



TRANSI

Final Report

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1. INTRODUCTION

The Seton Ridge development is a strategic infill development located adjacent to Mount Saint Vincent University (MSVU) on lands that were previously home to the Sisters of Charity Motherhouse. The original motherhouse was established in 1873, reconstructed in 1959

HRM: Transportation Impact Studies are prepared to ensure developments are consistent with the objectives and policies of the Municipal Planning Strategies / Municipal Development Plans and the Regional Plan.

Development Plans and the Regional Plan.

following a 1951 fire, and its use was discontinued in 2001. Through a variety of redevelopment concepts and alternatives, the Seton Ridge development has been successfully progressing through the various development stages to see the lands developed as a LEED based and transit oriented, sustainable, efficient and accessible modern development.

The development is well situated within Halifax's transportation framework connecting directly to Lacewood Drive and the Bedford Highway. The lands are about 5 km from Citadel Hill / downtown Halifax; 3 km from the MacKay Bridge; 4 km from the Macdonald Bridge; 3.5 km from the Armdale Rotary; and, 2 km from Highway 102. It connects to a variety of active transportation infrastructure and the new road through the development has been identified as a probable new transit route.



Figure 1-1: Development Location

1.1 Study Objectives

The objective of the study is to ensure the compatibility of the development with both existing and planned transportation infrastructure in the areas around the development. To do this, the study focuses on:

- Developing a clear definition and understanding of existing transportation conditions on the road, active transportation and transit networks as well as other complementary activities that impact the transportation network;
- Predict the magnitude and orientation of new traffic generated by the development and consider other network growth and changes relevant to the development's operation; and,
- Evaluate the impact of the new operational environment on the existing and future transportation network, and identify strategic infrastructure improvements required to ensure the development remains compatible with the short and long term intent of Halifax's regional transportation plans.

1.2 Study Area

For the purposes of this study, the project north arrow has been oriented perpendicular to the Bedford Highway as shown in the figure to the right. The Seton Ridge development is located on the south side of the Bedford Basin on a parcel of land bounded by the Bedford Highway to the north, Bayview Road and Lacewood Drive to the east, Dunbrack Street to the south, and Flamingo Drive to the west. Inside these boundaries, there are a variety of residential streets, Mount Saint Vincent University (MSVU), and the Shannex Caritas retirement residence.



The study will address impacted transportation infrastructure within the study area boundaries shown in the figure to the right.

1.3 Proposed Development

The proposed development has evaluated at a number of different development levels typically ranging from about 1,800 units to 2,500 units. For the purposes of this study, the maximum potential unit count was used to evaluate network operations. The development scenario is comprised of the following elements:

	2,500 Unit Scenario
Total Property Area	~ 60 acres
Single Family Detached Housing	179 Units
Low Rise Townhouses	6 Units
Multi-story Apartments	2,315 Units
Retail Areas	89,000 ft ² (8,300 m ²)
Office Space	46,000 ft ² (4,280 m ²)
Community Centre	6,458 ft ² (600 m ²)
Parkland Area	~ 9 Acres (3.7 ha)

Table 1-1: Summary of Development

Figure 1.3: Preliminary Site Drawing

1.4 Adjacent Properties

1.4.1 Shannex Development

The Shannex Caritas facility was built in 2008 for the Sisters of Charity and currently includes 101 suites. HRM has advised that Shannex anticipates adding a senior's complex with approximately 500 units plus staff. Traffic from this site will connect to the main road corridor through the Seton Ridge development.



1.4.2 Mount Saint Vincent University (MSVU)

MSVU was original established by the Sisters of Charity in 1873. Today, just over 4,000 on-campus and distance learning students attend MSVU from across Canada and more than 50 countries. There are just over 500 full and part time faculty and staff on the 40 acre campus including approximately 400 onsite student dorms. Access to the campus includes a primary and secondary driveway on the Bedford Highway and 7 driveways connecting to Seton Road.



1.5 Previous and Ongoing Studies

1.5.1 Bedford-Halifax Mainland North Corridor Transportation Study

This study was prepared to assess the ability of the Bedford Highway (~19,600 Average Annual Weekday Traffic - AAWT), Highway 102 (~45,000 AAWT), and Northwest Arm / Dunbrack Street (~20,000 AAWT) to accommodate traffic growth from 5 key development areas including: Paper Mill Lake (600 units); Mill Cove (3,600 units); Birch Cove (440 units); Rockingham South (982 units); and, Seaton Ridge (1,800 units). The study considered various population and transit scenarios and accounted for active transportation related impacts.

The report suggests a variety of network improvements including a North-South transit corridor through the Seton Ridge lands, reversible lanes on Bedford Highway (1 for buses only) between the Fairview Interchange and Seton Drive, new bus lanes to create a 6-lane segment of Lacewood Drive (2 dedicated to buses), and other improvements to accommodate transit oriented growth throughout the area. Results of the modeling analysis suggest a 25 – 27% transit modal share (increase of 4% from the "status quo" analysis) and an overall network wide transit

usage estimate in the range of 7.5%. In general, the report heavily favours network improvements that support transit capacity increases as opposed to the accommodation cars.

According to Statistics Canada reports (2006 data), approximately 23 percent (12% public transit, 11% walk / cycle) of the employed labour force 15 years and over in HRM walks, bicycles or takes transit to work. The report specifically identifies the high quality and accessibility of the Mainland North Linear Parkway, which passes between the Lacewood commercial area and the West End Plaza commercial area. This is accessible from Rockingham South and can connect Seton Ridge (to Canary Crescent and from there via mostly low-volume streets to connect to Radcliffe Drive and the Linear Trail).

The report identifies modal share in the 2026 target for the Inner Suburban Area is 17% transit, 77% auto and 6% AT. It also promotes higher density and cluster development to help reduce per capita automobile ownership use and increase the use of alternate travel modes. The report states:

"We note, for example, the Motherhouse project which is being planned to incorporate Leadership in environmental and Energy Design (LEED-ND) principles which are intended to result in more "green" developments. By using clustering and density in the overall design, and by employing modern building technologies and approaches, projects such as this should operate more economically, result in more trips being satisfied in the local neighbourhood, and contribute less to carbon emissions. The approach could be a model for all of the projects considered in this study."

1.5.2 Icon Bay Development - 50 Bedford Highway

The Icon Bay development was addressed in a 2009 traffic study (February 2009 report and July 2009 addendum). The study assumed 150 condominium units, 104 hotel rooms and a consolidated access driveway shared between the development and the adjacent car dealerships. The current space has eliminated the hotel rooms in favour of commercial space on the lower floors of the development.

The consolidated driveway forms a Tee-intersection with the Bedford Highway and includes semi-actuated traffic signals and pedestrian signals across the driveway parallel to Bedford Highway. It was noted that this development or the associated traffic signals were not identified in the Bedford-Halifax Mainland North Corridor Transportation Study.



The following points from the study are relevant:

- Bedford highway has average weekday traffic volumes around 40,000 vehicles per day (2,600 and 3,000 vehicles per hour during the AM and PM peak hours respectively).
- A 0.5% background traffic growth rate was used.
- Traffic generation included 45 entering / 64 exiting trips during the AM peak and 67 entering / 51 exiting trips during the PM peak.
- Traffic distribution assumed a split of 40% north (away from downtown) / 60% south for background traffic and 25% north / 75% south for site traffic.
- The analysis made adjustments to saturated flow rates and permitted left turn factors at Bedford Highway with Bayview.
- The analysis shows high v/c ratios at Bayview and long northbound queues on Bedford Highway (presumably from Windsor Street).
- The report notes that the long queue lengths on Bedford Highway will increase with the addition of another set of traffic signals (at the combined driveway).
- The July addendum adds further analysis details related to the installation of traffic signals and the impacts of the left turn lane at the new driveway.

1.5.3 Bedford Highway Functional Plan

This study started in September 2018 with a planned end date of March 2019. The overall goal to "Develop a Functional Plan for the Bedford Highway that will provide a corridor-wide vision that directly informs how the transportation infrastructure is reinstated as part of routine capital projects, as well as enable the strategic preservation (and acquisition) of right-of-way to facilitate future works."

HRM's *Municipal Planning Strategy* (2014) identifies upgrades to the Bedford Highway, including widening to four traffic lanes between Bayview Road and Kearney Lake Road, as a 'Future Potential' project. Other network improvements such reversable lanes, transit lanes, intersection upgrades and other options have been evaluated to different degrees, though the request for proposals states that no meaningful progress has been made to move any initiatives forward.

The RFP cites the 2017 Integrated Mobility Plan and notes that the Bedford Highway is a proposed "Transit Priority Corridor" and endorses further consideration of the potential for commuter rail service along CN's Bedford -Halifax corridor. Further, the IMP discourages further investment in additional roadway infrastructure in favour of encouraging non-auto modes.

2. EXISTING CONDITIONS

2.1 Adjacent Roadways

2.1.1 Bedford Highway

The Bedford Highway is a major arterial roadway extending from the Windsor Street intersection 12 km west (northwest) to Highway 102. The corridor complements Highways 102,

Highway 118 and Windmill Road as primary northwest-southeast commuter routes to the downtown Halifax and Dartmouth areas. Between Windsor and Bayview, the cross section varies between 2 and 4 lanes in each direction, narrowing to two lanes in each direction just west of Bayview. Between Sherbrooke and Seton Road, the cross section is further reduced to two outbound (westbound) lanes and a single inbound lane.



The posted speed limit is 60 km/h east of Sherbrooke Street and 50 km/hr west of Sherbrooke Street. The cross section includes curb/gutter on both sides of the road, sidewalks on the south side of the roadway that terminate at Seton Road. Localized sidewalk is present on the north side of the Bedford Highway in select locations to support transit stops on the westbound lanes. The main CN Bedford-Halifax corridor runs immediately adjacent and parallel to the Bedford Highway, which constrains any potential for widening the right-of-way to the north.

2.1.2 Lacewood Drive

Lacewood Drive is a four-lane undivided urban road, providing access to a number of residential and commercial developments, though the roadway is generally access controlled eliminating individual residential driveways in most areas. Lacewood Drive intersects with Bayview Road (at Clayton Park) and Dunbrack Street, both of which have signalized intersections and continues west to Bayers Lake and east towards Joseph Howe Drive. The posted speed limit is 50 km/h and the



roadway has an urban cross-section including curbs, gutters, grassed boulevard and sidewalks on both sides of the road.

2.1.3 Seton Road

Seton Road is two-lane undivided local urban roadway that intersects the Bedford Highway at its north end. It is just over 7 meters wide along most of its length and widening to 3 lanes at its intersection with the Bedford Highway. It has curb/gutter on both sides of the road and a sidewalk along the south side located directly on the back of the curb. Seton Road provides access to Mount Saint Vincent University through 7 driveways, the Shannex Caritas facility



and former Motherhouse lands. It has a posted speed limit of 50 km/h and approximately 10 - 12% grade approaching the Bedford Highway.

2.1.4 Bayview Road

Bayview Road is a two-lane undivided collector roadway that is primarily residential in nature including many residential driveways. Bayview Road has an urban cross section including curb/gutters and sidewalks on both sides of the road. The road is signalized at Bedford Hwy and Lacewood Drive, has a posted speed limit of 50 km/h and includes 2 stop-controlled intersections between the Bedford Highway and Lacewood Drive. The road climbs steadily



at an average grade of approximately 6 % over the kilometer between Bedford Highway and Lacewood Drive. Bayview supports high commuter traffic volumes between Lacewood Drive (west of Bayview) and the Bedford Highway (east of Bayview).

2.2 Existing Intersections

2.2.1 Flamingo Drive and Bedford Highway

The Flamingo Drive intersection is a signalized (actuated, coordinated) T-intersection with a driveway connection on the north side and is located approximately 730 metres west of Seton Road. There are single through lanes on Bedford Highway in each direction with a dedicated westbound left turn lane to Flamingo. Flamingo includes a dedicated left turn lane and a shared lane with the through lane providing access to a commercial driveway across Bedford Highway and the right turn movement directly entering the single Bedford Highway inbound (eastbound) lane. The intersection has three pedestrian actuated crosswalks connecting to continuous sidewalks on each side of the Bedford Highway and the east side of Flamingo Drive. Bus stops complete with laybys are present on both sides of Bedford Highway just east of Flamingo Drive.



Figure 2-1: Flamingo Drive and Bedford Highway Intersection

2.2.2 Bedford Highway and Seton Road / Sherbrooke Drive

The intersections of Seton Road and Sherbrooke Drive at the Bedford Highway are located approximately 100 metres apart and are both unsignalized with stop control on the minor road. The Bedford Highway includes two westbound (outbound) lanes (1 through and 1 shared through/left turn) at both intersections. Bedford Highway has a single eastbound lane approaching the Seton and Sherbrooke intersections with a second eastbound lane being added east of Sherbrooke increasing the capacity of the roadway heading towards Bayview Drive. An actuated pedestrian crossing signal is present across Bedford Highway on the west side of Seton Road which services pedestrians to and from the transit stop located in a layby on the north side of Bedford Highway. A transit stop is also present in a layby on south sides of the Bedford Highway between the Seton and Sherbrooke intersections complete with sidewalks to the crosswalk.

Figure 2-2: Bedford Highway and Seton Road



2.2.3 Bayview Road and Bedford Highway

This intersection is configured as a three leg, signalized (actuated, coordinated) intersection with right-turn channelization onto and off-of Bayview Road. Bedford Highway includes four undivided lanes (2 in each direction) through the intersection and contains three pedestrian actuated crosswalks on each leg of the intersection. Sidewalks are present on all sides of the intersection (the north sidewalk only connects to the transit stop) and transit stops complete with lay-bys are located east of the intersection. This intersection experiences high traffic volumes on the westbound left turn movement from westbound Bedford Highway to southbound Bayview during the PM peak and a northbound right turn to eastbound Bedford Highway during the AM peak.



Figure 2-3: Bayview Road and Bedford Highway Intersection

2.2.4 50 Bedford Highway at Bedford Highway

This intersection was recently reconfigured and signalized (actuated, coordinated) to accommodate the new Icon Bay Development as well as consolidate access to the existing car dealerships. Bedford Highway now has two through lanes in each direction with a dedicated westbound left turn lane into the new development and dealerships. The roadway is undivided though there are painted medians in the vicinity of the intersection to allow the transition for the

dedicated left turn lane and to maintain consistent through lane movements in each direction. The signalized intersection has a crosswalk across the driveway, but not across Bedford Highway as there are no sidewalks on the north side of the road. Sidewalks are present along the south side of the Bedford Highway.



Figure 2-4: 50 Bedford Highway at Bedford Highway Intersection

2.2.5 Bayview Road/Clayton Park Drive and Lacewood Drive

This intersection is currently configured as a four-leg, signalized (pretimed) intersection. The four-lane undivided cross section on Lacewood Drive includes shared through/right and shared through/left lanes. The single lanes on lanes on Bayview Road and Clayton Park Drive are shared left/though/right movements and the intersection contains four non-actuated pedestrian crosswalks over each leg of the intersection. The intersection has basic fixed time signal operations suited to various peak and off-peak traffic scenarios.

Cayton Parket Carton Ca

Figure 2-5: Bayview Road and Lacewood Drive Intersection

2.2.6 Lacewood Drive and Dunbrack Street

This signalized (actuated, coordinated) intersection has two through lanes on each leg of the intersection all with single dedicated left turn lanes. There is right-turn channelization in all four quadrants of the intersection and the eastbound and westbound movements on Dunbrack also include dedicated right turn lanes leading to the channelization. The Dunbrack cross section includes painted bike lanes in both directions and the intersection has four pedestrian actuated crosswalks. Curb/gutter, sidewalks and grassed boulevards are present on all legs of the intersection.

Figure 2-6: Lacewood Drive and Dunbrack Street Intersection



2.3 Active Transportation

Seton Ridge's sustainable approach to development is intended to promote significant areas of greenspace, a reduced dependence on cars, walkable streets, direct connections to transit, integration with adjacent properties, and a variety of other initiatives that promote active transportation use. The internal road, trail and park network is expected to provide ample infrastructure to serve the active transportation community and provide connections to adjacent properties such as MSVU.

The development's proximity to the downtown core and key employment areas in Halifax is expected to help promote the use of active transportation modes. The 2006 Active Transportation Functional Plan and the more recent *Making Connections: 2014-19 Halifax Active Transportation Priorities Plan*, provides a variety of data supporting active transportation use. The documents suggest the following modal share in the Seton Ridge and adjacent areas.

Table 2-1: Modal Share - Journey to Work/School Dataset (1996-2001)

Area	Pedestrian Modal Share	Cyclist Modal Share
Fairview (includes Seton)	~ 8 - 10%	~1%
Halifax - Chebucto	~ 25 – 30%	~ 3 – 4%
Halifax – Citadel	~ 50 – 55%	~ 2 - 3%
Halifax - Needham	~ 30 - 35%	~ 3 - 5%

In a more general sense, information from the HRM website notes the following modals shares in the regional centre and the suburban areas of HRM (in 2011), noting that the proposed development is just 1.5 km from the boundary of the regional centre.

Mode	Regional Centre%	Suburban%
Car as Driver (%)	44.43	72.2
Car as Passenger (%)	6.50	8.56
Public Transit (%)	19.34	13.73
Walked (%)	24.74	3.79
Bicycle (%)	3.53	0.39
Other Methods (%)	1.46	1.32

Table 2-2: Modal Share – 2011 HRM Modal Share Estimates

Through our discussions with HRM and review of available information, we noted a number of issues that will help contribute positively towards active transportation use in the near future. These included:

- Further development of the Chain of Lakes Trails systems which include nearby connections along, Bedford Highway, Joseph Howe Drive, candidate bike routes on Dunbrack Street and more;
- Relatively close proximity and reasonable connectivity to the Mainland North Linear Parkway;
- Significant investment in general new construction and renewals of sidewalk throughout HRM;

- Aggressively pursuing more bike lanes and more recently successfully implementing a wide variety of bike lane projects; and,
- A continued commitment to promoting routes, connections and technologies that support active transportation use.

The figure below shows a general outline of key active transportation connections in the areas surrounding the proposed development.



Figure 2-7: Key Active Transportation Connections

2.3.1 Existing Pedestrian Volumes

Various pedestrian traffic counts have been carried out between 2009 and 2017 in the vicinity of the study and generally show relatively low pedestrian and cyclist volumes that are not expected to have any significant impact on the transportation modelling or analysis. The exception that warrants some further consideration are the pedestrian crossings on Seton Road which support student related traffic traveling to MSVU. It is also recognized that the development area itself is placing a high priority on the accommodation of active transportation users around and through the development. Additional details on pedestrian activities in these areas are addressed in the analysis sections of this report.

2.4 Transit

The existing transit routes figure shown to the right (taken from the Halifax Transit System Wide Route Map) shows the proposed development located in the middle of a relatively robust transit network. This includes 7 routes on Bedford Highway, 4 routes on Lacewood Drive, 4 routes on Dunbrack Street and 2 routes on Flamingo Drive.

Direct feedback from Halifax Transit indicates that final route plans are not complete at this time, but the Seton Ridge development is likely to include a peak express route



starting with 4-6 peak trips and growing based on demand. It is also likely that a local route will be assigned directly along Seton Road that will connect to the Lacewood Terminal and provide approximately 30-minute frequency. Further correspondence with Halifax Transit also suggested that:

- The opening of the Lacewood Terminal has increased Halifax Transit's capacity to introduce more service in the area starting in 2018/19. This is expected to include increased frequencies and number of peak trips;
- New express routes from West Bedford etc., will route through Clayton Park to avoid the Bayers Road area which is expected to increase transit trips on the road network in the next few years;
- Through the Integrated Mobility Plan, Halifax Transit is discussing higher order transit options, such as BRT and light rail transit, though no decisions have been made for this he area; and,
- The two lay-by lanes that are located immediately east of Seton Road on the Bedford Highway are not critical points in the bus network (the stops immediately to the west are critical time points for Transit) therefore Halifax Transit is open to discussion regarding the removal or relocation of these laybys.

The table below shows data extracted from the 2006 census data. While the information is dated, it provides an indication of the levels of transit ridership in different areas of HRM. Most notable are the areas around the Seton Ridge development that hover in the range of 15% transit usage.

Location	Vehicle	Transit	Walk
Upper Sackville	92%	6.3%	0.8%
Lower Sackville	82.2%	11.8%	4.2%
Bedford	86.1%	7.2%	4.9%
Dartmouth East	80.7%	12.9%	3.9%
Dartmouth North	65.3%	22.9%	8.7%
Dartmouth South	69.8%	18.2%	9.3%
Halifax Chebucto	48.1%	15.7%	30.4%
Halifax Citadel	31.5%	9.7%	54.6%
Halifax Needham	42.9%	16.7%	33.5%
Halifax County	75.8%	11.9%	10.1%

Table 2-3: Transit Mode to Work (2006 Census)

The recent *"Moving Forward Together Plan"* from Halifax Transit suggests some minor modifications to route plans in the area and the Integrated Mobility Plan show Seton Ridge as a "Potential Transit Oriented Community" located adjacent to 2 "Potential Transit Priority Corridors" (Bedford Highway and Lacewood Drive). Also note that the figure below shows a "Potential Rail Station" located between Flamingo Drive and Mount St. Vincent University.





2.5 Existing Parking

There is limited parking capacity on the existing roadways in the vicinity of the development. Parking is not permitted along the Bedford Highway, Lacewood Drive or Seton Road. Parking is not restricted on Bayview Drive, though few people park along the curb lanes due to the high volume of traffic on Bayview and the availability of individual driveways for residences. The most significant parking consideration outside of the future on-site parking required for the development are the various Mount Saint Vincent University parking lots connecting to the Bedford Highway and Seton Road.

MSVU parking is generally either permitted, metered or pay and display (P&D). Permits are reserved for faculty, staff and students and account for approximately 25% of the available lots at the University. The metered parking is available for anyone but restricted to a one, two- or four-hour durations and accounts for approximately 25% of the lot space. The pay and display parking, also available to anyone, can range from a few minutes to a full day and accounts for approximately 35% of the available lot space. An 80-vehicle parking lot located up Seton Road past the steam plant accounts for the final 15% of the available parking space. Regulations state that there is no cost or permit required to park on campus or in the additional lot on Saturdays. Other adjacent developments also have parking areas reserved for private use.

3. TRAFFIC 3.1 Analysis Assumptions

3.1.1 Study Horizons

The base year for this updated Seton Ridge transportation study was established as 2018 with a 10-year future analysis horizon in 2028. It is expected that significant buildout of the site will take place within the first 5-years of development following approval, and for analysis purposes, the study assumes full buildout of the development during this 10-year period. Extending the analysis past this time period is not expected to add any benefit due to the low average annual growth rate combined with many of the other expected network initiatives such as improved transit and recommendations from the ongoing Bedford Highway Corridor Study that are expected to positively impact the transportation network.

3.1.2 Peak Hours to be Analyzed

The proposed development is predominantly residential in nature and connects directly to 2 primary commuter corridors – Bedford Highway and Lacewood Drive. Residential and officebased developments typically experience their highest traffic volumes during weekday AM and PM peak hours of traffic and retails components of the development are not significant enough to warrant consideration of alternate peak periods. The highest traffic volumes for MSVU are also expected during the same periods therefore the analysis focuses on the AM and PM weekday peak hours.

3.1.3 Background Traffic Growth Rate

The original traffic study for this development used a 2% background annual traffic growth rate over the 10-year study horizon. This number is considered high based on recent work on other transportation studies, consultation with HRM and other local transportation professionals, and recent work carried out by HRM with respect to long term traffic modelling for the regional planning process. Recent HRM work has suggested that a 0.5% annual growth rate is more representative of actual growth and recent correspondence with HRM suggested that a 0.5% annual growth rates is appropriate for the 10-year period captured in this study.

3.1.4 Seasonal Adjustment Factors

The most recent seasonal adjustment factors were provided by HRM for the 2012 Average Annual Weekday Traffic (AAWT). These factors were applied to all counts to bring traffic count data to a common design hour volume which was then used to develop the baseline volumes for analysis purposes. A copy of these factors is included in Appendix B of this report.

3.2 Existing Traffic

Existing traffic volumes were generated for the study area based on intersection turning movement counts and road section count data provided by HRM and collected independently using Miovision automated count technologies. Traffic volume data used in the original traffic impact study for the Seton Ridge development were updated based on the most recent data available from 2017 and 2018, which included an updated 2018 count at the Seton Road intersection with the Bedford Highway.

Count data was adjusted to a 2018 base year using appropriate seasonal adjustment factors and a 0.5% average annual growth rate for background traffic. Traffic count data and the seasonal adjustment factors are provided in Appendix B of this report. Existing traffic and future traffic projections are provided in Appendix E.

The following figure shows typical two-way traffic volume variations on Bedford Highway in October 2012 between the Fairview Overpass and Flamingo Drive. The data suggests significantly higher volumes are present on Bedford Highway during the weekdays as opposed to weekends and that the highest traffic volumes are consistently experienced during the PM peak hours.





Another count at the same location between the Fairview Overpass and Flamingo from August 2017 showed the vehicular distribution statistics shown in the table below.

MOTORVEHICLES	TOTALS	%	% Class
MOTORCYCLES	508	1.3%	96.9%
CARS	34350	86.6%	
LIGHT GOODS VEHICLES	3576	9.0%	
BUSES	409	1.0%	1.0%
SINGLE-UNIT TRUCKS	552	1.4%	
ARTICULATED TRUCKS	270	0.7%	2.1%
TOTALS	39665		
AAWT	40855		
AADT	36492		
BICYCLES ON ROADWAY	88		

Table 3-1:	Vehicle	Distribution	on	Bedford	Highway
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The following figure from the same roadway count shows the volumes variations in in 15minute intervals for each direction on the Bedford Highway on Tuesday August 1, 2017. Of note in this graph is the distinct nature of the AM and PM peak hours and the duration over which the peak hours extend.



