: Greenwich Ave & Richmond Hill Ave

Background (2025) Conditions
All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shutten Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduce v/c Ratio	0.70			0.62			0.77					0.55

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shutten Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduce v/c Ratio	0.70			0.62			0.77					0.55

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 56 (47%), Referenced to phase 2:NBSB, Start of Yellow
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.87
 Intersection Signal Delay: 37.9
 Intersection LOS: D
 Intersection Capacity Utilization 82.5%
 ICU Level of Service E
 Analysis Period (min) 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 56 (47%), Referenced to phase 2:NBSB, Start of Yellow
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.87
 Intersection Signal Delay: 37.9
 Intersection LOS: D
 Intersection Capacity Utilization 82.5%
 ICU Level of Service E
 Analysis Period (min) 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.



Splits and Phases: 2: Greenwich Ave & Richmond Hill Ave

Phase	Split (%)	Split (s)
EB	20.5	24.6
EB+EBR	0.0	0.0
EBR	0.0	0.0
WB	20.5	24.6
WB+WBT	0.0	0.0
WBT	0.0	0.0
NB	20.5	24.6
NB+NBT	0.0	0.0
NBT	0.0	0.0
NB+NB+NR	0.0	0.0
NBR	0.0	0.0
SB	20.5	24.6
SB+SBT	0.0	0.0
SBT	0.0	0.0
SSR	0.0	0.0

Splits and Phases: 2: Greenwich Ave & Richmond Hill Ave

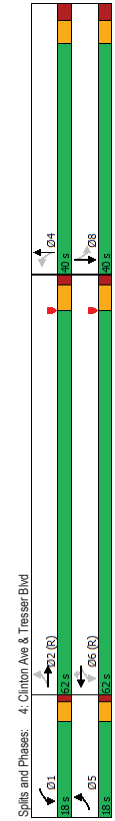
Phase	Split (%)	Split (s)
EB	20.5	24.6
EB+EBR	0.0	0.0
EBR	0.0	0.0
WB	20.5	24.6
WB+WBT	0.0	0.0
WBT	0.0	0.0
NB	20.5	24.6
NB+NBT	0.0	0.0
NBT	0.0	0.0
NB+NB+NR	0.0	0.0
NBR	0.0	0.0
SB	20.5	24.6
SB+SBT	0.0	0.0
SBT	0.0	0.0
SSR	0.0	0.0

Lane Group	EBL	EET	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SRT	SSR	Ø1	Ø5
Internal Link Dist (ft)													
Turn Bay Length (ft)	225	769	225		457		134	NBT	NBR	SBL	SRT	SSR	Ø1 Ø5
Base Cap (vph)	652	1303	835				1080	940	473	1486			
Station Cap Reductn	0	0	0				764	655	0	0			
Storage Cap Reductn	0	0	0				109	0	0	0			
Storage Cap Reductn	0	0	0				0	0	0	0			
Reduce v/c Ratio	0.80	0.63	0.48				0.81	0.58	0.23	0.37			
Intersection Summary													
Area Type:	Other												
Actuated Cycle Length:	120												
Offset:	39 (33%), Referenced to phase 2;NBSB, Start of Yellow												
Natural Cycle:	100												
Control Type:	Actuated-Coordinated												
Maximum v/c Ratio:	0.88												
Intersection Signal Delay:	29.4												
Intersection LOS:	C												
ICU Level of Service B													
Intersection Capacity Utilization:	64.0%												
Analysis Period (min):	15												
# 95th percentile volume exceeds capacity, queue may be longer.													
Queue shown is maximum after two cycles.													
m Volume for 95th percentile queue is metered by upstream signal.													

Lane Group	EBL	EET	EBR	WBL	WBR	NBL	NBT	NBR	SBL	SRT	SSR	Ø1	Ø5
Lane Configurations	480	754	367	0	0	0	235	152	102	511	0		
Flows Volume (vph)	480	754	367	0	0	0	235	152	102	511	0		
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Storage Length (ft)	225						50	75			230		
Storage Lanes	1						1	1			1		
Tract Length (ft)	200	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	
Lane Util. Factor	0.830						0.830						
Fit Protected	0.950						0.950						
Satd. Flow (prot)	1770	3539	1583	0	0	0	1863	1583	1170	3539	0		
Fit Permitted	0.950						0.601						
Satd. Flow (perm)	1770	3539	1583	0	0	0	1863	1583	1170	3539	0		
Right Turn on Red	Yes			Yes			Yes			Yes			
Satd. Flow (RTOR)	399			52									
Link Speed (mph)	30			30			30			30			
Link Distance (ft)	849			537			214			829			
Travel Time (s)	19.3			12.2			4.9			18.8			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Adj. Flow (vph)	522	820	399	0	0	0	255	165	111	555	0		
Shared Lane Traffic (%)													
Lane Group Flow (vph)	522	820	399	0	0	0	255	165	111	555	0		
Number of Detectors	1	1	1				0	0	1	1			
Detector Template													
Leading Detector (ft)	16	16	16				0	0	15	15			
Trailing Detector (ft)	0	0	0				0	0	-5	-5			
Detector 1 Position (ft)	0	0	0				0	0	-5	-5			
Detector 1 Size (ft)	16	16	16				6	20	20	20			
Detector 1 Type	O+EX	O+EX	O+EX				O+EX	O+EX	O+EX	O+EX			
Detector 1 Channel													
Detector 1 Extend (s)	0.0	0.0	0.0				0.0	0.0	0.0	0.0			
Detector 1 Queue (s)	0.0	0.0	0.0				0.0	0.0	0.0	0.0			
Detector 1 Delay (s)	0.0	0.0	0.0				0.0	0.0	0.0	0.0			
Turn Type	Perm	NA	Perm				NA	Perm	NA	NA			
Protected Phases	4	4	4				1,2,5	2	2	2			
Permitted Phases	4	4	4				1,2,5	2	2	2			
Detector Phase													
Switch Phase													
Minimum Initial (s)	7.0	7.0	7.0				15.0	15.0	15.0	5.0			
Minimum Split (s)	31.6	31.6	31.6				32.4	32.4	32.4	9.0			
Total Split (s)	49.0	49.0	49.0				33.0	33.0	33.0	15.0			
Total Split (%)	40.8%	40.8%	40.8%				27.5%	27.5%	27.5%	13%			
Maximum Green (s)	43.4	43.4	43.4				27.6	27.6	27.6	11.0			
Yellow Time (s)	3.3	3.3	3.3				3.3	3.3	3.3	3.0			
All-Red Time (s)	2.3	2.3	2.3				2.1	2.1	2.1	1.0			
Lost Time Adjust (s)	0.1	0.1	0.1				0.0	0.0	0.0	0.0			
Total Lost Time (s)	5.6	5.6	5.6				5.4	5.4	5.4				
Lead/Lag							Lag	Lag	Lead	Lead			
Lead/Lag Optimize?	2.0	2.0	2.0				Yes	Yes	Yes	Yes			
Vehicle Extension (s)	None	None	None				3.0	3.0	3.0	1.0			
Recall Mode	None	None	None				C-Min	C-Min	None	None			
Walk Time (s)	7.0	7.0	7.0				7.0	7.0	7.0	7.0			
Flash Dont Walk (s)	19.0	19.0	19.0				20.0	20.0	20.0	11.0			
Pedestrian Calls (flm)	0	0	0				0	0	0	0			
Act Erlc Green (s)	40.3	40.3	40.3				70.1	70.1	60.8	60.8			
Act Erlc Green (s)	40.3	40.3	40.3				0.98	0.98	0.92	0.92			
Adjusted g/C Ratio	0.88	0.89	0.89				0.83	0.83	0.83	0.83			
Green Delay	0.1	0.1	0.1				6.5	6.5	2.1	2.1			
Green Delay	54.1	37.4	4.9				20.1	11.6	24.1	22.6			
LOS	D	A	A				C	B	C	C			
Approach Delay							16.8	34.9		22.8			
Approach LOS							C	B	C	C			
Queue Length 50th (ft)	371	281	0				93	38	37	102			
Queue Length 95th (ft)	#540	344	65				145	76	m88	190			



Vehicle Extension (s)	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
None	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0
Recall Mode	None	C-Min	None	None	C-Min	C-Min	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dart Walk (s)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Pedestrian Cals. (#/hr)	10	10	10	10	10	10	10	10	10	10	10	10
Act Effct Green (s)	91.9	84.3	92.1	84.4	84.4	84.4	91.1	83.5	90.7	83.1	84.1	14.1
Actuated g/C Ratio	0.77	0.70	0.77	0.70	0.70	0.70	0.72	0.65	0.72	0.65	0.72	0.12
v/c Ratio	0.19	0.20	0.14	0.35	0.05	0.23	0.23	0.23	0.23	0.23	0.23	0.58
Control Delay	5.2	8.1	11.5	23.8	20.5	46.2	46.2	46.2	46.2	46.2	46.2	59.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.2	8.1	11.5	23.8	20.5	46.2	46.2	46.2	46.2	46.2	46.2	59.4
LOS	A	A	A	B	C	C	D	D	D	D	D	E
Approach Delay	7.6	22.4	22.4	7.6	22.4	22.4	7.6	22.4	22.4	22.4	22.4	59.4
Approach LOS	A	C	C	A	C	C	D	D	D	D	D	E
Queue Length 50th (ft)	10	52	19	305	31	32	32	32	32	32	32	86
Queue Length 95th (ft)	48	142	m83	340	m56	55	55	55	55	55	55	116
Internal Link Dist (ft)	483	483	483	483	483	483	483	483	483	483	483	483
Turn Bay Length (ft)	140	100	100	140	100	100	140	100	100	100	140	465
Base Capacity (vph)	591	2452	808	2488	1112	466	466	466	466	466	466	465
Slavation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.16	0.20	0.12	0.35	0.05	0.24	0.24	0.24	0.24	0.24	0.24	0.24



Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Chsr: 03 (50%), Referenced to phase 2EBTL and 6WBTL, Start of Yellow

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.36

Intersection Signal Delay: 20.5

Intersection Capacity Utilization: 46.2%

Analysis Period (min): 15

Volume for 95th percentile queue is measured by upstream signal.

Spills and Phases: 4: Clinton Ave & Tresser Blvd

Phase	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
01	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
02	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
03	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
04	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
05	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
06	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
07	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
08	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s

Intersection Summary

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Chsr: 03 (50%), Referenced to phase 2EBTL and 6WBTL, Start of Yellow

Natural Cycle: 80

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.36

Intersection Signal Delay: 20.5

Intersection Capacity Utilization: 46.2%

Analysis Period (min): 15

Volume for 95th percentile queue is measured by upstream signal.

Spills and Phases: 4: Clinton Ave & Tresser Blvd

Phase	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
01	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
02	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
03	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
04	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
05	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
06	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
07	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s
08	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s

Area Type	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	26	5	26	82	45	148
Traffic Volume (vph)	26	5	26	82	45	148
Future Volume (vph)	1900	1900	1900	1900	1900	1900
Ideal Flow (vph)	1,000	1,000	1,000	1,000	1,000	1,000
Lane Util. Factor	0.980	0.897				
Flt Protected	0.959					0.988
Satd. Flow (vph)	1751	0	1671	0	0	1656
Flt Permitted	0.959					0.988
Satd. Flow (vph)	1751	0	1671	0	0	1656
Link Speed (mph)	30					30
Link Distance (ft)	511					500
Travel Time (s)	11.6					8.9
Peak-Hour Factor	0.92		0.92		0.92	0.92
Parking (#/hr)						0
Adj. Flow (vph)	28	5	28	89	49	161
Shared Lane Traffic (%)						
Lane Group Flow (vph)	33	0	117	0	0	210
Sign Control	Stop	Free	Free	Free	Free	Free
Intersection Summary						
Area Type	Other					
Control Type	Unsignalized					
Intersection Capacity Utilization	26.9%					
Analysis Period (min)	15					
	ICU Level of Service A					

Intersection	Minor1	Major1	Minor2	Major2
Int Delay, s/veh	2			
Movement	WBL	WBR	NBT	NBR
Lane Configurations	26	5	26	82
Traffic Vol, veh/h	26	5	26	82
Future Vol, veh/h	26	5	26	82
Conflicting Pkts, #/hr	0	0	0	0
Sign Control	Stop	Stop	Free	Free
RT Channelized	-	None	-	None
Storage Length	0			
Veh in Median Storage, #	0			
Grade, %	0			
Peak Hour Factor	92	92	92	92
Heavy Vehicles, %	2	2	2	2
Mvmt Flow	28	5	28	89
	49	161		
Major/Minor	Minor1	Major1	Minor2	Major2
Conflicting Flow All	332	73	0	117
Stage 1	73	-	-	-
Stage 2	259	-	-	-
Critical Hdwy	6.42	6.22	-	4.12
Critical Hdwy Sig 1	5.42	-	-	-
Critical Hdwy Sig 2	5.42	-	-	-
Follow-up Hdwy	3.518	3.318	-	2.218
Pot Cap-1 Maneuver	663	989	-	1471
Stage 1	950	-	-	-
Stage 2	784	-	-	-
Platoon blocked, %				
Mov Cap-1 Maneuver	638	989	-	1471
Mov Cap-2 Maneuver	638	-	-	-
Stage 1	950	-	-	-
Stage 2	755	-	-	-
Approach	WB	NB	SB	SB
HCM Control Delay, s	10.6	0		1.8
HCM LOS	B			
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL
Capacity (veh/h)	-	677	1471	-
HCM Lane V/C Ratio	-	0.05	0.033	-
HCM Control Delay (s)	-	10.6	7.5	0
HCM Lane LOS	-	B	A	A
HCM 95th %ile Q(veh)	-	0.2	0.1	-

100 Clinton Avenue
S. Clinton Ave & Richmond Hill Ave

Background (2025) Conditions
All Peak

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Internal Link Dist (ft)	403			275			346			216		310
Turn Bay Length (ft)				275			346					
Turn Bay Length (ft)				275			346					
Base Cap (vph)	809			397			876					903
Station Cap Reductn	0			0			0					0
Storage Cap Reductn	0			0			0					0
Storage Cap Reductn	0			0			0					0
Storage Cap Reductn	0			0			0					0
Reductn % Ratio	0.53			0.22			0.23					0.21
Intersection Summary	Other											
Area Type:	Other											
Cycle Length:	120											
Actuated Cycle Length:	97.8											
Natural Cycle:	95											
Control Type:	Actuated-Uncoordinated											
Maximum v/c Ratio:	0.71											
Intersection Signal Delay:	27.4											
Intersection LOS:	C											
Intersection Capacity Utilization:	50.3%											
Analysis Period (min):	15											
Splits and Phases: 6: Clinton Ave & Richmond Hill Ave												

100 Clinton Avenue
S. Clinton Ave & Richmond Hill Ave

Background (2025) Conditions
All Peak

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	1	1	1	1	1	1	1	1	1	1	1	1
Left Lane (vph)	102	148	143	82	184	5	0	0	0	51	5	71
Through Lane (vph)	102	148	143	82	184	5	0	0	0	51	5	71
Right Lane (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	25	1	0	275	1	0	0	0	0	0	0	0
Storage Lanes	1	0	0	1	0	0	0	0	0	1	0	0
Travel Length (ft)	50	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00
Lane Util. Factor	0.95	0.946	0.946	0.996	0.996	0.996	0.944	0.944	0.944	0.944	0.944	0.944
Flt Protected	0	0	0	0	0	0	0	0	0	0	0	0
Satd. Flow (prot)	0	3305	0	1770	1855	0	0	1770	1770	0	1734	0
Flt Permitted	0	0	0	0	0	0	0	0	0	0	0	0
Satd. Flow (perm)	0	2709	0	576	1855	0	0	1770	1770	0	1671	0
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	85	37	37	37	37	37	37	37	37	37	37	37
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	483	426	426	296	296	296	390	390	390	390	390	390
Travel Time (s)	11.0	9.7	9.7	9.7	9.7	9.7	6.7	6.7	6.7	8.9	8.9	8.9
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	111	161	155	89	200	5	0	0	0	55	5	77
Shared Lane Traffic (%)	0%											
Lane Group Flow (vph)	0	427	0	89	205	0	0	0	0	0	187	0
Number of Detectors	1	0	0	1	1	0	0	0	0	1	1	1
Detector Template	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left
Leading Detector (ft)	20	0	48	48	48	20	40	40	20	40	20	45
Trailing Detector (ft)	0	0	-2	-2	-2	0	-10	-10	0	-5	-5	-5
Detector 1 Position (ft)	0	0	-2	-2	-2	0	-10	-10	0	-5	-5	-5
Detector 1 Size (ft)	20	6	50	50	50	20	50	50	20	50	50	50
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1	Detector 1
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	Perm	NA	pm-pt	NA	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	6	6	2	2	2	8	8	8	8	4	4	4
Permitted Phases	6	6	2	2	2	8	8	8	8	4	4	4
Detector Phase	6	6	2	2	2	8	8	8	8	4	4	4
Switch Phase	None											
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Minimum Split (s)	31.4	31.4	31.4	19.0	31.4	10.9	10.9	10.9	29.7	29.7	29.7	29.7
Total Split (s)	33.1	33.1	33.1	19.0	33.1	10.9	10.9	10.9	57.0	57.0	57.0	57.0
Total Split (%)	27.6%	27.6%	27.6%	15.8%	27.6%	9.1%	9.1%	9.1%	47.5%	47.5%	47.5%	47.5%
Maximum Green (s)	26.7	26.7	26.7	15.0	26.7	6.0	6.0	6.0	51.3	51.3	51.3	51.3
Yellow Time (s)	3.3	3.3	3.3	3.0	3.3	3.0	3.0	3.0	3.3	3.3	3.3	3.3
All-Red Time (s)	3.1	3.1	3.1	1.0	3.1	1.9	1.9	1.9	2.4	2.4	2.4	2.4
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.4	6.4	4.0	6.4	4.0	4.0	4.0	4.9	4.9	4.9	4.9
Lead/Lag	Lag	Lag	Lag	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	5.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	Min	Min	Min	None	Min	None	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dont Walk (s)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Pedestrian Call (flm)	10	10	10	10	10	10	10	10	10	10	10	10
Act Eric Green (s)	19.2	19.2	19.2	33.7	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
Act Eric Green (s)	0.20	0.20	0.20	0.34	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Act Rate G/C Ratio	0.71	0.71	0.71	0.92	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Control Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Delay	37.1	37.1	37.1	20.6	37.1	20.6	24.0	24.0	24.0	12.1	12.1	12.1
LOS	D	C	C	C	C	C	C	C	C	B	B	B
Approach Delay	37.1	37.1	37.1	23.0	37.1	23.0	23.0	23.0	23.0	12.1	12.1	12.1
Approach LOS	D	D	D	C	D	C	C	C	C	B	B	B
Queue Length 50th (ft)	111	111	111	36	111	36	91	91	91	50	50	50
Queue Length 95th (ft)	165	165	165	68	165	68	146	146	146	102	102	102

100 Clinton Avenue
 7: Washington Blvd & Tresser Blvd

Background (2025) Conditions
 All Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø9	Ø10
Lane Configurations	111	374	46	161	61	81	59	873	138	89	1041	59		
Turn Volumes (vph)	111	374	46	161	61	81	59	873	138	89	1041	59		
Through Volumes (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Storage Length (ft)	320	0	0	180	0	0	200	230	200	230	230	230		
Storage Lanes	1	0	0	1	0	0	1	1	1	1	1	1		
Trace Length (ft)	100	0.91	0.91	1.00	0.91	0.91	1.00	0.95	1.00	1.00	0.95	1.00		
Lane Util. Factor	0.950	0.984	0.950	0.992	0.950	0.950	0.850	0.850	0.950	0.950	0.850	0.850		
Flt Protected	1770	5004	0	1770	4994	0	1770	3539	1563	1770	3539	1563		
Satd. Flow (prot)	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950		
Satd. Flow (perm)	1770	5004	0	1770	4994	0	1770	3539	1563	1770	3539	1563		
Right Turn on Red			No			No								
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30	30	30		
Link Distance (ft)	677	703	703	703	703	703	578	578	404	404	404	404		
Travel Time (s)	15.4	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Adj. Flow (vph)	121	407	50	175	664	88	64	949	150	97	1132	64		
Shared Lane Traffic (%)														
Lane Group Flow (vph)	121	457	0	175	752	0	64	949	150	97	1132	64		
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1		
Detector Template	40	45	40	45	40	45	40	45	40	45	40	45		
Leading Detector (ft)	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5		
Trailing Detector (ft)	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5		
Detector 1 Position (ft)	50	50	50	50	50	50	50	50	50	50	50	50		
Detector 1 Size (ft)	50	50	50	50	50	50	50	50	50	50	50	50		
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX		
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Turn Type	Prot.	NA	Prot.	NA	Prot.	NA	Prot.	NA	Prot.	NA	Prot.	NA		
Protected Phases	7	4	3	8	5	2	1	6	9	10	6	9		
Permitted Phases	7	4	3	8	5	2	2	2	1	6	6	6		
Detector Phase														
Switch Phase														
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	15.0	5.0	15.0	5.0	15.0	5.0	15.0		
Minimum Split (s)	9.0	30.4	9.0	30.6	30.6	9.0	30.6	30.6	3.0	30.6	3.0	30.6		
Total Split (s)	16.0	35.0	16.0	35.0	10.0	41.0	22.0	53.0	53.0	3.0	3.0	3.0		
Total Split (%)	13.3%	29.2%	13.3%	29.2%	8.3%	34.2%	18.3%	44.2%	44.2%	3%	3%	3%		
Maximum Green (s)	12.0	29.6	12.0	29.6	6.0	35.4	18.0	47.4	47.4	1.0	1.0	1.0		
Yellow Time (s)	3.0	3.7	3.0	3.7	3.0	3.3	3.3	3.3	3.3	2.0	2.0	2.0		
All-Red Time (s)	1.0	1.7	1.0	1.7	1.0	2.3	2.3	1.0	2.3	2.3	0.0	0.0		
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)	4.0	5.4	4.0	5.4	4.0	5.6	5.6	4.0	5.6	4.0	5.6	5.6		
Lead/Lag	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead		
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Vehicle Extension (s)	1.0	3.0	1.0	3.0	1.0	3.0	1.0	3.0	3.0	3.0	3.0	3.0		
Recall Mode	None	None	None	None	None	C-Min	C-Min	None	C-Min	C-Min	None	None		
Walk Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Flash Dont Walk (s)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0		
Pedestrian Calls (P/Min)	30	30	30	30	30	30	30	30	30	30	30	30		
Act Call Green (s)	14.0	20.5	17.9	24.5	6.6	46.6	46.6	14.0	57.8	57.8	57.8	57.8		
Approach G/C Ratio	0.12	0.15	0.15	0.20	0.06	0.46	0.46	0.12	0.46	0.46	0.46	0.46		
P/C Ratio	895	0.33	809	0.77	877	0.66	0.72	317	858	298	208	208		
Control Delay	0.0	0.3	0.0	0.42	0.3	35.4	31.7	55.8	55.8	0.2	0.2	0.2		
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Turn Delay	68.5	44.3	60.7	49.2	67.5	35.4	31.7	55.8	28.4	20.6	20.6	20.6		
LOS	E	E	E	D	E	D	C	E	C	E	C	C		
Approach Delay	49.3	51.4	49.3	51.4	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3		
Approach LOS	D	D	D	D	D	D	D	D	D	D	D	D		
Queue Length 50th (ft)	98	119	129	200	66	48	216	56	69	394	30	30		
Queue Length 95th (ft)	159	151	204	236	116	121	323	116	123	473	58	58		