Figure 3-2: Directional Road Counts – Bedford Hwy between Fairview OP and Flamingo

3.3 Future Traffic Volumes

3.3.1 Scenario 1 - 2028 Background Traffic Only

The 2018 base year volumes as noted above were adjusted to a 2028 scenario with only background traffic growth added to the network by applying an average annual background traffic growth rate of 0.5% per year for the 10-year horizon year. This assignment of traffic has assumed that there are no significant changes to the road network over the next 10 years that would noticeably impact existing traffic patterns. This, in our opinion, represents a worst-case scenario with respect to traffic on the Bedford Highway and Lacewood Drive given a variety of transportation related improvements that are likely or could potentially occur over the time horizon of this study.

These include:

- Construction of the Burnside-Sackville Connector (Highway 107 Extension) to relieve congestion on Windmill Road and spillover effects to the Bedford Highway;
- Improved transit initiatives to increase transit modal share;
- Initiatives and new corridor to promote increases in active transportation travel modes;
- Significant residential construction in downtown Halifax and Dartmouth to help reduce suburban commutes;
- Increases in ridesharing programs and initiatives, and alternative modes of travel including autonomous vehicle technologies;
- Potential future commuter rail to help reduce passenger car travel; and,
- Future potential upgrades to Highway 102, Bayers Road and Bedford Highway corridors.

3.3.2 Scenario 2 – 2028 Background Traffic plus Development Traffic

The 2028 background + development traffic scenario includes the Scenario 1 background traffic, plus the new traffic expected from the proposed Seton Ridge development, as well as any other traffic diversions that may result from the construction of the thoroughfare through the development. The additional Seton Ridge traffic was determine using the trip generation, distribution and assignment assumptions detailed in the following sections for the highest 2,500 unit scenario.

Once Bedford Highway and Lacewood Drive are connected through the development, there is potential for some existing traffic to divert through the development. During the peak hours, it is expected that such diversions would occur primarily due to real or perceived time saving by travelling through the development between a given origin and destination. While this is difficult to estimate, the study has assumed a 10% diversion of traffic from Bayview Road to Seton Road through the development. The 10% diversion was based on the critical turn movements that could potentially view the route through the development as more convenient than using Bayview Road. Generally, the diversion volumes are quite low and are summarized in Appendix E of this report.

3.4 Trip Generation

New trips generated from the site are composed of three main elements including:

- Traffic related to the construction of the new Seton Ridge Development;
- Traffic related to the potential expansion of the Shannex Caritas complex; and,
- Reductions in trip generation resulting from approved modal share trip reduction factors.

Traffic related to Mount Saint Vincent University is expected to remain relatively consistent therefore has not been considered further in this study. Initial trip generation numbers were

produced based on information contained in the Institute of Transportation Engineers Trip Generation Guide without any reduction factors applied. Trip reduction factors related to transit and active transportation modal share were then applied as discussed in greater detail in the following sections.

	AN		AM	AM PEAK		Peak	
Land Use	Trip Code	# Units	Units	In	Out	In	Out
Single Family Detached Housing	210	179	units	34	101	112	65
Residential Condo/ Townhouse	230	6	units	1	4	4	2
Apartments (High Rise)	222	1712	units	129	385	365	234
Apartments (Mid Rise)	223	603	units	56	125	136	99
SubTotal		1803		220	615	617	400
Recreational Community Centre	495	6.5	/1,000 sq.ft	9	4	9	9
Retail Area	820	89.4	/1,000 sq.ft	53	33	159	173
General Office	710	46	/1,000 sq.ft	63	9	12	57
SubTotal				125	46	180	239
Care Facility (Shannex)	253	500	Units	18	12	47	38
SubTotal				18	12	47	38
			SubTotal Trips	363	673	844	677
	Internal Capture (NCHRP)*			-19	-19	-83	-83
	Pass-by Trips (ITE)**			0	0	-44	-44
	TOTAL NEW TRIPS			344	654	717	550

Table 3-2: Seton Ridge Preliminary Trips Generation Estimates – 2,500 Unit Scenario

* Internal Capture Rates are based on NCHRP Methodologies contained in Report 684 - Enhancing Internal Trip Capture Estimation for Mixed-Use Developments.

** Pass-by Trip estimations are based on standard ITE methodologies as defined in ITE's latest edition of the Trip Generation Handbook.

3.5 Trip Reduction Factors

Given the location and nature of the Seton Ridge, the total trips generated by the ITE trip generation guide were further reviewed to ensure that the estimates are reasonable. Trip generation estimates contained in the ITE guides were developed during an era when most new development was single use, stand alone, highway oriented, and suburban. As such, they do not typically do a good job of representing well designed, mixed use developments, particularly when they are highly oriented toward transit and/or active transportation use. There were a variety of reduction factors to consider and several discussions have been held with HRM staff to help refined the trip reduction factors to appropriate values for this study.

3.5.1 Active Transportation Reductions

The development is in an area that typically sees 8 - 10% pedestrian modal share and is very close adjacent areas that see values as high as 50% such as in the downtown core areas. It is not reasonable to assume people from Seton Ridge will walk downtown, though it does suggest

a propensity for people to walk. Similarly, cycling traffic in the Seton Ridge area is around 1% with values in adjacent areas being as high as 5%. Going forward, the Integrated mobility Plan has indicated a goal of doubling pedestrian and cycling modal share by 2026. Based on various discussions and correspondence with HRM staff, an overall active transportation trip reduction value of 10% was agreed to and applied to this study.

3.5.2 Transit Related Reductions

HRM's Integrated Mobility Plan identifies both Lacewood Drive and Bedford Highway adjacent to Seton Ridge as a *"Potential Transit Priority Corridor"* and Seton Ridge itself as a *"Potential Transit Oriented Community"*. This development approach has certainly been reflected in the marketing and design work completed to date for the development. Discussions with Halifax Transit have indicated that a transit route directly through the development is likely and overall improved service in the area is expected as a result of implementing initiatives in *the Moving Forward Together* plan. Based on various discussions and correspondence with HRM staff, an overall transit trip reduction value of 15% was agreed to and applied to this study. As discussed with HRM, the reduction was only applied in the peak direction of travel based on the specific land use characteristics.

3.5.3 Other Considerations

There are a variety of other factors that are likely to help reduce the traffic impact from this site, through it has been discussed and agreed with HRM that no additional trip reduction factors would be applied to the ITE trip generation rates. For discussion purposes, the following items are likely to have an overall impact on the Seton Ridge development.

- Additional On-Site Synergies the ITE Trip Generation Guide accounts for some on-site synergies naturally on a site where complementary land uses are present as indicated in the initial trip generation estimates. That said, it is likely that there will be a number of additional synergies on-site, particularly with the close proximity of MSVU and the adjacent retirement communities.
- Nature of the Development Seton Ridge is being developed and promoted as a modern LEED based sustainable development that is highly transit and active transportation friendly. This suggests an increased likelihood that people moving into the area are more likely to seek transit and active transportation opportunities or ride sharing opportunities rather than being oriented to making single passenger car trips.
- Technology Impacts no reduction has been applied for the new technologies entering the world of transportation such as ride sharing companies/technologies (Uber/Lyft etc.) or autonomous driving vehicles. It is not yet clear on what specific impacts these technologies will have, though it is certainly prudent to monitor the impacts of such technologies and services.

 Alternative Transportation Modes – There is continued interest in alternative travel modes such commuter rail and higher order transit services. Should such alternatives be adopted, they are expected to have a significant positive impact on travel in these critical corridors.

3.5.4 Trip Reduction Summary

Based on the discussions above, an additional trip reduction of 25% was applied to the ITE trip generation rates to represent new traffic generated by the development. The table below summarizes the final trip generation values used in the analysis. The specific calculations used to determine the 10% and 15% reduction factors is provided in spreadsheet form in Appendix D of this report.

	AM PEAK		PM I	Peak
	In Out		In	Out
ITE New Trips	344	654	717	550
10% AT Reduction	-34	-65	-71	-55
15% Transit Reduction	-19	-95	-99	-22
TOTAL NEW TRIPS	291	494	547	473

Table 3-3: Final Trip Generation Estimates – 2,500 Unit Scenario

3.6 Trip Distribution and Assignment

Trip distribution and assignment was estimated based on the relative distributions of traffic presently on the road network. The distribution also considered the general location of input land uses, which shows that the vast majority of commercial, business and institutional land uses are situated to the east of the site towards the downtown core of Halifax and the majority of residential origins and destinations are situated to the west.

In the vicinity of the proposed development, the most recent counts during the AM peak show approximately 65% of traffic traveling inbound on the Bedford Highway and 35% travelling outbound. PM peak trip distribution along Bedford Highway shows 36% traveling inbound and 64% traveling outbound. For the purposes of this study, peak direction traffic was assumed to account for 65% of trips and off-peak traffic to account for 35% of trips.

On Lacewood Drive, AM peak distribution showed approximately 41% in the outbound direction and 59% in the inbound direction. PM peak trip distribution shows 61% going outbound and 39% going inbound. For the purposes of this study, peak direction traffic was assumed to account for 60% of trips and off-peak traffic to account for 40% of trips.

Results on both corridors suggest that the majority of commuters are destined to major employment nodes (Downtown Halifax, Burnside, etc.) during the AM peak and travel outbound from these areas during the PM peak hours. That said, volumes in the off-peak direction are still significant and are attributed to destinations such as the Bayers Lake Business Park or access to alternate commuter routes such as Highway 102. At upstream and downstream intersections, trips related to the development were distributed in a similar manner to the distribution of existing trips the intersection. The only exception to this was the Lacewood / Bayview intersection where using the current intersection distribution would result in illogical route choices.

Figure 3-3 below shows a summary of the general trip distribution assumptions for the proposed development. The more detailed assignment of trips based on these distribution assumptions is provided in Appendix D of this report.





4. TRANSPORTATION ANALYSIS

The transportation analysis was completed for the existing 2018, future 2028 time horizon with background traffic only, and for the 2028 horizon with the proposed 2,500 unit development scenario in place. The road network was modeled using the Synchro / SimTraffic traffic analysis suite of simulation tools to determine the characteristics of the road network before and after the development.

Key performance criteria considered in this report include volume to capacity ratios (V/C ratios, movement delay (seconds per vehicle), queues (measured in meters) and other associated measures that allows the detailed evaluation of intersection and road section performance. Where appropriate, the analysis also included evaluating the impacts of coordination between adjacent traffic signals. This specifically included the Bedford Highway corridor between Seton Road and 50 Bedford Highway, as well as Lacewood Drive between the Bayview intersection and the new Seton Ridge access to Lacewood Drive.

4.1 Development Scenarios for Analysis

Intersection capacity analysis was conducted at the intersections of:

- Bedford Highway and Bayview Road;
- Bedford Highway and Sherbrooke Drive (limited due to low volumes on Sherbrooke);
- Bedford Highway and Seton Road;
- Bedford Highway and MSVU Driveway;
- Bedford Highway and Flamingo Drive;
- Bedford Highway and 50 Bedford Highway;
- Lacewood Drive and Bayview Road;
- Lacewood Drive and the new access to Seton Ridge; and,
- Lacewood Drive and Dunbrack Street.

The analysis was completed for AM and PM peak conditions for the following scenarios:

- Background traffic only (2018);
- Projected 2028 horizon year volumes background traffic only; and,
- Projected 2028 horizon year volumes with full build-out of 2,500 units and traffic diversion resulting from the new route through the development.

The analysis for each intersection is presented individually for the AM and PM peak hour using modelled graphics of the intersection to allow clear representation of the progress of performance through each scenario. Results are shown for three main categories – volume, delay and volume to capacity (V/C) ratio. Detailed SYNCHRO and SimTraffic reports for each scenario are included in Appendix F of this report for reference.

4.2 Flamingo Dr. / Bedford Hwy

4.2.1 AM Peak



The existing intersection includes a single through lane in each direction on Bedford Highway, a dedicated westbound left turn lane, and separate right and left turn lanes on Flamingo Drive. These lanes with traffic signals allow this intersection to operate at a good level of service throughout all future AM peak scenarios. The existing signals are actuated-coordinated signals and currently operate with no dedicated westbound left turn phase. This provides an adequate

level of service and acceptable queues during the AM peak hours due to relatively low left turn volumes for this movement. 2028 queues with development is shown in figure to the right. Consideration may be given in the future to adding a dedicated left turn movement should conditions warrant.

Intersection: 1: Flamingo & Bedford Hwy

Movement	EB	WB	WB	NB	NB
Directions Served	TR	L	Т	L	R
Maximum Queue (m)	73.6	21.9	57.8	64.0	45.0
Average Queue (m)	46.7	10.5	29.2	13.3	27.8
95th Queue (m)	72.7	21.3	57.1	49.0	49.7
Link Distance (m)	225.1	223.6	223.6	169.5	

4.2.2 PM Peak



Heavier outbound PM peak volumes through this intersection result in higher capacity utilization though a significant amount of green time can be attributed to this movement due to relatively low volumes on Flamingo Drive and in the eastbound direction on the Bedford Highway. The existing traffic signal timings were maintained for all scenarios (2018 existing conditions, 2028 background traffic, and 2028 development traffic) without any significant deterioration of service. The figure to the right shows the 2028 queuing statistics from SimTraffic for the full development scenario. Results show 95% queues lengths close to 100 meters in the peak

outbound direction though this is similar to background only results and is considered reasonable for peak hour traffic. Future consideration of a dedicated westbound left turn phases could be considered though is not a requirement for the proposed development.

Intersection: 1: Flamingo & Bedford Hwy					
Movement	EB	WB	WB	NB	NB
Directions Served	TR	L	Т	L	R
Maximum Queue (m)	74.8	39.8	107.0	50.2	32.9
Average Queue (m)	36.9	20.8	55.9	21.2	18.3
95th Queue (m)	69.4	35.2	98.6	41.6	31.3
Link Distance (m)	225.1	223.6	223.6	169.5	

4.3 Bedford Highway and MSVU Driveway

4.3.1 AM Peak



Exiting volumes from the MSVU driveway are relatively low during the AM peak and therefore experience limited delay and queuing, though heavy two-way volumes on the Bedford Highway can make the left turn movement challenging. This is similar to many driveways along

the Bedford Highway and the proposed development has very little impact on operations at this intersection.

Intersection: 2: MSVU & Bedford Hwy					
Movement	EB	WB	WB	NB	NB
Directions Served	TR	LT	Т	L	R
Maximum Queue (m)	3.4	73.1	41.3	4.4	15.7
Average Queue (m)	1.1	27.1	3.2	0.9	6.1
95th Queue (m)	5.2	58.0	20.6	5.2	15.0
Link Distance (m)	225.3	239.0	239.0	50.3	50.3

4.3.2 PM Peak



Existing volumes during the PM peak hour are higher and therefore the intersection experiences higher level of delays and queuing on the MSVU driveway. The presences of traffic signals at the Seton Road intersection benefits this intersection as it creates additional gaps in outbound traffic which requires an exiting left turn movement to only navigate gaps across the

single inbound through lane. While the V/C ratio remains low, peak hour delays can still be significant. Under these circumstances, some drivers may elect to navigate to Seton Road and exit the site using the new traffic signals at the Seton / Bedford Highway intersection.

Intersection: 2: MSVU & Bedford Hwy					
	50		14/5	ND	
Movement	EB	WB	WB	NB	NB
Directions Served	TR	LT	Т	Ĺ	R
Maximum Queue (m)	28.6	22.8	17.2	29.7	30.3
Average Queue (m)	7.4	7.3	3.5	12.0	15.7
95th Queue (m)	23.6	18.6	13.8	28.4	26.5
Link Distance (m)	225.3	238.8	238.8	50.3	50.3
4.4 Seton Rd / Bedford Hwy Intersection

4.4.1 AM Peak



This intersection is currently unsignalized with stop control on Seton Road approaching the Bedford Highway. Existing traffic volumes on Seton Road are relatively low and primarily associated with traffic from MSVU meaning higher inbound volumes in the AM peak and higher outbound volumes during the PM peak. Background only traffic growth progressively increases delays for turning movements at the intersection - particularly when making a left turn onto Seton Road from the Bedford Highway and from Seton to the Bedford Highway.

With the development in place, delays become excessive and both the AM and PM peak scenario drives a number of required infrastructure upgrades to maintain adequate operations at the intersection. This includes traffic signals as shown in the 2028 Development scenario as

well as the addition of an eastbound lane that should be initiated upstream (west) of the Seton Road intersection and extend through to Sherbrooke Street. This additional lane is a logical extension of the 4-lane cross section that currently exists east of Sherbrooke Drive. This configuration is shown graphically in Figures above and is discussed in greater detail in the Conclusions section of this report.

Queuing during the AM peak hour is minimal when the development is not present as volumes on Seton Road are low and free flow conditions exist on the Bedford Highway. The

queuing statistics for the Seton Road intersection under the 2500-unit development scenario is shown to the right. These statistics include the addition of traffic signals and the extension of the 4lane cross section upstream of Seton Road.

Intersection: 3: Seton & Bedford Hwy											
	50	ED	14/0		ND	ND					
Movement	EB	EB	WB	WB	NB	NB					
Directions Served	Т	TR	L	Т	L	R					
Maximum Queue (m)	126.4	87.5	65.7	52.7	71.7	37.5					
Average Queue (m)	70.8	63.9	40.0	18.6	29.0	26.3					
95th Queue (m)	110.3	92.9	60.8	40.1	65.1	42.2					
Link Distance (m)	239.0		74.8	74.8	133.4						



4.4.2 PM Peak



The PM peak volumes show increases to all movement at this intersection and again require the installation of traffic signals and eastbound lane capacity upgrades to function adequately. The PM peak has some advantages for inbound traffic as right turning volumes exiting Seton Road enter the lower volume eastbound movement on the Bedford Highway.

The eastbound right turn movement to Seton Road is supported by the new shared through/right lane in addition to the existing single through lane. The left turn from Bedford Highway to Seton Road operates primarily as a dedicated left turn lane during the PM peak hours due to the volume of traffic making this maneuver. A protected left turn signal phase is recommended for this movement to help eliminate turning vehicles from the shared lane.

Maintaining this median lane as a shared/through lane (as opposed to a full time dedicated left turn) will provide some benefits to operations during the off-peak hours.

The existing signals along the Bedford Highway adjacent to the study area are fully actuated and coordinate and it is recommended that Seton Road signals be incorporated into this coordinated signal corridor. Coordination with traffic signals at Bayview (well-spaced at approximately 600 meters to the south) and the Icon Bay intersection (300 meters further) using common cycle lengths is recommended to help promote progression along this corridor. It is recommended that the signal installation be designed as fully-actuated signals including vehicle detection for Seton Road queues and for passage and presence on the outbound Bedford Highway Lanes. More advanced detection and signal phasing techniques could be considered for the westbound left turn lane in order to vary the length of the protected left turn phase to better manage queuing on the Bedford Highway.

Similar to the AM peak, queues are low relatively low with no development in place. Under the full development scenario, PM peak queues on Seton are limited to about 80 meters (under 10 vehicles) and queues on Bedford Highway can be

Intersection: 3: Seton & E	Bedford Hwy
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Movement	EB	EB	WB	WB	NB	NB
Directions Served	Т	TR	LT	Т	L	R
Maximum Queue (m)	34.6	40.6	78.1	78.4	79.5	37.5
Average Queue (m)	19.9	24.8	48.7	39.6	51.4	32.0
95th Queue (m)	35.2	39.6	75.6	74.7	84.4	47.2
Link Distance (m)	238.8		75.0	75.0	134.2	

maintained at about the same level depending on the signal timing split assigned to each critical signal phase. The inbound lanes during the PM peak are only about 40% utilized under the signal timing scenario representing in the existing figures suggesting that additional protected green time could be attributed to the westbound left turn movement to further reduce queues. Such considerations should be addressed in greater detail during the detailed design of the intersection and associated traffic signals.



4.5 Bayview / Bedford Hwy

4.5.1 AM Peak



This fully actuated and coordinated signalized intersection operates at acceptable levels of service during the AM peak hour, though high volumes on all legs will continue to keep the intersection utilization quite high under all development and non-development scenarios. The northbound right turn from Bayview to Bedford Highway is approaching or at capacity. Similarly, the westbound left turn is shown near capacity due the demand for green time related to the inbound through movement.

The two inbound (eastbound) lanes accommodate the heavier inbound traffic volumes during the AM peak hour and combines with the other major movement of right turn traffic from Bayview Road merging onto the Bedford Highway. This allows the majority of traffic signal green time to be assigned to the inbound Bedford Highway through movements keeping capacity utilization at reasonable levels. Even in the AM peak, there is enough outbound (westbound) left

turn volumes from Bedford Highway to Bayview that the shared through-left lane often becomes a de facto left turn lane limiting through movements to a single lane.

Delay at the intersection are moderate with the highest delays experienced by the westbound left turn movements to Bayview as they utilize a short protected left turn movement and navigate the heavy inbound traffic volumes during the permitted left turn phase.

Queues during the AM peak period for the 2500-unit scenario are shown in the figure to the right. While queues can be long, significant green time is assigned to both the inbound and outbound movements resulting in limited stopped delay on the Bedford Highway.

Intersection: 5: Bayview & Bedford Hwy											
Movement	EB	EB	WB	WB	NB	NB					
Directions Served	Т	TR	L	Т	L	R					
Maximum Queue (m)	223.8	227.9	138.3	47.0	141.8	50.0					
Average Queue (m)	165.3	168.7	76.6	25.7	75.6	45.5					
95th Queue (m)	269.1	272.8	126.3	42.5	145.7	66.3					

4.5.2 PM Peak



The PM peak hour at this intersection represents the most challenging situation in the study area. During the PM peak hour, the outbound movements on Bedford Highway currently operate near or at capacity including the westbound through movement and the westbound left turn to Bayview. Under current signal timing, the high volume of left turns means the shared through left lane acts as a dedicated left turn lane limiting through movements to a single westbound lane.

In the 2028 scenarios with the development in place, three dynamics impact this intersection.

- 1) The addition of traffic to and from the proposed Seton Ridge development, which accounts for about 7% of the total traffic through this intersection under the full development scenario;
- 2) Traffic that diverts from Bayview Road to Seton Road once the connection is opened. This primarily impacts westbound left turning traffic that experiences significant delays that may elect to travel through the Bayview intersection and make a left turn at the less congested Seton Road intersection; and,
- 3) Traffic that is likely to select alternate routes to avoid congestion at this intersection or on the Bedford Highway corridor in general. The figures on the previous page show that background traffic alone pushes the westbound movement to a volume to capacity ratio of over 1.0. Under these conditions, it is likely that some drivers will elect to use alternate route and therefore reduce volumes on the corridor closer to capacity. Such reductions have not been included in this study.

To provide additional capacity under the current intersection configuration, the westbound protected left turn phase needs to be extended such that left turn traffic clears the intersection and some through traffic can also utilize the shared lane. Such a configuration would require a protect left turn phase in the range of 40 - 45 seconds. This increases delay in the inbound direction, though the existing inbound traffic distributed over the existing two lanes means these movements can be accommodated with limited increases in delay (approximately 9 seconds as shown in the figures above).

Given that the Seton Ridge development contributes a relatively small percentage of traffic to this intersection, there are no specific infrastructure improvements required at this intersection to support the Seton Ridge development. Operations of the Bayview intersection need to part of a larger discussion of the overall Bedford Highway corridor. A more detailed discussion on current and future operations at this intersection is provided in the Discussion and Conclusion Sections of this report.

Queues during the PM peak can be significant and consistent with any intersection operating at or near capacity, there are opportunities for the queues to build quickly if input volumes exceed capacity. This regularly occurs today and is expected to continue to some extent in the future regardless of this development.

Coordination of the traffic signals between Bayview and 50 Bedford Highway is considered an important element of operations along this corridor and can have a significant impact on the driver experience through these intersections. Peak direction coordination in the PM peak hour should promote free flow conditions through the Bayview intersection by managing queues at

the signals at 50 Bedford Highway. Signal coordination parameters should be addressed in greater detail during design stages of this project.

Intersection:	5: Bayview	& Bedford Hwy	

Movement	EB	EB	WB	WB	NB	NB
Directions Served	Т	TR	LT	Т	L	R
Maximum Queue (m)	104.3	107.8	290.7	291.3	35.3	32.2
Average Queue (m)	69.3	74.1	277.9	275.9	12.6	4.8
95th Queue (m)	102.9	105.7	290.4	293.8	29.5	26.7
Link Distance (m)	310.5	310.5	278.9	278.9	170.7	

4.6 Driveway at 50 Bedford Highway

4.6.1 AM Peak



Recently installed traffic signals at 50 Bedford Highway are located approximately 300 meters from the Bayview Road signals. The intersection includes two full through lanes in each direction and a dedicated left turn lane in the outbound direction. This arrangement provides this intersection with significantly more capacity than Bayview Drive and any of the other intersections along the Bedford Highway considered in this study.

The figures above show that the high inbound volumes on the Bedford Highway are nearing capacity (v/c = 0.97) based on existing signal timings and background growth is likely to push the eastbound movement over capacity. As there is significant excess capacity on the outbound and

northbound driveway movements, minor traffic signal modifications will maintain operations through this intersection at acceptable measures of performance. Similar the previous section, coordination between these traffic signals and Bayview is important.

Intersection: 6: 50 B.Hwy & Bedford Hwy											
2020 8	1000										
Movement	EB	EB	WB	WB	WB	NB	NB				
Directions Served	Т	TR	L	Т	Т	L	R				
Maximum Queue (m)	144.4	221.3	37.6	36.3	51.2	22.1	34.8				
Average Queue (m)	109.7	118.3	17.0	16.6	27.0	10.4	14.6				
95th Queue (m)	146.3	184.9	31.7	32.0	46.7	21.4	29.3				
Link Distance (m)	278.9	278.9		243.6	243.6	89.4	89.4				

4.6.2 PM Peak



During the PM peak hour, the highest volumes are in the outbound direction. With the westbound left turn available, the outbound through movement operates relatively efficiently with minimal delay through all scenarios. The inbound movement also operate with little delay and under capacity due to the long green times afforded the east and westbound movements. Minimal green time is required for the northbound movement, though left turn delays can be longer due to the green time assignments to the Bedford Highway.

Generally, any queues that accumulate at this intersection in the PM peak are related to operations at the Bayview interection when Intersection: 6: 50 B.Hwy & Bedford Hwy

it operates beyond its avaiable capacity.

Movement	EB	EB	WB	WB	WB	NB	NB
Directions Served	Т	TR	L	Т	Т	L	R
Maximum Queue (m)	147.3	147.9	57.3	259.3	256.1	31.0	28.8
Average Queue (m)	73.6	75.8	36.4	250.7	250.0	14.6	13.8
95th Queue (m)	127.0	130.6	74.9	257.1	255.2	29.4	23.6
Link Distance (m)	278.9	278.9		243.6	243.6	89.4	89.4

4.7 Dunbrack / Lacewood

4.7.1 AM Peak



The Dunbrack / Lacewood intersection is a large, 4-leg, multi lane intersection with auxiliary lanes for turn movements, right turn channelization and traffic signals. While it carries significant traffic volumes, it is robust enough to operate through all scenarios with limited deterioration of service. Development related traffic at this intersection accounts for less than 5% of the overall

traffic through the intersection and there is significant excess capacity to accommodate this new traffic during the AM peak period.

Intersection: 7: Lacewood & Dunbrack												
Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	Ĺ	Т	Т	L	Т	Т	L	Т	TR	L	T	TR
Maximum Queue (m)	79.6	116.4	33.0	27.6	44.4	40.4	41.1	68.2	50.3	27.4	41.2	48.3
Average Queue (m)	65.5	28.2	17.4	11.0	21.3	9.5	19.3	45.0	37.3	10.7	23.4	28.6
95th Queue (m)	87.9	79.3	32.5	23.1	34.9	24.4	32.2	66.8	57.7	22.7	39.9	48.1
Link Distance (m)		254.3	254.3		356.6	356.6		171.4	171.4		192.8	192.8

4.7.2 PM Peak



Similar to the AM peak, new development traffic contributes only a small portion of the overall traffic at this intersection and there is excess capacity to accommodate new traffic. The highest volumes on southbound Lacewood Drive during the PM peak requires minor modifications to signal timings to maintain a v/c less than 1.0 though there is some excess green time on other movements at the intersection provides some flexibility in signal timing.

Intersection: 7: La	Intersection: 7: Lacewood & Dunbrack											
Movement	EB	EB	EB	WB	WB	WB	NB	NB	NB	SB	SB	SB
Directions Served	L	Т	Т	L	Т	Т	L	Т	TR	L	Т	TR
Maximum Queue (m)	43.6	40.9	29.1	57.5	60.7	51.1	71.7	73.4	62.4	69.8	114.3	122.0
Average Queue (m)	23.7	22.4	11.7	32.4	35.7	24.2	41.7	39.5	25.6	25.6	78.4	87.3
95th Queue (m)	40.5	38.5	24.3	53.3	58.9	48.7	69.4	67.8	53.3	64.6	115.9	124.7
Link Distance (m)		254.3	254.3		356.6	356.6		171.4	171.4		192.8	<mark>192.8</mark>

42

4.8 Seton Ridge Access / Lacewood Dr.

4.8.1 AM Peak



**Note: Some volumes reduced during the 2028 development scenario due to pass-by trips and diverted trips.

The existing T-intersection will become a 4-leg intersection once the developments second access point is built. Modelling results suggest the intersection can operate for a period of time as a stop-controlled intersection but will require traffic signals part-way through the

development of the overall site. The specific timing will depend on a wide variety of factors including recommendations from the ongoing Bedford Highway Functional Plan, location of development, traffic growth, transit uptake and more.

Movement	EB	EB	WB	NB	NB	SB	SB
Directions Served	LT	R	LTR	LT	TR	LT	TR
Maximum Queue (m)	34.6	17.9	8.3	57.8	60.5	24.6	31.6
Average Queue (m)	17.3	9.4	2.9	34.4	36.2	10.7	13.5
95th Queue (m)	32.1	18.8	9.3	54.5	56.6	22.1	24.8
Link Distance (m)			84.8	174.4	174.4	201.0	201.0

4.8.2 PM Peak



******Note: Some volumes reduced during the 2028 development scenario due to pass-by trips and diverted trips.

There are higher overall volumes on Lacewood Drive during the PM peak hour, meaning operations to and from the new development driveway deteriorate faster than during the AM peak. Traffic signals are again recommended for this intersection partway through development to facilitate efficient operations. There are no specific upgrades required on Lacewood Drive or Cedarbrea Lane to accommodate the new driveway, through care should be taken during the detailed design of the roadway and intersection to ensure appropriate horizontal and vertical

alignments of the intersection approaches given the grades and adjacent properties in the area. Finally, it is recommended that the exit lanes from the development include separate left and right turn lanes.

Intersection: 8: La	cewood a	& Acce	ess				
Movement	EB	EB	WB	NB	NB	SB	SE
Directions Served	LT	R	LTR	LT	TR	LT	TR
Maximum Queue (m)	33.2	34.6	8.3	51.0	41.7	34.4	36.9
Average Queue (m)	16.3	18.4	1.4	26.7	16.4	17.8	20.6
95th Queue (m)	30.8	31.0	6.4	49.6	37.4	33.0	37.8
Link Distance (m)			84.8	174.4	174.4	201.0	201.0

4.9 Bayview / Lacewood

4.9.1 AM Peak



******Note: Some volumes reduced during the 2028 development scenario due to pass-by trips and diverted trips.

Traffic models show that this intersection operates at an acceptable level of service during the AM peak hour with reasonable volume to capacity ratios and delays. Traffic signals run on basic 2 phase operations with no turn phases used or required. All models during the AM and PM

peak hours maintain the same fixed time signal timing that are present today and shows that the intersection can operated throughout all scenarios with little deterioration of service.

Intersection: 9: Clayton Park/Bayview & Lacewood

~						
Movement	EB	EB	WB	WB	NB	SB
Directions Served	LT	TR	LT	TR	LTR	LTR
Maximum Queue (m)	59.7	63.8	47.8	39.9	33.4	36.6
Average Queue (m)	38.0	37.9	22.6	11.3	18.8	17.2
95th Queue (m)	59.0	58.5	45.0	32.0	35.2	29.1
Link Distance (m)	201.0	201.0	203.7	203.7	154.1	147.5

4.9.2 PM Peak



**Note: Some volumes reduced during the 2028 development scenario due to pass-by trips and diverted trips.

Similar to AM peak, traffic models suggest that the intersection operates at an acceptable level of service during the PM peak under all scenarios. The most notable challenge during the PM peak is accommodating the heavy volume of outbound traffic on Bayview, of which the majority of vehicle make a right turn onto Lacewood Drive. This movement operates near 80%

capacity utilization in the background only scenario and benefits from the trips diverted through the Seton Ridge development.

Intersection: 9: Cla	ayton Pa	rk/Bay	view 8	Lace	wood	
Movement	EB	EB	WB	WB	NB	SE
Directions Served	LT	TR	LT	TR	LTR	LTF
Maximum Queue (m)	58.2	44.3	52.0	43.7	24.5	92.2
Average Queue (m)	30.5	22.9	36.4	25.9	10.1	45.7
95th Queue (m)	53.9	40.2	51.4	44.0	22.2	81.4
Link Distance (m)	201.0	201.0	203.7	203.7	154.1	147.5

5. DISCUSSIONS/CONCLUSIONS

The Seton Ridge Development is a significant infill development that is in close proximity to the downtown core areas of Halifax. It is intended as a LEED based, transit oriented and sustainable development that is well positioned to support many of the transportation related initiatives put forward by HRM through documents such as the Regional Plan, Integrated Mobility Plan (IMP), Moving Forward Together and Active Transportation Plans. The development connects to two major transportation corridors allowing traffic to be distributed to both Lacewood Drive and the Bedford Highway. These two connections provide access to a wide variety of route options to various destinations throughout HRM.

While a significant amount of traffic to and from the site is still expected to take place using passenger vehicles, there are wide variety of initiatives throughout the region that support and promote shifts to alternate travel modes. The proposed Seton Ridge development is positioned to capitalize on these initiatives by providing numerous convenient options for travel by bus and active transportation modes. The IMP identifies both Bedford Highway and Lacewood Drive as *Potential Transit Priority Corridors* and Halifax Transit has indicated it is highly likely that Seton Road will be an important link in their transit network. This suggests that the quality of the design to date and the location of the development are conducive to such considerations. It also indicates a willingness of HRM to actively support new strategic developments that fit the direction of the overall Regional Plan.

The development's proximity to the downtown core, the Burnside Industrial Park and the Bayers Lake Business Park make these common destinations very accessible by all modes of travel. The development's initiatives to promote sustainable transportation and development practices in combination with HRMs transit and AT initiatives create an environment that has the potential to significantly reduce the number of individual passenger vehicles on the roadway. Should commuter rail become a reality in the near future, the IMP identifies a *Potential Rail Terminal/Station* immediately adjacent to the site to support future commuter rail service between Bedford and Halifax.

It is recognized that the Bedford Highway can be a congested traffic corridor, as can many primary commuter corridors throughout HRM. Fundamentally, the purpose of this study is not to determine whether we can pump more traffic through adjacent intersections. Rather, it is an evaluation of whether the proposed development is a positive and strategic addition to the region's urban development. This study suggests that the Seton Ridge development is extremely well positioned to be a positive addition for the following reasons:

 It is located near the downtown core areas and has numerous commuter route options to support commuter movements;

- The area is already transit oriented and current initiatives suggest in will become further transit orient in the near future;
- It is an infill development in an area that is already predominantly residential and has direct access to Bedford (multiple routes), peninsular Halifax (multiple routes), and Dartmouth (via the MacKay Bridge);
- It is at the northwestern extent of the Bedford Highway where strategic capacity increases can still be implemented in a relatively cost-effective manner. Areas further northwest of MSVU become substantially more difficult and expensive to upgrade.

The traffic generated by the development contributes a relatively small number of trips to the overall traffic on the road network given the distribution of trips over several different access points and directions. In general, the impacts related to the development traffic have far less impact than the capacity challenges faced on portions of the network today and under the natural expected background traffic growth. The analysis of the nine impacted intersections surrounding the development show that development traffic can be accommodated during both the critical AM and PM peak traffic periods.

The only capacity challenge noted through this study is the outbound traffic movements during the PM peak period at the Bedford Highway and Bayview Road intersection. The analysis shows that the intersection is currently operating at or near capacity and in theory will start to exceed capacity through the simple addition of background traffic growth. In reality, drivers start to select alternate routes for entering and exiting the city as congestion builds in the corridor. It is expected that the addition of traffic related to the development will have no noticeable impact on corridor operation as it will likely simply displace some traffic to alternate routes. It is also quite possible that traffic destined to and from the development will elect to use the less congested Lacewood Drive intersections as opposed to making route choices that end up on the Bedford Highway.

5.1 The Bedford Highway Corridor

Bedford Highway has long been identified as a challenge for commuter traffic given its constrained cross section and requirements to carry significant traffic loads. Challenges associated with expanding the cross section and adding capacity increases as you move further away from peninsular Halifax. As a result, the proposed development is well positioned at a location on the Bedford Highway corridor that allows it to take advantage of some relatively minor upgrading opportunities that will improve the capacity and operations in the vicinity of the development.

The most significant of these is the ability to expand the cross section from three lanes to four lanes for approximately 100 meters between Sherbrooke Street Seton Road intersection. This extends the four-lane capacity of the roadway to Seton Road and it is recommended to carry the 4-lane cross section approximately 80 to 100 meters upstream of the Seton Road

intersection. Combined with new traffic signals at this location, this intersection becomes an efficient entrance to the Seton Ridge development, MSVU and the Shannex care facilities.

The Seton Road intersection is protected from excessive traffic loading as the Bayview intersection effectively reduces peak westbound volumes inputs to a single lane due to the high volume of left turns at Bayview. To the west, the single available lane for eastbound traffic limits vehicles coming from that directly. It is expected then that the Seton Road intersection will always operate at better levels of service than the Bayview intersection given the similar infrastructure at both intersections and lower traffic volumes at Seton Road.

Widening the Bedford Highway to 4-lanes on either side of Seton Road must respect the retaining wall on the south side of the roadway and the restrictions created by the rail right-ofway to the north. It will require the relocation or removal of the two transit lay-by lanes currently in place on the Bedford Highway just east of Seton Road. Halifax Transit has indicated that they do not require these laybys and are open to discussions regarding their removal or relocation.

The required addition of traffic signal at the Seton Road intersection allows the intersection to operate at acceptable measure of performance for the foreseeable future and benefits pedestrian traffic crossing the Bedford Highway and Seton Road from the nearby transit stops.

To evaluate the feasibility of expanding the cross section at the Seton Road intersection, a proof-of-concept level design was carried out to confirm that the required infrastructure can be accommodated within the right-of-way. Figure 5-1 shows the 4-lane cross section being initiated to the west of Seton Road and carrying through to connect to the 4-lane cross section east of Sherbrooke. As can be seen, this effectively "straightens" Bedford Highway by removing changes in horizontal alignment required to accommodate the bus layby lanes.



Figure 5-1: Four Lane Cross Section – Bedford Highway at Seton Road



As noted previously, the traffic at this intersection is limited by what can be accommodated through the Bayview Road intersection. Assuming no additional capacity is required, there is little need to expand the cross section beyond the 4-lanes noted above.

With respect to the remainder of the corridor, the following points and recommendation are relevant:

- No improvements are required at the Flamingo Road intersection to accommodate development traffic. The intersection should be monitored to determine the possible benefit of adding a short protected westbound left turn phase.
- No improvements are required at the MSVU intersection. As a stop-controlled intersection, left turn movements from the driveway can experience significant delay. The addition of traffic signals at Seton Road significantly improves the ability to make this left turn movement and they also provide an alternative exit point for drivers wishing to turn left onto the Bedford Highway.
- The Bayview intersection is one of the primary bottlenecks along the Bedford Highway but effectively meters the ability of additional traffic to progress outbound on Bedford Highway. In this respect, it supports a variety of goals and initiates that are intended to put less emphasis on passenger vehicle travel and encourage alternative travel modes such as transit, active transit and ridesharing. For these reasons, and in the absence of a formal plan for the overall Bedford Highway corridor, it is recommended that this intersection remain in its current configuration.
- No improvements are required at the signalized driveway at 50 Bedford Highway.
- It is recommended that all signalized intersections along Bedford Highway remain actuated and coordinated. More advanced operational monitoring and left turn queue management technologies may provide significant benefits along the

corridor to enhance progression and the reduction of lost capacity due to left turn queueing.

5.2 The Lacewood Drive Corridor

Lacewood Drive has lower traffic volumes than Bedford Highway and therefore has more excess capacity to accommodate new traffic from the development. It is likely that over time, volumes to and from the development will balance themselves between Bedford Highway and Lacewood Drive based on the delays experienced at each of the intersections and the conveniences of each travel route for specific drivers.

Traffic signals will be required at the intersection Lacewood Drive with Cedarbrae Lane and the new access road to the Seton Ridge development. The signals should be fully actuated and coordinated with the existing signals at Bayview Road. It is feasible that this intersection could operate as a stop-controlled intersection for a period following the start of construction, though it is recommended that the necessary signal bases and associated infrastructure be installed when the new access road is constructed. No infrastructure upgrades are required at the Dunbrack or Lacewood Drive intersection.

5.3 Detailed Design Considerations

As the detailed design progresses for the roads internal to the Seton Ridge Development, a number of guiding principles should be considered and implemented as appropriate.

5.3.1 Complete Streets Approach

The development is intended as an urban residential and transit-oriented development. As such, roadway design should adopt the complete street approaches as defined in HRM's Integrated Mobility Plan. This approach should ensure the design of the roadways, intersections, active transportation corridors and roadside environments all contribute to slower speeds, minimal short-cutting traffic, safe and efficient travel for all users, and accommodation of all users (multi-modal and multi-functional corridors).

5.3.2 Transportation Demand Management

The development should adopt Transportation Demand Management (TDM) principles as defined in HRM's Integrated Mobility Plan to improve the efficiency of the transportation system on the internal and connecting roadways. As noted in the IMP, major roads in HRM operate at or near capacity during the peak times. Shifting travel times, extending the peak periods, or reducing trips through effective TDM policies, programs and services helps reduce overall congestion on the network. This study has assumed minimal impacts from TDM principles, but it is expected that some TDM initiatives will be pursued for this development that are likely to result in better conditions than are represented in this report.

There is also an inherent level of transportation demand management that occurs on congested corridors throughout HRM that can be classified as the management of congestionbased travel. This results in drivers making alternate decisions when faced with congested conditions on a corridor. For example, if the Bedford Highway is free flowing and Highway 102 is delayed as a result of congestion, some drivers will elect to alter their route to use the Bedford Highway, or visa-versa. This is particularly relevant today with the availability of real time information through various social media platforms. In the past, such changes in travel would typically occur over a period of days or weeks once a noticeable trend was identified.

5.3.3 Detailed Design Next Steps

This Transportation Impact Study identifies the major infrastructure elements required to support the full build out of the Seton Ridge development. The content and analysis contained in the body and appendices of this report are intended to provide the designer with proof of concept level guidance that can be directly inform the initial stages of detailed design. That said, a Transportation Impact Study is not intended to be, nor should it be construed as being a detailed design document. The detailed design process requires the consideration of a wide variety of addition factors, interactions and trade-offs that are far beyond the scope of a transportation study such as this.

As this project progresses, it is recommended that the detailed design of roadways, intersections, traffic signals, transit and AT facilities be carried out under a separate work flow. This will allow HRM to review the proposed design details in an appropriate context, with an adequate level of professional attention and vigor, and in a timeframe that is consistent with the requirements of the development.

We trust that this report satisfies the HRM requirements for the preparation of Transportation Impact Studies. Should there be any questions or comments regarding the content of the study, please do not hesitate to contact the undersigned.

Sincerely,

Roger N. Boychuk, P.Eng. Senior Transportation Engineer

EKISTICS PLAN + DESIGN 1 Starr Lane, Dartmouth, NS o: 902.461.2525 Ext. 201 c: 902.233.1152 roger@ekistics.net





APPENDIX A

Site Statistics

REVISED NC ZO	ONE (co	mbination of m	id-rise and tow	ver)				
		RETAIL	OFFICE	TOTAL RES GFA M2	UNITS @1000 SQFT AVG AT 80% FPE	TOTAL FLOORS	Mid-Rise TOTAL	High-Rise TOTAL
BUILDING	Α	0	0	11000	95	Mid-Rise	95	
	В	0	0	20000	172	HighRise		172
	С	0	0	20000	172	HighRise		172
	D	1851	0	20000	172	HighRise		172
	E	0	0	8000	69	Mid-Rise	69	
	F	0	0	15000	129	HighRise		129
	G	2382	2382	20000	172	HighRise		172
	H1	1895	1895	20000	172	HighRise		172
	H2	0	0	7000	60	Mid-Rise	60	
	H3	0	0	7000	60	Mid-Rise	60	
	Ι	2185	0	20000	172	HighRise		172
	J	0	0	16000	138	HighRise		138
	К	0	0	16000	138	HighRise		138
	L	0	0	16000	138	HighRise		138
	м	0	0	16000	138	HighRise		138
	Ν	0	0	6000	52	Mid-Rise	52	
	0	0	0	13000	112	Mid-Rise	112	
	Р	0	0	12000	103	Mid-Rise	103	
	Q	0	0	6100	52	Mid-Rise	52	
TOTAL GFA		8313	4277	269100	2315		603	1712

SINGLE FAMILY HOMES

185

TOTAL UNITS 2500

Single Family Breakdown

PURPLE LOTS	27
GREEN LOTS	98
YELLOW LOTS	21
CYAN LOTS	33
TOWNHOUSE UNITS	6
TOTAL	185



APPENDIX B

Traffic Counts

17-TM-328

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MANUAL TRAFFIC COUNTS

INTERSECTION:				BEDF	ORD HIG	HWAY AT	FLAMING	O DRIVE					
										WEATHE			DY/RAINY
DAY DATE	MONTH		1							RECORI	DER		KS
WED 23	AUG	2017											
STREET:				FLA	MINGO E	DRIVE	BEDF	ORD HIGH	HWAY	BEDF	ORD HIG	IWAY]
TIME:	FRC	M THE E	AST	FRC	OM THE V	VEST	FRO	M THE NC	RTH	FRC	OM THE SC	UTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
07:00:00 AM 07:15:00 AM	0	0	0	6	0	46	0	154	0	7	78	0	291
07:15:00 AM 07:30:00 AM	0	0	0	5	0	52	0	166	0	6	80	0	309
07:30:00 AM 07:45:00 AM	0	0	0	3	0	51	0	168	0	9	77	0	308
07:45:00 AM 08:00:00 AM	0	0	0	3	0	48	0	172	2	12	76	0	313
TOTAL	0	0	0	17	0	197	0	660	2	34	311	0	1221
PEAK	0	0	0	17	214	197	0	662	2	- 54	345	0	1221
15 MIN PEAK		0			214			696			352		
PEAK HOUR FACTOR		0			220 0.94			0.95			0.98		
TWO WAY TOTALS		0			0.94 250			0.95 990			0.98 1202		FACTOR
TWO WAY TOTALS		0			250			990			1202		1.02
													1245
DAY DATE	MONTH	YEAR											
WED 23	AUG	2017											
TIME:	EDC	M THE E	AST	ED	OM THE V	VEST	EPO	M THE NC	отц	EPC	M THE SC		TOTAL
15 MIN INTERVALS	L	S	R		S	R	L	S	R	L	S S	R	TOTAL
08:00:00 AM 08:15:00 AM	0	0	0	5	0	41	0	165	0	11	84	0	306
08:15:00 AM 08:30:00 AM	0	0	0	7	0	50	0	157	0	11	89	0	314
08:30:00 AM 08:45:00 AM	0	0	0	4	0	53	0	158	0	12	90	0	317
08:45:00 AM 09:00:00 AM	0	0	0	2	0	51	0	143	0	7	88	0	291
	-	1	1		1	1	1	1			T	1	
TOTAL	0	0	0	18	0	195	0	623	0	41	351	0	1228
PEAK		0			213			623			392		
15 MIN PEAK		0			228			660			408		
PEAK HOUR FACTOR		0			0.93			0.94			0.96		
TWO WAY TOTALS		0			254			992			1210		FACTOR
													1.02

8/25/17 8:39 AM

1253

VEHICULAR GRAPHIC SUMMARY SHEET BEDFORD HIGHWAY AT FLAMINGO DRIVE



17-TM-328

MANUAL TRAFFIC COUNTS

INTERSECTION:				BEDF	ORD HIG	HWAY AT	FLAMING	O DRIVE				1	
										WEATHE	ĒR	CLOU	DY/RAINY
DAY DATE	MONTH		-							RECOR	DER		KS
WED 23	AUG	2017]										
STREET:				FLΔ			BEDE			BEDE	ORD HIG		1
TIME:	FRC	M THE E	AST					M THE NO			M THE SC		TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
04:00:00 PM 04:15:00 PM	0	0	0	20	0	19	0	82	7	31	147	0	306
04:15:00 PM 04:30:00 PM	0	0	0	26	0	28	0	113	3	33	169	0	372
04:30:00 PM 04:45:00 PM	0	0	0	17	0	35	0	121	2	34	189	0	398
04:45:00 PM 05:00:00 PM	0	0	0	14	0	36	0	115	1	41	197	0	404
		I		1	1	I	I	I	I	1	1	I	
TOTAL	0	0	0	77	0	118	0	431	13	139	702	0	1480
PEAK		0			195			444			841		
15 MIN PEAK		0			216			492			952		
PEAK HOUR FACTOR		0			0.9			0.9			0.88		
TWO WAY TOTALS		0			347			1223			1390		FACTOR
													1.02
DAY DATE	MONTH	YEAR											1510
WED 23	AUG	2017	1										
			1										
TIME:	FRC	OM THE E	AST	FRC	OM THE V	VEST	FRO	M THE NO	RTH	FRO	M THE SC	-	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
05:00:00 PM 05:15:00 PM	0	0	0	21	0	35	0	116	6	42	212	0	432
05:15:00 PM 05:30:00 PM	0	0	0	20	0	39	0	108	4	46	208	0	425
05:30:00 PM 05:45:00 PM	0	0	0	20	0	37	0	119	4	39	214	0	433
05:45:00 PM 06:00:00 PM	0	0	0	29	0	40	0	123	7	44	221	0	464
		1	-	1	1	1	1	1	1	1	1	1	
TOTAL	0	0	0	90	0	151	0	466	21	171	855	0	1754
PEAK		0			241			487			1026		
15 MIN PEAK		0			276			520			1060		
PEAK HOUR FACTOR		0			0.87			0.94			0.97		
TWO WAY TOTALS		0			433			1432			1643		FACTOR
													1.02 1789
													1789

8/25/17 9:58 AM

VEHICULAR GRAPHIC SUMMARY SHEET BEDFORD HIGHWAY AT FLAMINGO DRIVE



HALIFAX REGIONAL MUNICIPALITY TRANSPORTATION & PUBLIC WORKS TRAFFIC & RIGHT OF WAY

18-TM-074 CODE NO.