Lanes, Volumes, Timings
 SLR

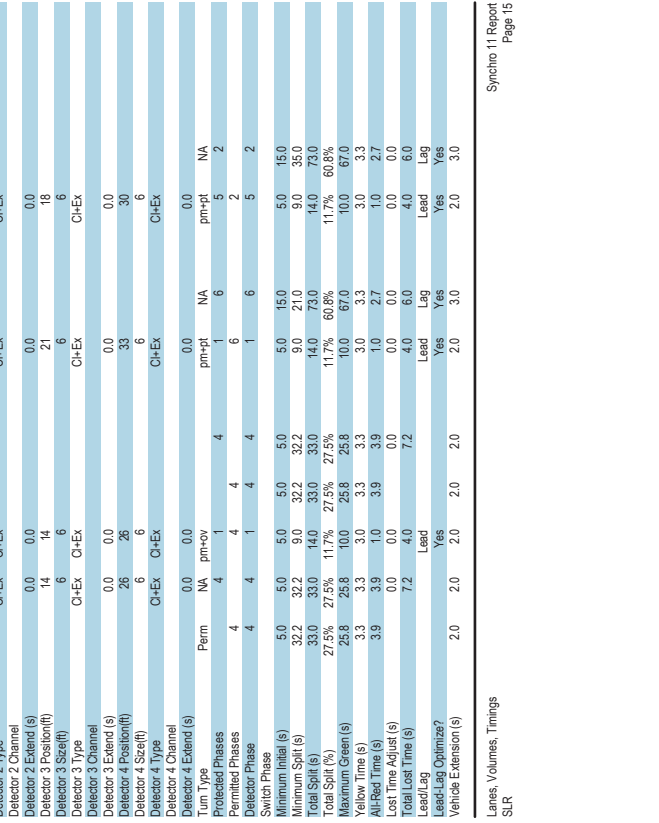
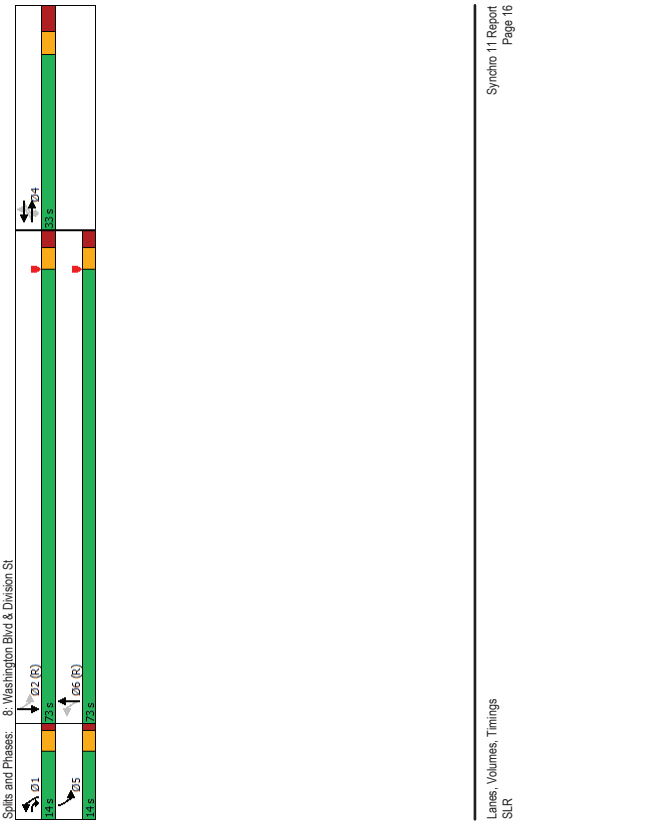
Lanes, Volumes, Timings
 SLR

100 Clinton Avenue
8: Washington Blvd & Division St

Background (2025) Conditions
All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Recall Marks	None	None	None	None	None	None	None	None	None	None	None	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Duration (s)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	22.0
Pedestrian Cals. (#/hr)	30	30	30	30	30	30	30	30	30	30	30	30
Act Effect Green (s)	17.1	27.2		93.5	91.5		0.78	0.76		0.76	0.72	85.8
Act Effect Red (s)	0.14	0.23		0.13	0.06		0.13	0.53		0.02	0.63	0.63
Act Effect Yellow (s)	45.8	11.2		4.1	7.3		0.0	0.0		0.0	0.3	0.3
Control Delay	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	0.0
Queue Delay	45.8	11.2		4.1	7.3		0.0	0.0		0.0	0.0	0.0
Total Delay	D	B		A	A		A	A		A	A	A
LOS	D	B		A	A		A	A		A	A	A
Approach Delay	29.9						7.3					6.6
Approach LOS	C						A					A
Queue Length 50m (ft)	16	0		5	272		5	272		1	143	
Queue Length 99m (ft)	44	18		m6	305		305		m1	161		
Internal Link Dist (ft)	431			172			276			498		
Turn Bay Length (ft)	170			280	2698		347	2521				
Base Capacity (vph)	303	440		0	112		0	351		0	0	0
Stallion Cap Reductn	0	0		0	0		0	0		0	0	0
Spillback Cap Reductn	0	0		0	0		0	0		0	0	0
Storage Cap Reductn	0	0		0	0		0	0		0	0	0
Reduced v/c Ratio	0.09	0.05		0.00	0.55		0.01	0.74		0.01	0.74	

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	24	20	0	0	0	0	26	1307	0	5	1426	41
Trucks (vph)	24	0	0	0	0	0	26	1307	0	5	1426	41
Trucks Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vph)	0	170	0	0	0	0	100	100	0	100	1900	1900
Storage Length (ft)	25	1	0	0	0	0	1	0	0	1	0	0
Truck Length (ft)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Link Util. Factor	0.830			0.950			0.950			0.950		0.950
Flt Protected	0	1770	1583	0	1863	0	1770	3539	0	1770	3525	0
Satd. Flow (perm)	0	1410	1583	0	1863	0	190	3539	0	285	3525	0
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	27			30			30			4		4
Link Speed (mph)	511			252			356			578		578
Travel Time (s)	11.6			5.7			8.1			13.1		13.1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	26	0	22	0	0	0	28	1421	0	5	1550	45
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	26	22	0	0	0	28	1421	0	5	1555	0
Number of Detectors	1	4	4	1	1	1	4	1	4	1	4	1
Detector Templates	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left
Leading Detector (ft)	20	32	32	20	6	39	50	36	50	36	50	36
Trailing Detector (ft)	0	-10	-10	0	-3	0	-3	0	-6	0	-6	0
Detector 1 Position (ft)	0	-10	-10	0	-3	0	-3	0	-6	0	-6	0
Detector 1 Size (ft)	20	6	6	20	6	6	50	6	50	6	50	6
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position (ft)	2	2	2	9	9	9	6	6	6	6	6	6
Detector 2 Size (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 2 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 2 Channel												
Detector 2 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Position (ft)	14	14	14	21	21	21	18	18	18	18	18	18
Detector 3 Size (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 3 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 3 Channel												
Detector 3 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Position (ft)	26	26	26	33	33	33	30	30	30	30	30	30
Detector 4 Size (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 4 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 4 Channel												
Detector 4 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Permitted Phases	4	4	4	4	4	4	6	6	6	6	6	6
Detector Phase	4	4	4	4	4	4	1	6	5	2	2	2
Switch Phase	5.0	5.0	5.0	5.0	5.0	5.0	15.0	5.0	15.0	5.0	15.0	5.0
Minimum Split (s)	32.2	32.2	32.2	32.2	32.2	32.2	30.0	21.0	30.0	35.0	35.0	35.0
Yield Split (s)	35.0	35.0	35.0	35.0	35.0	35.0	11.7	60.8	11.7	60.8	60.8	60.8
Total Split (%)	27.3%	27.3%	27.3%	27.3%	27.3%	27.3%	11.7%	60.8%	11.7%	60.8%	60.8%	60.8%
Maximum Green (s)	33	33	33	33	33	33	30	30	30	30	30	30
Yellow Time (s)	3.9	3.9	3.9	3.9	3.9	3.9	3.0	2.7	3.0	2.7	2.7	2.7
All-Red Time (s)	3.9	3.9	3.9	3.9	3.9	3.9	3.0	2.7	3.0	2.7	2.7	2.7
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.2	4.0	4.0	7.2	4.0	4.0	6.0	4.0	6.0	4.0	6.0	6.0
Lead/Lag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lead/Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	2.0	3.0



100 Clinton Avenue
 9. Washington Blvd & Richmond Hill Ave

Background (2025) Conditions
 All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Lane Configurations	107	92	0	0	5	230	1220	5	5	140	41	41	
Turn Bay Volume (vph)	107	92	0	0	5	230	1220	5	5	140	41	41	
Right Turn Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	0	0	0	140	0	0	0	0	0	0	
Storage Lanes	1	0	0	0	0	1	0	0	0	0	0	0	
Truck Length (ft)	25	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	0.95	0.95	0.95	
Link Util. Factor	1.00	0.850	0	0	0.865	0.999	0.999	0.999	0.999	0.999	0.999	0.999	
Flt Protected	0.950					0.950							
Satd. Flow (prot)	1770	1583	0	0	1611	0	1770	3536	0	0	3525	0	
Flt Permitted	0.754				0.084						0.951		
Satd. Flow (perm)	1405	1583	0	0	1611	0	156	3536	0	0	3352	0	
Right Turn on Red			No		No			No		No		No	
Satd. Flow (RTOR)	30	30	0	30	30	0	250	1326	5	5	1522	45	
Link Speed (mph)	426	205	4.7	7.4	7.4	8.1	8.1	8.1	8.1	8.1	8.1	8.1	
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Peak Hour Factor	116	0	100	0	5	250	1326	5	5	1522	45	45	
Adj. Flow (vph)													
Shared Lane Traffic (%)													
Lane Group Flow (vph)	116	100	0	5	0	250	1331	0	0	1572	0	0	
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1	
Detector Template	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	
Leading Detector (ft)	50	50	20	50	40	40	20	40	20	40	20	40	
Trailing Detector (ft)	0	0	0	-10	-10	-10	0	-10	0	-10	0	-10	
Detector 1 Position (ft)	0	0	0	0	0	-10	-10	0	-10	0	-10	0	
Detector 1 Size (ft)	50	50	20	50	50	50	20	50	20	50	20	50	
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	NA	NA	pm+pt	NA	Perm	NA	Perm	NA	NA	NA	
Protected Phases	4	4	4	4	4	5	2	6	6	6	6	6	
Permitted Phases	4	4	4	4	4	5	2	6	6	6	6	6	
Detector Phase													
Switch Phase													
Minimum Initial (s)	5.0	5.0	5.0	5.0	7.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Minimum Split (s)	24.2	24.2	24.2	24.2	11.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	
Total Split (s)	25.0	25.0	25.0	25.0	22.0	91.0	69.0	69.0	69.0	69.0	69.0	69.0	
Total Split (%)	20.8%	20.8%	20.8%	20.8%	18.3%	75.8%	57.5%	57.5%	57.5%	57.5%	57.5%	57.5%	
Maximum Green (s)	20.8	20.8	20.8	20.8	18.0	86.0	64.0	64.0	64.0	64.0	64.0	64.0	
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
All-Red Time (s)	1.2	1.2	1.2	1.2	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.2	4.2	4.2	4.2	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lag	Lag	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lag	Lag	Lag	
Lead/Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Recall Mode	None	None	None	None	None	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	
Walk Time (s)	3.0	3.0	3.0	3.0	3.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)	3.0	3.0	3.0	3.0	3.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	
Pedestrian Callout (flm)	30	30	30	30	30	95.8	94.8	94.8	94.8	94.8	94.8	94.8	
Act Erlic Green (s)	16.0	16.0	16.0	16.0	0.13	0.90	0.79	0.92	0.92	0.92	0.92	0.92	
Act Erlic Green Ratio	0.62	0.62	0.62	0.62	0.13	0.73	0.69	0.73	0.73	0.73	0.73	0.73	
VC Ratio	0.62	0.62	0.62	0.62	0.13	0.73	0.69	0.73	0.73	0.73	0.73	0.73	
Control Delay	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	
Queue Delay	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	
LOS	E	E	E	E	D	D	D	D	D	D	D	D	
Approach Delay	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	
Approach LOS	E	E	E	E	D	D	D	D	D	D	D	D	
Queue Length 50th (ft)	83	70	70	70	106	107	107	107	107	107	107	107	
Queue Length 95th (ft)	144	124	124	124	15	m128	m128	m128	m128	m128	m128	m128	

100 Clinton Avenue
 9. Washington Blvd & Richmond Hill Ave

Background (2025) Conditions
 All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Internal Link Dist (ft)	346			125			140			246		276	
Turn Bay Length (ft)				279			384			2793		2082	
Base Cap (vph)	243	274	0	279	0	0	23	661	0	111	0	142	
Station Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Reduced v/c Ratio	0.48	0.36	0.02	0.02	0.02	0.69	0.62	0.81	0.81	0.81	0.81	0.81	
Intersection Summary	Other												
Area Type:	Other												
Cycle Length:	120												
Actuated Cycle Length:	120												
Offset:	28 (23%, Referenced to phase 2;NBL and 6;SBTL Start of Yellow)												
Natural Cycle:	90												
Control Type:	Actuated-Coordinated												
Maximum v/c Ratio:	0.76												
Intersection Signal Delay:	11.5												
Intersection LOS:	B												
ICU Level of Service F													
Intersection Capacity Utilization	98.5%												
Analysis Period (min)	15												
m	Volume for 95th percentile queue is metered by upstream signal.												
Splits and Phases: 9. Washington Blvd & Richmond Hill Ave													

100 Clinton Avenue
10: Washington Blvd & I-95 SB On Ramp/N State St

Background (2025) Conditions
All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Line Configurations	0	0	0	384	112	488	317	957	10	0	825	667
Trucks/Vol (vph)	0	0	0	384	112	488	317	957	10	0	825	667
Trucks/Vol (vph)	0	0	0	384	112	488	317	957	10	0	825	667
Peak Hour Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Line Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00
Fit Protected				0.950				0.950				0.850
Stall Flow (vph)	0	0	0	1770	1863	1583	1770	3532	0	0	3539	1583
Fit Permitted				0.950			0.151					
Right Turn on Red	0	0	0	1770	1863	1583	281	3532	0	0	3539	1583
Right Turn on Red	Yes			Yes			Yes	Yes			Yes	Yes
Link Speed (mph)	30			30			94	30			30	504
Link Distance (ft)	435			486			334	326			326	7.4
Travel Time (s)	9.9			11.0			7.6	7.4			7.4	0.92
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	428	122	541	345	1040	11	0	897	725
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	428	122	541	345	1051	0	0	897	725
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1
Detector Template												
Leading Detector (ft)	40	40	50	40	50	40	50	50	50	50	50	0
Trailing Detector (ft)	-10	-10	0	-10	0	-10	0	0	0	0	0	0
Detector 1 Position (ft)	-10	-10	0	-10	0	-10	0	0	0	0	0	0
Detector 1 Size (ft)	50	50	50	50	50	50	50	50	50	50	50	50
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	Perm	NA	Perm	pm-pt	NA	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases	8	8	8	8	8	8	8	8	8	8	8	8
Permitted Phases	8	8	8	8	8	8	8	8	8	8	8	8
Detector Phase												
Switch Phase												
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	15.0
Minimum Split (s)	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	25.3
Total Split (s)	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	43.0
Total Split (%)	39.2%	39.2%	39.2%	39.2%	39.2%	39.2%	39.2%	39.2%	39.2%	39.2%	39.2%	35.8%
Maximum Green (s)	40.9	40.9	40.9	28.0	28.0	28.0	67.7	37.7	37.7	37.7	37.7	33.3
Yellow Time (s)	3.7	3.7	3.7	3.0	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	2.4	2.4	2.4	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.1	6.1	6.1	4.0	4.0	4.0	5.3	5.3	5.3	5.3	5.3	5.3
Lead/Lag												
Lead-Lag Optimize?	Yes			Yes			Yes	Yes			Yes	Yes
Vehicle Extension (s)	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	Min	Min	Min	C-Max	C-Max	C-Max	C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash/Dont Walk (s)	22.0	22.0	22.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Pedestrian Calls (fl/h)	30	30	30	30	30	30	30	30	30	30	30	30
Act Erld Green (s)	38.4	38.4	38.4	71.5	70.2	44.8	44.8	44.8	44.8	44.8	44.8	44.8
AccuLd g/C Ratio	0.32	0.32	0.32	0.60	0.58	0.37	0.37	0.37	0.37	0.37	0.37	0.37
v/c Ratio	0.16	0.21	0.35	0.19	0.51	0.68	0.60	0.60	0.60	0.60	0.60	0.60
Control Delay	48.8	29.8	60.2	34.4	16.2	20.9	11.9	11.9	11.9	11.9	11.9	11.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2
LOS Delay	48.8	29.8	60.2	34.4	16.2	24.1	29.0	29.0	29.0	29.0	29.0	29.0
LOS	D			E	C		C	C			C	C
Approach Delay				51.1			20.7	26.3			26.3	26.3
Approach LOS				D			C	C			C	C
Queue Length 50th (ft)	287	66	339	159	253	207	383	383			383	383
Queue Length 85th (ft)	408	114	455	287	310	346	469	469			469	469
Internal Link Dist (ft)				406			254	246			246	246
Turn Bar Length (ft)				355								
Base Capacity (vph)	603	634	601	490	2068	1320	906	906			906	906

Lanes, Volumes, Timings
SLR

Lanes, Volumes, Timings
SLR

100 Clinton Avenue
 1: Greenwich Ave & W Main St/Tresser Blvd

Background (2025) Conditions
 PM Peak

Line Group	EBL	EBT	EBR	EBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	EBL	EBT	EBR	EBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Turns (vph)	82	62	66	117	45	97	66	265	189	77	128	102
Flows (vph)	82	62	66	117	45	97	66	265	189	77	128	102
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50	0	150	0	0	0	50	40	0	0	20	2
Storage Lanes	1	0	1	0	0	0	1	1	1	1	1	2
Trace Length (ft)	80	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.95	1.00
Lane Util. Factor	1.00	0.996	0.990	0.974	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Flt Protected	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Satd. Flow (prot)	1770	3490	0	1770	3447	0	1770	1863	1563	1770	3539	1425
Flt Permitted	0.397	0.294	0	0.294	0	0.664	0.274	0.274	0.274	0.274	0.274	0.274
Satd. Flow (perm)	740	3490	0	548	3447	0	1237	1863	1563	510	3539	1425
Right Turn on Red		Yes		Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	14	31		31		105	105	105	105	105	105	111
Link Speed (mph)	30	30		30		30	30	30	30	30	30	30
Link Distance (ft)	331	563		563		929	929	929	929	929	929	929
Travel Time (s)	7.5	12.8		12.8		21.1	21.1	21.1	21.1	21.1	21.1	7.6
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Parking (#/hr)	89	676	72	127	493	105	72	288	205	84	139	111
Shared Lane Traffic (%)	89	748	0	127	598	0	72	288	205	84	139	111
Lane Group Flow (vph)	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detectors	40	50	40	50	40	50	40	40	40	40	100	50
Leading Detector (ft)	-10	0	-10	0	-10	0	-10	-10	-10	-10	0	0
Trailing Detector (ft)	-10	0	-10	0	-10	0	-10	-10	-10	-10	0	0
Detector 1 Position (ft)	50	50	50	50	50	50	50	50	50	50	50	50
Detector 1 Sizing (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Sizing (ft)	6											6
Detector 2 Channel	O+EX											O+EX
Detector 2 Extend (s)	0.0											0.0
Detector 2 Queue (s)	0.0											0.0
Turn Type	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA
Protected Phases	1	6	5	2	7	4	4	4	4	3	8	8
Permitted Phases	6	2	2	4	4	4	4	4	4	8	8	8
Detector Phase	1	6	5	2	7	4	4	4	4	3	8	8
Switch Phase												
Minimum Initial (s)	4.0	20.0	4.0	20.0	4.0	10.0	10.0	4.0	10.0	4.0	10.0	10.0
Minimum Split (s)	8.0	32.6	8.0	32.6	8.0	36.2	36.2	8.0	36.2	8.0	36.2	36.2
Total Split (s)	12.0	66.0	12.0	66.0	12.0	28.0	28.0	12.0	28.0	12.0	28.0	28.0
Total Split (%)	10.9%	52.7%	10.9%	52.7%	10.9%	25.5%	25.5%	10.9%	25.5%	10.9%	25.5%	25.5%
Maximum Green (s)	8.0	52.4	8.0	52.4	8.0	22.8	22.8	8.0	22.8	8.0	22.8	22.8
Yellow Time (s)	3.0	3.7	3.0	3.7	3.0	3.7	3.7	3.0	3.7	3.0	3.7	3.7
All-Red Time (s)	1.0	1.9	1.0	1.9	1.0	1.5	1.5	1.0	1.5	1.0	1.5	1.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.6	4.0	5.6	4.0	5.2	5.2	4.0	5.2	4.0	5.2	5.2
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lead-Lag Extension(s)	1.0	3.0	1.0	3.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0
Recall Mode	None	C-Min	None	C-Min	None	None	None	None	None	None	None	None
Work Time (s)	20.0		20.0		20.0	24.0	24.0	20.0	24.0	20.0	24.0	24.0
First Dont Walk (s)	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Clear Time (s)	63.9	66.8	63.9	66.8	63.9	66.8	66.8	63.9	66.8	63.9	66.8	66.8
Act Effc G/C Ratio	0.98	0.951	0.98	0.951	0.98	0.951	0.951	0.98	0.951	0.98	0.951	0.951
v/c Ratio	0.18	0.42	0.31	0.32	0.20	0.77	0.51	0.38	0.19	0.29	0.29	0.29
Control Delay	11.7	19.9	12.6	17.0	12.6	17.0	12.6	17.0	12.6	17.0	12.6	17.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Lanes, Volumes, Timings
 SLR

100 Clinton Avenue
 1: Greenwich Ave & W Main St/Tresser Blvd

Background (2025) Conditions
 PM Peak

Line Group	EBL	EBT	EBR	EBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	EBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Total Delay	11.7	19.9	12.6	17.0	12.6	17.0	12.6	17.0	12.6	17.0	12.6	17.0
LOS	B	B	B	B	B	B	B	B	B	C	C	A
Approach Delay	19.0		16.2		16.2		39.2		39.2	24.7		24.7
Approach LOS	B		B		B		D		D	C		C
Queue Length (ft)	24	166	35	119	35	119	36	195	61	43	43	0
Queue Length (s)	59	284	80	208	80	208	80	261	121	67	67	0
Internal Link Dist (ft)	50	251			483		849		849	254		254
Turn Bar Length (ft)	50	150			150		50		50	40		40
Base Capacity (vph)	520	1888	432	1936	432	1936	376	420	438	240	809	411
Storage Cap Reduct	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reduct	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.17	0.40	0.29	0.31	0.29	0.31	0.19	0.69	0.47	0.35	0.17	0.27
Intersection Summary												
Area Type:	Other											
Actuated Cycle Length: 110												
Offset: 105 (95%), Referenced to phase 2/WBTL and 6/EBTL, Start of Yellow												
Natural Cycle: 85												
Control Type: Actuated-Coordinated												
Maximum v/c Ratio: 0.77												
Intersection Signal Delay: 23.6												
Intersection Capacity Utilization: 99.7%												
Analysis Period (min): 15												

Lanes, Volumes, Timings
 SLR

100 Clinton Avenue
2. Greenwich Ave & Richmond Hill Ave

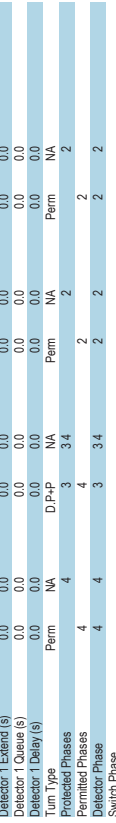
Background (2025) Conditions
PM Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shrinker Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.30			0.45			0.73					0.39

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shrinker Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shoulder Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.30			0.45			0.73					0.39

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 8 (7%), Referenced to phase 2:NBSB, Start of Yellow
 Natural Cycle: 80
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.92
 Intersection Signal Delay: 39.5
 Intersection Capacity Utilization: 75.0%
 Analysis Period (min): 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

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 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 8 (7%), Referenced to phase 2:NBSB, Start of Yellow
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 Maximum v/c Ratio: 0.92
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 Analysis Period (min): 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.



Splits and Phases: 2: Greenwich Ave & Richmond Hill Ave

Phase	02 (R)	03	04
Green	58.5	58.5	58.5
Yellow	3.0	3.0	3.0
Red	3.0	3.0	3.0

Splits and Phases: 2: Greenwich Ave & Richmond Hill Ave

Phase	02 (R)	03	04
Green	58.5	58.5	58.5
Yellow	3.0	3.0	3.0
Red	3.0	3.0	3.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø1	Ø5
Internal Link Dist (ft)														
Turn Bay Length (ft)	225	769	225		457			134				749		
Base Cap (vph)	466	933	533					1215		1041		397		1553
Station Cap Reductn	0	0	0					750		635		0		0
Storage Cap Reductn	0	0	0					0		0		0		0
Storage Cap Reductn	0	0	0					0		0		0		0
Reductn v/c Ratio	0.45	0.82	0.31					1.05		0.96		0.19		0.20
Intersection Summary														
Area Type: Other														
Cycle Length: 120														
Actuated Cycle Length: 120														
Offset: 115 (96%), Referenced to phase 2.NBSB, Start of Yellow														
Natural Cycle: 100														
Control Type: Actuated-Coordinated														
Maximum v/c Ratio: 0.82														
Intersection Signal Delay: 36.5														
Intersection LOS: D														
ICU Level of Service C														
Analysis Period (min) 15														
m Volume for 95th percentile queue is metered by upstream signal.														

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø1	Ø5
Lane Configurations	194	704	153	0	0	0	0	449	357	71	286	0		
Flows Volume (vph)	194	704	153	0	0	0	0	449	357	71	286	0		
Flows Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Storage Length (ft)	225	769	225	0	0	0	0	50	75	50	230			
Storage Lanes	1	1	1	0	0	0	0	1	1	1	1			
Tract Length (ft)	200	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00		
Lane Util. Factor	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830		
Flt Protected	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950		
Satd. Flow (prot)	1770	3539	1553	0	0	0	0	1863	1553	1770	3539	0		
Flt Permitted	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950		
Satd. Flow (perm)	1770	3539	1553	0	0	0	0	1863	1553	1770	3539	0		
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Satd. Flow (RTOR)	158	30	30	30	30	30	30	30	30	30	30	30		
Link Speed (mph)	849	537	537	537	537	537	537	537	537	537	537	537		
Travel Time (s)	19.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Adj. Flow (vph)	211	765	166	0	0	0	0	488	388	77	311	0		
Shared Lane Traffic (%)														
Lane Group Flow (vph)	211	765	166	0	0	0	0	488	388	77	311	0		
Number of Detectors	1	1	1	0	0	0	0	0	0	1	1	0		
Detector Template	16	16	16	0	0	0	0	0	0	0	15	15		
Leading Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0		
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	0	0	0		
Detector 1 Position (ft)	0	0	0	0	0	0	0	0	0	0	0	0		
Detector 1 Size (ft)	16	16	16	0	0	0	0	6	20	20	20	20		
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX		
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Turn Type	Perm	NA	Perm	Perm	Perm	Perm	Perm	Perm	Perm	Perm	Perm	Perm		
Protected Phases	4	4	4	1,2,5	2	2	1	1,2,5	2	2	1	5		
Permitted Phases	4	4	4	1	1	1	1	1	1	1	1	2		
Detector Phase														
Switch Phase														
Minimum Initial (s)	7.0	7.0	7.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0		
Minimum Split (s)	31.6	31.6	31.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4		
Total Split (s)	32.0	32.0	32.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
Total Split (%)	26.7%	26.7%	26.7%	31.7%	31.7%	31.7%	31.7%	31.7%	31.7%	31.7%	31.7%	31.7%		
Maximum Green (s)	26.4	26.4	26.4	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6		
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
All-Red Time (s)	2.3	2.3	2.3	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1		
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)	5.6	5.6	5.6	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4		
Lead/Lag				Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead		
Lead/Lag Optimize?	2.0	2.0	2.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Vehicle Extension (s)	None	None	None	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
Recall Mode	None	None	None	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min		
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
Flash Dont Walk (s)	19.0	19.0	19.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0		
Pedestrian Call (ft/m)	0	0	0	0	0	0	0	0	0	0	0	0		
Act Eff Green (s)	31.2	31.2	31.2	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7		
Adjusted G/C Ratio	0.85	0.85	0.85	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66		
G/C Ratio	0.85	0.85	0.85	0.40	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37		
Green Delay	0.2	0.2	0.2	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8		
Green Delay	40.2	49.6	7.6	47.8	25.8	19.3	17.2	17.2	17.2	17.2	17.2	17.2		
LOS	D	A	A	D	C	B	B	B	B	B	B	B		
Approach Delay	41.8	41.8	41.8	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0		
Approach LOS	D	D	D	D	D	D	D	D	D	D	D	D		
Queue Length 50th (ft)	135	288	5	168	121	25	52	52	52	52	52	52		
Queue Length 95th (ft)	213	368	58	229	175	m56	m88	m88	m88	m88	m88	m88		



100 Clinton Avenue
4: Clinton Ave & Tresser Blvd

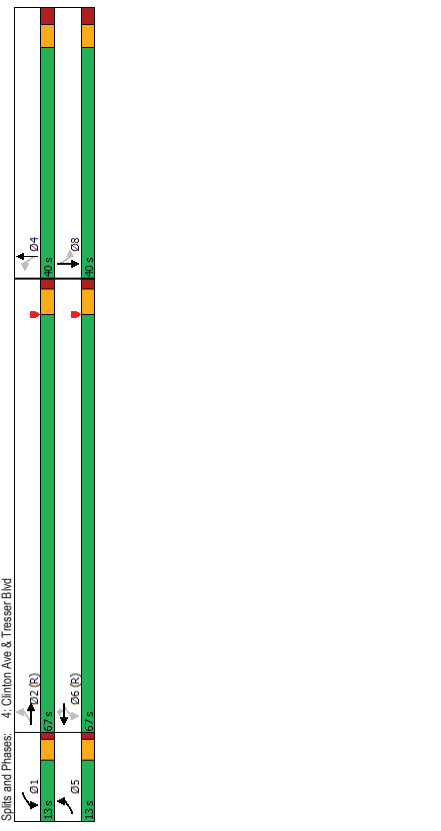
Background (2025) Conditions
PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	0.950	0.950	0.950	1.000	0.950	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Turn Time (s)	82	74	10	66	602	56	20	51	31	20	15	46
Flows Volume (vph)	82	796	10	66	602	56	20	51	31	20	15	46
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140	0	0	100	0	0	0	0	0	0	0	0
Storage Lanes	1	0	1	0	1	0	0	0	0	0	0	0
Tract Length (ft)	1.000	0.950	0.950	1.000	0.950	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Link Util. Factor	0.950	0.950	0.950	0.850	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Flt Protected	1770	3532	0	1770	3539	1563	0	1769	0	1659	0	1659
Satd. Flow (prot)	0.383	0.304	0.304	0.304	0.920	0.920	0	0.920	0	0.858	0	0.858
Satd. Flow (perm)	713	3532	0	566	3539	1563	0	1643	0	1475	0	1475
Right Turn on Red	No	No	No	No	No	No	No	No	No	No	No	No
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30	30	30
Link Speed (mph)	563	677	15.4	677	677	500	11.4	677	500	677	500	579
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Parking (#/hr)	89	865	11	72	654	61	22	55	34	22	16	50
Adj. Flow (vph)	89	876	0	72	654	61	0	111	0	0	88	0
Shared Lane Traffic (%)	4	1	4	1	1	1	1	1	1	1	1	1
Lane Group Flow (vph)	33	50	36	50	50	20	106	20	106	20	106	106
Number of Detectors	-9	0	-6	0	0	0	0	0	0	0	0	0
Detector Temp	-9	0	-6	0	0	0	0	0	0	0	0	0
Leading Detector (ft)	6	50	6	50	50	20	6	20	6	20	6	6
Trailing Detector (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 2 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 3 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 4 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Size (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 2 Size (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 3 Size (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 4 Size (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Protected Phases	5	2	1	6	6	6	4	4	8	8	8	8
Permitted Phases	2	6	6	6	6	6	4	4	8	8	8	8
Detector Phase	5	2	1	6	6	6	4	4	8	8	8	8
Switch Phase	5.0	15.0	5.0	15.0	15.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	0.0	17.3	0.0	17.3	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
Green Split (s)	13.0	67.0	13.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
Yield Split (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Split (%)	10.8%	58.9%	10.8%	58.9%	58.9%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%	33.3%
Maximum Green (s)	0.0	61.7	0.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
Yellow Time (s)	3.0	3.7	3.0	3.7	3.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3
All Red Time (s)	1.0	1.6	1.0	1.6	1.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Lost Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lead-Lag	4.0	5.3	4.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Lead-Lag Optimizer?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

100 Clinton Avenue
4: Clinton Ave & Tresser Blvd

Background (2025) Conditions
PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Vehicle Extension (s)	2.0	3.0	3.0	2.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0
Recall Mode	None	C+Min	None	None	C+Min	C+Min	None	None	None	None	None	None
Flash Dart (Walk) (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dart (Bike) (s)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Pedestrian Cals. (#/hr)	10	10	10	10	10	10	10	10	10	10	10	10
Act Effect Green (s)	93.1	86.6	91.8	84.5	84.5	84.5	84.1	84.1	84.1	84.1	84.1	84.1
Actualized g/C Ratio	0.78	0.72	0.76	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
v/c Ratio	0.15	0.34	0.15	0.26	0.26	0.05	0.58	0.58	0.58	0.58	0.58	0.58
Control Delay	4.8	8.8	10.9	17.0	16.9	59.5	57.0	57.0	57.0	57.0	57.0	57.0
Queue Delay	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	4.8	9.0	10.9	17.0	16.9	59.5	57.0	57.0	57.0	57.0	57.0	57.0
LOS	A	A	B	B	B	B	E	E	E	E	E	E
Approach Delay	A	A	B	B	B	B	E	E	E	E	E	E
Approach LOS	A	A	B	B	B	B	E	E	E	E	E	E
Queue Length 50th (ft)	9	107	1	206	19	86	66	66	66	66	66	66
Queue Length 95th (ft)	45	272	m76	303	m69	116	116	116	116	116	116	116
Internal Link Dist (ft)	483	483	100	483	597	420	420	420	420	420	420	420
Turn Bay Length (ft)	140	140	140	140	140	140	140	140	140	140	140	140
Base Capacity (vph)	644	2548	644	537	2492	1115	466	466	466	466	466	466
Slantion Cap Reductn	0	903	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.53	0.13	0.26	0.05	0.24	0.21	0.21	0.21	0.21	0.21	0.21



Area Type	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	20	31	123	15	50	56
Traffic Volume (vph)	20	31	123	15	50	56
Future Volume (vph)	1900	1900	1900	1900	1900	1900
Ideal Flow (vph)	1,000	1,000	1,000	1,000	1,000	1,000
Lane Util. Factor	0.918	0.986				
Flt Protected	0.981		0.977			
Satd. Flow (vph)	1678	0	1837	0	0	1638
Flt Permitted	0.981		0.977			
Satd. Flow (vph)	1678	0	1837	0	0	1638
Link Speed (mph)	30		30			30
Link Distance (ft)	511		300			500
Travel Time (s)	11.6		8.9			11.4
Peak-Hour Factor	0.92		0.92			0.92
Parking (#/hr)	0		0			0
Adj. Flow (vph)	22	34	134	16	54	61
Shared Lane Traffic (%)						
Lane Group Flow (vph)	56	0	150	0	0	115
Sign Control	Stop	Free	Free	Free	Free	Free
Intersection Summary						
Area Type	Other					
Control Type	Unsignalized					
Intersection Capacity Utilization	26.4%					
Analysis Period (min)	15					
	ICU Level of Service A					

Intersection	WBL	WBR	NBT	NBR	SBL	SBT
Int Delay, s/vch	3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	20	31	123	15	50	56
Traffic Vol, veh/h	20	31	123	15	50	56
Future Vol, veh/h	20	31	123	15	50	56
Conflicting Pkts, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0					
Veh in Median Storage, #	0					
Grade, %	0					
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Movt Flow	22	34	134	16	54	61
Major/Minor						
Minor1	311	142	0	0	150	0
Major2	142	0	0	0	150	0
Conflicting Flow All	142	0	0	0	150	0
Stage 1	169					
Stage 2	6.42	6.22			4.12	
Critical Hdwy	5.42					
Critical Hdwy Slg 1	5.42					
Critical Hdwy Slg 2	3.518	3.318			2.218	
Follow-up Hdwy	681	906			1431	
Pot Cap-1 Maneuver	885					
Stage 1	861					
Stage 2						
Platoon blocked, %	654	906			1431	
Mov Cap-1 Maneuver	654					
Mov Cap-2 Maneuver	885					
Stage 1	827					
Stage 2						
Approach						
WB	NB	SB				
HCM Control Delay, s	9.9	0			3.6	
HCM LOS	A					
Minor Lane/Major Mvmt						
NBT	NBR	WBLn1	SBL	SBT		
-	-	787	1431	-		
Capacity (veh/h)	-	0.07	0.038	-		
HCM Lane V/C Ratio	-	9.9	7.6	0		
HCM Control Delay (s)	-	A	A	A		
HCM Lane LOS	-	0.2	0.1	-		
HCM 95th %ile Q(veh)	-					

100 Clinton Avenue
 S. Clinton Ave & Richmond Hill Ave

Background (2025) Conditions
 PM Peak

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	61	24	5	5	17	41	20	36	20	15	4	56
Turns Volume (vph)	61	260	5	5	179	41	20	36	20	15	5	56
Left Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	25	0	275	0	0	0	0	0	0	0	0	0
Storage Lanes	1	0	1	0	0	0	0	0	0	0	0	0
Travel Length (ft)	50	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00
Lane Util. Factor	0.95	0.988	0.981	0.972	0.912	0.912	0.850	0.900	0.900	0.900	0.900	0.900
Flt Protected	0	3500	0	1770	1811	0	0	1603	1504	0	1660	0
Satd. Flow (prot)	0.841	0.841	0.445	0.993	0.993	0.379	0	0.635	0	0	0	0
Flt Permitted	0	2971	0	829	1811	0	0	1603	1504	0	635	0
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	1	12	12	30	30	30	30	30	30	30	30	30
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	483	426	426	296	296	350	350	350	350	350	350	350
Peak Hour Factor	11.0	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Travel Time (s)	66	283	5	5	195	45	22	39	227	16	5	61
Adj. Flow (vph)	0	354	0	5	240	0	0	147	141	1	1	1
Shared Lane Traffic (%)	0	38%	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	1	0	0	1	1	1	1	1	1	1	1	1
Number of Detectors	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left
Detector Template	20	0	48	48	20	40	40	20	40	20	45	45
Leading Detector (ft)	0	0	-2	-2	0	-10	-10	0	-10	0	-5	-5
Trailing Detector (ft)	0	0	-2	-2	0	-10	-10	0	-10	0	-5	-5
Detector 1 Position (ft)	20	6	50	50	20	50	20	50	20	50	20	50
Detector 1 Size (ft)	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex
Detector 1 Type	Detector 1 Channel	Detector 1 Queue (s)	Detector 1 Delay (s)	Detector 1 Prot.	Detector 1 Perm.	Detector 1 NA	Detector 1 Split	Detector 1 NA	Detector 1 Prot.	Detector 1 Perm.	Detector 1 NA	Detector 1 NA
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Prot.	Perm	NA	pm-pt	NA	Split	NA	Split	NA	Prot.	Perm	NA	NA
Detector 1 Perm	6	6	2	2	8	8	8	8	8	8	4	4
Protected Phases	6	6	2	2	8	8	8	8	8	4	4	4
Permitted Phases	6	6	2	2	8	8	8	8	8	4	4	4
Detector Phase	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Switch Phase	31.4	31.4	19.0	31.4	10.9	10.9	29.7	29.7	29.7	29.7	29.7	29.7
Minimum Split (s)	40.0	40.0	19.0	59.0	25.0	25.0	36.0	36.0	36.0	36.0	36.0	36.0
Total Split (%)	33.3%	33.3%	16.8%	48.2%	20.8%	20.8%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%
Maximum Green (s)	33.6	33.6	15.0	52.6	20.1	20.1	30.3	30.3	30.3	30.3	30.3	30.3
Yellow Time (s)	3.1	3.1	3.0	3.3	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	3.1	3.1	1.0	3.1	1.9	1.9	2.4	2.4	2.4	2.4	2.4	2.4
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.4	4.0	6.4	4.9	4.9	5.7	5.7	5.7	5.7	5.7	5.7
Lead/Lag	Lag	Lag	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	Min	Min	None	Min	Min	None	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dont Walk (s)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Pedestrian Calls (fl/hr)	10	10	10	10	10	10	10	10	10	10	10	10
Act Eff Green (s)	18.9	18.9	23.7	20.9	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
Act Eff Green Ratio	0.35	0.44	0.39	0.39	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Act Eff Green Ratio	0.34	0.44	0.39	0.39	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Green Delay	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Green Delay	19.4	19.4	13.6	15.5	22.2	22.2	9.1	9.1	9.1	21.6	21.6	21.6
LOS	A	B	B	B	B	B	A	A	A	C	C	C
Approach Delay	19.4	19.4	15.5	15.5	15.8	15.8	21.6	21.6	21.6	21.6	21.6	21.6
Approach LOS	B	B	B	B	B	B	C	C	C	C	C	C
Queue Length 50th (ft)	40	40	1	49	25	25	0	0	0	0	0	0
Queue Length 95th (ft)	150	150	8	152	125	125	55	55	55	55	55	55

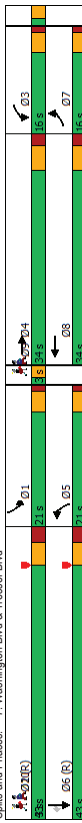
100 Clinton Avenue
 S. Clinton Ave & Richmond Hill Ave

Background (2025) Conditions
 PM Peak

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Internal Link Dist (ft)	403	275	346	275	346	275	346	275	346	275	346	275
Turn Bay Length (ft)	2174	675	1633	675	1633	675	1633	675	1633	675	1633	675
Base Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Station Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Signal Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reductn %/Ratio	0.16	0.01	0.15	0.20	0.19	0.20	0.19	0.20	0.19	0.20	0.19	0.19
Intersection Summary	Other											
Area Type	Other											
Cycle Length	120											
Actuated Cycle Length	53.9											
Natural Cycle	95											
Control Type	Actuated-Uncoordinated											
Maximum v/c Ratio	0.48											
Intersection Signal Delay	17.5											
Intersection Capacity Utilization	51.6%											
Analysis Period (min)	15											
Splits and Phases	6: Clinton Ave & Richmond Hill Ave											
	O2	O2	O4	O5	O5	O5	O5	O5	O5	O5	O5	O5
	55 s	55 s	55 s	55 s	55 s	55 s	55 s	55 s	55 s	55 s	55 s	55 s
	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s	18 s

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9	Ø10
Lane Configurations	175	65	51	91	44	139	51	999	261	251	837	97		
Turn Bay Length (ft)	175	657	51	91	489	139	51	999	261	251	837	97		
Base Cap Reductn	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Station Cap Reductn	320	0	180	0	180	1900	0	200	230	200	230	230		
Storage Cap Reductn	50	0	0	1	0	0	1	1	1	1	1	1		
Truck Length (ft)	1.00	0.91	0.91	1.00	0.91	0.91	1.00	0.95	1.00	1.00	0.95	1.00		
Lane Util. Factor	0.960	0.989	0.950	0.967	0.950	0.950	0.950	0.820	0.820	0.950	0.820	0.820		
Flt Protected	1770	5029	0	1770	4917	0	1770	3539	1563	1770	3539	1563		
Satd. Flow (prot)	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950		
Flt Permitted	1770	5029	0	1770	4917	0	1770	3539	1563	1770	3539	1563		
Right Turn on Red	No	No	No	No	No	No	No	No	No	No	No	No		
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30	30	30		
Link Speed (mph)	677	703	703	703	703	703	703	578	578	404	404	404		
Link Distance (ft)	15.4	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Peak Hour Factor	190	714	55	99	542	151	55	1086	316	273	910	105		
Adj. Flow Factor	190	769	0	99	693	0	55	1086	316	273	910	105		
Shared Lane Traffic (%)	1	1	1	1	1	1	1	1	1	1	1	1		
Lane Group Flow (vph)	40	45	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5		
Number of Detectors	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5		
Detector 1 Position (ft)	50	50	50	50	50	50	50	50	50	50	50	50		
Detector 1 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX		
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Delay (s)	Prot.	NA	Prot.	NA	Prot.	NA	Prot.	NA	Prot.	NA	Prot.	NA		
Turn Type	7	4	3	8	3	8	5	2	2	1	6	9		
Protected Phases	7	4	3	8	3	8	5	2	2	1	6	9		
Permitted Phases	7	4	3	8	3	8	5	2	2	1	6	6		
Detector Phase	5.0	10.0	5.0	10.0	5.0	10.0	5.0	15.0	5.0	15.0	15.0	1.0		
Switch Phase	9.0	30.4	9.0	30.4	9.0	30.6	30.6	9.0	30.6	30.6	30.6	3.0		
Minimum Initial (s)	16.0	34.0	16.0	34.0	21.0	43.0	43.0	21.0	43.0	43.0	43.0	3.0		
Minimum Split (s)	13.3%	28.3%	17.5%	35.8%	17.5%	35.8%	17.5%	35.8%	35.8%	35.8%	3%	3%		
Total Split (%)	12.0	28.6	12.0	28.6	17.0	37.4	37.4	17.0	37.4	37.4	37.4	1.0		
Maximum Green (s)	3.0	3.7	3.0	3.7	3.0	3.3	3.3	3.0	3.3	3.3	3.3	2.0		
Yellow Time (s)	1.0	1.7	1.0	1.7	1.0	2.3	2.3	1.0	2.3	2.3	2.3	0.0		
All-Red Time (s)	4.0	5.4	4.0	5.4	4.0	5.6	5.6	4.0	5.6	5.6	5.6	5.6		
Total Lost Time (s)	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead		
Lead/Lag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Lead-Lag Optimize?	None	None	None	None	None	None	None	None	None	None	None	None		
Vehicle Extension (s)	1.0	3.0	1.0	3.0	1.0	3.0	3.0	1.0	3.0	3.0	3.0	3.0		
Recall Mode	None	None	None	None	None	None	None	None	None	None	None	None		
Walk Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Bike Time (s)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0		
Pedestrian Walk (s)	30	30	30	30	30	30	30	30	30	30	30	30		
Pedestrian Calls (flm)	18.5	24.6	17.3	23.4	15.7	42.1	42.1	17.0	45.2	45.2	45.2	45.2		
Act Effl Green (s)	0.15	0.25	0.14	0.20	0.13	0.35	0.35	0.14	0.38	0.38	0.38	0.38		
Advanced G/C Ratio	0.75	0.55	0.75	0.55	0.75	0.55	0.55	0.75	0.55	0.55	0.55	0.55		
VC Ratio	0.75	0.48	0.75	0.48	0.75	0.48	0.48	0.75	0.48	0.48	0.48	0.48		
Control Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Queue Delay	67.5	48.8	52.5	49.5	36.1	41.7	35.0	131.7	36.5	29.8	29.8	29.8		
LOS	E	D	D	D	D	D	D	F	D	D	D	C		
Approach Delay	48.5	49.9	48.5	49.9	48.5	49.9	48.5	49.9	48.5	49.9	48.5	48.5		
Approach LOS	D	D	D	D	D	D	D	D	D	D	D	E		
Queue Length 50th (ft)	199	219	70	182	35	320	170	~238	334	334	334	58		
Queue Length 95th (ft)	4279	247	131	220	m54	4538	294	4410	409	409	409	102		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9	Ø10
Internal Link Dist (ft)	320	557	557	180	623	623	200	498	230	200	324	324		
Turn Bay Length (ft)	272	1206	1206	254	1171	1171	287	1241	555	250	1331	595		
Base Cap Reductn	0	0	0	0	0	0	0	19	0	0	0	0		
Station Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0		
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0		
Reduced V/C Ratio	0.70	0.64	0.64	0.39	0.59	0.59	0.21	0.89	0.57	1.09	0.68	0.18		
Intersection Summary	Other													
Area Type:	Other													
Cycle Length:	120													
Actuated Cycle Length:	120													
Offset:	0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow													
Natural Cycle:	115													
Control Type:	Actuated-Coordinated													
Maximum V/C Ratio:	1.09													
Intersection Signal Delay:	49.0													
Intersection LOS:	D													
ICU Level of Service D														
Intersection Capacity Utilization:	79.8%													
Analysis Period (min):	15													
#	Volume exceeds capacity, queue is theoretically infinite.													
m	Queue shown is maximum after two cycles.													
n	95th percentile volume exceeds capacity, queue may be longer.													
o	Queue shown is maximum after two cycles.													
p	Volume for 95th percentile queue is metered by upstream signal.													