MANUAL TRAFFIC COUNTS

INTERSECTION:					BEDFORD H	IIGHWAY AT N	ISVU					T	
										WEATH	ER	OVE	RCAST
DAY DATE	MONTH	YEAR								RECORI	DER	JOSHUA	SPINNEY
TUES 11	SEPT.	2018											
													-
STREET:				MOUNT SA	AINT VINCENT	UNIVERSITY	BEDF	ORD HIG	HWAY	BED	FORD HI	GHWAY	
TIME:	FRC	DM THE E	AST	F	FROM THE WE	ST	FRO	M THE NO	ORTH	FRO	OM THE S	SOUTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
07:00:00 AM 07:15:00 AM		\langle	\langle	0		1	\langle	341	2	1	82		427
07:15:00 AM 07:30:00 AM	\langle	\langle		0		1	\langle	336	7	3	97		444
07:30:00 AM 07:45:00 AM		\sim		0		4		335	0	8	80		427
07:45:00 AM 08:00:00 AM	\sim	\sim		0		4	\sim	325	7	7	122		465
												-	
TOTAL	\sim	\sim	\sim	0		10	\sim	1337	16	19	381		1763
PEAK					10			1353			400		
4(15 MIN PEAK)					16			1372			516		
PEAK HOUR FACTOR					0.63			0.99			0.78		AAWT
TWO WAY TOTALS	1				45			1734		1	1747		FACTOR
	-												1
													1763

DAY DATE MONTH YEAR TUES 11 SEPT. 2018

TIME:	FRO	OM THE E	AST		FROM THE WE	ST	FRO	M THE NO	ORTH	FRO	OM THE S	OUTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
08:00:00 AM 08:15:00 AM	\sim	\sim	\sim	0		4		305	12	11	110	\sim	442
08:15:00 AM 08:30:00 AM		\langle		1		8		260	26	20	109	\sim	424
08:30:00 AM 08:45:00 AM				1		6		225	31	40	118	\sim	421
08:45:00 AM 09:00:00 AM				0		4		223	43	23	127	\sim	420
TOTAL	\sim			2		22		1013	112	94	464	\sim	1707
PEAK					24			1125			558		
4(15 MIN PEAK)					36			1268			632		
PEAK HOUR FACTOR					0.67			0.89			0.88		AAWT
TWO WAY TOTALS					230			1591			1593		FACTOR
													1
													1707

Intersection Peak Hour

					MOUNT SA	INT VINCENT	UNIVERSITY	BEDF	ord hig	HWAY	BEDI	Ford Hig	SHWAY	Total
		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
	Car		\sim		0		13	\sim	1283	26	29	381	\sim	1740
7:15 - 8:15	Truck		\sim		0		0	\sim	18	0	0	28	\sim	46
	Bicycle	\langle	\sim	\langle	0		0	\sim	4	0	0	0	\langle	4
	Vehicle Total				0		13	/	1305	26	29	409		1790
	Approach Factor					0.81			0.97			0.84		FACTOR
														1

1790

Peak Hour Pedestrians

Γ				NE			NW			SW			SE		Total
	7:15 - 8:15		Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	Total
		Pedestrians	\langle	12	12	1	0	1	0	0	0	1		2	15

Car traffic

Interval starts		N/A		MOUNT SA	INT VINCENT	UNIVERSITY	BEDF	ORD HIG	HWAY	BEDI	FORD HIG	GHWAY	Total
interval starts	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
7:00				0		1	\langle	331	2	1	75		410
7:15			\langle	0		1		331	7	3	85	\langle	427
7:30		\langle		0		4	\langle	332	0	8	76		420
7:45		\langle	\sim	0		4		320	7	7	115		453
8:00	\langle	\langle	\langle	0		4	\langle	300	12	11	105	\langle	432
8:15				1		8		252	26	20	105		412
8:30		\langle		1		6	\langle	220	31	40	111		409
8:45		\langle		0		4	\sim	214	43	23	119		403
TOTAL	\langle	\langle	\langle	2		32	\langle	2300	128	113	791	\langle	3366

Truck traffic

Interval starts		0		MOUNT SA	INT VINCENT	UNIVERSITY	BEDF	ord hig	HWAY	BEDI	FORD HIG	GHWAY	Total
Interval Starts	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
7:00	\langle			0		0		10	0	0	7		17
7:15	\langle	\langle	\langle	0		0	\langle	5	0	0	12		17
7:30	\langle	\sim		0		0		3	0	0	4		7
7:45	\langle			0		0		5	0	0	7		12
8:00	\langle			0		0		5	0	0	5		10
8:15	\langle	\langle	\langle	0		0	\langle	8	0	0	4		12
8:30	\langle			0		0		5	0	0	7		12
8:45	\langle			0		0		9	0	0	8		17
TOTAL	\sim	\sim	\sim	0		0	\sim	50	0	0	54		104

Bicycle traffic

Interval starts		0		MOUNT SA	INT VINCENT	UNIVERSITY	BEDF	ORD HIG	HWAY	BED	FORD HIG	GHWAY	Total
interval starts	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
7:00				0		0	\langle	1	0	0	0		1
7:15			\sim	0		0		0	0	0	0		0
7:30				0		0	\langle	0	0	0	0		0
7:45		\sim		0		0	\sim	2	0	0	0		2
8:00			\sim	0		0		2	0	0	0		2
8:15				0		0	\langle	1	0	0	2		3
8:30		\sim	\langle	0		0		1	0	0	0	\langle	1
8:45				0		0	\langle	1	0	0	1		2
TOTAL	\langle		\langle	0		0	\langle	8	0	0	3		11

Pedestrian volumes

Interval starts		NE			NW			SW			SE		Total
Interval starts	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	Total
7:00		0	0	0	0	0	0	0	0	0		0	0
7:15		2	2	0	0	0	0	0	0	0	\langle	0	4
7:30		3	3	0	0	0	0	0	0	1		1	8
7:45		3	3	0	0	0	0	0	0	0		1	8
8:00		4	4	1	0	1	0	0	0	0	\langle	0	10
8:15	\langle	6	6	3	0	3	0	0	0	0		0	18
8:30		27	27	0	0	0	0	0	0	0	\langle	0	54
8:45		17	17	0	0	0	0	0	0	0		0	34
TOTAL	0	62	62	4	0	4	0	0	0	1	0	2	136



VEHICULAR GRAPHIC SUMMARY SHEET

BEDFORD HIGHWAY AT MSVU

HALIFAX REGIONAL MUNICIPALITY TRANSPORTATION & PUBLIC WORKS TRAFFIC & RIGHT OF WAY

CODE NO.

MANUAL TRAFFIC COUNTS

INTERSECTION:	Г					BEDFORD H	GHWAY AT M	SVU					1	
DAY DAT TUES 11		MONTH SEPT.	YEAR 2018								WEATHE RECORE			SPINNEY
STREET:	Г				MOUNT S	AINT VINCENT	UNIVERSITY	BEDF	ORD HIG	HWAY	BED	FORD H	GHWAY	1
TIME:		FRO	M THE E	AST		FROM THE WE	ST	FRO	M THE NO	ORTH	FR	OM THE	SOUTH	TOTAL
15 MIN INTERVALS		L	S	R	L	S	R	L	S	R	L	S	R	
04:00:00 PM 04:15:0	00 PM		\sim	\langle	12		46		153	12	11	295		529
04:15:00 PM 04:30:0	00 PM		\sim	\langle	19		69		126	10	10	336		570
04:30:00 PM 04:45:0	00 PM		\sim	\sim	9		26	\sim	154	2	7	355		553
04:45:00 PM 05:00:0	00 PM		\sim	\sim	1		14	\sim	143	4	5	326		493
	_					-					·		-	
TOTAL		\sim	\sim	\sim	41		155		576	28	33	1312		2145
PEAK						196			604			1345		
4(15 MIN PEAK)						352			660			1448		
PEAK HOUR FACTOR						0.56			0.92			0.93		AAWT
TWO WAY TOTALS						257			1957			2076		FACTOR
														1
D.1.Y D.1.		LONT!!												2145

DATE MONTH YEAR 11 SEPT. 2018 DAY TUES

TIME:	FRO	OM THE E	AST		FROM THE WE	ST	FRO	M THE NO	ORTH	FR	OM THE :	SOUTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
05:00:00 PM 05:15:00 PM				1		14		190	5	3	333		546
05:15:00 PM 05:30:00 PM		\sim		1		5		146	2	4	296		454
05:30:00 PM 05:45:00 PM		\sim	\langle	3		3		127	4	1	297		435
05:45:00 PM 06:00:00 PM		\sim		5		6		193	2	1	317		524
TOTAL				10		28		656	13	9	1243		1959
PEAK					38			669			1252		
4(15 MIN PEAK)					60			780			1344		
PEAK HOUR FACTOR					0.63			0.86			0.93		AAWT
TWO WAY TOTALS	1				60		1	1922			1936		FACTOR
													1
													1959

Intersection Peak Hour

					MOUNT SA	AINT VINCENT	UNIVERSITY	BEDF	ord hig	HWAY	BED	FORD HI	GHWAY	Total
		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
	Car	\langle	\sim		30		122		603	21	25	1335		2140
6:15-7:15	Truck	\langle	\sim		0		1		10	0	0	15		26
	Bicycle				0		1		1	0	1	5		8
	Vehicle Total	\langle	\sim		30		124		614	21	26	1355		2174
	Approach Factor					0.44			0.81			0.95		FACTOR
-														1
														2174

Peak Hour Pedestrians

			NE			NW			SW			SE		Total
6:15-7:15		Left	Right	Total	Total									
	Pedestrians		3	3	39	0	39	0	0	0	0		0	42

Car traffic

Interval starts		N/A		MOUNT SA	INT VINCENT	UNIVERSITY	BEDF	ORD HIG	HWAY	BED	FORD HI	GHWAY	Total
interval starts	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
16:00				12	\sim	45		147	12	11	288		515
16:15		\sim	\langle	19		68		124	10	10	333		564
16:30				9		26		148	2	7	352		544
16:45				1		14		142	4	5	323		489
17:00	\langle	\langle	\langle	1		14	\langle	189	5	3	327		539
17:15				1		6		143	2	4	292		448
17:30				3		3		122	4	1	294		427
17:45				5		6		189	2	1	309		512
TOTAL			\langle	51	\sim	182		1204	41	42	2518	\langle	4038

Truck traffic

Interval starts		0		MOUNT SA	INT VINCENT	UNIVERSITY	BEDF	ord hig	HWAY	BED	FORD HI	GHWAY	Total
intervar starts	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Totai
16:00	\langle			0		1		6	0	0	7		14
16:15	\langle	\langle	\langle	0		1	\langle	2	0	0	3		6
16:30		\sim		0		0		6	0	0	3		9
16:45	\langle			0		0		1	0	0	3		4
17:00				0		0		1	0	0	6		7
17:15	\langle			0	\sim	0		3	0	0	4		7
17:30	\langle			0		0		5	0	0	3		8
17:45	\langle			0		0		4	0	0	8		12
TOTAL	\langle	\langle	\langle	0		2	\langle	28	0	0	37		67

Bicycle traffic

Interval starts		0		MOUNT SA	AINT VINCENT	UNIVERSITY	BEDF	ORD HIG	HWAY	BED	FORD HI	GHWAY	Total
Interval starts	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total
16:00	\langle			0		0		0	0	0	1		1
16:15	\langle			0		1		0	0	1	2		4
16:30				0		0		0	0	0	1		1
16:45	\langle	\sim		0		0		1	0	0	2		3
17:00	\langle			0		0		0	0	0	0		0
17:15				0		0		0	0	0	1		1
17:30	\langle	\sim	\langle	0		0		0	0	0	1		1
17:45	\langle			0		0		0	0	0	0		0
TOTAL	\langle		\langle	0		1	\langle	1	0	1	8		11

Pedestrian volumes

Interval starts		NE			NW			SW			SE		Total
interval starts	Left	Right	Total	Left	Right	Total	Left	Right	Total	Left	Right	Total	Total
16:00	\langle	3	3	9	0	9	0	0	0	C		0	24
16:15	\langle	3	3	23	0	23	0	0	0	C		0	52
16:30	\langle	0	0	12	0	12	0	0	0	C		0	24
16:45	\langle	0	0	2	0	2	0	0	0	C		0	4
17:00	\langle	0	0	2	0	2	0	0	0	C		0	4
17:15	\langle	4	4	0	0	0	0	0	0	C	\sim	0	8
17:30		0	1	3	0	3	0	0	0	C		0	8
17:45	\langle	2	2	6	0	6	0	0	0	C		0	16
TOTAL	0	12	13	57	0	57	0	0	0	0	0 0	0	140



VEHICULAR GRAPHIC SUMMARY SHEET



Ekistics Plan + Design 1 Starr Lane

Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics Count Name: Seton Ridge - 2018 Peak Hours Site Code: Start Date: 10/18/2018 Page No: 3

Turning Movement Peak Hour Data (8:00 AM)

					Turning	j woven	ient Pea	ak Hour	Dala (o.	00 AIVI						
		B	edford Highway V	VB				Seton Road				В	edford Highway I	ΞB		
Start Time			Westbound					Northbound					Eastbound			
Start Time	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	Int. Total
8:00 AM	135	15	0	0	150	7	2	0	2	9	11	324	0	1	335	494
8:15 AM	132	27	0	0	159	14	0	0	8	14	14	304	0	26	318	491
8:30 AM	162	59	0	0	221	16	0	0	8	16	10	273	0	9	283	520
8:45 AM	197	50	0	0	247	16	1	0	11	17	8	243	0	7	251	515
Total	626	151	0	0	777	53	3	0	29	56	43	1144	0	43	1187	2020
Approach %	80.6	19.4	0.0	-	-	94.6	5.4	0.0	-	-	3.6	96.4	0.0	-	-	-
Total %	31.0	7.5	0.0	-	38.5	2.6	0.1	0.0	-	2.8	2.1	56.6	0.0	-	58.8	-
PHF	0.794	0.640	0.000	-	0.786	0.828	0.375	0.000	-	0.824	0.768	0.883	0.000	-	0.886	0.971
Lights	593	151	0	-	744	53	2	0	-	55	42	1112	0	-	1154	1953
% Lights	94.7	100.0	-	-	95.8	100.0	66.7	-	-	98.2	97.7	97.2	-	-	97.2	96.7
Buses	11	0	0	-	11	0	0	0	-	0	0	14	0	-	14	25
% Buses	1.8	0.0	-	-	1.4	0.0	0.0	-	-	0.0	0.0	1.2	-	-	1.2	1.2
Trucks	21	0	0	-	21	0	1	0	-	1	1	16	0	-	17	39
% Trucks	3.4	0.0	-	-	2.7	0.0	33.3	-	-	1.8	2.3	1.4	-	-	1.4	1.9
Bicycles on Road	1	0	0	-	1	0	0	0	-	0	0	2	0	-	2	3
% Bicycles on Road	0.2	0.0	-	-	0.1	0.0	0.0	-	-	0.0	0.0	0.2	-	-	0.2	0.1
Pedestrians	-	-	-	0	-	-	-	-	29	-	-	-	-	43	-	-
% Pedestrians	-	-	-	-	-	-	-	-	100.0	-	-	-	-	100.0	-	-


Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics Count Name: Seton Ridge - 2018 Peak Hours Site Code: Start Date: 10/18/2018 Page No: 4



Turning Movement Peak Hour Data Plot (8:00 AM)



Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics Count Name: Seton Ridge - 2018 Peak Hours Site Code: Start Date: 10/18/2018 Page No: 5

Turning Movement Peak Hour Data (4:00 PM)

	i.				ruming	j woven	nent Pea	ak Hour	Dala (4)							
		Be	edford Highway \	NB				Seton Road				В	edford Highway I	ΞB		
Start Time			Westbound					Northbound					Eastbound			
Start Time	Thru	Left	U-Turn	Peds	App. Total	Right	Left	U-Turn	Peds	App. Total	Right	Thru	U-Turn	Peds	App. Total	Int. Total
4:00 PM	338	16	0	0	354	24	6	0	10	30	6	195	0	7	201	585
4:15 PM	366	17	0	0	383	42	6	0	14	48	9	214	0	2	223	654
4:30 PM	383	11	0	0	394	34	3	0	6	37	4	158	0	5	162	593
4:45 PM	356	10	0	0	366	15	2	0	5	17	4	176	0	2	180	563
Total	1443	54	0	0	1497	115	17	0	35	132	23	743	0	16	766	2395
Approach %	96.4	3.6	0.0	-	-	87.1	12.9	0.0	-	-	3.0	97.0	0.0	-	-	-
Total %	60.3	2.3	0.0	-	62.5	4.8	0.7	0.0	-	5.5	1.0	31.0	0.0	-	32.0	-
PHF	0.942	0.794	0.000	-	0.950	0.685	0.708	0.000	-	0.688	0.639	0.868	0.000	-	0.859	0.916
Lights	1410	52	0	-	1462	115	17	0	-	132	23	724	0	-	747	2341
% Lights	97.7	96.3	-	-	97.7	100.0	100.0	-	-	100.0	100.0	97.4	-	-	97.5	97.7
Buses	15	0	0	-	15	0	0	0	-	0	0	10	0	-	10	25
% Buses	1.0	0.0	-	-	1.0	0.0	0.0	-	-	0.0	0.0	1.3	-	-	1.3	1.0
Trucks	15	2	0	-	17	0	0	0	-	0	0	9	0	-	9	26
% Trucks	1.0	3.7	-	-	1.1	0.0	0.0	-	-	0.0	0.0	1.2	-	-	1.2	1.1
Bicycles on Road	3	0	0	-	3	0	0	0	-	0	0	0	0	-	0	3
% Bicycles on Road	0.2	0.0	-	-	0.2	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.1
Pedestrians	-	-	-	0	-	-	-	-	35	-	-	-	-	16	-	-
% Pedestrians	-	-	-	-	-	-	-	-	100.0	-	-	-	-	100.0	-	-



Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics Count Name: Seton Ridge - 2018 Peak Hours Site Code: Start Date: 10/18/2018 Page No: 6



Turning Movement Peak Hour Data Plot (4:00 PM)



Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics Count Name: Seton Road Gap Site Code: Start Date: 10/18/2018 Page No: 1

Combined Direction

Start Time	2.0 - 4.0	4.0 - 6.0	6.0 - 8.0	8.0 - 10.0	10.0 - 12.0	12.0 - 14.0	14.0 - 16.0	16.0 - 18.0	18.0 - 20.0	20.0 - 22.0	22.0 - 24.0	24.0 - 26.0	26.0 - 28.0	28.0 - 99.0	Total
4:30 PM	65	5	1	0	0	0	0	0	0	0	0	0	0	0	71
4:45 PM	80	14	1	1	1	0	0	0	0	0	0	0	0	0	97
5:00 PM	78	18	4	3	0	0	0	0	0	0	0	0	0	0	103
5:15 PM	55	9	5	1	2	1	0	0	0	0	0	0	0	0	73
Total	278	46	11	5	3	1	0	0	0	0	0	0	0	0	344
Total %	80.8	13.4	3.2	1.5	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0



Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics Count Name: Seton Road Gap Site Code: Start Date: 10/18/2018 Page No: 2

Westbound (Westbound)

Start Time	2.0 - 4.0	4.0 - 6.0	6.0 - 8.0	8.0 - 10.0	10.0 - 12.0	12.0 - 14.0	14.0 - 16.0	16.0 - 18.0	18.0 - 20.0	20.0 - 22.0	22.0 - 24.0	24.0 - 26.0	26.0 - 28.0	28.0 - 99.0	Total
4:30 PM	82	10	1	2	1	1	0	0	0	0	0	0	0	0	97
4:45 PM	93	16	4	1	1	1	1	0	0	0	0	0	0	1	118
5:00 PM	79	19	4	4	3	3	0	1	0	1	1	0	0	0	115
5:15 PM	65	17	4	4	2	1	2	0	0	0	0	0	0	1	96
Total	319	62	13	11	7	6	3	1	0	1	1	0	0	2	426
Total %	74.9	14.6	3.1	2.6	1.6	1.4	0.7	0.2	0.0	0.2	0.2	0.0	0.0	0.5	100.0



Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics Count Name: Seton Road Gap Site Code: Start Date: 10/18/2018 Page No: 3

Eastbound (Eastbound)

Start Time	2.0 - 4.0	4.0 - 6.0	6.0 - 8.0	8.0 - 10.0	10.0 - 12.0	12.0 - 14.0	14.0 - 16.0	16.0 - 18.0	18.0 - 20.0	20.0 - 22.0	22.0 - 24.0	24.0 - 26.0	26.0 - 28.0	28.0 - 99.0	Total
4:30 PM	42	28	7	3	5	10	2	1	0	2	2	0	1	2	105
4:45 PM	62	14	8	3	4	3	0	3	2	0	2	1	1	4	107
5:00 PM	68	11	15	6	3	3	3	0	0	0	0	1	0	3	113
5:15 PM	62	17	5	3	5	4	0	3	0	1	1	1	1	4	107
Total	234	70	35	15	17	20	5	7	2	3	5	3	3	13	432
Total %	54.2	16.2	8.1	3.5	3.9	4.6	1.2	1.6	0.5	0.7	1.2	0.7	0.7	3.0	100.0



Dartmouth, Nova Scotia, Canada B2Y4V7 (902) 461-2525 roger@ekistics.net Ekistics





17-TM-009

MANUAL TRAFFIC COUNTS

INTERSECTION:				BAYV	IEW ROA	AD AT BED	FORD HI	GHWAY				1	
										WEATHE	ĒR	SI	JNNY
DAY DATE	MONTH		-							RECOR	DER		AA
WEDNESDAY 21	JUNE	2017											
STREET:				DA.	YVIEW R		BEDE			BEDE	ORD HIG		1
TIME:	FRO	OM THE E	AST			-		M THE NC			M THE SC		TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	TOTAL
07:00:00 AM 07:15:00 A	0 N	0	0	6	0	188	6	349	0	68	101	0	718
07:15:00 AM 07:30:00 A	0 N	0	0	9	0	139	8	352	0	74	109	0	691
07:30:00 AM 07:45:00 A	M 0	0	0	17	0	126	13	308	0	143	223	0	830
07:45:00 AM 08:00:00 A	0 N	0	0	11	0	196	8	361	0	72	109	0	757
••													
TOTAL	0	0	0	43	0	649	35	1370	0	357	542	0	2996
PEAK		0			692			1405			899		
15 MIN PEAK		0			828			1476			1464		
PEAK HOUR FACTOR		0			0.84			0.95			0.61		
TWO WAY TOTALS		35			1049			1990			2918		FACTOR
													0.99
DAX DATE	MONTH												2966
DAY DATE WEDNESDAY 21	MONTH JUNE	YEAR 2017	1										
WEDNEODAT 21	JOINE	2017	1										
TIME:	FRO	OM THE E	EAST	FRO	OM THE V	VEST	FRO	M THE NC	RTH	FRO	M THE SC	DUTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
08:00:00 AM 08:15:00 A	0 N	0	0	17	0	184	6	342	0	62	97	0	708
08:15:00 AM 08:30:00 A	0 N	0	0	9	0	201	11	341	0	66	84	0	712
08:30:00 AM 08:45:00 A	0 N	0	0	14	0	177	8	354	0	74	91	0	718
08:45:00 AM 09:00:00 A	0 N	0	0	13	0	161	11	332	0	63	84	0	664
		1	1			1	r	r	r	1	1		·
TOTAL	0	0	0	53	0	723	36	1369	0	265	356	0	2802
PEAK		0			776			1405			621		
15 MIN PEAK		0			840			1448			660		
PEAK HOUR FACTOR		0			0.92			0.97			0.94		
TWO WAY TOTALS		36			1041			1814			2713		FACTOR
													0.99
													2774