100 Clinton Avenue
9. Washington Blvd & Richmond Hill Ave

Background (2025) Conditions
PM Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Lane Configurations													
Turn Volumes (vph)	275	0	209	5	0	5	184	1271	5	5	1712	41	
Through Volumes (vph)	275	0	209	5	0	5	184	1271	5	5	1712	41	
Left Turn Volumes (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	0	0	0	0	140	0	0	0	0	0	
Storage Lanes	1	0	0	0	0	0	0	0	0	0	0	0	
Truck Length (ft)	25	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	0.95	0.95	
Lane Util. Factor	1.00	0.850	0.932	0.976	0.950	0.999	0.999	0.955	0.955	0.955	0.955	0.955	
Flt Protected	0.950												
Satd. Flow (prot)	1770	1583	0	0	1694	0	1770	3536	0	0	3522	0	
Flt Permitted	0.751												
Satd. Flow (perm)	1399	1583	0	0	1556	0	186	3536	0	0	3345	0	
Right Turn on Red			No			No			No			No	
Satd. Flow (RTOR)	30			30			30			30			
Link Distance (ft)	426			205			326			356			
Travel Time (s)	9.7			4.7			7.4			8.1			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Adj. Flow (vph)	299	0	227	5	0	5	200	1382	5	5	1317	45	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	299	227	0	0	10	0	200	1387	0	0	1367	0	
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1	
Detector Template	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	
Leading Detector (ft)	50	50	20	50	20	50	40	40	20	40	20	40	
Trailing Detector (ft)	0	0	0	-10	-10	0	-10	-10	0	-10	-10	0	
Detector 1 Position (ft)	0	0	0	0	0	0	-10	-10	0	-10	-10	0	
Detector 1 Size (ft)	50	50	20	50	20	50	50	50	20	50	20	50	
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	
Detector 1 Channel													
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	Perm	NA	Perm	NA	Perm	NA	
Protected Phases	4	4	4	4	4	4	5	2	4	5	6	3	
Permitted Phases	4	4	4	4	4	4	5	2	4	5	6	6	
Detector Phase													
Switch Phase													
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	7.0	15.0	5.0	5.0	5.0	1.0	
Minimum Split (s)	24.2	24.2	24.2	24.2	24.2	24.2	11.0	28.0	28.0	28.0	28.0	4.0	
Total Split (s)	32.0	32.0	32.0	32.0	32.0	32.0	16.0	84.0	68.0	68.0	68.0	4.0	
Total Split (%)	25.7%	25.7%	25.7%	25.7%	25.7%	25.7%	13.3%	70.0%	56.7%	56.7%	56.7%	3%	
Maximum Green (s)	27.8	27.8	27.8	27.8	27.8	27.8	12.0	79.0	63.0	63.0	63.0	1.0	
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.3	3.3	3.3	3.3	2.0	
All-Red Time (s)	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.7	1.7	1.7	1.7	1.0	
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.2	4.2	4.2	4.2	4.2	4.2	4.0	5.0	5.0	5.0	5.0	0.0	
Lead/Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lead	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	C-Min	C-Min	None	
Walk Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	7.0	16.0	16.0	16.0	16.0	7.0	
Flash Dont Walk (s)	3.0	3.0	3.0	3.0	3.0	3.0	7.0	16.0	16.0	16.0	16.0	7.0	
Pedestrian Calls (flm)	30	30	30	30	30	30	81.7	60.7	66.3	66.3	66.3	30	
Act Eff Green (s)	30	30	30	30	30	30	0.68	0.68	0.68	0.68	0.68	0.68	
Act Eff Green Ratio	0.65	0.65	0.65	0.65	0.65	0.65	0.68	0.68	0.68	0.68	0.68	0.68	
VC Ratio	0.65	0.65	0.65	0.65	0.65	0.65	0.68	0.68	0.68	0.68	0.68	0.68	
Control Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.2	0.2	0.2	1.3	
Queue Delay	65.4	45.2	65.4	45.2	65.4	45.2	36.5	10.3	16.0	16.0	16.0	16.0	
LOS	E	C	E	C	E	C	D	B	B	B	B	B	
Approach Delay	56.7	32.7	56.7	32.7	56.7	32.7	13.6	16.0	16.0	16.0	16.0	16.0	
Approach LOS	C	C	C	C	C	C	B	B	B	B	B	B	
Queue Length 50th (ft)	215	150	215	150	215	150	55	320	320	320	320	558	
Queue Length 95th (ft)	4362	235	4362	235	4362	235	m#124	480	480	480	480	649	

Lanes, Volumes, Timings
SLR

100 Clinton Avenue
9. Washington Blvd & Richmond Hill Ave

Background (2025) Conditions
PM Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Internal Link Dist (ft)	346			125			140		246			276	
Turn Bay Length (ft)													
Base Cap (vph)	360	407	407	400	285	2388	285	2388	285	2388	285	2388	
Station Cap Reductn	0	0	0	0	0	0	2	232	0	0	0	34	
Signal Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Reductn %/Ratio	0.83	0.56	0.63	0.03	0.71	0.64	0.86						
Intersection Summary													
Area Type:	Other												
Cycle Length:	120												
Actuated Cycle Length:	120												
Offset:	47 (39%), Referenced to phase 2; NBTL and 6; SBTL; Start of Yellow												
Natural Cycle:	90												
Control Type:	Actuated-Coordinated												
Maximum V/C Ratio:	0.85												
Intersection Signal Delay:	21.1												
Intersection LOS:	C												
ICU Level of Service:	G												
Intersection Capacity Utilization:	104.0%												
Analysis Period (min):	15												
# 95th percentile volume exceeds capacity, queue may be longer.													
Queue shown is maximum after two cycles.													
m Volume for 95th percentile queue is metered by upstream signal.													
Splits and Phases:	9. Washington Blvd & Richmond Hill Ave												

Lanes, Volumes, Timings
SLR

100 Clinton Avenue
10: Washington Blvd & I-95 SB On Ramp/N State St

Background (2025) Conditions
PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shutten Cap Reduct	0	0	0	123	61	364	356	1056	0	0	724	702
Stallcap Reduct	0	0	0	123	61	364	356	1056	0	0	724	702
Shoulder Cap Reduct	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Reduce v/c Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.95	1.00	0.80

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shutten Cap Reduct	0	0	0	123	61	364	356	1056	0	0	724	702
Stallcap Reduct	0	0	0	123	61	364	356	1056	0	0	724	702
Shoulder Cap Reduct	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Reduce v/c Ratio	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.95	1.00	0.80

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 35 (29%), Referenced to phase 2:NBL and 6:SBT, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.90

Intersection Signal Delay: 18.7

Intersection Capacity Utilization: 81.9%

Analysis Period (min): 15

Area Type: Other

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 35 (29%), Referenced to phase 2:NBL and 6:SBT, Start of Yellow

Natural Cycle: 90

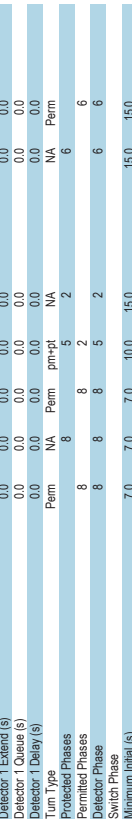
Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.90

Intersection Signal Delay: 18.7

Intersection Capacity Utilization: 81.9%

Analysis Period (min): 15



Splits and Phases: 10: Washington Blvd & I-95 SB On Ramp/N State St

Phase	Duration (s)	Color
02 (R)	30.5	Green
05 (R)	43.5	Yellow
06 (R)	46.0	Red

Splits and Phases: 10: Washington Blvd & I-95 SB On Ramp/N State St

Phase	Duration (s)	Color
02 (R)	30.5	Green
05 (R)	43.5	Yellow
06 (R)	46.0	Red

100 Clinton Avenue
10: Washington Blvd & I-95 SB On Ramp/N State St

Background (2025) Conditions
PM Peak

Line Configurations	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Flows/Volumes (vph)	0	0	0	123	61	364	356	1056	0	0	724	702
Flows/Volumes (vph)	0	0	0	123	61	364	356	1056	0	0	724	702
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Line Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.95	1.00	0.80

Line Configurations	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Flows/Volumes (vph)	0	0	0	123	61	364	356	1056	0	0	724	702
Flows/Volumes (vph)	0	0	0	123	61	364	356	1056	0	0	724	702
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Line Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.95	1.00	0.80

Fit Protected: 0.950

Satd. Flow (vph): 1770, 1863, 1583, 1770, 3539, 0, 0, 3539, 1583

Fit Permitted: 0.950

Satd. Flow (vph): 1770, 1863, 1583, 475, 3539, 0, 0, 3539, 1583

Right Turn on Red: Yes

Satd. Flow (RTOR): 30

Link Speed (mph): 435

Link Distance (ft): 9.9

Travel Time (s): 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92

Peak-Hour Factor: 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92

Adj. Flow (vph): 0, 0, 0, 134, 66, 396, 367, 1191, 0, 0, 767, 763

Shared Lane Traffic (%): 0, 0, 0, 134, 66, 396, 367, 1191, 0, 0, 767, 763

Fit Protected: 0.950

Satd. Flow (vph): 1770, 1863, 1583, 1770, 3539, 0, 0, 3539, 1583

Fit Permitted: 0.950

Satd. Flow (vph): 1770, 1863, 1583, 475, 3539, 0, 0, 3539, 1583

Right Turn on Red: Yes

Satd. Flow (RTOR): 30

Link Speed (mph): 435

Link Distance (ft): 9.9

Travel Time (s): 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92

Peak-Hour Factor: 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92, 0.92

Adj. Flow (vph): 0, 0, 0, 134, 66, 396, 367, 1191, 0, 0, 767, 763

Shared Lane Traffic (%): 0, 0, 0, 134, 66, 396, 367, 1191, 0, 0, 767, 763

Number of Detectors: 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1

Detector Template: 40, 40, 50, 40, 50, 40, 50, 40, 50, 40, 50, 40, 50

Leading Detector (ft): -10, -10, 0, -10, 0, -10, 0, 0, 0, 0, 0, 0, 0

Trailing Detector (ft): -10, -10, 0, -10, 0, -10, 0, 0, 0, 0, 0, 0, 0

Detector 1 Position (ft): -10, -10, 0, -10, 0, -10, 0, 0, 0, 0, 0, 0, 0

Detector 1 Size (ft): 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50

Detector 1 Type: O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX

Detector 1 Channel: 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Detector 1 Extend (s): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Detector 1 Queue (s): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Detector 1 Delay (s): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Turn Type: Perm, NA, Perm, pm+pt, NA, NA, Perm, NA, Perm, NA, Perm, NA, Perm

Protected Phases: 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8

Permitted Phases: 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8

Detector Phase: 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8

Number of Detectors: 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1

Detector Template: 40, 40, 50, 40, 50, 40, 50, 40, 50, 40, 50, 40, 50

Leading Detector (ft): -10, -10, 0, -10, 0, -10, 0, 0, 0, 0, 0, 0, 0

Trailing Detector (ft): -10, -10, 0, -10, 0, -10, 0, 0, 0, 0, 0, 0, 0

Detector 1 Position (ft): -10, -10, 0, -10, 0, -10, 0, 0, 0, 0, 0, 0, 0

Detector 1 Size (ft): 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50, 50

Detector 1 Type: O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX, O+EX

Detector 1 Channel: 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Detector 1 Extend (s): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Detector 1 Queue (s): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Detector 1 Delay (s): 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

Turn Type: Perm, NA, Perm, pm+pt, NA, NA, Perm, NA, Perm, NA, Perm, NA, Perm

Protected Phases: 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8

Permitted Phases: 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8

Detector Phase: 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8

Minimum Initial (s)	7.0	7.0	7.0	10.0	15.0	15.0	15.0
Minimum Split (s)	35.1	35.1	35.1	14.0	25.3	25.3	25.3
Total Split (s)	41.0	41.0	41.0	30.0	79.0	49.0	49.0
Total Split (%)	34.2%	34.2%	34.2%	25.0%	65.8%	40.8%	40.8%
Maximum Green (s)	34.9	34.9	34.9	28.0	73.7	43.7	43.7
Yellow Time (s)	3.7	3.7	3.7	3.0	3.3	3.3	3.3
All-Red Time (s)	2.4	2.4	2.4	1.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.1	6.1	6.1	4.0	5.3	5.3	5.3

Recall Mode	None	None	None	None	C-Max	C-Max	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash/Dont Walk (s)	22.0	22.0	22.0	13.0	13.0	13.0	13.0
Pedestrian Calls (fl/h)	30	30	30	30	30	30	30
Act Erlid Green (s)	28.5	28.5	28.5	81.4	60.1	57.7	57.7
Accuated g/C Ratio	0.32	0.15	0.30	0.74	0.50	0.46	0.46
Queue Delay	38.3	34.7	38.3	19.2	11.7	14.1	6.7
Queue Delay	8.0	0.7	8.2	0.0	0.0	0.0	9.8
LOS	D	E	E	B	B	A	A

Approach Delay	516	516	516	136	112	112	112
Approach LOS <td>B</td> <td>B</td> <td>B</td> <td>B</td> <td>B</td> <td>B</td> <td>B</td>	B	B	B	B	B	B	B
Queue Length 50th (ft) <td>85</td> <td>40</td> <td>240</td> <td>115</td> <td>229</td> <td>55</td> <td>15</td>	85	40	240	115	229	55	15
Queue Length 85th (ft) <td>134</td> <td>74</td> <td>350</td> <td>209</td> <td>322</td> <td>211</td> <td>109</td>	134	74	350	209	322	211	109
Internal Link Delay (ft) <td>355</td> <td>406</td> <td>406</td> <td>254</td> <td>246</td> <td>246</td> <td>246</td>	355	406	406	254	246	246	246
Turn Bay Length (ft) <td>514</td> <td>541</td> <td>519</td> <td>602</td> <td>2362</td> <td>1701</td> <td>1055</td>	514	541	519	602	2362	1701	1055
Base Capacity (vph) <td>514</td> <td>541</td> <td>519</td> <td>602</td> <td>2362</td> <td>1701</td> <td>1055</td>	514	541	519	602	2362	1701	1055

100 Clinton Avenue
1: Greenwich Ave & W Main St/Tresser Blvd

Combined (2025) Conditions
All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	66	342	46	214	578	82	51	246	148	36	214	66
Trucks (vph)	66	342	46	214	578	82	51	246	148	36	214	66
Trucks (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50	0	150	0	0	0	50	40	0	0	20	2
Storage Lanes	1	0	0	1	0	0	1	1	1	1	1	2
Travel Length (ft)	80	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.95	1.00
Lane Util. Factor	1.00	0.983	0.983	0.991	0.991	0.991	1.00	1.00	1.00	1.00	0.95	1.00
Flt Protected	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Satd. Flow (prot)	1770	3479	0	1770	3472	0	1770	1863	1563	1770	3539	1425
Flt Permitted	0.356	0.444	0	0.444	0.539	0	0.539	0.376	0.376	0.376	0.376	0.376
Satd. Flow (perm)	663	3479	0	827	3472	0	1004	1863	1563	700	3539	1425
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	17	18	18	18	18	18	18	18	18	18	18	18
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	331	563	563	563	563	563	563	563	563	563	563	563
Travel Time (s)	7.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Parking (#/hr)	72	363	50	233	628	89	55	267	161	39	233	72
Shared Lane Traffic (%)	72	433	0	233	717	0	55	267	161	39	233	72
Lane Group Flow (vph)	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detectors	40	50	40	50	40	50	40	50	40	50	40	50
Leading Detector (ft)	-10	0	-10	0	-10	0	-10	0	-10	0	-10	0
Trailing Detector (ft)	-10	0	-10	0	-10	0	-10	0	-10	0	-10	0
Detector 1 Position (ft)	50	50	50	50	50	50	50	50	50	50	50	50
Detector 1 Sizing (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Sizing (ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 2 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 2 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA	pm-pt	NA
Protected Phases	1	6	5	2	7	4	4	4	3	8	8	8
Permitted Phases	6	2	2	4	7	4	4	4	3	8	8	8
Detector Phase	1	6	5	2	7	4	4	4	3	8	8	8
Switch Phase	4.0	20.0	4.0	20.0	4.0	10.0	10.0	4.0	10.0	4.0	10.0	10.0
Minimum Initial (s)	8.0	32.6	8.0	32.6	8.0	36.2	36.2	8.0	36.2	8.0	36.2	36.2
Minimum Split (s)	15.0	45.0	15.0	45.0	12.0	28.0	28.0	12.0	28.0	12.0	28.0	28.0
Total Split (%)	15.0%	45.0%	15.0%	45.0%	12.0%	28.0%	28.0%	12.0%	28.0%	12.0%	28.0%	28.0%
Maximum Green (s)	11.0	39.4	11.0	39.4	8.0	22.8	22.8	8.0	22.8	8.0	22.8	22.8
Yellow Time (s)	3.0	3.7	3.0	3.7	3.0	3.7	3.7	3.0	3.7	3.0	3.7	3.7
All-Red Time (s)	1.0	1.9	1.0	1.9	1.0	1.5	1.5	1.0	1.5	1.0	1.5	1.5
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.6	4.0	5.6	4.0	5.2	5.2	4.0	5.2	4.0	5.2	5.2
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lag
Lead-Lag Optimizer?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lead-Lag Extension (s)	1.0	3.0	1.0	3.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0
Recall Mode	None	C-Min	None	C-Min	None	None	None	None	None	None	None	None
Walk Time (s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Flash Don't Walk (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flash Walk (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Act Effc G/C Ratio	56.9	49.7	63.8	54.7	25.9	20.7	20.7	24.0	18.3	18.3	18.3	18.3
Act Effc G/C Ratio	0.67	0.60	0.64	0.65	0.26	0.21	0.21	0.24	0.18	0.18	0.18	0.18
v/c Ratio	0.16	0.25	0.38	0.38	0.18	0.69	0.38	0.17	0.35	0.20	0.20	0.20
Control Delay	11.1	17.3	11.7	16.5	23.7	45.5	12.8	23.6	35.7	27.4	27.4	27.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

100 Clinton Avenue
1: Greenwich Ave & W Main St/Tresser Blvd

Combined (2025) Conditions
All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Delay	11.1	17.3	11.7	16.5	23.7	45.5	12.8	23.6	35.7	27.4	27.4	27.4
LOS	B	B	B	B	B	B	C	B	B	C	D	A
Approach Delay	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
Approach LOS	B	B	B	B	B	B	C	B	B	C	D	A
Queue Length (ft)	16	80	58	134	26	163	24	18	69	0	0	0
Queue Length (ft)	48	152	137	251	43	209	67	34	88	11	11	11
Internal Link Dist (ft)	50	251	150	483	50	849	50	40	254	20	20	20
Turn Bay Length (ft)	532	1795	635	1938	329	458	477	267	864	435	435	435
Base Capacity (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Stallcap Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.24	0.37	0.37	0.17	0.58	0.34	0.15	0.27	0.17	0.17	0.17
Intersection Summary												
Area Type:	Other											
Cycle Length:	100											
Actuated Cycle Length:	100											
Offset:	75 (75%), Referenced to phase 2:WBTL and 6EBTL, Start of Yellow											
Natural Cycle:	85											
Control Type:	Actuated-Coordinated											
Maximum v/c Ratio:	0.69											
Intersection Signal Delay:	20.9											
Intersection Capacity Utilization:	60.5%											
Analysis Period (min):	15											

100 Clinton Avenue
2: Greenwich Ave & Richmond Hill Ave

100 Clinton Avenue
2: Greenwich Ave & Richmond Hill Ave

Combined (2025) Conditions
All Peak

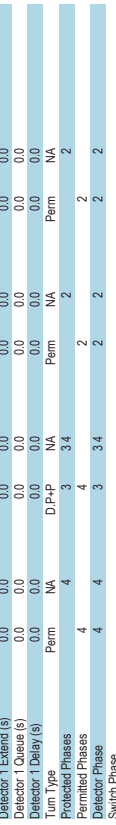
Combined (2025) Conditions
All Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBR	SSR
Shutted Cap Reductn	0	0	0	0	0	0	0	48	0	0	0	0
Shutted Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shutted Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduce v/c Ratio	0.70			0.65			0.79					0.57

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBR	SSR
Shutted Cap Reductn	41	128	41	123	112	36	20	419	251	25	44	51
Shutted Cap Reductn	41	128	41	123	112	36	20	419	251	25	44	51
Shutted Cap Reductn	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Reduce v/c 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

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 56 (47%), Referenced to phase 2:NBSB, Start of Yellow
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.87
 Intersection Signal Delay: 39.0
 Intersection LOS: D
 Intersection Capacity Utilization: 82.7%
 ICU Level of Service: E
 Analysis Period (min): 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 56 (47%), Referenced to phase 2:NBSB, Start of Yellow
 Natural Cycle: 75
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.87
 Intersection Signal Delay: 39.0
 Intersection LOS: D
 Intersection Capacity Utilization: 82.7%
 ICU Level of Service: E
 Analysis Period (min): 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.



Splits and Phases: 2: Greenwich Ave & Richmond Hill Ave

Phase	Split (%)
EB	20.5
EB	20.5
EB	20.5
WB	20.5
WB	20.5
WB	20.5
NB	20.5
NB	20.5
NB	20.5
SB	20.5
SB	20.5
SB	20.5

Splits and Phases: 2: Greenwich Ave & Richmond Hill Ave

Phase	Split (%)
EB	20.5
EB	20.5
EB	20.5
WB	20.5
WB	20.5
WB	20.5
NB	20.5
NB	20.5
NB	20.5
SB	20.5
SB	20.5
SB	20.5

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø1	Ø5
Internal Link Dist (ft)														
Turn Bay Length (ft)														
Base Cap (vph)	654	1308	837				1074	934	468	1482				
Station Cap Reductn	0	0	0				787	679	0	0				
Storage Cap Reductn	0	0	0				175	0	0	0				
Storage Cap Reductn	0	0	0				0	0	0	0				
Reductn v/c Ratio	0.81	0.63	0.48				0.89	0.65	0.24	0.37				
Intersection Summary														
Area Type:	Other													
Cycle Length:	120													
Actuated Cycle Length:	120													
Offset:	39 (33%), Referenced to phase 2:NBSB and 6: Start of Yellow													
Natural Cycle:	100													
Control Type:	Actuated-Coordinated													
Maximum v/c Ratio:	0.88													
Intersection Signal Delay:	29.9													
Intersection LOS:	C													
ICU Level of Service:	C													
Intersection Capacity Utilization:	64.3%													
Analysis Period (min):	15													
# 95th percentile volume exceeds capacity, queue may be longer.														
Queue shown is maximum after two cycles.														
m Volume for 95th percentile queue is metered by upstream signal.														

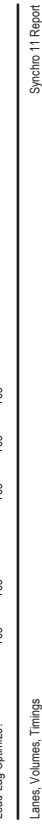


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø1	Ø5
Lane Configurations														
Trucks/Vol (vph)	486	754	367	0	0	0	0	235	152	102	511	0		
Trucks/Vol (vph)	486	754	367	0	0	0	0	235	152	102	511	0		
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Storage Length (ft)	225							50	75			230		
Storage Lanes	1							1	1			1		
Travel Length (ft)	200	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00		
Lane Util. Factor			0.830					0.830						
Flt Protected			0.950					0.950						
Satd. Flow (prot)	1770	3539	1583	0	0	0	0	1863	1583	1170	3539	0		
Flt Permitted			0.950					0.950						
Satd. Flow (perm)	1770	3539	1583	0	0	0	0	1863	1583	1170	3539	0		
Right Turn on Red			Yes				Yes				Yes			
Satd. Flow (RTOR)			399				52							
Link Speed (mph)			30				30				30			
Link Distance (ft)			787				542				204			803
Travel Time (s)			17.9				12.3				4.6			18.3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Adj. Flow (vph)	528	820	399	0	0	0	0	255	165	111	555	0		
Lane Group Flow (vph)	528	820	399	0	0	0	0	255	165	111	555	0		
Shared Lane Traffic (%)														
Number of Detectors	1	1	1				0	0	0	1	1			
Detector Template														
Leading Detector (ft)	16	16	16				0	0	0	15	15			
Trailing Detector (ft)	0	0	0				0	0	0	-5	-5			
Detector 1 Position (ft)	0	0	0				0	0	0	-5	-5			
Detector 1 Size (ft)	16	16	16				6	20	20	20	20			
Detector 1 Type	O+EX	O+EX	O+EX				O+EX	O+EX	O+EX	O+EX	O+EX			
Detector 1 Channel														
Detector 1 Extend (s)	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0			
Detector 1 Queue (s)	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0			
Detector 1 Delay (s)	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0			
Turn Type	Perm	NA	Perm				NA	Perm	Perm	NA	NA			
Protected Phases			4				1,2,5	2	2					5
Permitted Phases	4	4	4				1	1,2,5	2	2	2			
Detector Phase														
Switch Phase														
Minimum Initial (s)	7.0	7.0	7.0				15.0	15.0	15.0	5.0	5.0			
Minimum Split (s)	31.6	31.6	31.6				32.4	32.4	32.4	9.0	22.4			
Total Split (s)	49.0	49.0	49.0				33.0	33.0	33.0	15.0	23.0			
Total Split (%)	40.8%	40.8%	40.8%				27.5%	27.5%	13%	19%				
Maximum Green (s)	43.4	43.4	43.4				27.6	27.6	11.0	18.6				
Yellow Time (s)	3.3	3.3	3.3				3.3	3.3	3.0	3.0				
All-Red Time (s)	2.3	2.3	2.3				2.1	2.1	2.1	1.0	1.4			
Lost Time Adjust (s)	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0			
Total Lost Time (s)	5.6	5.6	5.6				5.4	5.4	5.4	5.4				
Lead/Lag							Lag	Lag	Lag	Lead	Lead			
Lead-Lag Optimize?	2.0	2.0	2.0				Yes	Yes	Yes	Yes	Yes			
Vehicle Extension (s)							1.0	1.0	1.0	2.0	2.0			
Recall Mode	None	None	None				C-Min	C-Min	None	None	None			
Walk Time (s)	7.0	7.0	7.0				7.0	7.0	7.0	7.0	7.0			
Flash Dont Walk (s)	19.0	19.0	19.0				20.0	20.0	20.0	11.0	11.0			
Pedestrian Calls (flm)	0	0	0				69.7	69.7	60.3	60.3	10			
Act Eff Green (s)	40.7	40.7	40.7				0.58	0.58	0.52	0.52	0.52			
Adjusted g/C Ratio	0.58	0.58	0.58				0.13	0.13	0.13	0.13	0.13			
IC Ratio	0.58	0.58	0.58				0.13	0.13	0.13	0.13	0.13			
Control Delay	0.0	0.0	0.0				11.9	3.7	4.0	0.0	0.0			
Queue Delay	0.0	0.0	0.0				25.8	13.0	24.3	22.8	22.8			
Turn Delay														
LOS	D		A				C	B	C	C	C			
Approach Delay							20.7	34.7	34.7	23.0	23.0			
Approach LOS							C	C	C	C	C			
Queue Length 50th (ft)	375	280	0				94	39	37	100	100			
Queue Length 95th (ft)	#551	344	65				145	76	m88	193	193			

100 Clinton Avenue
4: Clinton Ave & Tresser Blvd

Combined (2025) Conditions
All Peak

Item	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Vehicle Extension (s)	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0
Recall Mode	None	C-Min	None	None	C-Min	C-Min	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dart Walk (s)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Pedestrian Cals. (#/hr)	10	10	10	10	10	10	10	10	10	10	10	10
Act Effct Green (s)	91.8	84.2	92.1	84.3	84.3	84.3	92.1	84.2	91.8	84.2	84.3	14.1
Actuated g/C Ratio	0.76	0.70	0.77	0.70	0.70	0.70	0.76	0.70	0.77	0.70	0.70	0.12
v/c Ratio	0.19	0.20	0.14	0.35	0.05	0.05	0.62	0.05	0.62	0.05	0.05	0.58
Control Delay	5.2	8.2	11.5	23.9	20.5	20.5	63.5	20.5	63.5	20.5	20.5	59.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.2	8.2	11.5	23.9	20.5	20.5	63.5	20.5	63.5	20.5	20.5	59.6
LOS	A	A	A	B	C	C	E	C	E	C	C	E
Approach Delay	7.7	7.7	22.5	22.5	22.5	22.5	63.5	22.5	63.5	22.5	22.5	59.6
Approach LOS	A	A	C	C	C	C	E	C	E	C	C	E
Queue Length 50th (ft)	10	53	21	305	31	31	79	31	79	31	31	86
Queue Length 95th (ft)	48	144	m86	341	m56	m56	116	m56	116	m56	m56	116
Internal Link Dist (ft)	483	483	100	597	597	597	420	597	420	597	597	499
Turn Bay Length (ft)	140	140	100	100	100	100	400	100	400	100	100	461
Base Capacity (vph)	591	2446	803	2467	1112	1112	400	1112	400	1112	1112	461
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillover Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.16	0.20	0.13	0.35	0.05	0.05	0.26	0.05	0.26	0.05	0.05	0.24
Intersection Summary												
Area Type:	Other											
Cycle Length:	120											
Actuated Cycle Length:	120											
Chsr: (s) (50%), Referenced to phase 2EBTL and 6WBTL, Start of Yellow	120											
Natural Cycle:	80											
Control Type:	Actuated-Coordinated											
Maximum v/c Ratio:	0.62											
Intersection Signal Delay:	22.3											
Intersection Capacity Utilization:	48.8%											
Analysis Period (min):	15											
Volume for 95th percentile queue is measured by upstream signal.												



Lanes, Volumes, Timings
SLR

100 Clinton Avenue
4: Clinton Ave & Tresser Blvd

Combined (2025) Conditions
All Peak

Item	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Vehicle Extension (s)	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0
Recall Mode	None	C-Min	None	None	C-Min	C-Min	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dart Walk (s)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Pedestrian Cals. (#/hr)	10	10	10	10	10	10	10	10	10	10	10	10
Act Effct Green (s)	91.8	84.2	92.1	84.3	84.3	84.3	92.1	84.2	91.8	84.2	84.3	14.1
Actuated g/C Ratio	0.76	0.70	0.77	0.70	0.70	0.70	0.76	0.70	0.77	0.70	0.70	0.12
v/c Ratio	0.19	0.20	0.14	0.35	0.05	0.05	0.62	0.05	0.62	0.05	0.05	0.58
Control Delay	5.2	8.2	11.5	23.9	20.5	20.5	63.5	20.5	63.5	20.5	20.5	59.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.2	8.2	11.5	23.9	20.5	20.5	63.5	20.5	63.5	20.5	20.5	59.6
LOS	A	A	A	B	C	C	E	C	E	C	C	E
Approach Delay	7.7	7.7	22.5	22.5	22.5	22.5	63.5	22.5	63.5	22.5	22.5	59.6
Approach LOS	A	A	C	C	C	C	E	C	E	C	C	E
Queue Length 50th (ft)	10	53	21	305	31	31	79	31	79	31	31	86
Queue Length 95th (ft)	48	144	m86	341	m56	m56	116	m56	116	m56	m56	116
Internal Link Dist (ft)	483	483	100	597	597	597	420	597	420	597	597	499
Turn Bay Length (ft)	140	140	100	100	100	100	400	100	400	100	100	461
Base Capacity (vph)	591	2446	803	2467	1112	1112	400	1112	400	1112	1112	461
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillover Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.16	0.20	0.13	0.35	0.05	0.05	0.26	0.05	0.26	0.05	0.05	0.24
Intersection Summary												
Area Type:	Other											
Cycle Length:	120											
Actuated Cycle Length:	120											
Chsr: (s) (50%), Referenced to phase 2EBTL and 6WBTL, Start of Yellow	120											
Natural Cycle:	80											
Control Type:	Actuated-Coordinated											
Maximum v/c Ratio:	0.62											
Intersection Signal Delay:	22.3											
Intersection Capacity Utilization:	48.8%											
Analysis Period (min):	15											
Volume for 95th percentile queue is measured by upstream signal.												



Lanes, Volumes, Timings
SLR

Area Type	WB	WBR	NBT	NBR	SBL	SBT
Lane Group	WB	WBR	NBT	NBR	SBL	SBT
Lane Configurations	31	5	80	98	45	158
Traffic Volume (vph)	31	5	80	98	45	158
Future Volume (vph)	31	5	80	98	45	158
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Flt Protected	0.983		0.926			0.989
Satd. Flow (vph)	1754	0	1725	0	0	1658
Flt Permitted	0.958		0.989			0.989
Satd. Flow (vph)	1754	0	1725	0	0	1658
Link Speed (mph)	30		30			30
Link Distance (ft)	511		160			500
Travel Time (s)	11.6		3.6			11.4
Peak-Hour Factor	0.92		0.92			0.92
Parking (#/hr)	34		5			87
Adj. Flow (vph)	34		5			87
Shared Lane Traffic (%)						
Lane Group Flow (vph)	39	0	194	0	0	221
Sign Control	Stop	Free	Free	Free	Free	Free
Intersection Summary						
Area Type	Other					
Control Type	Unsignalized					
Intersection Capacity Utilization	34.3%					
Analysis Period (min)	15					
ICU Level of Service A						

Intersection	WB	WBR	NBT	NBR	SBL	SBT
Int Delay, s/veh	1.8					
Movement	WB	WBR	NBT	NBR	SBL	SBT
Lane Configurations	31	5	80	98	45	158
Traffic Vol, veh/h	31	5	80	98	45	158
Future Vol, veh/h	31	5	80	98	45	158
Conflicting Pkts, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0					
Veh in Median Storage, #	0					
Grade, %	0					
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2		2		2	
Mvmt Flow	34	5	87	107	49	172
Major/Minor						
Minor1	411	141	0	0	194	0
Major2	141	0	0	0	194	0
Conflicting Flow All	270					
Stage 1	6.42	6.22			4.12	
Stage 2	5.42					
Critical Hdwy	3.518	3.318			2.218	
Critical Hdwy Slg 1	597	907			1379	
Critical Hdwy Slg 2	886					
Follow-up Hdwy	775					
Pot Cap-1 Maneuver	574	907			1379	
Stage 1	574					
Stage 2	886					
Platoon blocked, %	745					
Mov Cap-1 Maneuver						
Mov Cap-2 Maneuver						
Stage 1						
Stage 2						
Approach						
WB	NB	SB				
HCM Control Delay, s	11.4	0			1.7	
HCM LOS	B					
Minor Lane/Major Mvmt						
NBT	NBR	WBLn1	SBL	SBT		
Capacity (veh/h)	-	605	1379	-		
HCM Lane V/C Ratio	-	0.065	0.035	-		
HCM Control Delay (s)	-	11.4	7.7	0		
HCM Lane LOS	-	B	A	A		
HCM 95th %ile Q(veh)	-	0.2	0.1	-		

100 Clinton Avenue
 S. Clinton Ave & Richmond Hill Ave

Combined (2025) Conditions
 All Peak

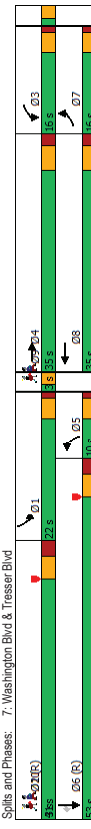
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Internal Link Dist (ft)	403			275			346			216		150
Turn Bay Length (ft)				275			346			216		150
Turn Bay Width (ft)				346			275			216		150
Base Cap Reductn	0			0			0			0		0
Station Cap Reductn	0			0			0			0		0
Storage Cap Reductn	0			0			0			0		0
Storage Cap Reductn	0			0			0			0		0
Reductn %/Ratio	0.55			0.23			0.24			0.25		0.25

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	113	148	143	82	184	11	0	0	0	72	51	87
Flows Volume (vph)	113	148	143	82	184	11	0	0	0	72	51	87
Flows Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vph)	25	0	0	275	0	0	0	0	0	0	0	0
Storage Length (ft)	1	0	0	1	0	0	0	0	0	1	0	0
Storage Length (ft)	50	0	0	40	0	0	25	0	0	25	0	0
Travel Length (ft)	0.95	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00
Lane Util. Factor	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944
Flt Protected	0	0	0	0	0	0	0	0	0	0	0	0
Satd. Flow (prot)	0	0	0	0	0	0	0	0	0	0	0	0
Flt Permitted	0	0	0	0	0	0	0	0	0	0	0	0
Satd. Flow (perm)	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	79	3	3	3	3	3	3	3	3	3	3	3
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	483	426	426	296	230	230	230	230	230	230	230	230
Travel Time (s)	11.0	9.7	9.7	9.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	123	161	155	89	200	12	0	0	0	78	55	95
Shared Lane Traffic (%)	0	0	0	0	0	0	0	0	0	0	0	0
Lane Group Flow (vph)	0	439	0	89	212	0	0	0	0	0	228	0
Number of Detectors	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left
Detector Template	20	0	48	48	20	40	20	40	20	40	20	45
Leading Detector (ft)	0	0	-2	-2	0	-10	-10	0	-10	0	-5	-5
Trailing Detector (ft)	0	0	-2	-2	0	-10	-10	0	-10	0	-5	-5
Detector 1 Position (ft)	20	6	50	50	20	50	20	50	20	50	20	50
Detector 1 Size (ft)	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	Perm	NA	pm-pt	NA	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	6	6	2	2	8	8	8	8	8	4	4	4
Permitted Phases	6	6	2	2	8	8	8	8	8	4	4	4
Detector Phase	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Switch Phase	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4	31.4
Minimum Initial (s)	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
Minimum Split (s)	27.6%	27.6%	27.6%	27.6%	27.6%	27.6%	27.6%	27.6%	27.6%	27.6%	27.6%	27.6%
Total Split (s)	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
Maximum Green (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Yellow Time (s)	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
All-Red Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Last Time Adjust (s)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Total Lost Time (s)	Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lag	Lag
Lead/Lag	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lead-Lag Optimize?	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Vehicle Extension (s)	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min
Recall Mode	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Walk Time (s)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Flash Dont Walk (s)	10	10	10	10	10	10	10	10	10	10	10	10
Pedestrian Call (flm)	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
Act Erlic Green (s)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Adjusted G/C Ratio	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
Control Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Delay	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
Turn Delay	C	C	C	C	C	C	C	C	C	C	C	C
LOS	D	D	D	D	D	D	D	D	D	D	D	D
Approach Delay	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
Approach LOS	D	D	D	D	D	D	D	D	D	D	D	D
Queue Length 50th (ft)	117	36	94	66	66	66	66	66	66	66	66	66
Queue Length 95th (ft)	173	67	150	130	130	130	130	130	130	130	130	130



100 Clinton Avenue
 Z: Washington Blvd & Tresser Blvd
 Combined (2025) Conditions
 All Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9	Ø10
Internal Link Dist (ft)	320	557		180	623		200	498		230	200	324		
Turn Bay Length (ft)	221	1235		283	1233		99	1429		639	265	1695	758	
Base Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Station Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reductn V/c Ratio	0.55	0.40		0.67	0.61		0.65	0.68		0.23	0.37	0.72	0.08	
Intersection Summary														
Area Type: Other														
Cycle Length: 120														
Actuated Cycle Length: 120														
Offset: 0 (0%); Referenced to phase 2:NBT and 6:SBT; Start of Yellow														
Natural Cycle: 95														
Control Type: Actuated-Coordinated														
Maximum V/c Ratio: 0.74														
Intersection Signal Delay: 40.3														
Intersection LOS: D														
ICU Level of Service C														
Intersection Capacity Utilization 68.8%														
# 95th percentile volume exceeds capacity, queue may be longer.														
Analysis Period (min) 15														
# 95th percentile volume exceeds capacity, queue may be longer.														
Queue shown is maximum after two cycles.														
m Volume for 95th percentile queue is metered by upstream signal.														



100 Clinton Avenue
 Z: Washington Blvd & Tresser Blvd
 Combined (2025) Conditions
 All Peak

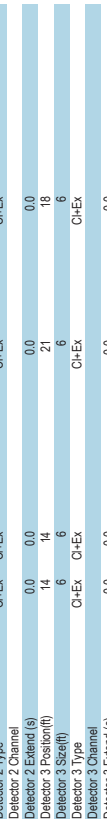
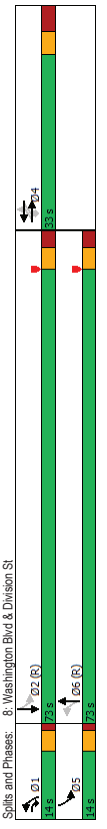
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9	Ø10
Lane Configurations	111	412	46	161	616	81	59	889	138	89	1046	59		
Turn Volumes (vph)	111	412	46	161	616	81	59	889	138	89	1046	59		
Through Volumes (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Storage Length (ft)	320	0	180	0	180	0	200	230	200	200	230			
Storage Lanes	1	0	1	0	1	0	1	1	1	1	1			
Trace Length (ft)	100	0.91	0.91	1.00	0.91	0.91	1.00	0.95	1.00	1.00	0.95	1.00		
Lane Util. 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		
Fit Protected	1770	5009	0	1770	4999	0	1770	3539	1583	1770	3539	1583		
Satd. Flow (prot)	0.950	0.950	0	0.950	0.950	0	0.950	0.950	0.950	0.950	0.950	0.950		
Fit Permitted	1770	5009	0	1770	4999	0	1770	3539	1583	1770	3539	1583		
Satd. Flow (perm)	0.950	0.950	0	0.950	0.950	0	0.950	0.950	0.950	0.950	0.950	0.950		
Right Turn on Red	No	No	No	No	No	No	No	No	No	No	No	No		
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30	30	30		
Link Speed (mph)	677	703	703	703	703	703	703	703	703	703	703	703		
Link Distance (ft)	15.4	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Peak Hour Factor	121	448	50	175	670	88	64	966	150	97	1137	64		
Adj. Flow (vph)	121	448	50	175	670	88	64	966	150	97	1137	64		
Shared Lane Traffic (%)														
Lane Group Flow (vph)	121	448	50	175	670	88	64	966	150	97	1137	64		
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1		
Detector Template	40	45	40	45	40	45	40	45	40	45	40	45		
Leading Detector (ft)	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5		
Trailing Detector (ft)	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5		
Detector 1 Position (ft)	50	50	50	50	50	50	50	50	50	50	50	50		
Detector 1 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX		
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX		
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Turn Type	Prot	NA	Prot	NA	Prot	NA	Prot	NA	Prot	NA	Prot	NA		
Protected Phases	7	4	3	8	5	2	1	6	2	1	6	9		
Permitted Phases	7	4	3	8	5	2	2	1	6	2	1	6		
Detector Phase														
Switch Phase														
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	15.0	5.0	15.0	5.0	15.0	5.0	15.0		
Minimum Split (s)	9.0	30.4	9.0	30.6	30.6	9.0	30.6	30.6	9.0	30.6	30.6	30.6		
Total Split (s)	16.0	35.0	16.0	35.0	10.0	41.0	22.0	53.0	53.0	30.0	30.0	30.0		
Total Split (%)	13.3%	29.2%	13.3%	29.2%	8.3%	34.2%	18.3%	44.2%	44.2%	3%	3%	3%		
Maximum Green (s)	12.0	29.6	12.0	29.6	6.0	35.4	18.0	47.4	47.4	1.0	1.0	1.0		
Yellow Time (s)	3.0	3.7	3.0	3.7	3.0	3.3	3.0	3.3	3.0	3.3	3.0	3.0		
All-Red Time (s)	1.0	1.7	1.0	1.7	1.0	2.3	2.3	1.0	2.3	2.3	1.0	2.3		
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)	4.0	5.4	4.0	5.4	4.0	5.6	5.6	4.0	5.6	4.0	5.6	5.6		
Lead/Lag	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead		
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Vehicle Extension (s)	1.0	3.0	1.0	3.0	1.0	3.0	3.0	1.0	3.0	3.0	3.0	3.0		
Recall Mode	None	None	None	None	None	C-Min	C-Min	None	C-Min	C-Min	None	None		
Walk Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Flash Dont Walk (s)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0		
Pedestrian Calls (flm)	30	30	30	30	30	30	30	30	30	30	30	30		
Act Call Green (s)	14.2	20.9	17.9	24.5	6.6	46.3	46.3	13.8	57.3	57.3	57.3	57.3		
Approach G/C Ratio	0.17	0.19	0.19	0.20	0.06	0.46	0.46	0.12	0.46	0.46	0.46	0.46		
ICU Ratio	659	0.37	607	0.42	687	0.68	0.72	315	652	297	309	309		
Control Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Time Delay	65.7	47.7	60.9	49.2	68.1	35.6	31.5	56.2	28.6	29.7	20.7	20.7		
LOS	E	D	E	D	E	D	C	E	C	E	C	C		
Approach Delay	51.2	36.9	51.4	36.9	51.4	36.9	51.4	36.9	51.4	36.9	51.4	36.9		
Approach LOS	D	D	D	D	D	D	D	D	D	D	D	D		
Queue Length 50th (ft)	98	131	129	202	48	239	57	69	397	30	30	30		
Queue Length 95th (ft)	152	166	204	238	m#123	342	117	123	476	58	58	58		

100 Clinton Avenue
8: Washington Blvd & Division St

Combined (2025) Conditions
All Peak

Item	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Area Type	Other											
Control Type	Actuated-Coordinated											
Maximum v/c Ratio	0.64											
Intersection Signal Delay	7.6											
Intersection LOS	A											
Intersection Capacity Utilization	56.0%											
Analysis Period (min)	15											
m	Volume for 95th percentile queue is metered by upstream signal.											