VEHICULAR GRAPHIC SUMMARY SHEET BAYVIEW ROAD AT BEDFORD HIGHWAY



DATE:	JUNE	21	2017
TIME:	1	HOUR	
FROM:	07:00:00 AM	то	08:00:00 AM

FACTORED TOTAL INTERSECTION APPROACH VOLUME 2966

17-TM-009

MANUAL TRAFFIC COUNTS

INTERSECTION:				BAYV	IEW ROA	D AT BED	FORD HI	GHWAY					
										WEATHE	ĒR	SI	JNNY
DAY DATE	MONTH		-							RECOR	DER		AA
WEDNESDAY 21	JUNE	2017]										
STREET:				BA	YVIEW R		BEDE	ORD HIGH		BEDE	ORD HIG		1
TIME:	FRO	OM THE E	AST			-		M THE NC			M THE SC		TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
04:00:00 PM 04:15:00 P	M 0	0	0	12	0	105	23	185	0	196	402	0	923
04:15:00 PM 04:30:00 P	M 0	0	0	15	0	97	33	176	0	180	352	0	853
04:30:00 PM 04:45:00 P	M 0	0	0	9	0	98	28	181	0	191	361	0	868
04:45:00 PM 05:00:00 P	M 0	0	0	14	0	108	24	174	0	186	369	0	875
							1				1		
TOTAL	0	0	0	50	0	408	108	716	0	753	1484	0	3519
PEAK		0			458			824			2237		
15 MIN PEAK		0			488			836			2392		
PEAK HOUR FACTOR		0			0.94			0.99			0.94		
TWO WAY TOTALS		108			1211			2358			3361		FACTOR
													0.99
DAY DATE	MONTH	YEAR											3484
WEDNESDAY 21	JUNE	2017	1										
	00.12	2011	1										
TIME:	FRO	OM THE E	AST	FRC	OM THE V	VEST	FRO	M THE NC	RTH	FRO	M THE SC	UTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
05:00:00 PM 05:15:00 P	M 0	0	0	18	0	109	31	163	0	182	377	0	880
05:15:00 PM 05:30:00 P	M 0	0	0	13	0	103	37	172	0	193	364	0	882
05:30:00 PM 05:45:00 P	M 0	0	0	9	0	111	24	177	0	184	406	0	911
05:45:00 PM 06:00:00 P	M 0	0	0	11	0	101	27	173	0	184	381	0	877
		1		1					1	1	1		<u> </u>
TOTAL	0	0	0	51	0	424	119	685	0	743	1528	0	3550
PEAK		0			475			804			2271		
15 MIN PEAK		0			508			836			2360		
PEAK HOUR FACTOR		0			0.94			0.96			0.96		
TWO WAY TOTALS		119			1218			2383			3380		FACTOR
													0.99
													3515

VEHICULAR GRAPHIC SUMMARY SHEET BAYVIEW ROAD AT BEDFORD HIGHWAY



DATE:	JUNE	21	2017
TIME:	1	HOUR	
FROM:	04:00:00 PM	то	05:00:00 PM

FACTORED TOTAL INTERSECTION APPROACH VOLUME 3484



1

Page A-6

17-TM-062

MANUAL TRAFFIC COUNTS

INTERSECTION:				DUNB	RACK STI	REET AT L	ACEWOO	DD DRIVE				1	
										WEATHE	ER	С	EAR
DAY DATE	MONTH									RECORE	DER		SS
TUESDAY 15	AUGUST	2017											
STREET:	LACE		RIVE	LAC	EWOOD		DUNE	BRACK ST	RFFT	DUN	BRACK ST	REET	1
TIME:	-	M THE E		-				M THE NC			M THE SC		TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
07:00:00 AM 07:15:00 AM	6	32	14	11	105	17	68	52	21	6	35	14	381
07:15:00 AM 07:30:00 AM	6	59	14	26	120	16	84	56	18	15	7	5	426
07:30:00 AM 07:45:00 AM	10	57	15	22	154	18	105	90	31	8	43	15	568
07:45:00 AM 08:00:00 AM	7	85	18	11	99	17	136	93	29	9	40	6	550
TOTAL	29	233	61	70	478	68	393	291	99	38	125	40	1925
PEAK		323			616			783			203		
15 MIN PEAK		440			776			1032			264		
PEAK HOUR FACTOR		0.73			0.79			0.76			0.77		
TWO WAY TOTALS		1234			986			1039			591		FACTOR
													1.03
													1983
DAY DATE TUESDAY 15	MONTH AUGUST		l										
TOESDAT 15	A00001	2017											
TIME:	FRC	M THE E	AST	FRC	OM THE V	VEST	FRO	M THE NC	RTH	FRC	M THE SC	DUTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
08:00:00 AM 08:15:00 AM	10	71	28	28	120	22	104	72	36	16	53	9	569
08:15:00 AM 08:30:00 AM	9	81	19	16	128	19	192	95	51	12	40	8	670
08:30:00 AM 08:45:00 AM	3	76	21	20	125	14	97	86	62	10	40	11	565
08:45:00 AM 09:00:00 AM	9	67	18	18	107	6	102	75	57	11	36	-12	494
											1		
TOTAL	31	295	86	82	480	61	495	328	206	49	169	16	2298
PEAK		412			623			1029			234		
15 MIN PEAK		436			680			1352			312		
PEAK HOUR FACTOR		0.94			0.92			0.76			0.75		
TWO WAY TOTALS		1403			1173			1366			654		FACTOR
													1.03
													2367

VEHICULAR GRAPHIC SUMMARY SHEET DUNBRACK STREET AT LACEWOOD DRIVE

DATE: AUGUST 15 2017 TIME: 1 HOUR DUNBRACK STREET 07:00:00 AM FROM: то 08:00:00 AM FACTORED TOTAL 1039 INTERSECTION APPROACH PEAK VOLUME VOLUME 1983 783 99 291 393 986 61 PEAK VOLUME 323 233 LACEWOOD DRIVE 29 LACEWOOD DRIVE 70 616 478 • PEAK VOLUME 68 1234 38 125 40 203 PEAK VOLUME 591 DUNBRACK STREET DUNBRACK STREET 1366 PEAK VOLUME 1029 206 328 495 1173 86 PEAK VOLUME 295 412 LACEWOOD DRIVE 31 LACEWOOD DRIVE 82 623 PEAK VOLUME 480 1403 61 49 169 16 234 DATE: _ PEAK VOLUME AUGUST 15 2017 HOUR TIME: 654 1 FROM: 08:00:00 AM 09:00:00 AM ΤО DUNBRACK STREET FACTORED TOTAL INTERSECTION APPROACH VOLUME 2367

17-TM-062

MANUAL TRAFFIC COUNTS

INTERSECTION:				DUNB	RACK STI	REET AT L	ACEWOO	DD DRIVE]	
										WEATHE	ER	С	LEAR
DAY DATE	MONTH									RECORE	DER		SS
TUESDAY 15	AUGUST	2017											
STREET:	LACE		RIVE	LAC	EWOOD		DUNE	BRACK ST	RFFT	DUNE	BRACK ST	REET	1
TIME:	_	M THE E		-				M THE NC		-	M THE SC		TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
04:00:00 PM 04:15:00 PM	19	166	58	52	110	34	37	47	43	43	75	6	690
04:15:00 PM 04:30:00 PM	10	174	53	41	118	34	28	73	62	52	90	12	747
04:30:00 PM 04:45:00 PM	24	190	53	54	104	34	41	58	49	38	84	6	735
04:45:00 PM 05:00:00 PM	16	203	60	57	108	38	37	49	44	39	82	9	742
	r												
TOTAL	69	733	224	204	440	140	143	227	198	172	331	33	2914
PEAK		1026			784			568			536		
15 MIN PEAK		1116			812			652			616		
PEAK HOUR FACTOR		0.92			0.97			0.87			0.87		
TWO WAY TOTALS		1642			1887			1327			972		FACTOR
													1.03
	MONTH												3001
DAY DATE THURSDAY 15	MONTH JUNE	YEAR 2017	1										
THORSDAT 15	JUNE	2017	1										
TIME:	FRC	M THE E	AST	FRC	OM THE V	VEST	FRO	M THE NC	RTH	FRO	M THE SC	UTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
05:00:00 PM 05:15:00 PM	28	209	75	52	117	32	24	54	24	23	71	4	713
05:15:00 PM 05:30:00 PM	27	169	79	50	107	24	54	79	57	34	105	3	788
05:30:00 PM 05:45:00 PM	22	157	69	51	98	28	47	72	47	18	95	3	707
05:45:00 PM 06:00:00 PM	19	154	52	45	105	26	39	64	33	27	87	5	656
													<u>.</u>
TOTAL	96	689	275	198	427	110	164	269	161	102	358	15	2864
PEAK		1060			735			594			475		
15 MIN PEAK		1248			804			760			568		
PEAK HOUR FACTOR		0.85			0.91			0.78			0.84		
TWO WAY TOTALS		1666			1687			1425			950		FACTOR
													1.03
													2950

VEHICULAR GRAPHIC SUMMARY SHEET DUNBRACK STREET AT LACEWOOD DRIVE



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MANUAL TRAFFIC COUNTS

INTERSECTION:			BAYVIE	V ROAD A	AT CLAYI	ON PARK	DRIVE &	LACEWO	OD DRIV	E		1	
										WEATHE	ER	C	oudy
DAY DATE	MONTH									RECOR	DER	S	aqib
Wednesday 31	May	2017											
STREET:		WOODD			EWOOD		ΒΔ	YVIEW RO			ON PARK		1
TIME:		M THE E						M THE NC		-	M THE SC		TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
07:00:00 AM 07:15:00 AM	0	38	1	84	132	4	0	3	45	2	12	6	327
07:15:00 AM 07:30:00 AM	2	37	0	82	155	9	5	3	56	4	14	12	379
07:30:00 AM 07:45:00 AM	3	46	2	73	193	5	1	4	64	3	15	18	427
07:45:00 AM 08:00:00 AM	1	42	0	60	183	10	6	3	49	4	10	10	378
TOTAL	6	163	3	299	663	28	12	13	214	13	51	46	1511
PEAK		172			990			239			110		
15 MIN PEAK		204			1084			276			144		
PEAK HOUR FACTOR		0.84			0.91			0.87			0.76		
TWO WAY TOTALS		893			1380			592			157		FACTOR
													1
	MONTH												1511
DAY DATE Wednesday 31	MONTH May	YEAR 2017											
Weathesday 31	iviay	2017											
TIME:	FRC	M THE E	AST	FRC	OM THE V	VEST	FRO	M THE NC	RTH	FRC	M THE SC	UTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
08:00:00 AM 08:15:00 AM	3	38	0	71	187	7	3	5	44	3	12	7	380
08:15:00 AM 08:30:00 AM	8	41	2	67	159	9	4	3	51	5	16	12	377
08:30:00 AM 08:45:00 AM	8	41	0	65	162	14	1	4	51	11	18	21	396
08:45:00 AM 09:00:00 AM	7	42	1	57	152	9	2	2	54	7	12	13	358
TOTAL	26	162	3	260	660	39	10	14	200	26	58	53	1511
PEAK		191			959			224			137		
15 MIN PEAK		204			1060			232			200		
PEAK HOUR FACTOR		0.94			0.9			0.97			0.69		
TWO WAY TOTALS		914			1347			545			216		FACTOR
													1
													1511

VEHICULAR GRAPHIC SUMMARY SHEET BAYVIEW ROAD AT CLAYTON PARK DRIVE & LACEWOOD DRIVE



17-TM-151

MANUAL TRAFFIC COUNTS

INTERSECTION:				BAY	VIEW RO	AD AT LAC	EWOOD	DRIVE				1	
										WEATHE	ĒR		' & CLEAR
DAY DATE	MONTH		l.							RECORE	DER		KS
MON 10	JULY	2017											
STREET:	LACE	WOOD	RIVE	LAC	EWOOD	DRIVE	BA	YVIEW RO	AD	CLAYT	ON PARK	DRIVE]
TIME:	FRO	M THE E	AST	FRC	OM THE V	VEST	FRO	M THE NC	RTH	FRC	M THE SC	UTH	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	
04:00:00 PM 04:15:00 PM	2	92	8	49	58	14	3	6	108	6	6	4	356
04:15:00 PM 04:30:00 PM	3	74	9	35	56	8	4	4	123	2	5	0	323
04:30:00 PM 04:45:00 PM	4	125	10	48	71	13	5	7	125	3	8	1	420
04:45:00 PM 05:00:00 PM	6	116	11	49	59	14	4	6	133	2	8	1	409
TOTAL	15	407	38	181	244	49	16	23	489	13	27	6	1508
PEAK	15		30	101		49	10	23 528	409	13	46	0	1506
		460			474								
15 MIN PEAK		556			528			572			64		
PEAK HOUR FACTOR		0.83			0.9			0.92			0.72		
TWO WAY TOTALS		726			1383			774			133		FACTOR 1.07
													1614
DAY DATE	MONTH	YEAR											1011
MON 10	JULY	2017											
TIME:	FRO	M THE E	AST	FRC	OM THE V	VEST	FRO	M THE NC	RTH	FRO	M THE SC	літн	TOTAL
15 MIN INTERVALS	L	S	R	L	S	R	L	S	R	L	S	R	101/12
05:00:00 PM 05:15:00 PM	3	76	7	52	55	12	4	7	108	2	8	2	336
05:15:00 PM 05:30:00 PM	2	78	11	48	54	11	5	6	118	4	9	0	346
05:30:00 PM 05:45:00 PM	4	95	7	41	49	8	4	5	108	2	8	1	332
05:45:00 PM 06:00:00 PM	2	78	8	35	57	7	3	4	104	1	7	0	306
7074				(=0			10		100				1000
TOTAL	11	327	33	176	215	38	16	22	438	9	32	3	1320
PEAK		371			429			476			44		
15 MIN PEAK		424			476			516			52		
PEAK HOUR FACTOR		0.88			0.9			0.92			0.85		
TWO WAY TOTALS		605			1203			717			115		FACTOR
													1.07
													1412

VEHICULAR GRAPHIC SUMMARY SHEET

BAYVIEW ROAD AT LACEWOOD DRIVE



AAWT FACTORS 207	12				
DAY	Monday	Tuesday	Wednesday	Thursday	Friday
MONTH					
January	1.08	1.05	1.03	0.99	1.02
February	1.03	1.00	0.99	0.97	0.95
March	1.04	1.01	1.00	0.95	0.97
	1.04	1.01	1.00	0.35	0.97
April	1.07	1.04	1.02	0.98	0.96
Мау	1.04	1.01	1.00	0.96	0.96
June	1.05	1.02	0.99	0.97	0.97
July	1.07	1.03	1.00	0.99	1.00
August	1.07	1.03	1.02	1.02	1.02
September	1.05	1.00	1.00	0.97	0.96
October	1.04	1.01	0.98	0.97	0.95
November	1.04	1.01	0.99	0.97	0.94
December	1.04	0.99	1.01	0.94	0.92



APPENDIX C

Traffic Signal Timing/Phasing

Signal Timing Report

Induck Det Min Veh Recall Dual Entry Non Lock Det Min Veh Recall PE2 Ring Ring 0 1 0 1 0 0 0 [P2] Concurrency Phase () 0 1 0 1 0 0 0 0 0 Phase () 0 (6) 0 0 0 0 0 0 0 0 Phase () 0 15 0 15 0 15 0 15 0 15 Ped Clear Sec 0 15 0 15 0 15 0 15 Maximum 1 Sec 15 45 15 45 45 45 45 Maximum 2 Sec 10 20 1.0 2.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 <t< th=""><th>Region: Halifax</th><th></th><th>Signal ID: (</th><th>999</th><th>Loc</th><th>cation: Bedfor</th><th>rd Hwy at Flami</th><th>ngo</th><th></th><th></th></t<>	Region: Halifax		Signal ID: (999	Loc	cation: Bedfor	rd Hwy at Flami	ngo		
Pach GenSince	Phase	Units	1	2 - SB	3	4 - EB	5	6 - NB	7	8
Min GeneSee,010070101000MaximunSee,0250200250000MaximunSee,024000000000MaximunSee,0010251021102110211021102110211021102110211021102110	Walk	Sec	0	7	0	7	0	7	0	0
PassageSince0.0 <td>Ped Clear</td> <td>Sec</td> <td>0</td> <td>15</td> <td>0</td> <td>10</td> <td>0</td> <td>15</td> <td>0</td> <td>0</td>	Ped Clear	Sec	0	15	0	10	0	15	0	0
Namim BisimingSice025027000<	Vin Green	Sec	0	10	0	7	0	10	0	0
NamineNameNo <th< td=""><td>Passage</td><td>Sec</td><td>0.0</td><td>0.0</td><td>0.0</td><td>3.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td></th<>	Passage	Sec	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
relaySince3.04.13.03.53.04.13.04.0Seed GearanceSec102.010.02.510.010.02.02.0Seed Fear MarkSec0.0<	Maximum 1	Sec	0	25	0	20	0	25	0	0
Red CervarianSec1.02.01.02.0	Maximum 2	Sec	0	40	0	0	0	40	0	0
Red CervarianSec1.02.01.02.0	Yellow Change	Sec	3.0	4.1	3.0	3.5	3.0	4.1	3.0	4.0
Red ReviewSec2020202020202020Machai IniaiSec000 <t< td=""><td>•</td><td>Sec</td><td>1.0</td><td>2.0</td><td>1.0</td><td>2.5</td><td>1.0</td><td>2.0</td><td>1.0</td><td>2.0</td></t<>	•	Sec	1.0	2.0	1.0	2.5	1.0	2.0	1.0	2.0
Added ninitial MachinalitySee:0.0<	Red Revert									
Max india Time Before Time Before Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate Scate 	Added Initial					0.0		0.0		
Time for energy Cars Borior Base (1)Sec.000 </td <td></td>										
Cars Barlor Time To Reduce Networks Min Gan Secto00										
Time To Reduce Reduce By Sac:0.0<										
Reduce By Min GapSec0.0										
Min GapSec0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td></t<>								-		-
Dynamic Max Lim Dynamic Max Lim ScienceScience00 <t< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	-									
Dynamic Max Step [P2] Start Up [P2] OptionsSec0.00.	•									
P2 Start Up (P2 Options Enum Bit phaseNotOn Non Lock Det Sim Gap Disable yellow/Change Enabled Non Lock Det Sim Gap Disable phaseNotOn Non Lock Det Non Lock Det Non Lock Det Non Lock Det Sim Gap Disable yellow/Change Enabled Non Lock Det Sim Gap Disable phaseNotOn Non Lock Det Non Lock Det phaseNotOn Enabled yellow/Change Non Lock Det Non Lock Det Non Lock Det phaseNotOn Non Lock Det Non Lock Det phaseNotOn Non Lock Det Non Lock Det phaseNotOn Non Lock Det Non Lock Det [P2] Concurrence Ring 0 1 0 1 0 2 0 0 Pbase () 0 1 0 1 0 2 0 0 Pbase () 0 1	•									
P2 Options Bit Non Lock Det Sim Gap Disable Fnabled win Gap Disable Non Lock Det Sim Gap Disable Non Lock Det Non Lock Det Non Lock Det Sim Gap Disable Non Lock Det										
Sim Gap Disable Num Grap Disable Min Veh Recall Ped Recall Dual Entry Dual Entry Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Dual Entry Sim Gap Disable Non Lock Det Min Veh Recall Ped Recall Dual Entry Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Sim Gap Disable Non Lock Det Min Veh Recall Ped Recall Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Sim Gap Disable Non Lock Det Min Veh Recall Ped Recall Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Sim Gap Disable Non Lock Det Min Veh Recall Ped Recall Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Sim Gap Disable Non Lock Det Min Veh Recall Ped Recall Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Sim Gap Disable Non Lock Det Min Veh Recall Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Non Lock Det Min Veh Recall Non Lock Det Nei Veh Veh Veh Veh Ces Non Lock Det Nei Veh Veh Ces Non Lock Det Nei Veh Veh Veh Ces Non Lock Det Nei Veh Veh Ces<			•		•	•	•		•	•
[P2] Concurrency Phase () 0 66 0 0 0 20 20 0 0 Phase Units 9 10 11 12 13 14 15 6 Walk Sec 0 7 0 7 0 7 0 7 Ped Clear Sec 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0				Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall		Auto Flash Entry Non Lock Det		Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall		Sim Gap Disable
Phase Units 9 10 11 12 13 14 15 16 Walk Sec 0 7 0 7 0 7 Ped Clear Sec 0 15 0 15 0 15 15 15 Passage Sec 2.0 5.0 2.0 5.0 2.0 5.0 2.0 5.0 2.0 5.0 4.5 15 4.5 15 4.5	[P2] Ring	Ring	0	1	0	1	0	2	0	0
WalkSec07070707Ped ClearSec01501501501515PasageSec2.05.02.05.02.05.02.05.0PassageSec1545154515451545Maximun 1Sec1545154515454545Maximun 2Sec1545154515454545Red ClearanceSec1.02.02.02.02.02.02.02.0Red ClearanceSec0.00.00.00.00.00.00.00.0Red ClearanceSec0.00.00.00.00.00.00.00.00.0Red ClearanceSec0.00.00.00.00.00.00.00.00.00.0Red ClearanceSec0.0<	[P2] Concurrency	Phase (,)	0	(6)	0	0	0	(2)	()	()
Ped ClearSec01501515151515Min GreenSec454555 <td>Phase</td> <td>Units</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td>	Phase	Units	9	10	11	12	13	14	15	16
Ped ClearSec015015	Walk	Sec	0	7	0	7	0	7	0	7
Min GreenSec4154154154151615151516151516151516151516151615161516161516										
PasageSec2.05.02.05.02.05.02.05.0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
Maximun 1Sec1545154515454545Maximun 2Sec154515451545454545Yellow ChangeSec3.04.03.04.03.04.03.04.03.04.03.04.03.04.03.04.03.04.03.04.04.03.04.0										
Maximun 2Sec15451545454545Yellow ChangeSec3.04.03.04.03.04.03.04.03.04.0Red ClearanceSec1.02.01.02.01.02.01.02.03.04.03.04.03.04.0Red ClearanceSec1.02.01.02.01.02.01.02.03.0 <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•									
Yellow ChangeSec3.04.03.04.03.04.03.04.04.0Red ClearanceSec1.02.01.02.01.02.01.02.0<										
Red ClearanceSec1.02.01.02.01.02.01.02.02.0Red ReverSec2.02										
Red RevertSec2.0 <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-									
Added InitialSec0.0<										
Max InitialSec00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Time BeforeSec00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Cars BeforeVeh00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Time To ReduceSec00 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			-							
Reduce By Min GapSec0.0			-					-		
Min GapSec0.00.00.00.00.00.00.00.00.0Dynamic Max LimitSec000000000000Dynamic Max StepSec0.00					-			-		
Dynamic Max Limit Dynamic Max StepSec00	-									
Dynamic Max StepSec0.00.00.00.00.00.00.00.00.0[P2] Start UpEnumphaseNotOn <t< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	•									
[P2] Start UpEnumphaseNotOn	-									
[P2] Options Bit Non Lock Det Non Lock	-									
			Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det Sim Gap	Non Lock Det	phaseNotOn Non Lock Det Sim Gap Disable
[P2] Concurrency Phase (,) ()	[P2] Ring	-	0	0	0	0	0		0	0
	[P2] Concurrency	Phase (,)	0	()	()	()	0	0	0	0



Signal Timing Report

Region: Halifax		Signal ID:	099		Location:	Bedford H	wy at Flamii	ngo		
Coord Param Operational Mode Correction Mode Maximum Mode Force Mode	Units Enum Enum Enum	Value Automatic shortway maxInhibit fixed								
Coord Pattern Cycle Time Offset Split Sequence	Units Sec Sec Split Sequence	1 0 1 1	2 120 0 2 1	3 0 0 3 1	4 0 1 1	5 0 5 1		6 0 0 6 1	7 0 0 1	8 0 0 1 1
Coord Pattern Cycle Time Offset Split Sequence	Units Sec Sec Split Sequence	9 0 0 1 1	10 0 1 1	11 0 0 1 1	12 0 0 1 1	13 0 1 1		14 0 0 1 1	15 0 0 1 1	16 0 0 1 1

Signal Timing Report

Region: Halifax		Signal ID:	099		Location: B	edford Hwy at F	lamingo		
Coord Split	Units	1	2	3	4	5	6	7	8
Split 1 - Mode	Enum	none	maxVehRecall	none	none	none	maxVehRecall	none	none
Split 1 - Time	Sec	0	0	0	0	0	0	0	0
plit 1 - Coord	Enum	false	false	false	false	false	false	false	false
plit 2 - Mode	Enum	none	8	none	none	none	8	none	none
plit 2 - Time	Sec	0	94	0	26	0	94	0	0
plit 2 - Coord	Enum	false	true	false	false	false	true	false	false
Split 3 - Mode	Enum	none	none	none	none	none	none	none	none
Split 3 - Time	Sec	0	0	0	0	0	0	0	0
Split 3 - Coord	Enum	false	false	false	false	false	false	false	false
Split 4 - Mode	Enum	none	none	none	none	none	none	none	none
Split 4 - Time	Sec	0	0	0	0	0	0	0	0
plit 4 - Coord	Enum	false	false	false	false	false	false	false	false
Split 5 - Mode	Enum	none	none	none	none	none	none	none	none
Split 5 - Time	Sec	0	0	0	0	0	0	0	0
Split 5 - Coord	Enum	false	false	false	false	false	false	false	false
Split 6 - Mode	Enum	none	none	none	none	none	none	none	none
Split 6 - Time	Sec	0	0	0	0	0	0	0	0
plit 6 - Coord	Enum	false	false	0 false	false	false	false	0 false	false
•									
plit 7 - Mode	Enum	none	none	none	none	none	none	none	none
plit 7 - Time	Sec	0	0	0	0	0	0	0	0
plit 7 - Coord	Enum -	false	false	false	false	false	false	false	false
plit 8 - Mode	Enum	none	none	none	none	none	none	none	none
plit 8 - Time	Sec	0	0	0	0	0	0	0	0
plit 8 - Coord	Enum	false	false	false	false	false	false	false	false
plit 9 - Mode	Enum	none	none	none	none	none	none	none	none
plit 9 - Time	Sec	0	0	0	0	0	0	0	0
plit 9 - Coord	Enum	false	false	false	false	false	false	false	false
plit 10 - Mode	Enum	none	none	none	none	none	none	none	none
plit 10 - Time	Sec	0	0	0	0	0	0	0	0
plit 10 - Coord	Enum	false	false	false	false	false	false	false	false
plit 11 - Mode	Enum	none	none	none	none	none	none	none	none
plit 11 - Time	Sec	0	0	0	0	0	0	0	0
plit 11 - Coord	Enum	false	false	false	false	false	false	false	false
plit 12 - Mode	Enum	none	none	none	none	none	none	none	none
plit 12 - Time	Sec	0	0	0	0	0	0	0	0
plit 12 - Coord	Enum	false	false	false	false	false	false	false	false
plit 13 - Mode	Enum	none	none	none	none	none	none	none	none
plit 13 - Time	Sec	0	0	0	0	0	0	0	0
plit 13 - Coord	Enum	false	false	false	false	false	false	false	false
plit 14 - Mode	Enum	none	none	none	none	none	none	none	none
plit 14 - Time	Sec	0	0	0	0	0	0	0	0
plit 14 - Coord	Enum	false	false	false	false	false	false	false	false
plit 15 - Mode	Enum	none	none	none	none	none	none	none	none
plit 15 - Time	Sec	0	0	0	0	0	0	0	0
plit 15 - Coord	Enum	false	false	false	false	false	false	false	false
		0	0	0	0	0	0	0	0
plit 16 - Time	Sec	-						-	
Split 16 - Mode	Enum	none	none	none	none	none	none	none	none