Item	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Recall Metric	None	None	None	None	None	None	None	None	None	None	None	C-Max
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Duration (s)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	22.0
Pedestrian Cals. (#/hr)	30	30	30	30	30	30	30	30	30	30	30	30
Acc Effct Green (s)	17.4	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Actuated g/C Ratio	0.14	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
v/c Ratio	0.21	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay	47.1	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.1	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LOS	D	B	A	A	A	A	A	A	A	A	A	A
Approach Delay	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Approach LOS	C	A	A	A	A	A	A	A	A	A	A	A
Queue Length 50th (ft)	28	0	0	0	0	0	0	0	0	0	0	143
Queue Length 95th (ft)	63	18	0	0	0	0	0	0	0	0	0	161
Internal Link Dist (ft)	431	170	170	172	172	172	172	172	172	172	172	498
Turn Bay Length (ft)	303	443	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2512
Base Capacity (vph)	0	0	0	0	0	0	0	0	0	0	0	349
Stallion Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.74



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Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Lane Configurations	107	113	0	5	226	1220	5	5	140	5	140	41	
Turn Volumes (vph)	107	0	113	0	5	226	1220	5	5	140	140	41	
Through Volumes (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Storage Length (ft)	0	0	0	0	140	0	0	0	0	0	0	0	
Storage Lanes	1	0	0	0	0	0	0	0	0	0	0	0	
Truck Length (ft)	25	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	0.95	0.95	0.95	
Link Util. Factor	1.00	0.850	0	0	0.865	0.999	0	0	0.996	0	0.996	0.95	
Flt Protected	0.950												
Satd. Flow (prot)	1770	1583	0	0	1611	0	1770	3536	0	0	3525	0	
Flt Permitted	0.754												
Satd. Flow (perm)	1405	1583	0	0	1611	0	155	3536	0	0	3352	0	
Right Turn on Red	No			No			No		No			No	
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30	30	30	
Link Distance (ft)	426			205			326		356			356	
Travel Time (s)	9.7	9.7	4.7	4.7	7.4	7.4	8.1		8.1			8.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	
Adj. Flow (vph)	116	0	123	0	5	257	1326	5	5	1522	45		
Shared Lane Traffic (%)													
Lane Group Flow (vph)	116	123	0	5	0	257	1331	0	0	1572	0		
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1	
Detector Template	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	
Leading Detector (ft)	50	50	20	50	40	40	20	40	20	40	20	40	
Trailing Detector (ft)	0	0	0	-10	-10	-10	0	-10	0	-10	0	-10	
Detector 1 Position (ft)	0	0	0	0	-10	-10	0	-10	0	-10	0	-10	
Detector 1 Size (ft)	50	50	20	50	50	50	20	50	20	50	20	50	
Detector 1 Type	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	NA	pm+pt	NA	NA	Perm	NA	NA	Perm	NA	NA	
Protected Phases	4	4	4	4	4	4	5	2	2	6	6	3	
Permitted Phases	4	4	4	4	4	4	5	2	2	6	6	6	
Detector Phase													
Switch Phase													
Minimum Initial (s)	5.0	5.0	5.0	5.0	7.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	
Minimum Split (s)	24.2	24.2	24.2	24.2	11.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	
Total Split (s)	25.0	25.0	25.0	25.0	22.0	91.0	69.0	69.0	69.0	69.0	69.0	69.0	
Total Split (%)	20.8%	20.8%	20.8%	20.8%	18.3%	75.8%	57.5%	57.5%	57.5%	57.5%	57.5%	57.5%	
Maximum Green (s)	20.8	20.8	20.8	20.8	18.0	86.0	64.0	64.0	64.0	64.0	64.0	64.0	
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
All-Red Time (s)	1.2	1.2	1.2	1.2	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	4.2	4.2	4.2	4.2	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lag	Lag	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lag	Lag	Lead	
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
Recall Mode	None	None	None	None	None	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	None	
Walk Time (s)	3.0	3.0	3.0	3.0	3.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
Flash Dont Walk (s)	3.0	3.0	3.0	3.0	3.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
Pedestrian Call (s)	3.0	3.0	3.0	3.0	3.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	
Act Erlic Green (s)	16.0	16.0	16.0	16.0	95.8	94.8	74.1	74.1	74.1	74.1	74.1	74.1	
Act Erlic Green Ratio	0.13	0.13	0.13	0.13	0.90	0.79	0.92	0.92	0.92	0.92	0.92	0.92	
VC Ratio	0.22	0.22	0.22	0.22	0.92	0.90	0.79	0.79	0.79	0.79	0.79	0.79	
Green Delay	6.3	6.3	6.3	6.3	0.8	0.2	0.3	0.3	0.3	0.3	0.3	0.3	
Green Delay Ratio	0.0	0.0	0.0	0.0	0.8	0.2	0.3	0.3	0.3	0.3	0.3	0.3	
Turn Delay	62.5	59.1	62.5	42.0	38.7	3.4	7.8	7.8	7.8	7.8	7.8	7.8	
LOS	E	E	E	D	D	D	A	A	A	A	A	A	
Approach Delay	60.7	57.3	60.7	42.0	38.7	9.1	7.8	7.8	7.8	7.8	7.8	7.8	
Approach LOS	E	E	E	D	D	D	A	A	A	A	A	A	
Queue Length 50th (ft)	83	87	83	15	111	107	42	42	42	42	42	42	
Queue Length 95th (ft)	144	149	144	15	174	128	104	104	104	104	104	104	

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Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Internal Link Dist (ft)	346			125			140		246			276	
Turn Bay Length (ft)													
Base Cap (vph)	243	274	0	279	384	2793	384	2793	2089	384	2793	2089	
Station Cap Reductn	0	0	0	0	0	23	62	23	62	0	0	0	
Signal Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Reductn % Ratio	0.48	0.45	0.02	0.02	0.71	0.62	0.71	0.62	0.82	0.02	0.02	0.82	
Intersection Summary	Other												
Area Type:	Other												
Cycle Length:	120												
Actuated Cycle Length:	120												
Offset:	28 (23%), Referenced to phase 2:NBL and 6:SBTL. Start of Yellow												
Natural Cycle:	90												
Control Type:	Actuated-Coordinated												
Maximum v/c Ratio:	0.76												
Intersection Signal Delay:	Intersection LOS: B												
Intersection Capacity Utilization:	ICU Level of Service F												
Analysis Period (min):	15												
m:	Volume for 95th percentile queue is metered by upstream signal.												
Spits and Phases:	9. Washington Blvd & Richmond Hill Ave												
Diagram:													

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shunt/Can Reduct	0	0	0	0	0	0	0	0	0	0	312	152
Shallack Cap Reduct	0	0	0	0	0	0	0	0	0	0	0	0
Shooped Cap Reduct	0	0	0	0	0	0	0	0	0	0	0	0
Reduce v/c Ratio	0.71	0.19	0.91	0.71	0.71	0.51					0.90	1.00

Area Type: Other
 Cycle Length: 120
 Actuated Cycle Length: 120
 Offset: 33 (28%), Referenced to phase 2:NBL and 6:SBT, Start of Yellow
 Natural Cycle: 90
 Control Type: Actuated-Coordinated
 Maximum v/c Ratio: 0.95
 Intersection Signal Delay: 32.3
 Intersection LOS: C
 Intersection Capacity Utilization 78.9%
 ICU Level of Service D
 Analysis Period (min) 15
 # 95th percentile volume exceeds capacity, queue may be longer.
 Queue shown is maximum after two cycles.

Splits and Phases: 10: Washington Blvd & I-95 WB On Ramp/N State St

Line Configurations	0	0	0	384	112	504	317	957	10	0	825	688
Trucks Volume (vph)	0	0	0	384	112	504	317	957	10	0	825	688
Trucks Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Line Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.95	1.00	0.95	1.00	0.850
Flt Protected				0.950				0.950				0.850
Satd Flow (vph)	0	0	0	1770	1863	1583	1770	3532	0	0	3539	1583
Flt Permitted				0.950			0.150					
Satd Flow (vph)	0	0	0	1770	1863	1583	279	3532	0	0	3539	1583
Right Turn on Red				Yes			Yes		Yes		Yes	
Satd Flow (RTOR)				30	30	30	1	30	1	30	30	504
Link Speed (mph)				435		486	334	326				
Link Distance (ft)				9.9		11.0	7.6	7.4				
Travel Time (s)				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Peak-Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)				0	0	428	122	548	345	1040	11	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)				0	0	428	122	548	345	1051	0	0
Number of Detectors				1	1	1	1	1	1	1	1	1
Detector Template												
Leading Detector (ft)				40	40	50	40	50	40	50	50	50
Trailing Detector (ft)				-10	-10	0	-10	0	-10	0	0	0
Detector 1 Position(ft)				-10	-10	0	-10	0	-10	0	0	0
Detector 1 Size(ft)				50	50	50	50	50	50	50	50	50
Detector 1 Type				O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel												
Detector 1 Extend (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type				Perm	NA	Perm	pm-pt	NA	NA	Perm	NA	Perm
Protected Phases				8	8	8	2	2	2	6	6	6
Permitted Phases				8	8	8	5	5	5	6	6	6
Switch Phase				7.0	7.0	7.0	10.0	15.0	15.0	15.0	15.0	15.0
Minimum Initial (s)				35.1	35.1	35.1	14.0	25.3	25.3	25.3	25.3	25.3
Minimum Split (s)				47.0	47.0	47.0	30.0	73.0	43.0	43.0	43.0	43.0
Total Split (%)				39.2%	39.2%	39.2%	25.0%	60.8%	35.8%	35.8%	35.8%	35.8%
Maximum Green (s)				40.9	40.9	40.9	28.0	67.7	37.7	37.7	37.7	37.7
Yellow Time (s)				3.7	3.7	3.7	3.0	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)				2.4	2.4	2.4	1.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)				6.1	6.1	6.1	4.0	5.3	5.3	5.3	5.3	5.3
Lead/Lag												
Lead-Lag Optimize?				Yes			Yes		Yes		Yes	
Vehicle Extension (s)				2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode				None	None	None	C-Max	C-Max	C-Max	C-Max	C-Max	C-Max
Walk Time (s)				7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash/Dont Walk (s)				22.0	22.0	22.0	13.0	13.0	13.0	13.0	13.0	13.0
Pedestrian Calls (flth)				30	30	30	30	30	30	30	30	30
Act Erld Green (s)				38.7	38.7	38.7	71.2	69.9	44.4	44.4	44.4	44.4
Accuated g/C Ratio				0.32	0.32	0.32	0.89	0.88	0.37	0.37	0.37	0.37
v/c Ratio				0.15	0.20	0.95	0.60	0.51	0.69	0.63	0.69	0.63
Control Delay				48.2	29.7	60.9	34.9	16.4	21.3	19.6	21.3	19.6
Queue Delay				0.0	0.0	0.0	0.0	0.0	3.6	4.6	3.6	4.6
Total Delay				48.2	29.7	60.9	34.9	16.4	25.1	34.1	25.1	34.1
LOS				D	C	E	C	C	B	C	B	C
Approach Delay				51.3			21.0		29.2		29.2	
Approach LOS				C			C		C		C	
Queue Length 50th (ft)				287	66	346	160	253	210	486	210	486
Queue Length 85th (ft)				408	114	456	288	310	360	464	360	464
Internal Link Dist (ft)												
Turn Bar Length (ft)												
Turn Bar Length (ft)				355			254		246		246	
Base Capacity (vph)				603	634	601	488	2057	1308	902	1308	902

Intersection	3.1											
Int Delay, s/veh	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Int Delay, s/veh	48	0	21	16	0	22	11	107	6	5	174	10
Lane Configurations	48 0 21 16 0 22 11 107 6 5 174 10											
Traffic Vol, veh/h	48 0 21 16 0 22 11 107 6 5 174 10											
Future Vol, veh/h	48 0 21 16 0 22 11 107 6 5 174 10											
Conflicting Pkts, #/hr	0 0 0 0 0 0 0 0 0 0 0 0 0											
Sign Control	Stop Stop Stop Stop Stop Stop Stop Stop Stop Stop Stop Stop Stop											
RT Channelized	- - - - - - - - - - - - - -											
Storage Length	- - - - - - - - - - - - - -											
Veh in Median Storage, #	- - - - - - - - - - - - - -											
Grade, %	- - - - - - - - - - - - - -											
Peak Hour Factor	92 92 92 92 92 92 92 92 92 92 92 92 92											
Heavy Vehicles, %	2 2 2 2 2 2 2 2 2 2 2 2 2											
Mem Flow	52 0 23 17 0 24 12 116 7 5 189 11											
Major/Minor	Minor2						Major1					
Conflicting Flow All	361	352	195	360	354	120	200	0	0	123	0	0
Stage 1	205	205	-	144	144	-	-	-	-	-	-	-
Stage 2	156	147	-	216	210	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	-	-	-
Critical Hdwy Sig 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Sig 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	595	573	846	596	571	931	1372	-	-	-	-	-
Stage 1	797	732	-	859	778	-	-	-	-	-	-	-
Stage 2	846	775	-	859	778	-	-	-	-	-	-	-
Platoon blocked, %	-											
Mov Cap-1 Maneuver	574	566	846	574	564	931	1372	-	-	-	-	-
Mov Cap-2 Maneuver	574	566	-	574	564	-	-	-	-	-	-	-
Stage 1	790	729	-	851	771	-	-	-	-	-	-	-
Stage 2	817	768	-	762	725	-	-	-	-	-	-	-
Approach	EB	EB	WB	WB	NB	NB	SB	SB	SB	SB	SB	SB
HCM Control Delay, s	11.4	11.4	10.2	10.2	0.7	0.7	0.2	0.2	0.2	0.2	0.2	0.2
HCM LOS	B	B	B	B	B	B	B	B	B	B	B	B
Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLr1	WBLr1	WBLr1	SBL	SSR	SBL	SSR	SBL	SSR
Capacity (veh/h)	1372	-	-	636	738	1464	-	-	-	-	-	-
HCM Lane V/C Ratio	0.009	-	-	0.118	0.056	0.004	-	-	-	-	-	-
HCM Control Delay (s)	7.6	0	0	11.4	10.2	7.5	0	-	-	-	-	-
HCM Lane LOS	A	A	A	B	B	A	A	-	-	-	-	-
HCM 95th %ile Q/veh	0	-	-	0.4	0.2	0	-	-	-	-	-	-

Area Type	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	48	0	21	16	0	22	11	107	6	5	174	10
Traffic Volume (vph)	48	0	21	16	0	22	11	107	6	5	174	10
Future Volume (vph)	48	0	21	16	0	22	11	107	6	5	174	10
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Flt Protected	0.966	0.966	0.921	0.921	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966
Satd Flow (vph)	0	1726	0	1681	0	1842	0	1842	0	0	1848	0
Flt Permitted	0	0.966	0	0.966	0	0.966	0	0.966	0	0	0.966	0
Satd Flow (perm)	0	1726	0	1681	0	1842	0	1842	0	0	1848	0
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	158	149	149	230	230	160	160	160	160	160	160	160
Travel Time (s)	3.6	3.4	3.4	3.4	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	52	0	23	17	0	24	12	116	7	5	189	11
Shared Lane Traffic (%)	-											
Lane Group Flow (vph)	0	75	0	0	41	0	0	135	0	0	205	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free	Free
Intersection Summary	-											
Area Type	Other											
Control Type	Unsignalized											
Intersection Capacity Utilization	24.4%											
Analysis Period (min)	15											
ICU Level of Service A	-											

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Turns (vph)	82	634	66	117	463	97	66	274	189	77	141	102
Flows (vph)	82	635	66	117	463	97	66	274	189	77	141	102
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	50	0	150	0	50	0	50	40	40	20	20	2
Storage Lanes	1	0	1	0	1	0	1	1	1	1	1	2
Trace Length (ft)	80	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	0.95	1.00
Lane Util. Factor	1.00	0.986	0.950	1.00	0.974	0.950	1.00	0.850	0.850	0.950	0.850	0.850
Flt Protected	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Satd. Flow (prot)	1770	3490	0	1770	3447	0	1770	1863	1563	1770	3539	1425
Flt Permitted	0.391	0.265	0.265	0.655	0.265	0.265	0.655	0.265	0.265	0.655	0.265	0.265
Satd. Flow (perm)	728	3490	0	531	3447	0	1220	1863	1563	494	3539	1425
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	14	31	31	31	31	31	105	105	105	105	105	105
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	331	563	563	929	334	334	929	334	334	929	334	334
Travel Time (s)	7.5	12.8	12.8	21.1	7.6	7.6	21.1	7.6	7.6	21.1	7.6	7.6
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Parking (#/hr)	89	690	72	127	503	105	72	298	205	84	153	111
Adj. Flow (vph)	89	690	72	127	503	105	72	298	205	84	153	111
Shared Lane Traffic (%)	89	762	0	127	608	0	72	298	205	84	153	111
Lane Group Flow (vph)	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1
Detector Temp	40	50	40	50	40	40	40	40	40	40	100	50
Leading Detector (ft)	-10	0	-10	0	-10	-10	-10	-10	-10	-10	0	0
Trailing Detector (ft)	-10	0	-10	0	-10	-10	-10	-10	-10	-10	0	0
Detector 1 Position (ft)	-10	0	-10	0	-10	-10	-10	-10	-10	-10	0	0
Detector 1 Sizing (ft)	50	50	50	50	50	50	50	50	50	50	50	50
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Sizing (ft)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	pm-plt	NA	pm-plt	NA	pm-plt	NA	pm-plt	NA	pm-plt	NA	pm-plt	NA
Protected Phases	1	6	5	2	7	4	7	4	4	3	8	8
Permitted Phases	6	2	2	4	4	4	4	4	4	4	4	8
Detector Phase	1	6	5	2	7	4	7	4	4	3	8	8
Switch Phase	4.0	20.0	4.0	20.0	4.0	10.0	10.0	4.0	10.0	4.0	10.0	10.0
Minimum Initial (s)	8.0	32.6	8.0	32.6	8.0	36.2	36.2	8.0	36.2	8.0	36.2	36.2
Minimum Split (s)	12.0	66.0	12.0	66.0	12.0	28.0	28.0	12.0	28.0	12.0	28.0	28.0
Total Split (s)	10.9%	52.7%	10.9%	52.7%	10.9%	25.5%	25.5%	10.9%	25.5%	10.9%	25.5%	25.5%
Maximum Green (s)	8.0	52.4	8.0	52.4	8.0	22.8	22.8	8.0	22.8	8.0	22.8	22.8
Yellow Time (s)	3.0	3.7	3.0	3.7	3.0	3.7	3.7	3.0	3.7	3.0	3.7	3.7
All-Red Time (s)	1.0	1.9	1.0	1.9	1.0	1.5	1.5	1.0	1.5	1.0	1.5	1.5
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.6	4.0	5.6	4.0	5.2	5.2	4.0	5.2	4.0	5.2	5.2
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lead-Lag Extension(s)	0.0	3.0	0.0	3.0	0.0	2.0	2.0	0.0	2.0	0.0	2.0	2.0
Vehicle Extension(s)	None	C-Min	None	C-Min	None	None	None	None	None	None	None	None
Walk Time (s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Wheel Time (s)	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
First Don't Walk (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Walk C-Off (ft/hr)	63.4	65.6	66.3	68.3	69.8	72.7	72.7	66.3	72.7	66.3	72.7	72.7
Act Eff G-C Ratio	0.68	0.61	0.60	0.63	0.62	0.61	0.61	0.62	0.61	0.62	0.61	0.61
Act Eff G-C Ratio	0.19	0.43	0.32	0.33	0.20	0.78	0.50	0.38	0.20	0.29	0.20	0.29
Control Delay	11.9	20.3	13.0	17.4	25.5	54.6	21.7	29.5	34.8	8.9	34.8	8.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Total Delay	11.9	20.3	13.0	17.4	25.5	54.6	21.7	29.5	34.8	8.9	34.8	8.9
LOS	B	C	C	B	B	B	C	C	C	C	C	A
Approach Delay	19.4	19.4	19.4	16.6	16.6	16.6	39.2	39.2	39.2	25.2	25.2	25.2
Approach LOS	B	B	B	B	B	B	D	D	D	C	C	C
Queue Length (ft)	24	173	35	123	36	201	60	42	47	47	47	3
Queue Length (s)	59	291	80	212	60	270	121	67	68	68	45	45
Internal Link Dist (ft)	50	251	50	150	483	50	849	50	40	40	254	20
Turn Bay Length (ft)	510	1874	420	1922	378	422	440	239	815	409	409	409
Base Capacity (vph)	0	0	0	0	0	0	0	0	0	0	0	0
Stallback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.17	0.41	0.30	0.32	0.19	0.71	0.47	0.35	0.19	0.27	0.19	0.27
Intersection Summary	Other											
Area Type:	Other											
Cycle Length:	110											
Offset:	Referenced to phase 2/WBTL and 6/EBTL, Start of Yellow											
Natural Cycle:	85											
Control Type:	Actuated-Coordinated											
Maximum v/c Ratio:	0.78											
Intersection Signal Delay:	24.0											
Intersection LOS:	C											
Intersection Capacity Utilization:	60.5%											
Analysis Period (min):	15											

100 Clinton Avenue
2: Greenwich Ave & Richmond Hill Ave Combined (2025) Conditions
PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBR	SSR
Shutlcr Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shutlcr Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Shutlcr Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduce v/c Ratio	0.90			0.47				0.76				0.42

Intersection Summary
Area Type: Other
Cycle Length: 120
Actuated Cycle Length: 120
Offset: 8 (7%), Referenced to phase 2:NBSB, Start of Yellow
Natural Cycle: 80
Control Type: Actuated-Coordinated
Maximum v/c Ratio: 0.92
Intersection Signal Delay: 40.7
Intersection Capacity Utilization 73.9%
Analysis Period (min) 15
95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



100 Clinton Avenue
2: Greenwich Ave & Richmond Hill Ave Combined (2025) Conditions
PM Peak

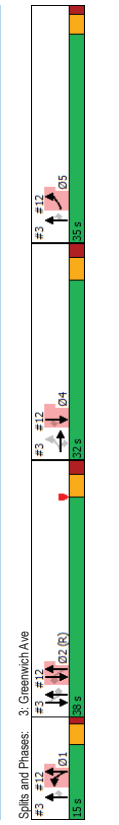
Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBR	SSR
Link Configurations	82	164	61	61	153	50	31	480	130	33	214	82
Flows Volume (vph)	82	164	61	61	153	50	31	480	130	33	214	82
Flows Volume (vph)	82	164	61	61	153	50	31	480	130	33	214	82
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Line Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fit Protected	0.976			0.975			0.973			0.966		0.966
Fit Protected	0.988			0.989			0.988			0.995		0.995
Satd. Flow (vph)	0	1796	0	0	1766	0	0	1809	0	0	1790	0
Fit Permitted	0.831			0.793			0.968			0.897		0.897
Satd. Flow (vph)	0	1511	0	0	1440	0	0	1754	0	0	1614	0
Right Turn on Red	No			No			No			No		No
Satd. Flow (RTOR)	30			30			30			30		30
Link Speed (mph)	371			483			803			929		929
Link Distance (ft)	8.4			11.0			18.3			21.1		21.1
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Peak-Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	89	211	66	66	166	54	34	522	141	36	233	89
Shared Lane Traffic (%)	0	366	0	0	286	0	0	697	0	0	358	0
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1	1
Detector Template	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left
Leading Detector (ft)	20	52	20	52	20	52	20	52	20	52	20	52
Trailing Detector (ft)	0	2	0	2	0	2	0	2	0	2	0	2
Detector 1 Position (ft)	0	2	0	2	0	2	0	2	0	2	0	2
Detector 1 Size (ft)	20	50	20	50	20	50	20	50	20	50	20	50
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	Perm	NA	D,P+P	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases	4	4	3	3	4	2	2	2	2	2	2	2
Permitted Phases	4	4	3	3	4	2	2	2	2	2	2	2
Detector Phase	4	4	3	3	4	2	2	2	2	2	2	2
Switch Phase	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Initial (s)	24.1	24.1	9.0	9.0	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Minimum Split (s)	36.0	36.0	16.0	16.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
Total Split (s)	30.0%	30.0%	13.3%	13.3%	56.7%	56.7%	56.7%	56.7%	56.7%	56.7%	56.7%	56.7%
Total Split (%)	30.9	30.9	12.0	12.0	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
Maximum Green (s)	3.3	3.3	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Yellow Time (s)	1.8	1.8	1.0	1.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
All-Red Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lost Time Adjust (s)	5.1	5.1	Lead	Lead	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Total Lost Time (s)	Yes	Yes	Yes	Yes	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lead/Lag	None	None	None	None	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Lead-Lag Optimize?	None	None	None	None	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min	C-Min
Voice Extension (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Recall Mode	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Walk Time (s)	10	10	46.7	46.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
Flash Don't Walk (s)	0.26	0.26	0.39	0.39	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Pedestrian Calls (fl/h)	0.92	0.92	0.48	0.48	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Act Erld Green (s)	73.0	73.0	27.7	27.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
v/c Ratio	73.0	73.0	27.7	27.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
Queue Delay	73.0	73.0	27.7	27.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
Queue Delay	73.0	73.0	27.7	27.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
LOS	E	E	C	C	C	C	C	C	C	C	C	C
Approach Delay	73.0	73.0	27.7	27.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
Approach LOS	E	E	C	C	C	C	C	C	C	C	C	C
Queue Length 50th (ft)	265	265	134	134	538	538	538	538	538	538	538	538
Queue Length 95th (ft)	4687	4687	231	231	689	689	689	689	689	689	689	689
Internal Link Dist (ft)	291	291	403	403	723	723	723	723	723	723	723	723
Turn Bay Length (ft)	405	405	609	609	923	923	923	923	923	923	923	923
Base Capacity (vph)												

100 Clinton Avenue
3. Greenwich Ave

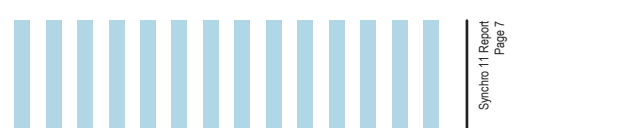
Combined (2025) Conditions
PM Peak

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø1	Ø5
Internal Link Dist (ft)	225	707	225	462	462	462	124	124	124	50	75	723		
Turn Bay Length (ft)	466	933	466	933	933	933	1215	1215	1215	1041	397	1553		
Base Cap (vph)	0	0	0	0	0	0	772	772	772	656	0	0		
Station Cap Reductn	0	0	0	0	0	0	18	18	18	0	0	0		
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0		
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0		
Reductn v/c Ratio	0.49	0.82	0.31	1.10	1.01	1.01	1.10	1.01	1.01	0.19	0.20	0.20		

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø1	Ø5
Lane Configurations	212	704	153	0	0	0	0	449	357	71	286	0		
Turn Volumes (vph)	212	704	153	0	0	0	0	449	357	71	286	0		
Flows Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Storage Length (ft)	225	707	225	462	462	462	124	124	124	50	75	723		
Storage Lanes	1	1	1	0	0	0	1	1	1	1	1	1		
Travel Length (ft)	200	1,000	200	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000		
Lane Util. Factor	0.950	0.830	0.950	0.830	0.830	0.830	0.950	0.830	0.830	0.950	0.830	0.830		
Flt Protected	1770	3539	1553	0	0	0	1863	1553	1770	3539	0	0		
Satd. Flow (prot)	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950		
Satd. Flow (perm)	1770	3539	1553	0	0	0	1863	1553	1770	3539	0	0		
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Satd. Flow (RTOR)	158	158	158	0	0	0	24	24	24	24	24	24		
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30		
Link Distance (ft)	797	542	797	542	542	542	204	204	204	803	803	803		
Travel Time (s)	17.9	0.92	17.9	12.3	12.3	12.3	4.6	4.6	4.6	18.3	18.3	18.3		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Adj. Flow (vph)	230	765	166	0	0	0	488	388	77	311	0	0		
Shared Lane Traffic (%)														
Lane Group Flow (vph)	230	765	166	0	0	0	488	388	77	311	0	0		
Number of Detectors	1	1	1	0	0	0	0	0	0	1	1	1		
Detector Template	16	16	16	0	0	0	0	0	0	15	15	15		
Leading Detector (ft)	0	0	0	0	0	0	0	0	0	-5	-5	-5		
Trailing Detector (ft)	0	0	0	0	0	0	0	0	0	-5	-5	-5		
Detector 1 Position (ft)	16	16	16	0	0	0	6	20	20	20	20	20		
Detector 1 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX		
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA	Perm	NA		
Protected Phases	4	4	4	1	2	2	1	2	2	1	2	2		
Permitted Phases	4	4	4	1	2	2	1	2	2	1	2	2		
Detector Phase														
Switch Phase														
Minimum Initial (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
Minimum Split (s)	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6		
Total Split (s)	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0		
Total Split (%)	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%		
Maximum Green (s)	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4		
Yellow Time (s)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
All-Red Time (s)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3		
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6		
Lead/Lag														
Lead/Lag Optimize?	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0		
Vehicle Extension (s)	None	None	None	None	None	None	None	None	None	None	None	None		
Recall Mode	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
Walk Time (s)	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0		
Flash Dont Walk (s)	0	0	0	0	0	0	0	0	0	0	0	0		
Pedestrian Call (ft/m)	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2		
Act Eff Green (s)	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26		
Adjusted g/C Ratio	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49		
Control Delay	0	0	0	0	0	0	0	0	0	0	0	0		
Queue Delay	413	49.6	7.6	66.6	36.9	20.3	18.2	18.2	18.2	18.2	18.2	18.2		
Time Delay	D	A	A	D	A	A	D	A	A	D	A	A		
LOS	D	A	A	D	A	A	D	A	A	D	A	A		
Approach Delay	149	288	5	168	121	29	61	61	61	61	61	61		
Approach LOS	231	368	58	229	175	m56	m88	m88	m88	m88	m88	m88		
Queue Length 50ft (ft)														
Queue Length 55ft (ft)														



Item	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Vehicle Extension (s)	2.0	3.0	3.0	2.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	2.0
Recall Mode	None	C-Min	None	None	C-Min	None	None	C-Min	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dart Walk (s)	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Pedestrian Calc. (#/hr)	10	10	10	10	10	10	10	10	10	10	10	10
Act Effect Green (s)	90.1	82.5	90.1	82.5	82.5	90.1	82.5	82.5	90.1	82.5	16.0	16.0
Actual g/C Ratio	0.75	0.69	0.75	0.69	0.69	0.75	0.69	0.69	0.75	0.69	0.13	0.13
v/c Ratio	0.15	0.37	0.19	0.27	0.06	0.67	0.46	0.67	0.19	0.27	0.06	0.46
Control Delay	5.2	10.0	11.7	19.2	18.7	62.9	62.9	62.9	11.7	19.2	18.7	52.8
Queue Delay	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	5.2	10.3	11.7	19.2	18.7	62.9	62.9	62.9	11.7	19.2	18.7	52.8
LOS	A	B	B	B	B	E	E	E	B	B	B	D
Approach Delay	A	9.9	B	B	18.3	B	62.9	B	E	52.8	B	52.8
Approach LOS	A	A	B	B	B	E	E	E	B	B	B	D
Queue Length 50ft (ft)	11	122	4	214	28	109	109	109	4	214	28	66
Queue Length 95ft (ft)	45	291	m80	304	m68	145	145	145	m80	304	m68	97
Internal Link Dist (ft)	483	483	100	597	100	420	420	420	100	597	100	489
Turn Bay Length (ft)	140	140	100	100	100	100	100	100	100	100	100	100
Base Capacity (vph)	635	2424	508	2433	1088	453	453	453	635	2424	508	410
Slavation Cap Reductn	0	847	0	0	0	0	0	0	0	847	0	0
Spillover Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	0.14	0.56	0.17	0.27	0.06	0.31	0.31	0.31	0.14	0.56	0.17	0.21
Intersection Summary												
Area Type:	Other											
Cycle Length:	120											
Actual Cycle Length:	120											
Chsr. Cr. (50%):	Referenced to phase 2EBTL and 6WBTL, Start of Yellow											
Control Type:	Actuated-Coordinated											
Maximum v/c Ratio:	0.87											
Intersection Signal Delay:	18.9											
Intersection LOS:	B											
Intersection Capacity Utilization:	49.4%											
Analysis Period (min):	15											
Volume for 95th percentile queue is metered by upstream signal.												

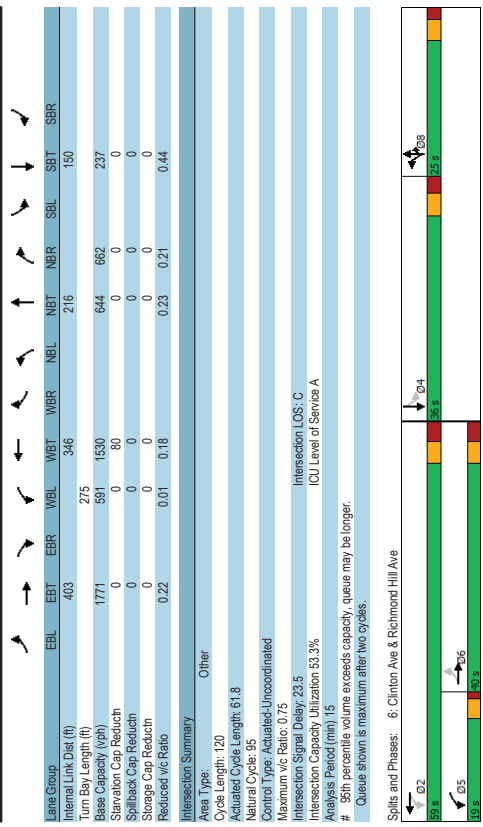


Item	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Configurations	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Trucks/Vol (vph)	82	746	23	80	602	56	29	51	51	20	15	46
Trucks/Vol (vph)	82	796	23	80	602	56	29	51	51	20	15	46
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	140	0	100	0	100	0	0	0	0	0	0	0
Storage Lanes	1	0	1	1	1	1	0	0	0	0	0	0
Travel Length (ft)	100	0	100	0	100	0	0	0	0	0	0	0
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Flt Protected	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Satd. Flow (prot)	1770	3525	0	1770	3539	1563	0	1746	0	0	1659	0
Satd. Flow (perm)	0.386	0.289	0.289	0.386	0.289	0.289	0.386	0.289	0.386	0.289	0.289	0.386
Right Turn on Red	719	3525	0	538	3539	1563	0	1595	0	0	1443	0
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30	30	30
Link Speed (mph)	563	677	15.4	677	677	11.4	11.4	13.2	13.2	13.2	13.2	13.2
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Parking (#/hr)	89	865	25	87	654	61	32	55	55	22	16	50
Shared Lane Traffic (%)	89	890	0	87	654	61	0	142	0	0	88	0
Lane Group Flow (vph)	4	1	4	1	1	1	1	1	1	1	1	1
Number of Detectors	33	50	36	50	50	20	106	20	106	20	106	106
Leading Detector (ft)	-9	0	-6	0	0	0	100	0	100	0	100	100
Trailing Detector (ft)	-9	0	-6	0	0	0	100	0	100	0	100	100
Detector 1 Position (ft)	6	50	6	50	50	20	6	20	6	20	6	6
Detector 1 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position (ft)	3	6	3	6	6	6	6	6	6	6	6	6
Detector 2 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 2 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Channel	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 3 Position (ft)	15	18	15	18	18	18	18	18	18	18	18	18
Detector 3 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 3 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Position (ft)	27	30	27	30	30	30	30	30	30	30	30	30
Detector 4 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 4 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	pm+pt	NA	pm+pt	NA	NA	Perm	NA	Perm	NA	Perm	NA	NA
Protected Phases	5	2	1	6	6	6	4	4	8	8	8	8
Permitted Phases	2	6	6	6	6	4	4	4	8	8	8	8
Detector Phase	5	2	1	6	6	6	4	4	8	8	8	8
Switch Phase	5.0	15.0	5.0	15.0	15.0	5.0	5.0	5.0	15.0	15.0	5.0	5.0
Minimum Split (s)	9.0	27.3	9.0	27.3	27.3	9.0	9.0	9.0	27.3	27.3	9.0	9.0
Green Time (s)	13.0	67.7	13.0	67.7	67.7	13.0	13.0	13.0	67.7	67.7	13.0	13.0
Total Split (s)	10.8%	58.9%	10.8%	58.9%	58.9%	33.3%	33.3%	33.3%	58.9%	58.9%	10.8%	10.8%
Maximum Green (s)	0.0	61.7	0.0	61.7	61.7	0.0	0.0	0.0	61.7	61.7	0.0	0.0
Yellow Time (s)	3.0	3.7	3.0	3.7	3.7	3.0	3.0	3.0	3.7	3.7	3.0	3.0
All Red Time (s)	1.0	1.6	1.0	1.6	1.6	1.0	1.0	1.0	1.6	1.6	1.0	1.0
Last Time (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lost Time (s)	4.0	5.3	4.0	5.3	5.3	4.0	4.0	4.0	5.3	5.3	4.0	4.0
Total Lost Time (s)	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimizer?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Area Type	WBL	WBR	NBT	NBR	SBL	SBR
Lane Configurations	34	31	152	24	50	83
Traffic Volume (vph)	34	31	152	24	50	83
Future Volume (vph)	1900	1900	1900	1900	1900	1900
Ideal Flow (vph)	1.00	1.00	1.00	1.00	1.00	1.00
Lane Util. Factor	0.935		0.982			
Flt Protected	0.975		0.982			
Satd. Flow (vph)	1638	0	1829	0	0	1646
Flt Permitted	0.975		0.982			
Satd. Flow (vph)	1638	0	1829	0	0	1646
Link Speed (mph)	30		30			30
Link Distance (ft)	511		160			500
Travel Time (s)	11.6		3.6			11.4
Peak-Hour Factor	0.92		0.92			0.92
Parking (#/hr)	37		34			54
Adj. Flow (vph)	37		34			54
Shared Lane Traffic (%)						
Lane Group Flow (vph)	71	0	191	0	0	144
Sign Control	Stop	Free	Free	Free	Free	Free
Intersection Summary						
Area Type	Other					
Control Type	Unsignalized					
Intersection Capacity Utilization	30.4%					
Analysis Period (min)	15					
ICU Level of Service A						

Intersection	WBL	WBR	NBT	NBR	SBL	SBR
Int Delay, s/veh	2.9					
Movement	34	31	152	24	50	83
Lane Configurations	34	31	152	24	50	83
Traffic Vol, veh/h	34	31	152	24	50	83
Future Vol, veh/h	0	0	0	0	0	0
Conflicting Pkts, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0					
Veh in Median Storage, #	0					
Grade, %	0					
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	37	34	165	26	54	90
Major/Minor						
Minor1	376	178	0	0	191	0
Major2	178	-	-	-	-	-
Conflicting Flow All	198					
Stage 1	6.42	6.22	-	-	4.12	-
Stage 2	5.42	-	-	-	-	-
Critical Hdwy	5.42	-	-	-	-	-
Critical Hdwy Slg 1	3.518	3.318	-	-	2.218	-
Critical Hdwy Slg 2	6.25	865	-	-	1383	-
Follow-up Hdwy	853	-	-	-	-	-
Pot Cap-1 Maneuver	835	-	-	-	-	-
Stage 1	599	865	-	-	1383	-
Stage 2	599	-	-	-	-	-
Platoon blocked, %	853	-	-	-	-	-
Mov Cap-1 Maneuver	853	-	-	-	-	-
Mov Cap-2 Maneuver	801	-	-	-	-	-
Stage 1						
Stage 2						
Approach						
WB	NB	0	0	0	0	2.9
HCM Control Delay, s	10.7					
HCM LOS	B					
Minor Lane/Major Mvmt						
NBT	NBR	WBLn1	SBL	SBR		
-	-	702	1383	-		
Capacity (veh/h)		-	0.101	0.039		
HCM Lane V/C Ratio		-	10.7	7.7		
HCM Control Delay (s)		-	B	A		
HCM Lane LOS		-	0.3	0.1		
HCM 95th %ile Q(veh)		-				

	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Internal Link Dist (ft)												
Turn Bay Length (ft)												
Turn Volume (vph)	92	243	5	5	173	59	20	36	209	26	65	65
Future Volume (vph)	92	260	5	5	173	59	20	36	209	26	65	65
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	25	0	275	0	0	0	0	0	0	0	0	0
Storage Lanes	1	0	1	0	0	0	0	0	1	0	0	0
Travel Length (ft)	50	0.95	0.95	1.00	1.00	1.00	1.00	0.95	0.95	1.00	1.00	1.00
Lane Util. Factor	0.95	0.998	0.998	0.963	0.963	0.963	0.963	0.912	0.912	0.850	0.908	0.908
Fit Protected	0	0.987	0.987	0.950	0.950	0.950	0.950	0.987	0.987	0.950	0.987	0.987
Satd. Flow (prot)	0	3496	0	1770	1794	0	0	1603	1504	0	1669	0
Fit Permitted	0.794	0.433	0.433	0.993	0.993	0.993	0.993	0.213	0.213	0.213	0.213	0.213
Satd. Flow (perm)	0	2805	0	807	1794	0	0	1603	1504	0	360	0
Right Turn on Red	Yes			Yes			Yes	Yes	Yes		Yes	Yes
Satd. Flow (RTOR)	1			18			51	141			71	
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	483			426			296				230	
Peak Hour Factor	11.0	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Travel Time (s)	100	283	5	5	195	64	22	39	227	28	5	71
Adj. Flow (vph)												
Shared Lane Traffic (%)									39%			
Lane Group Flow (vph)	0	388	0	5	259	0	0	147	141	0	104	0
Number of Detectors	1	0	1	1	1	1	1	1	1	1	1	1
Detector Template	Left			Left			Left		Left		Left	
Leading Detector (ft)	20	0	48	48	20	40	40	40	20	40	40	45
Trailing Detector (ft)	0	0	-2	-2	0	-10	-10	0	-5			
Detector 1 Position (ft)	0	0	-2	-2	0	-10	-10	0	-5			
Detector 1 Size (ft)	20	6	50	50	20	50	20	50	20	50	20	50
Detector 1 Type	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex	O+Ex
Detector 1 Channel	Detector 1	Extend	Queue	Queue	Queue	Queue	Queue	Queue	Queue	Queue	Queue	Queue
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type	Perm	NA	pm-pt	NA	Split	NA	Split	NA	Prot.	Perm	NA	NA
Protected Phases	6	6	2	2	8	8	8	8	8	4	4	4
Permitted Phases	6	6	2	2	8	8	8	8	8	4	4	4
Detector Phase												
Switch Phase												
Minimum Initial (s)	15.0	15.0	15.0	15.0	15.0	15.0	6.0	6.0	6.0	6.0	6.0	6.0
Minimum Split (s)	31.4	31.4	19.0	31.4	10.9	10.9	29.7	29.7	29.7	29.7	29.7	29.7
Total Split (s)	40.0	40.0	19.0	59.0	25.0	25.0	36.0	36.0	36.0	36.0	36.0	36.0
Total Split (%)	33.3%	33.3%	16.8%	48.2%	20.8%	20.8%	30.0%	30.0%	30.0%	30.0%	30.0%	30.0%
Maximum Green (s)	33.6	33.6	15.0	52.6	20.1	20.1	30.3	30.3	30.3	30.3	30.3	30.3
Yellow Time (s)	3.1	3.1	3.0	3.3	3.0	3.0	3.3	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)	3.1	3.1	1.0	3.1	1.9	1.9	2.4	2.4	2.4	2.4	2.4	2.4
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.4	4.0	6.4	4.0	4.0	4.9	4.9	4.9	4.9	4.9	4.9
Lead/Lag	Lag	Yes	Yes	Lag	Yes	Yes	Lag	Yes	Yes	Lag	Yes	Yes
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	5.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	Min	Min	None	Min	Min	Min	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Bush Dont Walk (s)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Pedestrian Cals (fl/m)	10	10	0	0	0	0	10	10	10	10	10	10
Act Erlic Green (s)	19.3	21.4	24.3	21.4	0.7	0.7	10.7	10.7	14.3	14.3	14.3	14.3
Act Erlic Green (s)	0.31	0.35	0.31	0.35	0.17	0.17	0.23	0.23	0.23	0.23	0.23	0.23
Act Erlic Green Ratio	0.44	0.44	0.44	0.44	0.44	0.44	0.37	0.37	0.44	0.44	0.44	0.44
Green Delay	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Green Delay	24.3	16.8	19.7	16.8	19.7	19.7	25.8	10.0	45.6	45.6	45.6	45.6
LOS	C	B	B	B	B	B	C	B	B	D	D	D
Approach Delay	24.3	19.6	19.6	19.6	19.6	19.6	18.1	18.1	45.6	45.6	45.6	45.6
Approach LOS	B	B	B	B	B	B	B	B	B	D	D	D
Queue Length 50th (ft)	53	1	63	1	63	28	0	9	9	9	9	9
Queue Length 95th (ft)	181	9	182	9	182	133	57	57	57	57	57	57



Splits and Phases: 6: Clinton Ave & Richmond Hill Ave

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø9	Ø10
Internal Link Dist (ft)	320	557	623	180	200	230	200	200	230	200	200	324		
Turn Bay Length (ft)	270	1211	250	1173	262	1238	553	250	1338	598	0	0		
Base Cap Reductn	0	0	0	0	0	19	0	0	0	0	0	0		
Station Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0		
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0		
Reductn %/v Ratio	0.70	0.65	0.40	0.60	0.21	0.90	0.57	1.09	0.69	0.18				

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø9	Ø10
Lane Configurations	175	51	91	514	139	51	1008	261	251	851	97			
Trucks/Vol (vph)	175	677	51	513	139	51	1008	261	251	851	97			
Heavy Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900			
Storage Length (ft)	320	0	180	0	200	230	200	230	200	230				
Truck Length (ft)	50	60	60	25	25	1	1	1	1	1				
Lane Util. Factor	1.00	0.91	1.00	0.91	1.00	0.95	1.00	0.95	1.00	0.95	1.00			
Flt Protected	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950				
Satd. Flow (prot)	1770	5034	0	1770	4923	0	1770	3539	1583	1770	3539	1583		
Satd. Flow (perm)	1770	5034	0	1770	4923	0	1770	3539	1583	1770	3539	1583		
Right Turn on Red	No	No	No	No	No	No	No	No	No	No	No	No		
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30				
Link Speed (mph)	677	703	703	578	578	404	404	404	404	404				
Travel Time (s)	15.4	16.0	16.0	13.1	13.1	9.2	9.2	9.2	9.2	9.2				
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92				
Adj. Flow Factor	190	736	55	99	558	151	55	1056	316	273	925	105		
Shared Lane Traffic (%)	190	791	0	99	709	0	55	1056	316	273	925	105		
Lane Group Flow (vph)	1	1	1	1	1	1	1	1	1	1				
Number of Detectors	40	45	40	45	40	45	40	45	40	45				
Detector Template	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5				
Trailing Detector (ft)	-10	-5	-10	-5	-10	-5	-10	-5	-10	-5				
Detector 1 Position (ft)	50	50	50	50	50	50	50	50	50	50				
Detector 1 Size (ft)	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX				
Detector 1 Type	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Turn Type	Prot	NA	Prot	NA	Prot	NA	Prot	NA	Prot	NA	Perm	NA	Perm	
Protected Phases	7	4	3	8	5	2	2	1	6	9	10			
Permitted Phases	7	4	3	8	5	2	2	1	6	6				
Detector Phase	5.0	10.0	5.0	10.0	5.0	15.0	5.0	15.0	5.0	15.0	1.0	1.0		
Switch Phase	9.0	30.4	9.0	30.4	9.0	30.6	9.0	30.6	9.0	30.6	3.0	3.0		
Minimum Split (s)	16.0	34.0	16.0	34.0	21.0	43.0	21.0	43.0	21.0	43.0	3.0	3.0		
Total Split (%)	13.3%	28.3%	13.3%	28.3%	17.5%	35.8%	17.5%	35.8%	17.5%	35.8%	3%	3%		
Maximum Green (s)	12.0	28.6	12.0	28.6	17.0	37.4	17.0	37.4	17.0	37.4	3.74	3.74		
Yellow Time (s)	3.0	3.7	3.0	3.7	3.0	3.3	3.0	3.3	3.0	3.3	2.0	2.0		
All-Red Time (s)	1.0	1.7	1.0	1.7	1.0	2.3	1.0	2.3	1.0	2.3	2.3	2.3		
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)	4.0	5.4	4.0	5.4	4.0	5.6	4.0	5.6	4.0	5.6	5.6	5.6		
Lead/Lag	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lead		
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Vehicle Extension (s)	1.0	3.0	1.0	3.0	1.0	3.0	1.0	3.0	1.0	3.0	3.0	3.0		
Recall Mode	None	None	None	None	None	C-Min	None	C-Min	None	C-Min	None	None		
Walk Time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
Bike Time (s)	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0		
Pedestrian Walk (s)	30	30	30	30	30	30	30	30	30	30	30	30		
Pedestrian Calls (P/Min)	18.4	25.0	17.0	23.7	15.4	42.0	17.0	45.4	15.4	45.4	45.4	45.4		
Act Eff Green (s)	0.15	0.21	0.14	0.20	0.13	0.35	0.14	0.38	0.14	0.38	0.38	0.38		
Actuated G/C Ratio	0.17	0.15	0.17	0.15	0.17	0.15	0.17	0.15	0.17	0.15	0.15	0.15		
G/C Ratio	0.17	0.15	0.17	0.15	0.17	0.15	0.17	0.15	0.17	0.15	0.15	0.15		
Queue Delay	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.0		
Queue Delay	70.7	47.7	52.9	49.7	36.6	42.8	35.4	131.7	36.5	28.6				
LOS	E	D	D	D	D	D	D	F	D	C				
Approach Delay	52.2	41.0	52.2	41.0	52.2	41.0	52.2	41.0	52.2	41.0	55.8	55.8		
Approach LOS	D	D	D	D	D	D	D	D	D	D	E	E		
Queue Length 50th (ft)	148	224	70	187	35	335	179	~238	335	58				
Queue Length 95th (ft)	4283	253	131	224	m53	4550	295	4410	417	102				