Signal Timing Report

Time Generated: 2018-01-11 11:29:18

Region: Halifa	x	Signal II	D: 099		Location: Bo	edford Hwy at F	lamingo		
Coord Split	Units	9	10	11	12	13	14	15	16
Split 1 - Mode	Enum	none	none	none	none	none	none	none	none
Split 1 - Time	Sec	0	0	0	0	0	0	0	0
Split 1 - Coord	Enum	false	false	false	false	false	false	false	false
Split 2 - Mode	Enum	none	none	none	none	none	none	none	none
Split 2 - Time	Sec	0	0	0	0	0	0	0	0
Split 2 - Coord	Enum	false	false	false	false	false	false	false	false
Split 3 - Mode	Enum	none	none	none	none	none	none	none	none
Split 3 - Time	Sec	0	0	0	0	0	0	0	0
Split 3 - Coord	Enum	false	false	false	false	false	false	false	false
Split 4 - Mode	Enum	none	none	none	none	none	none	none	none
Split 4 - Time	Sec	0	0	0	0	0	0	0	0
Split 4 - Coord	Enum	false	false	false	false	false	false	false	false
Split 5 - Mode	Enum	none	none	none	none	none	none	none	none
Split 5 - Time	Sec	0	0	0	0	0	0	0	0
•				-					
plit 5 - Coord	Enum	false	false	false	false	false	false	false	false
Split 6 - Mode	Enum	none	none	none	none	none	none	none	none
plit 6 - Time	Sec	0	0	0	0	0	0	0	0
plit 6 - Coord	Enum	false	false	false	false	false	false	false	false
plit 7 - Mode	Enum	none	none	none	none	none	none	none	none
plit 7 - Time	Sec	0	0	0	0	0	0	0	0
plit 7 - Coord	Enum	false	false	false	false	false	false	false	false
plit 8 - Mode	Enum	none	none	none	none	none	none	none	none
plit 8 - Time	Sec	0	0	0	0	0	0	0	0
Split 8 - Coord	Enum	false	false	false	false	false	false	false	false
plit 9 - Mode	Enum	none	none	none	none	none	none	none	none
plit 9 - Time	Sec	0	0	0	0	0	0	0	0
plit 9 - Coord	Enum	false	false	false	false	false	false	false	false
plit 10 - Mode	Enum	none	none	none	none	none	none	none	none
plit 10 - Time	Sec	0	0	0	0	0	0	0	0
plit 10 - Coord	Enum	false	false	false	false	false	false	false	false
plit 11 - Mode	Enum	none	none	none	none	none	none	none	none
plit 11 - Time	Sec	0	0	0	0	0	0	0	0
Split 11 - Coord	Enum	false	false	false	false	false	false	false	false
plit 12 - Mode	Enum	none	none	none	none	none	none	none	none
plit 12 - Time	Sec	0	0	0	0	0	0	0	0
plit 12 - Coord	Enum	false	false	false	false	false	false	false	false
Split 13 - Mode	Enum	none	none	none	none	none	none	none	none
plit 13 - Time	Sec	0	0	0	0	0	0	0	0
Split 13 - Coord	Enum	false	false	false	false	false	false	false	false
plit 14 - Mode	Enum	none	none	none	none	none	none	none	none
plit 14 - Time	Sec	0	0	0	0	0	0	0	0
plit 14 - Coord	Enum	false	false	false	false	false	false	false	false
plit 15 - Mode	Enum	none	none	none	none	none	none	none	none
Split 15 - Time	Sec	0	0	0	0	0	0	0	0
plit 15 - Coord	Enum	false	false	false	false	false	false	false	false
Split 16 - Time	Sec	0	0	0	0	0	0	0	0
plit 16 - Mode	Enum	none	none	none	none	none	none	none	none
-									
Split 16 - Coord	Enum	false	false	false	false	false	false	false	false

TB ParamUnitsDaylight SavingEnumStandard Time ZoneSecPattern SyncSec

Value enableDaylightSavingNode -14400

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TB Schedule	Units	1	2	3	4	5	6	7	8
Month	Bit	JFMAMJJASOND	JFMAMJJASOND	0	0	J	-F	A	A
Day of Week	Bit	SS	-MTWTF-	0	0	SMTWTFS	-M	F-	-M
Day of Month	Bit	12345678901234	12345678901234	0	0	1	0-	44	77
			56789012345678						
		901	901						
Day Plan	Number	1	2	30	0	1	1	1	1

Signal Timing Report

B Schedule	Units	9	10	11	12	13	14	15	16
lonth	Bit	M	J	A	S	0	N-	D	D
ay of Week	Bit	-M	SMTWTFS	-M	-M	-M	SMTWTFS	SMTWTFS	SMTWTFS
ay of Month	Bit		2- 1	7	4	9	1		
-								5	-6
ay Plan	Number	1	1	1	1	1	1	1	1
B Dayplan	Units	1	2	3	4	5	6	7	8
an 1 Hour	Hour	0	8	22	0	0	0	0	0
lan 1 Minute	Min	1	0	30	0	0	0	0	0
lan 1 Action	Number	4	1	4	0	0	0	0	0
lan 2 Hour	Hour	0	6	9	15	18	22	0	0
an 2 Minute	Min	1	15	15	30	30	30	0	0
lan 2 Action	Number	4	2	1	2	1	4	0	0
an 3 Hour	Hour	0	0	0	0	0	0	0	0
an 3 Minute	Min	0	0	0	0	0	0	0	0
an 3 Action	Number	0	0	0	0	0	0	0	0
an 4 Hour	Hour	0	0	0	0	0	0	0	0
lan 4 Minute	Min	0	0	0	0	0	0	0	0
an 4 Action	Number	0	0	0	0	0	0	0	0
an 5 Hour	Hour	0	0	0	0	0	0	0	0
an 5 Minute	Min	0	0	0	0	0	0	0	0
lan 5 Action	Number	0	0	0	0	0	0	0	0
an 6 Hour	Hour	0	0	0	0	0	0	0	0
an 6 Minute	Min	0	0	0	0	0	0	0	0
an 6 Action	Number	0	0	0	0	0	0	0	0
lan 7 Hour	Hour	0	0	0	0	0	0	0	0
an 7 Minute	Min	0	0	0	0	0	0	0	0
lan 7 Action	Number	0	0	0	0	0	0	0	0
an 8 Hour	Hour	0	0	0	0	0	0	0	0
lan 8 Minute	Min	0	0	0	0	0	0	0	0
lan 8 Action	Number	0	0	0	0	0	0	0	0
B Dayplan	Units	9	10	11	12	13	14	15	16
an 1 Hour	Hour	0	0	0	0	0	0	0	0
lan 1 Minute	Min	0	0	0	0	0	0	0	0
an 1 Action	Number	0	0	0	0	0	0	0	0
lan 2 Hour	Hour	0	0	0	0	0	0	0	0
lan 2 Minute	Min	0	0	0	0	0	0	0	0
an 2 Action	Number	0	0	0	0	0	0	0	0
an 3 Hour	Hour	0	0	0	0	0	0	0	0
an 3 Minute	Min	0	0	0	0	0	0	0	0
an 3 Action	Number	0	0	0	0	0	0	0	0
an 4 Hour	Hour	0	0	0	0	0	0	0	0
an 4 Minute	Min	0	0	0	0	0	0	0	0
an 4 Action	Number	0	0	0	0	0	0	0	0
an 5 Hour	Hour	0	0	0	0	0	0	0	0
an 5 Minute	Min	0	0	0	0	0	0	0	0
an 5 Action	Number	0	0	0	0	0	0	0	0
an 6 Hour	Hour	0	0	0	0	0	0	0	0
an 6 Minute	Min	0	0	0	0	0	0	0	0
an 6 Action	Number	0	0	0	0	0	0	0	0
an 7 Hour an 7 Minuto	Hour Min	0	0	0	0	0	0	0	0
an 7 Minute	Min Number	0	0	0	0	0	0	0	0
an 7 Action	Number	0	0	0	0	0	0	0	0
an 7 Action		0	0	0	0	0	0	0	0
an 7 Action an 8 Hour an 8 Minute	Hour Min	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

Signal Timing Report

Region: Halifax		Signal ID:	027	Lo	cation: Bedfor	rd Hwy at Bayv	iew Rd		
Phase	Units	1 - NBLT	2 - SB	3	4 - EB	5	6 - NB	7	8
Valk	Sec	0	7	0	7	0	0	0	0
ed Clear	Sec	0	7	0	13	0	0	0	7
lin Green	Sec	7	12	5	7	7	12	5	5
assage	Sec	3.0	5.0	0.0	3.0	0.0	5.0	0.0	0.0
laximum 1	Sec	15	50	0	17	0	50	0	0
laximum 2	Sec	0	40	0	0	0	40	0	0
ellow Change	Sec	4.0	4.1	3.0	3.5	3.0	4.1	3.0	3.0
ed Clearance	Sec	0.0	1.7	1.0	2.5	1.0	1.7	1.0	1.0
ed Revert	Sec	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
dded Initial	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
lax Initial	Sec	0	0	0	0	0	0	0	0
ime Before	Sec	0	0	0	0	0	0	0	0
ars Before	Veh	0	0	0	0	0	0	0	0
ime To Reduce	Sec	0	0	0	0	0	0	0	0
educe By	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
lin Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nin Gap Nynamic Max Limit	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2] Start Up	Enum	phaseNotOn	0.0 yellowChange	0.0 phaseNotOn	0.0 phaseNotOn	0.0 phaseNotOn	o.o yellowChange	0.0 phaseNotOn	0.0 phaseNotOn
P2] Options	Bit	Enabled Non Lock Det	Enabled Auto Flash Exit Non Lock Det Min Veh Recall Ped Recall Dual Entry Act Rest In Walk	Non Lock Det	Enabled Auto Flash Entry Non Lock Det	Non Lock Det	Enabled Auto Flash Exit Non Lock Det Min Veh Recall Dual Entry	Non Lock Det	Non Lock De
2] Ring	Ring	1	1	0	1	0	2	0	0
2] Concurrency	Phase (,)	(6)	(6)	(0)	(0)	(0)	(1,2)	(0)	(0)
hase	Units	9	10	11	12	13	14	15	16
/alk	Sec	0	10	0	10	0	10	0	10
ed Clear	Sec	0	16	0	16	0	16	0	16
lin Green	Sec	5	5	5	5	5	5	5	5
assage	Sec	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
laximum 1	Sec	35	35	35	35	35	35	35	35
laximum 2	Sec	40	40	40	40	40	40	40	40
ellow Change	Sec	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
ed Clearance	Sec	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ed Revert	Sec	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
dded Initial	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
lax Initial	Sec	0.0	0	0.0	0.0	0.0	0	0.0	0.0
ime Before	Sec	0	0	0	0	0	0	0	0
ars Before	Sec Veh			0	0	0	0		
		0	0					0	0
me To Reduce	Sec	0	0	0	0	0	0	0	0
educe By	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
in Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ynamic Max Limit	Sec	0	0	0	0	0	0	0	0
ynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P2] Start Up	Enum	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn
P2] Options	Bit	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock De
P2] Ring	Ring	0	0	0	0	0	0	0	0



Signal Timing Report

Region: Halifax	ζ.	Signal ID:	027		Location: Bedford Hwy at Bayview Rd					
Coord Param Operational Mode Correction Mode Maximum Mode Force Mode	Units Enum Enum Enum Enum	Value Automatic shortway maxInhibit floating								
Coord Pattern Cycle Time Offset Split	Units Sec Sec Split	1 90 0 1	2 100 0 2	3 110 0 3	4 0 0 4	5 0 0 5	6 0 0 6	7 0 0 7	8 0 0 8	
Sequence Coord Pattern	Sequence Units	0 9	0 10	0 11	0 12	0 13	0 14	0 15	0 16	
Cycle Time Offset Split Sequence	Sec Sec Split Sequence	0 0 9 0	0 0 10 0	0 0 11 0	0 0 12 0	0 0 13 0	0 0 14 0	0 0 15 0	0 0 16 0	

Signal Timing Report

Region: Halifa	х	Signal II	D: 027		Location: Be	edford Hwy at E	Bayview Rd		
Coord Split	Units	1	2	3	4	5	6	7	8
Split 1 - Mode	Enum	none	none	none	none	none	none	none	none
Split 1 - Time	Sec	19	45	0	26	0	64	0	0
Split 1 - Coord	Enum	false	true	false	false	false	true	false	false
Split 2 - Mode	Enum	none	none	none	none	none	none	none	none
Split 2 - Time	Sec	13	61	0	26	0	74	0	0
Split 2 - Coord	Enum	false	true	false	false	false	true	false	false
Split 3 - Mode	Enum	none	none	none	none	none	none	none	none
Split 3 - Time	Sec	34	50	0	26	0	84	0	0
Split 3 - Coord	Enum	false	true	false	false	false	true	false	false
plit 4 - Mode	Enum	none	none	none	none	none	none	none	none
plit 4 - Time	Sec	0	0	0	0	0	0	0	0
plit 4 - Coord	Enum	false	false	false	false	false	false	false	false
•									
plit 5 - Mode plit 5 - Time	Enum	none 0	none 0	none 0	none 0	none 0	none 0	none 0	none 0
•	Sec								
plit 5 - Coord	Enum	false	false	false	false	false	false	false	false
plit 6 - Mode	Enum	none	none	none	none	none	none	none	none
plit 6 - Time	Sec	0	0	0	0	0	0	0	0
plit 6 - Coord	Enum	false	false	false	false	false	false	false	false
plit 7 - Mode	Enum	none	none	none	none	none	none	none	none
plit 7 - Time	Sec	0	0	0	0	0	0	0	0
plit 7 - Coord	Enum	false	false	false	false	false	false	false	false
plit 8 - Mode	Enum	none	none	none	none	none	none	none	none
plit 8 - Time	Sec	0	0	0	0	0	0	0	0
plit 8 - Coord	Enum	false	false	false	false	false	false	false	false
plit 9 - Mode	Enum	none	none	none	none	none	none	none	none
plit 9 - Time	Sec	0	0	0	0	0	0	0	0
plit 9 - Coord	Enum	false	false	false	false	false	false	false	false
plit 10 - Mode	Enum	none	none	none	none	none	none	none	none
plit 10 - Time	Sec	0	0	0	0	0	0	0	0
plit 10 - Coord	Enum	false	false	false	false	false	false	false	false
plit 11 - Mode	Enum	none	none	none	none	none	none	none	none
plit 11 - Time	Sec	0	0	0	0	0	0	0	0
plit 11 - Coord	Enum	false	false	false	false	false	false	false	false
plit 12 - Mode	Enum	none	none	none	none	none	none	none	none
plit 12 - Time	Sec	0	0	0	0	0	0	0	0
plit 12 - Coord	Enum	false	false	false	false	false	false	false	false
plit 13 - Mode	Enum	none	none	none	none	none	none	none	none
plit 13 - Time	Sec	0	0	0	0	0	0	0	0
plit 13 - Coord	Enum	false	false	false	false	false	false	false	false
plit 14 - Mode	Enum	none	none	none	none	none	none	none	none
plit 14 - Mode plit 14 - Time	Sec	0	0	0	0	0	0	0	0
plit 14 - Coord	Enum	false	false	false	false	false	false	false	false
plit 15 - Mode	Enum	none	none	none	none	none	none	none	none
plit 15 - Time	Sec	0	0	0	0	0	0	0	0
plit 15 - Coord	Enum	false	false	false	false	false	false	false	false
plit 16 - Time	Sec	0	0	0	0	0	0	0	0
plit 16 - Mode	Enum	none	none	none	none	none	none	none	none
Split 16 - Coord	Enum	false	false	false	false	false	false	false	false

Signal Timing Report

Time Generated: 2017-01-27 13:57:39

Region: Halifax

Signal ID: 027

Location: Bedford Hwy at Bayview Rd

Coord Split	Units	9	10	11	12	13	14	15	16
Split 1 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 1 - Time	Sec	0	0	0	0	0	0	0	0
Split 1 - Coord	Enum	false	false	false	false	false	false	false	false
Split 2 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 2 - Time	Sec	0	0	0	0	0	0	0	0
Split 2 - Coord	Enum	false	false	false	false	false	false	false	false
Split 3 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 3 - Time	Sec	0	0	0	0	0	0	0	0
Split 3 - Coord	Enum	false	false	false	false	false	false	false	false
Split 4 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 4 - Time	Sec	0	0	0	0	0	0	0	0
Split 4 - Coord	Enum	false	false	false	false	false	false	false	false
Split 5 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 5 - Time	Sec	0	0	0	0	0	0	0	0
Split 5 - Coord	Enum	false	false	false	false	false	false	false	false
Split 6 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 6 - Time	Sec	0	0	0	0	0	0	0	0
Split 6 - Coord	Enum	false	false	false	false	false	false	false	false
Split 7 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 7 - Time	Sec	0	0	0	0	0	0	0	0
Split 7 - Coord	Enum	false	false	false	false	false	false	false	false
Split 8 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 8 - Time	Sec	0	0	0	0	0	0	0	0
Split 8 - Coord	Enum	false	false	false	false	false	false	false	false
Split 9 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 9 - Time	Sec	0	0	0	0	0	0	0	0
Split 9 - Coord	Enum	false	false	false	false	false	false	false	false
Split 10 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 10 - Time	Sec	0	0	0	0	0	0	0	0
Split 10 - Coord	Enum	false	false	false	false	false	false	false	false
Split 11 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 11 - Time	Sec	0	0	0	0	0	0	0	0
Split 11 - Coord	Enum	false	false	false	false	false	false	false	false
Split 12 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 12 - Time	Sec	0	0	0	0	0	0	0	0
Split 12 - Coord	Enum	false	false	false	false	false	false	false	false
Split 12 - Coord Split 13 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 13 - Time	Sec	0	0	0	0	0	0	0	0
Split 13 - Coord	Enum	false	false	false	false	false	false	false	false
Split 14 - Mode	Enum	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 14 - Time	Sec	0	0	0	0	0	0	0	0
Split 14 - Coord	Enum	false	false	false	false	false	false	false	false
			phaseOmitted	phaseOmitted			phaseOmitted	phaseOmitted	
Split 15 - Mode	Enum	phaseOmitted 0	0	0	phaseOmitted 0	phaseOmitted 0	0	0	phaseOmitted 0
Split 15 - Time Split 15 - Coord	Sec				-				
•	Enum	false	false	false	false	false	false	false	false
Split 16 - Time	Sec	0 phaseOmitted	0 phaseOmitted	0 phaseOmitted	0 phaseOmitted	0 phaseOmitted	0 phaseOmitted	0 phaseOmitted	0 nhaaoOmittad
Split 16 - Mode	Enum	phaseOmitted	phaseOmitted false	phaseOmitted	phaseOmitted false	phaseOmitted	phaseOmitted	phaseOmitted	phaseOmitted
Split 16 - Coord	Enum	false	false	false	false	false	false	false	false

TB Param	Units
Daylight Saving	Enum
Standard Time Zone	Sec
Pattern Sync	Sec

Value 3 -14400

0

TB Schedule Units 2 3 4 8 1 5 6 7 JFMAMJJASOND JFMAMJJASOND 0 0 Month Bit 0 0 0 0 Day of Week Bit S-----S -MTWTF-0 0 0 0 0 0 12345678901234 12345678901234 0 Day of Month Bit 0 0 0 0 0 56789012345678 56789012345678 901 901 2 0 0 Day Plan 0 0 0 0 Number 1



Signal Timing Report

Region: Halifax		Signal ID	: 027		Location: Bedford Hwy at Bayview Rd					
TB Schedule	Units	9	10	11	12	13	14	15	16	
Month	Bit	0	0	0	0	0	0	0	0	
Day of Week	Bit	0	0	0	0	0	0	0	0	
Day of Month	Bit	0	0	0	0	0	0	0	0	
Day Plan	Number	0	0	0	0	0	0	0	0	
TB Dayplan	Units	1	2	3	4	5	6	7	8	
Plan 1 Hour	Hour	0	10	19	0	0	0	0	0	
Plan 1 Minute	Min	0	0	0	0	0	0	0	0	
Plan 1 Action	Number	5	1	5	0	0	0	0	0	
Plan 2 Hour	Hour	0	6	9	11	15	18	20	0	
Plan 2 Minute	Min	0	30	15	0	0	0	0	0	
Plan 2 Action	Number	5	2	4	1	3	1	5	0	
Plan 3 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 3 Minute	Min Numbor	0	0	0	0	0	0	0	0	
Plan 3 Action Plan 4 Hour	Number Hour	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
Plan 4 Minute	Min	0	0	0	0	0	0	0	0	
Plan 4 Action	Number	0	0	0	0	0	0	0	0	
Plan 5 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 5 Minute	Min	0	0	0	0	0	0	0	0	
Plan 5 Action	Number	0	0	0	0	0	0	0	0	
Plan 6 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 6 Minute	Min	0	0	0	0	0	0	0	0	
Plan 6 Action	Number	0	0	0	0	0	0	0	0	
Plan 7 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 7 Minute	Min	0	0	0	0	0	0	0	0	
Plan 7 Action	Number	0	0	0	0	0	0	0	0	
Plan 8 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 8 Minute	Min	0	0	0	0	0	0	0	0	
Plan 8 Action	Number	0	0	0	0	0	0	0	0	
	Unito	0	10	11	12	13	14	15	16	
TB Dayplan Plan 1 Hour	Units Hour	9 0	0	0	0	0	0	0	0	
Plan 1 Minute	Min	0	0	0	0	0	0	0	0	
Plan 1 Action	Number	0	0	0	0	0	0	0	0	
Plan 2 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 2 Minute	Min	0	0	0	0	0	0	0	0	
Plan 2 Action	Number	0	0	0	0	0	0	0	0	
Plan 3 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 3 Minute	Min	0	0	0	0	0	0	0	0	
Plan 3 Action	Number	0	0	0	0	0	0	0	0	
Plan 4 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 4 Minute	Min	0	0	0	0	0	0	0	0	
Plan 4 Action	Number	0	0	0	0	0	0	0	0	
Plan 5 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 5 Minute	Min	0	0	0	0	0	0	0	0	
Plan 5 Action	Number	0	0	0	0	0	0	0	0	
Plan 6 Hour Plan 6 Minute	Hour Min	0	0	0	0	0	0	0	0	
Plan 6 Minute Plan 6 Action	Min Number	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
Plan 6 Action Plan 7 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 7 Minute	Min	0	0	0	0	0	0	0	0	
	Number	0	0	0	0	0	0	0	0	
Plan 7 Action				~	~	0	0			
Plan 7 Action Plan 8 Hour		0	0	0	0	0	0	0	-	
Plan 7 Action Plan 8 Hour Plan 8 Minute	Hour Min	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	

Signal Timing Report

Phase	Units	1 - NBL	2 - SB	3	4 - EB	5	6 - NB	7	8
Valk	Sec	0	7	0	5	0	5	0	5
Ped Clear	Sec	0	18	0	7	0	7	0	7
lin Green	Sec	7	7	5	7	5	7	5	5
assage	Sec	1.0	0.5	5.0	1.0	5.0	0.5	5.0	5.0
laximum 1	Sec	10	58	35	14	35	58	35	35
laximum 2	Sec	40	40	40	40	40	40	40	40
ellow Change	Sec	4.0	4.1	3.0	3.5	3.0	4.1	3.0	3.0
ed Clearance	Sec	0.0	1.7	1.0	2.5	1.0	1.7	1.0	1.0
ed Revert	Sec	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
dded Initial	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ax Initial	Sec	0	0	0	0	0	0	0	0
ime Before	Sec	0	0	0	0	0	0	0	0
ars Before	Veh	0	0	0	0	0	0	0	0
ime To Reduce	Sec	0	0	0	0	0	0	0	0
educe By	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
in Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ynamic Max Limit	Sec	0	0	0	0	0	0	0	0
, ynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2] Start Up	Enum	phaseNotOn	yellowChange	phaseNotOn	phaseNotOn	phaseNotOn	yellowChange	phaseNotOn	phaseNotO
P2] Options	Bit	Enabled Non Lock Det	Enabled Auto Flash Entry Auto Flash Exit Non Lock Det Dual Entry	Non Lock Det	Enabled Non Lock Det	Non Lock Det	Enabled 0 Auto Flash Entry Auto Flash Exit Non Lock Det Dual Entry		0
2] Ring	Ring	1	1	0	1	0	2	0	0
2] Concurrency	Phase (,)	(6)	(6)	(0)	(0)	(0)	(1,2)	(0)	(0)
hase	Units	9	10	11	12	13	14	15	16
alk	Sec	0	10	0	10	0	10	0	10
ed Clear	Sec	0	16	0	16	0	16	0	16
in Green	Sec	5	5	5	5	5	5	5	5
assage	Sec	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
aximum 1	Sec	35	35	35	35	35	35	35	35
aximum 2	Sec	40	40	40	40	40	40	40	40
ellow Change	Sec	4.0	4.1	3.0	3.0	3.0	3.0	3.0	3.0
ed Clearance	Sec	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ed Revert	Sec	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
dded Initial	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ax Initial	Sec	0	0	0	0	0	0	0	0.0
ime Before	Sec	0	0	0	0	0	0	0	0
ars Before	Veh	0	0	0	0	0	0	0	0
me To Reduce	Sec	0	0	0	0	0	0	0	0
		0.0					0.0		
educe By	Sec		0.0	0.0	0.0	0.0		0.0	0.0
in Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ynamic Max Limit	Sec	0	0	0	0	0	0	0	0
ynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2] Start Up	Enum	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotOn	phaseNotO
P2] Options	Bit	0	0	0	0	0	0	0	0
				-	_	_			•
P2] Ring	Ring Phase (,)	0	0	0	0	0	0	0	0