100 Clinton Avenue
 8: Washington Blvd & Division St

Combined (2025) Conditions
 PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Left Configurations	95	65	4	65	0	4	5	10	154	0	118	29
Truck Volume (vph)	95	0	66	0	0	5	10	154	0	0	118	29
Peak Hour Factor	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	170	0	0	0	0	0	100	0	100	0	0
Storage Lanes	25	1	0	25	0	25	0	1	0	1	0	0
Travel Length (ft)	100	100	100	100	100	100	100	100	100	100	100	100
Fill Protected	0	0.950	0	0.850	0	0.850	0	0.950	0	0.950	0	0.950
Satd. Flow (prot)	0	1770	1533	0	1611	0	1770	3539	0	1663	3525	0
Fill Permitted	0	0.754	0	0.754	0	0.149	0	0.149	0	0.863	3525	0
Satd. Flow (perm)	0	1405	1533	0	1611	0	278	3539	0	1663	3525	0
Right Turn on Red	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satd. Flow (RTOR)	30	42	197	30	30	30	30	30	30	30	30	3
Link Speed (mph)	511	11.6	5.7	252	5.7	356	8.1	13.1	356	578	578	578
Travel Time (s)	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	103	0	72	0	0	5	11	1675	0	0	1295	32
Shared Lane Traffic (%)	0	103	72	0	5	11	1675	0	0	1327	0	0
Lane Group Flow (vph)	1	4	4	1	1	4	4	1	4	4	1	1
Number of Detectors	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left
Leading Detector (ft)	20	32	32	20	6	39	50	36	50	36	50	50
Trailing Detector (ft)	0	-10	-10	0	-3	0	-3	0	-6	0	-6	0
Detector 1 Position (ft)	0	-10	-10	0	-3	0	-3	0	-6	0	-6	0
Detector 1 Size(ft)	20	6	6	20	6	6	6	6	6	6	6	6
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(ft)	2	2	2	2	2	2	2	2	2	2	2	2
Detector 2 Size(ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 2 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 2 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Position(ft)	14	14	14	14	14	14	14	14	14	14	14	14
Detector 3 Size(ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 3 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 3 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 3 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Position(ft)	26	26	26	26	26	26	26	26	26	26	26	26
Detector 4 Size(ft)	6	6	6	6	6	6	6	6	6	6	6	6
Detector 4 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 4 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 4 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Protected Phases	Perm	NA	pm+ov	NA	pm+pl	NA	pm+pl	NA	pm+pl	NA	pm+pl	NA
Permitted Phases	4	4	4	4	4	4	4	4	4	4	4	4
Detector Phase	4	4	4	4	4	4	4	4	4	4	4	4
Switch Phase	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
Minimum Split (%)	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Total Split (s)	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0
Total Split (%)	21.5%	21.5%	14.2%	21.5%	21.5%	14.2%	58.3%	14.2%	58.3%	14.2%	58.3%	58.3%
Maximum Green (s)	43	33	30	43	33	33	43	33	33	43	33	33
Yellow Time (s)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
All-Red Time (s)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.2	4.0	4.0	7.2	4.0	4.0	7.2	4.0	4.0	7.2	4.0	4.0
Lead/Lag	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead	Lead
Lead/Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

100 Clinton Avenue
 8: Washington Blvd & Division St

Combined (2025) Conditions
 PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Recall Metrics	None	None	None	None	None	None	None	None	None	None	None	None
Walk Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Duration (s)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Pedestrian Cals. (#/hr)	30	30	30	30	30	30	30	30	30	30	30	30
Act Effect Green (s)	18.7	30.9	18.7	18.7	30.9	18.7	90.1	88.1	90.1	88.1	90.1	80.9
Act Effect g/C Ratio	0.16	0.26	0.16	0.16	0.26	0.16	0.75	0.73	0.75	0.73	0.75	0.67
v/c Ratio	0.47	0.16	0.47	0.16	0.47	0.16	0.04	0.04	0.04	0.04	0.04	0.56
Control Delay	54.4	19.1	54.4	19.1	54.4	19.1	3.6	5.0	3.6	5.0	4.0	4.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2
Total Delay	54.4	19.1	54.4	19.1	54.4	19.1	3.6	5.2	3.6	5.2	4.2	4.2
LOS	D	B	D	B	D	B	A	A	A	A	A	A
Approach Delay	39.9											
Approach LOS	D											
Queue Length 50m (ft)	72	18										
Queue Length 99m (ft)	127	58										
Internal Link Dist (ft)	431											
Turn Bay Length (ft)	170											
Base Capacity (vph)	302	541										
Slatation Cap Reduct	0	0										
Spillback Cap Reduct	0	3										
Storage Cap Reduct	0	0										
Reduced v/c Ratio	0.34	0.13										
Intersection Summary												
Area Type:	Other											
Cycle Length:	120											
Actuated Cycle Length:	120											
Onset:	22 (18%), Referenced to phase 2:SBTL and 6:NBLT, Start of Yellow											
Natural Cycle:	30											
Control Type:	Actuated-Coordinated											
Maximum v/c Ratio:	0.64											
Intersection Signal Delay:	6.7											
Intersection LOS:	A											
Intersection Capacity Utilization:	65.5%											
Analysis Period (min):	15											
m:	Volume for 95th percentile queue is metered by upstream signal.											

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Lane Configurations	275	220	5	5	202	1271	5	5	1212	41	41		
Trucks/Vol (vph)	275	0	220	5	0	202	1271	5	5	1212	41		
Trucks/Vol (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900		
Storage Length (ft)	0	0	0	0	140	0	0	0	0	0	0		
Storage Lanes	1	0	0	0	0	1	0	0	0	0	0		
Truck Length (ft)	25	1.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	0.95	0.95		
Lane Util. Factor	1.00	0.850	0.932	0.976	0.950	0.999	0.950	0.955	0.955	0.955	0.955		
Flt Protected	0.950												
Satd. Flow (prot)	1770	1583	0	0	1694	0	1770	3536	0	0	3522	0	
Flt Permitted	0.751												
Satd. Flow (perm)	1399	1583	0	0	1552	0	181	3536	0	0	3345	0	
Right Turn on Red	No	No	No	No	No	No	No	No	No	No	No	No	
Satd. Flow (RTOR)	30	30	30	30	30	30	30	30	30	30	30		
Link Distance (ft)	426	205	4.7	7.4	4.7	7.4	4.7	7.4	4.7	7.4	4.7		
Travel Time (s)	9.7	9.7	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92		
Adj. Flow (vph)	299	0	239	5	0	220	1382	5	5	1317	45		
Shared Lane Traffic (%)													
Lane Group Flow (vph)	299	239	0	0	10	0	220	1387	0	0	1367	0	
Number of Detectors	1	1	1	1	1	1	1	1	1	1	1		
Detector Template	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left	Left		
Leading Detector (ft)	50	50	20	50	40	40	20	40	20	40			
Trailing Detector (ft)	0	0	0	0	-10	-10	0	-10	0	-10			
Detector 1 Position (ft)	0	0	0	0	-10	-10	0	-10	0	-10			
Detector 1 Size (ft)	50	50	20	50	50	50	20	50	20	50			
Detector 1 Type	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX			
Detector 1 Channel													
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Turn Type	Perm	NA	Perm	NA	pm+pt	NA	Perm	NA	Perm	NA			
Protected Phases	4	4	4	4	5	2	4	5	2	6	3		
Permitted Phases	4	4	4	4	2	2	6	6	6	6			
Detector Phase	4	4	4	4	5	2	6	6	6	6			
Switch Phase													
Minimum Initial (s)	5.0	5.0	5.0	5.0	7.0	15.0	15.0	15.0	15.0	15.0			
Minimum Split (s)	24.2	24.2	24.2	24.2	11.0	28.0	28.0	28.0	28.0	28.0			
Total Split (s)	32.0	32.0	32.0	32.0	16.0	84.0	68.0	68.0	68.0	68.0			
Total Split (%)	25.7%	25.7%	25.7%	25.7%	13.3%	70.0%	56.7%	56.7%	56.7%	56.7%			
Maximum Green (s)	27.8	27.8	27.8	27.8	12.0	79.0	63.0	63.0	63.0	63.0			
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.3	3.3	3.3	3.3	3.3			
All-Red Time (s)	1.2	1.2	1.2	1.2	1.0	1.7	1.7	1.7	1.7	1.7			
Last Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Total Lost Time (s)	4.2	4.2	4.2	4.2	4.0	5.0	5.0	5.0	5.0	5.0			
Lead/Lag	Lag	Lag	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lag	Lead		
Lead/Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Vehicle Extension (s)	2.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0			
Recall Mode	None	None	None	None	None	C-Min	C-Min	C-Min	C-Min	C-Min	None		
Walk Time (s)	3.0	3.0	3.0	3.0	3.0	7.0	7.0	7.0	7.0	7.0			
Flash Dont Walk (s)	17.0	17.0	17.0	17.0	17.0	16.0	16.0	16.0	16.0	16.0			
Pedestrian Calls (flm)	30	30	30	30	30	81.7	60.7	65.4	65.4	65.4			
Act Erlic Green (s)	30	30	30	30	30	1	0.88	0.87	0.94	0.94			
Act Erlic Green Ratio	0.65	0.65	0.65	0.65	0.65	0.03	0.03	0.03	0.03	0.03			
VC Ratio	0.65	0.65	0.65	0.65	0.65	0.03	0.03	0.03	0.03	0.03			
Control Delay	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2			
Queue Delay	65.4	46.3	32.7	32.7	43.2	10.3	17.0	17.0	17.0	17.0			
Turn Delay	E	D	C	D	D	B	B	B	B	B			
Approach Delay	E	D	C	D	D	B	B	B	B	B			
Approach LOS	C	C	C	C	C	B	B	B	B	B			
Queue Length 50th (ft)	215	159	6	6	70	245	570	570	570	570			
Queue Length 95th (ft)	4362	247	20	20	m#178	487	650	650	650	650			

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR	Ø3
Internal Link Dist (ft)	346			125			140			246			
Turn Bay Length (ft)													
Base Cap (vph)	360	407	0	389	0	0	287	2388	0	1845	0	0	
Station Cap Reductn	0	0	0	0	0	0	2	251	0	207	0	0	
Signal Cap Reductn	0	0	0	0	0	0	0	0	0	35	0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0	
Reductn %/Ratio	0.83	0.59	0.03	0.03	0.77	0.65	0.88	0.88	0.88	0.88			
Intersection Summary													
Area Type:	Other												
Cycle Length:	120												
Actuated Cycle Length:	120												
Offset:	47 (39%), Referenced to phase 2:NBL and 6:SBTL Start of Yellow												
Natural Cycle:	80												
Control Type:	Actuated-Coordinated												
Maximum V/C Ratio:	0.85												
Intersection Signal Delay:	22.1												
Intersection LOS:	C												
ICU Level of Service:	G												
Intersection Capacity Utilization:	104.0%												
Analysis Period (min):	15												
# 95th percentile volume exceeds capacity, queue may be longer.													
Queue shown is maximum after two cycles.													
m Volume for 95th percentile queue is metered by upstream signal.													
Splits and Phases:	9: Washington Blvd & Richmond Hill Ave												
	0.03 (R)												
	0.05												
	0.65 (R)												

100 Clinton Avenue
 10: Washington Blvd & I-95 WB On Ramp/N State St

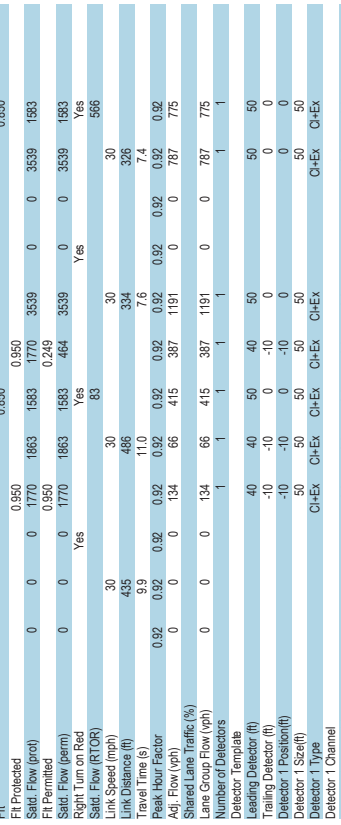
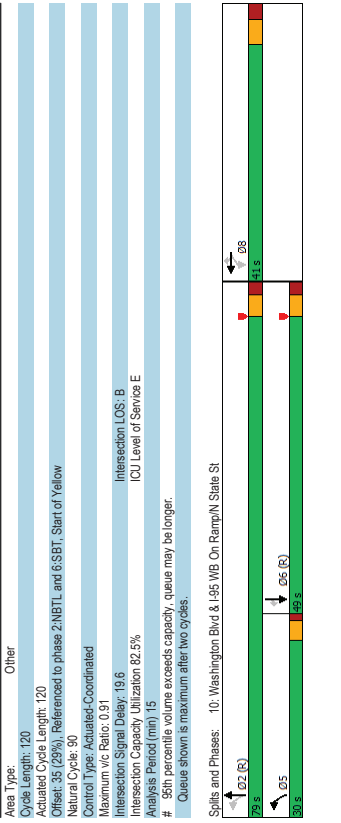
100 Clinton Avenue
 10: Washington Blvd & I-95 WB On Ramp/N State St

Combined (2025) Conditions
PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Shutdoor Cap Reduct												
Stallcap Cap Reduct												
Shutdoor Cap Reduct												
Reduce v/c Ratio	0.26			0.12			0.81			0.65		0.57
Intersection Summary												

Combined (2025) Conditions
PM Peak

Line Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SSR
Line Configurations												
Trucks Volume (vph)	0	0	0	123	61	382	356	1056	0	724	713	713
Trucks Volume (vph)	0	0	0	123	61	382	356	1056	0	724	713	713
Ideal Flow (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Line Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	1.00	0.95	1.00
Fit Protected				0.950			0.950					0.850
Satd. Flow (vph)	0	0	0	1770	1863	1583	1770	3539	0	0	3539	1583
Fit Permitted				0.950			0.249					
Satd. Flow (vph)	0	0	0	1770	1863	1583	464	3539	0	0	3539	1583
Right Turn on Red				Yes			Yes	Yes			Yes	Yes
Satd. Flow (RTOR)				30			83				30	566
Link Speed (mph)				435			486				334	326
Link Distance (ft)				9.9			11.0				7.6	7.4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	134	66	415	367	1191	0	0	767	775
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	134	66	415	367	1191	0	0	767	775
Number of Detectors				1	1	1	1	1			1	1
Detector Template				40	40	50	40	50	40	50	40	50
Leading Detector (ft)				-10	-10	0	-10	0	-10	0	0	0
Trailing Detector (ft)				-10	-10	0	-10	0	-10	0	0	0
Detector 1 Position (ft)				-10	-10	0	-10	0	-10	0	0	0
Detector 1 Size (ft)				50	50	50	50	50	50	50	50	50
Detector 1 Type				O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX	O+EX
Detector 1 Channel				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Turn Type				Perm	NA	Perm	pm-pt	NA	NA	Perm	NA	Perm
Protected Phases				8	8	8	2	2	2	6	6	6
Permitted Phases				8	8	8	2	2	2	6	6	6
Detector Phase				8	8	8	5	2	2	6	6	6
Switch Phase				7.0	7.0	7.0	10.0	15.0	15.0	15.0	15.0	15.0
Minimum Initial (s)				35.1	35.1	35.1	14.0	25.3	25.3	25.3	25.3	25.3
Minimum Split (s)				41.0	41.0	41.0	30.0	79.0	49.0	49.0	49.0	49.0
Total Split (s)				34.2%	34.2%	34.2%	25.0%	65.8%	40.8%	40.8%	40.8%	40.8%
Maximum Green (s)				34.9	34.9	34.9	26.0	73.7	43.7	43.7	43.7	43.7
Yellow Time (s)				3.7	3.7	3.7	3.0	3.3	3.3	3.3	3.3	3.3
All-Red Time (s)				2.4	2.4	2.4	1.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)				6.1	6.1	6.1	4.0	5.3	5.3	5.3	5.3	5.3
Lead/Lag				Lead			Lag	Lag	Lag	Lag	Lag	Lag
Lead-Lag Optimize?				Yes			Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)				2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode				None	None	None	None	C-Max	C-Max	C-Max	C-Max	C-Max
Walk Time (s)				7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Flash Dont Walk (s)				22.0	22.0	22.0	13.0	13.0	13.0	13.0	13.0	13.0
Pedestrian Calls (fl/h)				30	30	30	30	30	30	30	30	30
Act Effd Green (s)				29.8	29.8	29.8	80.1	76.8	96.1	96.1	96.1	96.1
Actuals g/C Ratio				0.25	0.25	0.25	0.67	0.66	0.47	0.47	0.47	0.47
v/c Ratio				0.31	0.14	0.31	0.75	0.51	0.48	0.48	0.74	0.74
Control Delay				37.3	33.9	37.3	20.6	12.3	14.7	14.7	14.7	14.7
Queue Delay				0.0	0.0	0.0	0.0	0.1	0.7	0.7	0.7	0.7
Total Delay				37.3	33.9	37.3	20.6	12.4	15.4	15.4	15.4	15.4
LOS				D	E	E	C	B	B	B	B	A
Approach Delay				52.2			14.4				12.6	
Approach LOS				B			B				B	B
Queue Length 50th (ft)				83	39	253	123	243	60	17	60	17
Queue Length 85th (ft)				134	74	4402	214	322	322	213	114	114
Internal Link Dist (ft)												
Turn Bar Length (ft)				355			406	254			246	
Turn Bar Length (ft)												
Base Capacity (vph)				514	541	519	592	2324			1655	1061



Area Type	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SRT	SSR
Lane Configurations	26	0	11	9	0	12	31	138	18	14	14	27
Traffic Volume (vph)	26	0	11	9	0	12	31	138	18	14	14	27
Future Volume (vph)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Ideal Flow (vph)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Lane Util. Factor	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966
FI Protected	0	0	0	0	0	0	0	0	0	0	0	0
Satd. Flow (vph)	0	1726	0	0	1685	0	0	1824	0	0	1784	0
FI Permitted	0	1726	0	0	1685	0	0	1824	0	0	1784	0
Satd. Flow (vph)	0	1726	0	0	1685	0	0	1824	0	0	1784	0
Link Speed (mph)	30	30	30	30	30	30	30	30	30	30	30	30
Link Distance (ft)	158	158	149	149	230	230	230	230	160	160	160	30
Travel Time (s)	3.6	3.6	3.4	3.4	3.4	3.4	3.4	3.4	3.6	3.6	3.6	3.6
Peak-Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	28	0	12	10	0	13	34	150	20	15	84	29
Shared Lane Traffic (%)	0	40	0	0	23	0	0	204	0	0	128	0
Lane Group Flow (vph)	0	40	0	0	23	0	0	204	0	0	128	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Intersection Summary												
Area Type	Other											
Control Type	Unsignalized											
Intersection Capacity Utilization	25.1%											
Analysis Period (min)	15											
ICU Level of Service A												

Intersection	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SRT	SSR
Int Delay, s/veh	2.6											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SRT	SSR
Lane Configurations	26	0	11	9	0	12	31	138	18	14	14	27
Traffic Vol, veh/h	26	0	11	9	0	12	31	138	18	14	14	27
Future Vol, veh/h	26	0	11	9	0	12	31	138	18	14	14	27
Conflicting Pkts, #/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	-	-	-	-	-	-	-	-	-	-	-	-
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	-	-	-	-	-	-	-	-	-	-	-
Grade, %	-	-	-	-	-	-	-	-	-	-	-	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Movt Flow	28	0	12	10	0	13	34	150	20	15	84	29
Minor/Minor	Minor2	Minor1	Minor1	Minor1	Minor1	Minor1	Major1	Major1	Major2	Major2	Major2	Major2
Conflicting Flow All	364	367	99	363	371	160	113	0	0	170	0	0
Stage 1	129	129	-	228	228	-	-	-	-	-	-	-
Stage 2	235	238	-	135	143	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Sig 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Sig 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	592	562	957	593	559	885	1476	-	-	1407	-	-
Stage 1	875	789	-	775	715	-	-	-	-	-	-	-
Stage 2	768	708	-	868	779	-	-	-	-	-	-	-
Platoon blocked, %	-	-	-	-	-	-	-	-	-	-	-	-
Mov Cap-1 Maneuver	567	542	957	570	539	885	1476	-	-	1407	-	-
Mov Cap-2 Maneuver	567	542	-	570	539	-	-	-	-	-	-	-
Stage 1	853	780	-	756	697	-	-	-	-	-	-	-
Stage 2	738	690	-	848	770	-	-	-	-	-	-	-
Approach	EB	WB	WB	WB	WB	WB	NB	NB	NB	SB	SB	SB
HCM Control Delay, s	11	102	102	102	102	102	1.2	1.2	1.2	0.9	0.9	0.9
HCM LOS	B	B	B	B	B	B	B	B	B	B	B	B
Minor Lane/Minor Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	NBL	SBL	SBR	SBL	SBR	SBL	SBR
Capacity (veh/h)	1476	-	-	645	716	1407	-	-	-	-	-	-
HCM Lane V/C Ratio	0.023	-	-	0.062	0.032	0.011	-	-	-	-	-	-
HCM Control Delay (s)	7.5	0	0	11	10.2	7.6	0	0	0	0	0	0
HCM Lane LOS	A	A	A	B	B	A	A	A	A	A	A	A
HCM 95th %ile Q/veh	0.1	-	-	0.2	0.1	0	-	-	-	-	-	-