Signal Timing Report

Region: Halifax		Signal ID:	460		Location:	Location: Bedford Hwy NS at Civic 50						
Coord Param	Units	Value										
Operational Mode Correction Mode Maximum Mode Force Mode	Enum Enum Enum Enum	Automatic shortway maxInhibit floating										
Coord Pattern	Units	1	2	3	4	5	6	7	8			
Cycle Time	Sec	90	100	110	0	0	0	0	0			
Offset	Sec	0	0	0	0	0	0	0	0			
Split	Split	1	2	3	4	5	6	7	8			
Sequence	Sequence	0	0	0	0	0	0	0	0			
Coord Pattern	Units	9	10	11	12	13	14	15	16			
Cycle Time	Sec	0	0	0	0	0	0	0	0			
Offset	Sec	0	0	0	0	0	0	0	0			
Split	Split	9	10	11	12	13	14	15	16			
Sequence	Sequence	0	0	0	0	0	0	0	0			

Signal Timing Report

Region: Halifax		Signal I	D: 460		Location: Be				
Coord Split	Units	1	2	3	4	5	6	7	8
Split 1 - Mode	Enum	none	none	none	none	none	none	none	none
plit 1 - Time	Sec	13	56	0	21	0	69	0	0
plit 1 - Coord	Enum	false	true	false	false	false	true	false	false
plit 2 - Mode	Enum	none	none	none	none	none	none	none	none
plit 2 - Time	Sec	13	63	0	24	0	76	0	0
plit 2 - Coord	Enum	false	true	false	false	false	true	false	false
plit 3 - Mode	Enum	none	none	none	none	none	none	none	none
olit 3 - Time	Sec	18	71	0	21	0	89	0	0
olit 3 - Coord	Enum	false	true	false	false	false	true	false	false
olit 4 - Mode	Enum	none	none	none	none	none	none	none	none
olit 4 - Time	Sec	0	0	0	0	0	0	0	0
olit 4 - Coord	Enum	false	false	false	false	false	false	false	false
olit 5 - Mode	Enum	none	none	none	none	none	none	none	none
olit 5 - Time	Sec	0	0	0	0	0	0	0	0
olit 5 - Coord	Enum	false	false	false	false	false	false	false	false
olit 6 - Mode	Enum	none	none	none	none	none	none	none	none
olit 6 - Time	Sec	0	0	0	0	0	0	0	0
olit 6 - Coord	Enum	false	false	false	false	false	false	false	false
olit 7 - Mode	Enum		none			none		none	none
olit 7 - Niode	Sec	none 0	0	none 0	none 0	0	none 0	0	0
blit 7 - Coord			-						
olit 8 - Mode	Enum	false	false	false	false	false	false	false	false
blit 8 - Time	Enum Sec	none	none 0	none 0	none 0	none 0	none 0	none 0	none 0
		0	-						
lit 8 - Coord	Enum	false	false	false	false	false	false	false	false
lit 9 - Mode	Enum	none	none 0	none 0	none	none 0	none	none 0	none 0
lit 9 - Time	Sec	0	-		0		0		
lit 9 - Coord	Enum	false	false	false	false	false	false	false	false
lit 10 - Mode	Enum	none	none	none	none	none	none	none	none
olit 10 - Time	Sec	0	0	0	0	0	0	0	0
olit 10 - Coord	Enum	false	false	false	false	false	false	false	false
olit 11 - Mode	Enum	none	none	none	none	none	none	none	none
olit 11 - Time	Sec	0	0	0	0	0	0	0	0
olit 11 - Coord	Enum	false	false	false	false	false	false	false	false
olit 12 - Mode	Enum	none	none	none	none	none	none	none	none
olit 12 - Time	Sec	0	0	0	0	0	0	0	0
olit 12 - Coord	Enum	false	false	false	false	false	false	false	false
olit 13 - Mode	Enum	none	none	none	none	none	none	none	none
olit 13 - Time	Sec	0	0	0	0	0	0	0	0
lit 13 - Coord	Enum	false	false	false	false	false	false	false	false
lit 14 - Mode	Enum	none	none	none	none	none	none	none	none
lit 14 - Time	Sec	0	0	0	0	0	0	0	0
lit 14 - Coord	Enum	false	false	false	false	false	false	false	false
lit 15 - Mode	Enum	none	none	none	none	none	none	none	none
lit 15 - Time	Sec	0	0	0	0	0	0	0	0
olit 15 - Coord	Enum	false	false	false	false	false	false	false	false
olit 16 - Time	Sec	0	0	0	0	0	0	0	0
olit 16 - Mode	Enum	none	none	none	none	none	none	none	none
olit 16 - Coord	Enum	false	false	false	false	false	false	false	false
Signal Timing Report

Time Generated: 2017-02-02 14:57:24

Region: Halifax

Signal ID: 460

Location: Bedford Hwy NS at Civic 50

Coord Split	Units	9	10	11	12	13	14	15	16
Split 1 - Mode	Enum	phaseOmitted							
Split 1 - Time	Sec	0	0	0	0	0	0	0	0
Split 1 - Coord	Enum	false							
Split 2 - Mode	Enum	phaseOmitted							
Split 2 - Time	Sec	0	0	0	0	0	0	0	0
Split 2 - Coord	Enum	false							
Split 3 - Mode	Enum	phaseOmitted							
Split 3 - Time	Sec	0	0	0	0	0	0	0	0
Split 3 - Coord	Enum	false							
Split 4 - Mode	Enum	phaseOmitted							
Split 4 - Time	Sec	0	0	0	0	0	0	0	0
Split 4 - Coord	Enum	false							
Split 5 - Mode	Enum	phaseOmitted							
Split 5 - Time	Sec	0	0	0	0	0	0	0	0
Split 5 - Coord	Enum	false							
Split 6 - Mode	Enum	phaseOmitted							
Split 6 - Time	Sec	0	0	0	0	0	0	0	0
Split 6 - Coord	Enum	false							
Split 7 - Mode	Enum	phaseOmitted							
Split 7 - Time	Sec	0	0	0	0	0	0	0	0
Split 7 - Coord	Enum	false							
Split 8 - Mode	Enum	phaseOmitted							
Split 8 - Time	Sec	0	0	0	0	0	0	0	0
Split 8 - Coord	Enum	false							
Split 9 - Mode	Enum	phaseOmitted							
Split 9 - Time	Sec	0	0	0	0	0	0	0	0
Split 9 - Coord	Enum	false							
Split 10 - Mode	Enum	phaseOmitted							
Split 10 - Time	Sec	0	0	0	0	0	0	0	0
Split 10 - Coord	Enum	false							
Split 11 - Mode	Enum	phaseOmitted							
Split 11 - Time	Sec	0	0	0	0	0	0	0	0
Split 11 - Coord	Enum	false							
Split 12 - Mode	Enum	phaseOmitted							
Split 12 - Time	Sec	0	0	0	0	0	0	0	0
Split 12 - Coord	Enum	false							
Split 13 - Mode	Enum	phaseOmitted							
Split 13 - Time	Sec	0	0	0	0	0	0	0	0
Split 13 - Coord	Enum	false							
Split 14 - Mode	Enum	phaseOmitted							
Split 14 - Time	Sec	0	0	0	0	0	0	0	0
Split 14 - Coord	Enum	false							
Split 15 - Mode	Enum	phaseOmitted							
Split 15 - Time	Sec	0	0	0	0	0	0	0	0
Split 15 - Coord	Enum	false							
Split 16 - Time	Sec	0	0	0	0	0	0	0	0
Split 16 - Mode	Enum	phaseOmitted							
Split 16 - Coord	Enum	false							

TB Param	Units
Daylight Saving	Enum
Standard Time Zone	Sec
Pattern Sync	Sec

Value 3 -14400

0

TB Schedule	Units	1	2	3	4	5	6	7	8
Month	Bit	JFMAMJJASONE	JFMAMJJASOND	0	0	0	0	0	0
Day of Week	Bit	SS	-MTWTF-	0	0	0	0	0	0
Day of Month	Bit	12345678901234 56789012345678 901	12345678901234 56789012345678 901	-	0	0	0	0	0
Day Plan	Number	1	2	0	0	0	0	0	0



Signal Timing Report

Time Generated: 2017-02-02 14:57:27

Region: Halifa:	x	Signal	ID: 460		Location: Bedford Hwy NS at Civic 50					
TB Schedule	Units	9	10	11	12	13	14	15	16	
Month	Bit	0	0	0	0	0	0	0	0	
Day of Week	Bit	0	0	0	0	0	0	0	0	
Day of Month	Bit	0	0	0	0	0	0	0	0	
Day Plan	Number	0	0	0	0	0	0	0	0	
TB Dayplan	Units	1	2	3	4	5	6	7	8	
Plan 1 Hour	Hour	0	10	19	0	0	0	0	0	
Plan 1 Minute	Min	0	0	0	0	0	0	0	0	
Plan 1 Action	Number	5	1	5	0	0	0	0	0	
Plan 2 Hour	Hour	0	6	9	11	15	18	20	0	
Plan 2 Minute	Min	0	30	15	0	0	0	0	0	
Plan 2 Action	Number	5	2	4	1	3	1	5	0	
Plan 3 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 3 Minute	Min	0	0	0	0	0	0	0	0	
Plan 3 Action	Number	0	0	0	0	0	0	0	0	
Plan 4 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 4 Minute	Min	0	0	0	0	0	0	0	0	
Plan 4 Action	Number	0	0	0	0	0	0	0	0	
Plan 5 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 5 Minute	Min	0	0	0	0	0	0	0	0	
Plan 5 Action	Number	0	0	0	0	0	0	0	0	
Plan 6 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 6 Minute	Min	0	0	0	0	0	0	0	0	
Plan 6 Action Plan 7 Hour	Number	0	0	0	0	0	0	0	0	
Plan 7 Minute	Hour Min	0	0	0 0	0	0	0	0	0	
Plan 7 Action	Number	0	0 0	0	0 0	0 0	0 0	0 0	0 0	
Plan 8 Hour	Hour	0 0	0	0	0	0	0	0	0	
Plan 8 Minute	Min	0	0	0	0	0	0	0	0	
Plan 8 Action	Number	0	0	0	0	0	0	0	0	
TB Dayplan	Units	9	10	11	12	13	14	15	16	
Plan 1 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 1 Minute	Min	0	0	0	0	0	0	0	0	
Plan 1 Action	Number	0	0	0	0	0	0	0	0	
Plan 2 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 2 Minute	Min	0	0	0	0	0	0	0	0	
Plan 2 Action	Number	0	0	0	0	0	0	0	0	
Plan 3 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 3 Minute	Min	0	0	0	0	0	0	0	0	
Plan 3 Action	Number	0	0	0	0	0	0	0	0	
Plan 4 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 4 Minute	Min	0	0	0	0	0	0	0	0	
Plan 4 Action Plan 5 Hour	Number Hour	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	
Plan 5 Hour Plan 5 Minute	Hour Min	0 0	0	0	0	0	0	0	0	
Plan 5 Action	Number	0	0	0	0	0	0	0	0	
Plan 6 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 6 Minute	Min	0	0	0	0	0	0	0	0	
Plan 6 Action	Number	0	0	0	0	0	0	0	0	
Plan 7 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 7 Minute	Min	0	0	0	0	0	0	0	0	
Plan 7 Action	Number	0	0	0	0	0	0	0	0	
Plan 8 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 8 Minute	Min	0	0	0	0	0	0	0	0	
Plan 8 Action	Number	0	0	0	0	0	0	0	0	



Inte	rsect	tion N	ame					Int	ersectio	on No.	Cont	troller S	erial No.	
Dur	brac	k @ L	.acev	vood				05	3		1271	50		
		er Ma				Mode	əl	Fir	rmware	Rev. No				
Eag	le					M51		3.3	33SEd					
_		.ocati	on	Dunbra	ck @) Lace	wood	Ph	one #	457-0	845			
								Revis	sion					
		Date				Desc	cription				1	Field Chg	Supervisor	Manager
NO	Υ	М	D								1	Ву	Approval	Approval
5	16	09	19	Implime	ent P	hase !	5 from 07	700 - 2100 V	Neekday	ys		WJH		
							F	PHASE DES	CRIPTIC	ON				
Ph1	Not	In Us	e					Ph	5 SB PF	<mark>Ի LT</mark> - Dւ	Inbrack	St		
		Dunk						PH	6 NB - C)unbrac	k St			
Ph3	EB F	PP LT	- La	cewood	Dr				7 Not In					
Ph4	WB	- Lace	ewoo	od Dr				Ph	3 EB - L	.acewoo	d Dr			
							UTILII	TIES - CON	FIGURE	PORTS			* 2 - 8 - 3	
Con				etup For		2&3								
	Bau	d Rate)		:	9600								
						I	PHASE D	OATA - VEH	ICLE TII	MINGS			* 3 - 1	
Bas	ic Tin	nings		Pha	ise:	1	2	3	4	5	6	7	8	
				n	:	0	<u>15</u>	7	7	7	15	0	7	_
	Pass	sage 1	Time	/10	:	0	20	20	20	20	20	0	20	_
Maximum No 1 : 0 35 10 40 20 35 0 40										_	_			
	Max	imum	No 2		:	0	25	0	30	30	25	0	30	_
				/10	:	0	46	40	41	40	46	0	41	_
	Red	Clear	ance	/10		0	19	0	26	0	19	0	26	
					PH.	ASE D	ATA - PE	DESTRIAN		SS & CO	NTROL		* 3 - 3	
										_		_	-	
Ped		an Tim		Pha	ise:	1	2	3	4	5	6	7	8	
					:	0	7	0	7	0	7	0	7	_
				arance.	:	0	15	0	20	0	15	0	20	_
	Act I	Rest li	n Wa	lk	:	0	1	0	0	0	1	0	0	_
								Control Entr						
							PHASE	DATA - GEI	NERAL	CONTRO)L		* 3 - 4	
Ger		Contro	_	Pha		1	2	3	4	5	6	7	8	
						0	3	1	1		3	0	1	_
	Non	-Act R	espo	nse	:	0	2	0	1	0	2	0	1	_
						-		EHICLE AN		-		-	* 3 - 5	
				Pha	ise:	1	2	3	4	5	6	7	8	
					:	0	2	0	0	0	2	0	0	-
				all	:	0	0	0	0	0	0	0		_
	Reca	all Del	ay (S	SEC)	:	0	0	0	0	0	0	0	0	_
_										-	-			
Cod					:	-	0	1		2	3		4	
					:		ONE	INACTIVE		ED	YELLO		GREEN	
				nse	:		ONE	TO NA I		NA II	TO BOT			
					:		ONE	1 CALL		MUM	MAXIMU	JM	SOFT	
	Pede	estriar	n Red	all	:		ONE	1 CALL		ED	NA		NA+	
						ľ		ATA - VEH		NITPOL	9		* 3 - 6	
							PRASE L						3-0	
Veh		Contro		Pha	ise:	1	2	3	4	5	6	7	8	
√eh				Pha ory	ise: :							7 0		

Vehicle Control Entry: "1"=Yes & "0"=No

Controller Make Model Firmware Rev. No. Eagle M51 3.33SEd	Controller Serial No. 127150			
.				
PHASE DATA - SEQUENCE CONTROL * 3 - 7				
Phase: 1 2 3 4 5 6 7 8 Phase Omit : 0 0 4 0 6 0 0 0				
Phase - Yellow : 0 0 0 0 0 0 0 0 0				
PHASE DATA - VEHICLE DETECTOR CONTROL * 3 - 8				
Det Channel : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16				
Phase: 6 0 3 4 5 0 4 8 5 2 6 6 Switch: 8 2 2				
Ext (sec): 0 0 0 0				
UNIT DATA - START UP & MISC. * 4 - 1				
Startup Time : <u>5</u> Time in Seconds				
Startup State : 0 0-Flash 1-Red Red Revert /10 : 40 Time In Tenth Second				
Auto Pedestrian Clear : 0 0-No 1-Yes				
Stop Time Reset : 0 0-No 1-Yes				
Alternate Sequence : 0 00-15 Alt Sequence ##				
UNIT DATA - OVERLAPS * 4 - 3 Overlaps A B C D E F G H J K L M O P				
Phase(s) 3 5				
Phase(s)				
COORD DATA - MODE * 5 - 1				
Control Codes: 0 1 2 3 4 Operation 1 FRE AUT MAN	5			
Mode : 0 PRM YLD PYL POM SOM	FAC			
Maximum : 0 INH MX1 MX2				
Correction : <u>3</u> DW MDW SWY SW+				
Offset (?? Of Green) 0 BEGIN END OF GREEN Force 0 PLAN CYCLE TIME				
Max Dwell Time : 0 Time In Seconds				
Yield Period : 0 Time In Seconds				
Manual Dial (dial/split/offset) 1/ 1/ 1				
COORD DATA - TIMING PLANS * 5 - 3 Control Timing Plan : D1/S1 D2/S1 D3/S1 D4/S1				
	D4/S2			
	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7 Phase 03 Time/Mode/LPM EBLT 13/0 0/6 12/0	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7 Phase 03 Time/Mode/LPM EBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM BBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM BBLT 12/6 24/0 12/6 Phase 05 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 06 Time/Mode/LPM NB 29/7 31/7 31/7	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7 Phase 03 Time/Mode/LPM EBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM BBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM BBLT 12/6 24/0 12/6 Phase 05 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 06 Time/Mode/LPM NB 29/7 31/7 31/7 Phase 07 Time/Mode/LPM 0/0 0/0 0/0	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6	D4/S2			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7 Phase 03 Time/Mode/LPM EBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM EBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 05 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 06 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 06 Time/Mode/LPM NB 29/7 31/7 31/7 Phase 07 Time/Mode/LPM BB 44/1 40/1 47/1 Offset 1 : 72 8 82 Offset 1 Pattern Mode :	D4/S2			
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6	D4/S2			
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7 Phase 03 Time/Mode/LPM EBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM EBLT 13/0 0/6 12/0 Phase 04 Time/Mode/LPM BBLT 12/6 24/0 12/6 Phase 05 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 05 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 06 Time/Mode/LPM SBLT 12/6 24/0 12/6 Phase 06 Time/Mode/LPM NB 29/7 31/7 31/7 Phase 07 Time/Mode/LPM EB 44/1 40/1 47/1 Offset 1 72 8 82 Offset 1 Pattern Mode Offset 2 Pattern Mode	D4/S2			
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6	D4/S2			
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6				
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6				
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6				
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6				
Cycle Length				
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6				
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6				
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6				
Cycle Length				
Cycle Length : 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6	Phase			
Cycle Length	Phase			
Cycle Length	Phase			
Cycle Length 85 95 90 Phase 01 Time/Mode/LPM 0/0 0/0 0/6 1 Phase 02 Time/Mode/LPM SB 40/7 55/7 43/7 1 Phase 03 Time/Mode/LPM EBLT 13/0 0/6 12/0 1 Phase 04 Time/Mode/LPM WB 32/1 40/1 35/1 1 Phase 05 Time/Mode/LPM SBLT 12/6 24/0 12/6 1 Phase 05 Time/Mode/LPM NB 29/7 31/7 31/7 1 1 Phase 06 Time/Mode/LPM NB 29/7 31/7 31/7 1 1 Phase 06 Time/Mode/LPM BE 44/1 40/1 47/1 1	Phase			

	ction Nam			Intersection No.	Controller Serial No.
	ack @ Lace oller Make	ewood	Model	053 Firmware Rev. No.	127150
Eagle	oller Make		M51	3.33SEd	
				A - TRAFFIC EVENT	S * 6 - 3
DAY					Refer to phase function
PDAY	TIME				mapping.
	HH:MM	PATTERN	1 2 3 4 5	PHASE FUNCTION	
01	00:01		0 1 0 1 0	1 0 1 0	
01	11:00	1/1/1	0 0 0 0 0	0 0 0	
01	18:00		0 1 0 1 0	1010	
02	00:00	2/4/4	0 1 0 1 0 0 0 0 0 0		
02	<u>07:00</u> 09:15	<u>2/1/1</u>	0 0 0 0 0 0 1 0 1 0	<u> 0 0 </u>	
02	11:00	1/1/1	0 0 0 0 0		
02	15:45	3/1/1	0 0 0 0 0	0 0 0	0 0 0 0 0 0 0
02	18:00		0 0 0 0 0	0 0 0	
02	21:00		<u>0 1 0 1 0</u> 0 1 0 1 0	<u> 1 0 1 </u>	
<u>07</u> 07	<u>00:01</u> 10:00	3/1/1	0 1 0 1 0 0 0 0 0 0	<u> 1 0 1 </u>	
07	18:00	<u>0/1/1</u>	0 1 0 1 0		
			2 - Enables		PATTERN: (D/S/O)
		1-99 Program 24 Hour Clock			Flash - 5/5/0 Free - 0/0/4
		24 Hour Clock	DIM - Dimm S 1> - Speci	ng Enable al Function Output	Pree - 0/0/4 Phase Functions: Call Free
	D.123 - D		ALL - 0 - OF		Set Pattern to 0/0/0
	1 - Det D	iag Value			
				TIME OF YEAR EVE	NTS * 6 - 5
DATE		SPECIAL	DATE	SPECIAL	
MM/DD	/γγ e <mark>ar's Day</mark>	DAY WEEK 01	MM/DD/YY 01/01/		eference Data: becial Day -
Good F		01	07/01/	<u>1</u> 0	Any Program Day 00-99
Victoria		01	11/11/		becial Week -
Canada		01	12/25/	<u>1</u>	Week 0 = Program Day 01-07
Civic D	-	01	12/26/	<u> </u>	Week 1 = Program Day 11-17
Labour	sgiving	01		<u> </u>	Week 2 = Program Day 21-27
	nas Day	01	-		Week 9 = Program Day 91-97
Boxing		01	-		
			TIME BASE DATA - P	HASE FUNCTION MA	
Functio	on Name		1 2 3 4 5	6789	Refer To Traffic Events 0 10 11 12 13 14 15 16
PH	IS 01 MAX	#2	1 2 3 4 5		
	IS 02 MAX		0 1 0 0 0		
	IS 03 MAX		0 0 1 0 0	0 0 0	
	IS 04 MAX		0 0 0 1 0	<u> </u>	
	IS 05 MAX IS 06 MAX		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<u> 0 0 </u>	
	IS 00 MAX				
	IS 08 MAX		0 0 0 0 0	0 0 1 0	
				0 - OFF / 1 - ON	
			TIME BASE DATA - P	HASE FUNCTION MA	
Functio	on Name		1 2 3 4 5	6789	Refer To Traffic Events 0 10 11 12 13 14 15 16
PH	IS 01 PHS	OMIT :			
	IS 02 PHS		0 0 0 0 0		
	IS 03 PHS		0 0 0 0 0	0 0 0	
	IS 04 PHS		0 0 0 0 0	0 0 0 0	
	IS 05 PHS				
	IS 06 PHS		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<u> </u>	
	IS 07 PHS				
				0 - OFF / 1 - ON	

ersection Name				Intersect	tion No.	Controller Serial No. 127150
ontroller Make	Mode				e Rev. No.	
gle	M51			3.33SEd		
				DATA - AL	L DATA	
Ring Times	1	2	3	4		* 7 - 1
MIN GRN/WLK	7		7 ח דפו	7 ATA - PRI		* 7 - 2
INTERVAL TIMES		FNEEW				*7-2-2
NOTE: All setti	ngs progra	ammed to	"0" ex	cept the f	ollowing	
SEL PED	CLR	16		TRK GRI	EEN 1	
DWELL G	REEN	5		EXIT PH	2,6	
VEHICLE STATUS	4	0 0 4	~	0 7	0	* 7 - 2 - 3
TRK GRN		234 000	-	67 00	8 0	
DWELL		100		0 0	0	
	CO	DES: 0 - 0	DFF /	1 - ON		
OVERLAP STATUS	-	JKL	Μ	ΝΟ	Р	* 7 - 2 - 5
TRK GRN		0 0 0		0 0	0	
DWELL						
CODE	5. U-RED;	1-GRN; 2-F PREEN		ATA - PRI		* 7 - 3
INTERVAL TIMES						*7-3-2
NOTE: All setti	ngs progra	ammed to	"0" ex	cept the f	ollowing	
SEL PED	CLR	0		•	Ũ	
DWELL G	REEN	0				
VEHICLE STATUS			_			* 7 - 3 - 3
TRK GRN		234 000	-	6 7 0 0	8 0	
DWELL		0 0 0		0 0	0	
011222		DES: 0 - 0			<u> </u>	
OVERLAP STATUS	Ι,	JKL	Μ	ΝΟ	Р	* 7 - 3 - 5
TRK GRN		0 0 0		0 0	0	
DWELL	_			0 0		
CODE	5. U-RED,	1-GRN; 2-F		ATA - GE		* 8 - 1
Local Address	0	00		e Digits (* 8 - 1 - 1
Revert To Backup		15			ites (000-255	• • •
An address other than "000						-
	SYSTE	M DATA -	VEH	DETECTO	or diagno	STICS * 8 - 3 - 1 -1
<u>NLUE 0</u>			-	0 7	0 0 10	
Detector : Max Presence :		2 3 4 0 0 0	<u>5</u>	<u>6 7</u>	8 9 10 0 0 0	
No Activity		000		0 0	0 0 0	
Erratic Counts		0 0 0		0 0	0 0 0	0 0 0 0 0 0
<u>LUE 0</u> Ped Detector : Max Processo	1	2	3	4	<u>5</u>	$\frac{6}{2}$ $\frac{7}{2}$ $\frac{8}{2}$
Max Presence : No Activity :	0	0	0	<u> </u>	0	$\begin{array}{c c} 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} \begin{array}{c} 0 \\ \hline 0 \\ \hline \end{array} \begin{array}{c} 0 \\ \hline 0 \\ \hline \end{array}$
Erratic Counts	0	0	0	- 0	<u> </u>	
				- <u> </u>		
Notes:						
To Flash Gree 1. TBC			a aati	vata "Alt C	Soqueres 6	15 Elash Groon Phase
	Jata - Spe t column c		J, acti	vale All S	sequence o-	15 Flash Green Phase
			ırn on	required o	overlaps (pha	ase 1=I; phase 3=K;
	e 5=M; pha	•				
						equired phases in first
					=phase 5; 14	
		nnel Outp propriate p			column only	, select appropriate
Comments:	ihe ini ah	propriate p	114565			
						to
Authorized Signature:					Da	te:

Signal Timing Report

Time Generated: 2017-09-11 14:02:53

Wate Parcial Parc	Region: Halifax		Signal ID: 0	90	Loc	cation: Lacew	rood Dr E at Bay	yview Rd		
Ped ClassSec0010000PassageSec00000000PassageSec000000000Maximun 1Sec0000000000Maximun 2Sec00100000000Maximun 2Sec001000 <t< th=""><th>Phase</th><th>Units</th><th>1</th><th><mark>2</mark> - E/W</th><th>3</th><th><mark>4</mark> - N/S</th><th>5</th><th>6</th><th>7</th><th>8</th></t<>	Phase	Units	1	<mark>2</mark> - E/W	3	<mark>4</mark> - N/S	5	6	7	8
Nin GenSec0000000000Maximun1Sec000000000Maximun2Sec0000000000Maximun2Sec001000<	Walk	Sec	0	10	0	8	0	0	0	0
PassageSec.0.00.00.00.00.00.00.00.0Mardimu ASoc.0.00.00.00.00.00.00.00.0Mardimu ASoc.0.01.01.01.00.00.00.00.00.0Red ClearanceSoc.0.0<	Ped Clear	Sec	0	9	0	14	0	0	0	0
Maximunal Maximunal Maximunal Maximunal Maximunal Maximunal Sec00000000Yellow Change Red Clearance MaximulaSec1.01.51.01.81.02.0	Min Green	Sec	0	10	0	10	0	0	0	0
Maximund Maximund Maximund MaximundSeed00	Passage	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximu2Sec000000000Red ClearanceSec3.044.143.044.143.044.043.04Red ClearanceSec0.02.02.02.02.02.02.02.0Kede InitialSec0.0	•		0							0
Yeilow CanageSee:3.04.13.04.13.04.04.03.03.0Red ClearanceSec:1.01.51.01.81.02.0 <td></td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td></td> <td>0</td>			0		0			0		0
Red GenomeSeed1.01.61.01.61.01.00.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.0</td>										4.0
Red RevirtSec:2.02.02.02.02.02.02.02.02.02.02.02.02.02.02.02.03.0 </td <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.0</td>	-									2.0
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Max hind Time Before Sec:Sec:OOOOOOOOCars Before Cars Before Cars BeforeVenOOO										0.0
Time Borkor Cars Belore VenioSec:00000000Cars Belore Cars Belore WenioSec:000000000Reduce By Reduce By Sec:000.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td>										0
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Reduce by Min Gap Dynamic Max Limi Sec0.0										0
Min GapSec0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.0</td></t<>										0.0
Dynamic Max Limit Optimie Max SeeSee0.00.00.00.00.00.00.0P[2] Start Up [F2] Start Up [F2] Start Up [F2] OptionsSee0.0<	•									
Dynamic Max Step [P2] Start Up [P2] OptionsSec0.00.	•									0.0
P2] Start Up [P2] OptionsEnum BitphaseNotOn Non Lock Det Sim Gap Disable Sim Gap Disable Sim Gap Disable Ped Recall Ped										0
[P2] OptionsBitNon Lock Det Sim Gap DisableNon Lock Det Auto Flash Exit Non Lock Det Max Ven Recall Ped Recall Sim Gap DisableNon Lock Det Max Per Recall Sim Gap DisableNon Lock Det Sim Gap DisableNon Lock Det Sim Gap DisableNon Lock Det Max Per Recall Ped Recall Sim Gap DisableNon Lock Det Max Per Recall Sim Gap DisableNon Lock Det Max Per Recall Ped Recall Sim Gap DisableNon Lock Det Max Per Per Recall Sim Gap DisableNon Lock Det Max Per										0.0
Sim Gap DisableAuto Flash Exit Max Veh Recall Ped Recall Ped Recall Ped Recall Ped Recall Sim Gap DisableSim Gap Disable Non Lock Det Max Veh Recall Ped Recall Sim Gap DisableSim Gap Disable DisableSim Gap DisableSim Gap Disa				-	•		•	•	•	phaseNotOn
[P2] Ring [P2] Concurrency Ring Phase (.) 0 1 0 1 0 0 0 [P2] Concurrency Phase (.) 0 0 0 0 0 0 0 0 0 0 0 0 0 Phase Units 9 10 11 12 13 14 15 Phase Sec 0 7 0 7 0 0 0 Ped Clear Sec 0 15 0 15 0 15 0 0 15 0 0 15 0	[P2] Options	Bit		Auto Flash Exit Non Lock Det Max Veh Recall Ped Recall		Auto Flash Entry Non Lock Det Max Veh Recall Ped Recall		Sim Gap		Non Lock Det Sim Gap Disable
PhaseUnits9101112131415WalkSec070700Ped ClearSec0150150150Min GreenSec4154154154PassageSec2.05.02.05.02.02.0Maximum 1Sec15451545154515Maximum 2Sec15451545154515Yellow ChangeSec3.04.03.04.03.04.03.0Red ClearanceSec1.02.01.02.01.02.01.0Red ClearanceSec0.00.00.00.00.00.00.0Red ClearanceSec0.00.00.00.00.00.00.0Red ClearanceSec0.00.00.00.00.00.00.00.0Red RevertSec0.00.00.00.00.00.00.00.00.00.0Red RevertSec0.00.00.00.00.00.00.00.00.00.0Red RevertSec0.0	[P2] Ring	Ring	0	1	0	1	0	0	0	0
WalkSec0707070Ped ClearSec0150150150Min GreenSec4154154154PassageSec2.05.02.05.02.05.02.0Maximum 1Sec15451545154515Maximum 2Sec15451545154515Yellow ChangeSec3.04.03.04.03.04.03.0Red ClearanceSec1.02.01.02.01.02.02.0Red RevertSec0.00.00.00.00.00.00.0Max InitialSec0.00.00.00.00.00.00.0Time To ReduceSec0.00.00.00.00.00.00.0Red RevertSec0.00.00.00.00.00.00.0Time To ReduceSec0.00.00.00.00.00.00.0Red RevertSec0.00.00.00.00.00.00.0Time To ReduceSec0.00.00.00.00.00.00.0Dynamic Max LimitSec0.00.00.00.00.00.00.0Dynamic Max StepSec0.00.00.00.0 <t< td=""><td>[P2] Concurrency</td><td>Phase (,)</td><td>0</td><td>()</td><td>0</td><td>()</td><td>()</td><td>()</td><td>()</td><td>()</td></t<>	[P2] Concurrency	Phase (,)	0	()	0	()	()	()	()	()
WalkSec0707070Ped ClearSec0150150150Min GreenSec4154154154PassageSec2.05.02.05.02.05.02.0Maximum 1Sec15451545154515Maximum 2Sec15451545154515Yellow ChangeSec3.04.03.04.03.04.03.0Red ClearanceSec1.02.01.02.01.02.02.0Red RevertSec0.00.00.00.00.00.00.0Max InitialSec0.00.00.00.00.00.00.0Time To ReduceSec0.00.00.00.00.00.00.0Red RevertSec0.00.00.00.00.00.00.0Time To ReduceSec0.00.00.00.00.00.00.0Red RevertSec0.00.00.00.00.00.00.0Time To ReduceSec0.00.00.00.00.00.00.0Dynamic Max LimitSec0.00.00.00.00.00.00.0Dynamic Max StepSec0.00.00.00.0 <t< td=""><td>Phase</td><td>Units</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></t<>	Phase	Units	9	10	11	12	13	14	15	16
Ped ClearSec01501501500Min GreenSec4154154154PassageSec2.05.02.05.02.05.02.02.0Maximun 1Sec154515451545154515Maximun 2Sec154515451545154515Yellow ChangeSec3.04.03.03.03.03.03.03.03.03.03.03.03.03.03.03.03.0<										7
Min GreenSec4154154154PasageSec2.05.02.05.02.05.02.02.0Maximun 1Sec154515451545154515Maximun 2Sec154515451545151516Yellow ChangeSec104.0104.03.04.03.03.01.01.02.01.03.01.03.01.03.										, 15
PasaageSec2.05.02.05.02.05.02.05.02.02.02.02.02.02.02.02.03.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
Maximum 1Sec154515451545154515Maximum 2Sec154515451545154515Yellow ChangeSec3.04.03.04.03.04.03.03.0Red ClearanceSec1.02.01.02.01.02.01.03.0Red ClearanceSec2.02.02.02.02.02.02.02.02.02.0Red RevertSec2.00.0 <t< td=""><td>_</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>15</td></t<>	_				-					15
Maximum2Sec15451545154515451545154515451615151615161516 <th< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.0</td></th<>	-									5.0
Yellow ChangeSec3.04.03.04.03.04.03.03.04.03.03.04.03.03.04.03.03.04.03.03.04.03.03.04.03.03.04.03.04.03.03.04.03.03.04.03.03.04.03.03.04.03.03.04.03.0<										45
Red ClearanceSec1.02.01.02.01.02.01.02.01.0Red RevertSec2.02.02.02.02.02.02.02.02.0Added InitialSec0.00.00.00.00.00.00.00.0Max InitialSec0.00.00.00.00.00.00.00.0Time BeforeSec000000000Cars BeforeVeh0000000000Time To ReduceSec0.0										45
Red RevertSec2.02.02.02.02.02.02.02.02.0Added InitialSec0.00.00.00.00.00.00.00.0Max InitialSec00.00.00.00.00.00.00.00.0Time BeforeSec00.0 <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.0</td>	-									4.0
Added InitialSec0.00.00.00.00.00.00.0Max InitialSec00000000Time BeforeSec000000000Cars BeforeVeh0000000000Cars BeforeVeh00000000000Time To ReduceSec000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.0</td>										2.0
Max InitialSec00000000Time BeforeSec0000000000Cars BeforeVeh00										2.0
Time BeforeSec00000000Cars BeforeVeh0000000000Time To ReduceSec00 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td>										0.0
Cars BeforeVeh00000000Time To ReduceSec0000000000Reduce BySec0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td>										0
Time To ReduceSec0000000Reduce BySec0.00.00.00.00.00.00.00.0Min GapSec0.00.00.00.00.00.00.00.00.0Dynamic Max LimitSec00.00.00.00.00.00.00.00.0Dynamic Max StepSec0.00.00.00.00.00.00.00.00.0Dynamic Max StepSec0.00.00.00.00.00.00.00.00.0Dynamic Max StepSec0.00.00.00.00.00.00.00.00.0[P2] Start UpEnumphaseNotOn <t< td=""><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td>0</td></t<>						0				0
Reduce By Min GapSec0.00.00.00.00.00.00.0Min GapSec0.00.00.00.00.00.00.00.0Dynamic Max LimitSec000000000Dynamic Max StepSec0.00.00.00.00.00.00.00.00.0Dynamic Max StepSec0.00.00.00.00.00.00.00.00.0[P2] Start UpEnumphaseNotOnphaseNotO		Veh	0	0		0				0
Min GapSec0.00.00.00.00.00.00.0Dynamic Max LimitSec00000000Dynamic Max StepSec0.00.00.00.00.00.00.00.0Dynamic Max StepSec0.00.00.00.00.00.00.00.0[P2] Start UpEnumphaseNotOn	Time To Reduce		0	0	0	0	0	0	0	0
Dynamic Max LimitSec00000000Dynamic Max StepSec0.00.00.00.00.00.00.00.00.0[P2] Start UpEnumphaseNotOnphas	Reduce By	Sec	0.0	0.0	0.0	0.0	0.0		0.0	0.0
Dynamic Max StepSec0.00.00.00.00.00.00.00.0[P2] Start UpEnumphaseNotOn	Min Gap	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
[P2] Start UpEnumphaseNotOnphaseNotOnphaseNotOnphaseNotOnphaseNotOnphaseNotOn[P2] OptionsBitNon Lock DetNon Lock DetNon Lock DetNon Lock DetNon Lock DetNon Lock DetNon Lock Det[P2] OptionsBitNon Lock DetNon Lock DetNon Lock DetNon Lock DetNon Lock DetNon Lock DetSim Gap DisableSim Gap DisableSim Gap DisableSim Gap DisableSim Gap DisableSim Gap DisableDisable	Dynamic Max Limit	Sec	0	0	0	0	0	0	0	0
[P2] Start UpEnumphaseNotOnphaseNotOnphaseNotOnphaseNotOnphaseNotOnphaseNotOnphaseNotOn[P2] OptionsBitNon Lock DetNon Lock DetSim Gap DisableSim Gap DisableSim Gap DisableSim Gap DisableSim Gap DisableSim Gap Disable	Dynamic Max Step	Sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det	Non Lock Det Sim Gap	Non Lock Det	phaseNotOn Non Lock Det Sim Gap Disable
	[P2] Rina	Rina	0	0	0	0	0		0	0
[P2] Concurrency Phase (,) ()										0



Signal Timing Report

Time Generated: 2017-09-11 14:03:00

Region: Halifax		Signal ID:	090	I	Location:	Lacewood Dr E at E	Bayview Rd		
Coord Param	Units	Value							
Operational Mode Correction Mode Maximum Mode Force Mode	Enum Enum Enum Enum	Automatic shortway maxInhibit fixed							
Coord Pattern	Units	1	2	3	4	5	6	7	8
Cycle Time	Sec	70	80	80	60	0	0	0	0
Offset	Sec	0	0	0	0	0	0	0	0
Split	Split	1	2	3	4	5	1	1	1
Sequence	Sequence	1	1	1	1	1	1	1	1
Coord Pattern	Units	9	10	11	12	13	14	15	16
Cycle Time	Sec	0	0	0	0	0	0	0	0
Offset	Sec	0	0	0	0	0	0	0	0
Split	Split	1	1	1	1	1	1	1	1
Sequence	Sequence	1	1	1	1	1	1	1	1

Signal Timing Report

Time Generated: 2017-09-11 14:03:03

Coord Split	Units	1	2	3	4	5	6	7	8
Split 1 - Mode	Enum	none	8	none	pedRecall	none	none	none	none
Split 1 - Time	Sec	0	42	0	28	0	0	0	0
Split 1 - Coord	Enum	false	true	false	false	false	false	false	false
Split 2 - Mode	Enum	none	8	none	pedRecall	none	none	none	none
Split 2 - Time	Sec	0	50	0	30	0	0	0	0
Split 2 - Coord	Enum	false	true	false	false	false	false	false	false
Split 3 - Mode	Enum	none	8	none	pedRecall	none	none	none	none
Split 3 - Time	Sec	0	45	0	35	0	0	0	0
plit 3 - Coord	Enum	false	true	false	false	false	false	false	false
Split 4 - Mode	Enum	none	8	none	pedRecall	none	none	none	none
Split 4 - Time	Sec	0	33	0	27	0	0	0	0
plit 4 - Coord	Enum	false	true	false	false	false	false	false	false
plit 5 - Mode	Enum	none	pedRecall	none	pedRecall	none	none	none	none
plit 5 - Time	Sec	0	0	0	0	0	0	0	0
plit 5 - Coord	Enum	false	false	false	false	false	false	false	false
Split 6 - Mode	Enum	none	none	none	none	none	none	none	none
plit 6 - Time	Sec	0	0	0	0	0	0	0	0
Split 6 - Coord	Enum	false	false	false	false	false	false	false	false
plit 7 - Mode	Enum	none	none	none	none	none	none	none	none
plit 7 - Time	Sec	0	0	0	0	0	0	0	0
•								-	
plit 7 - Coord	Enum	false	false	false	false	false	false	false	false
Split 8 - Mode	Enum	none	none	none	none	none	none	none	none
plit 8 - Time	Sec	0	0	0	0	0	0	0	0
Split 8 - Coord	Enum	false	false	false	false	false	false	false	false
plit 9 - Mode	Enum	none	none	none	none	none	none	none	none
plit 9 - Time	Sec	0	0	0	0	0	0	0	0
plit 9 - Coord	Enum	false	false	false	false	false	false	false	false
plit 10 - Mode	Enum	none	none	none	none	none	none	none	none
plit 10 - Time	Sec	0	0	0	0	0	0	0	0
plit 10 - Coord	Enum	false	false	false	false	false	false	false	false
plit 11 - Mode	Enum	none	none	none	none	none	none	none	none
Split 11 - Time	Sec	0	0	0	0	0	0	0	0
Split 11 - Coord	Enum	false	false	false	false	false	false	false	false
plit 12 - Mode	Enum	none	none	none	none	none	none	none	none
plit 12 - Time	Sec	0	0	0	0	0	0	0	0
plit 12 - Coord	Enum	false	false	false	false	false	false	false	false
plit 13 - Mode	Enum	none	none	none	none	none	none	none	none
Split 13 - Time	Sec	0	0	0	0	0	0	0	0
plit 13 - Coord	Enum	false	false	false	false	false	false	false	false
plit 14 - Mode	Enum	none	none	none	none	none	none	none	none
plit 14 - Time	Sec	0	0	0	0	0	0	0	0
plit 14 - Coord	Enum	false	false	false	false	false	false	false	false
plit 15 - Mode	Enum	none	none	none	none	none	none	none	none
plit 15 - Time	Sec	0	0	0	0	0	0	0	0
plit 15 - Coord	Enum	false	false	false	false	false	false	false	false
plit 16 - Time	Sec	0	0	0	0	0	0	0	0
plit 16 - Mode	Enum	none	none	none	none	none	none	none	none
Split 16 - Coord	Enum	false	false	false	false	false	false	false	false

Signal Timing Report

Time Generated: 2017-09-11 14:03:08

Region: Halifa	х	Signal II	D: 090		Location: L	acewood Dr E a	t Bayview Rd		
Coord Split	Units	9	10	11	12	13	14	15	16
Split 1 - Mode	Enum	none	none	none	none	none	none	none	none
Split 1 - Time	Sec	0	0	0	0	0	0	0	0
Split 1 - Coord	Enum	false	false	false	false	false	false	false	false
Split 2 - Mode	Enum	none	none	none	none	none	none	none	none
Split 2 - Time	Sec	0	0	0	0	0	0	0	0
Split 2 - Coord	Enum	false	false	false	false	false	false	false	false
Split 3 - Mode	Enum	none	none	none	none	none	none	none	none
plit 3 - Time	Sec	0	0	0	0	0	0	0	0
Split 3 - Coord	Enum	false	false	false	false	false	false	false	false
plit 4 - Mode	Enum	none	none	none	none	none	none	none	none
Split 4 - Time	Sec	0	0	0	0	0	0	0	0
plit 4 - Coord	Enum	false	false	false	false	false	false	false	false
plit 5 - Mode	Enum	none	none	none	none	none	none	none	none
plit 5 - Time	Sec	0	0	0	0	0	0	0	0
plit 5 - Coord	Enum	false	false	false	false	false	false	false	false
plit 6 - Mode	Enum	none	none	none	none	none	none	none	none
plit 6 - Time	Sec	0	0	0	0	0	0	0	0
plit 6 - Coord	Enum	false	false	false	false	false	false	false	false
plit 7 - Mode	Enum								
plit 7 - Time	Sec	none 0	none 0	none 0	none 0	none 0	none 0	none 0	none 0
plit 7 - Coord			-						
•	Enum	false	false	false	false	false	false	false	false
plit 8 - Mode	Enum	none	none 0	none 0	none	none	none	none	none
plit 8 - Time	Sec	0	-	-	0	0	0	0	0
plit 8 - Coord	Enum	false	false	false	false	false	false	false	false
plit 9 - Mode	Enum	none	none	none	none	none	none	none	none
plit 9 - Time	Sec	0	0	0	0	0	0	0	0
plit 9 - Coord	Enum	false	false	false	false	false	false	false	false
plit 10 - Mode	Enum	none	none	none	none	none	none	none	none
plit 10 - Time	Sec	0	0	0	0	0	0	0	0
plit 10 - Coord	Enum	false	false	false	false	false	false	false	false
plit 11 - Mode	Enum	none	none	none	none	none	none	none	none
plit 11 - Time	Sec	0	0	0	0	0	0	0	0
Split 11 - Coord	Enum	false	false	false	false	false	false	false	false
plit 12 - Mode	Enum	none	none	none	none	none	none	none	none
plit 12 - Time	Sec	0	0	0	0	0	0	0	0
plit 12 - Coord	Enum	false	false	false	false	false	false	false	false
plit 13 - Mode	Enum	none	none	none	none	none	none	none	none
plit 13 - Time	Sec	0	0	0	0	0	0	0	0
plit 13 - Coord	Enum	false	false	false	false	false	false	false	false
plit 14 - Mode	Enum	none	none	none	none	none	none	none	none
plit 14 - Time	Sec	0	0	0	0	0	0	0	0
plit 14 - Coord	Enum	false	false	false	false	false	false	false	false
plit 15 - Mode	Enum	none	none	none	none	none	none	none	none
plit 15 - Time	Sec	0	0	0	0	0	0	0	0
plit 15 - Coord	Enum	false	false	false	false	false	false	false	false
plit 16 - Time	Sec	0	0	0	0	0	0	0	0
plit 16 - Mode	Enum	none	none	none	none	none	none	none	none
Split 16 - Coord	Enum	false	false	false	false	false	false	false	false

TB ParamUnitsDaylight SavingEnumStandard Time ZoneSecPattern SyncSec

Value enableDaylightSavingNode

-14400 0

TB Schedule	Units	1	2	3	4	5	6	7	8
Month	Bit	JFMAMJJASOND	JFMAMJJASOND	0	0	J	J	N-	D
Day of Week	Bit	SS	-MTWTF-	0	0	SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
Day of Month	Bit	12345678901234	12345678901234	0	0	1	1	11	
		56789012345678							5
		901	901						
Day Plan	Number	1	2	0	0	1	1	1	1

Signal Timing Report

Time Generated: 2017-09-11 14:03:11

North Day of Week Day	Region: Halifax	x	Signal ID	Signal ID: 090			Location: Lacewood Dr E at Bayview Rd				
Day of Weak Bit MUTWIFS 0	TB Schedule	Units	9	10	11	12	13	14	15	16	
Bay Plan Bt	Month	Bit	D	0	0	0	0	0	0	0	
Bay Pinn Number 1 2 3 4 5 6 7 8 Pin 1 Numer Hour 0 6 8 21 23 0 0 0 0 Pin 1 Numer Hour 0 6 8 21 23 0 0 0 0 Pin 1 Adur Number 5 4 0 4 5 0 0 0 0 Pin 1 Adur Number 5 4 0	Day of Week	Bit	SMTWTFS	0	0	0	0	0	0	0	
Bay, Pin Number 1 0 0 0 0 0 0 0 IB Dayplan Units 1 2 3 4 5 6 7 8 IB 1 Mute Mon 0 6 9 21 23 0 0 0 Pin 1 Mute Mon 1 0 0 1 4 5 0 0 0 Pin 1 Mute Mon 1 0 0 15 45 16 0 0 0 Pin 2 Action Montor 5 4 0 0 0 0 0 0 Pin 3 Mute Mon 0 0 0 0 0 0 0 0 Pin 4 Mute Mon 0 0 0 0 0 0 0 0 Pin 5 Mute Mon 0 0 0 0 0 0 0 0	Day of Month	Bit		0	0	0	0	0	0	0	
Pin 1 MinuteNon0692123000Pin 1 MinuteNimber54145000Pin 1 AlutionNimber541450000Pin 2 MutteNim100154500000Pin 2 MutteNim54213146000 <td< td=""><td>Day Plan</td><td>Number</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></td<>	Day Plan	Number		0	0	0	0	0	0	0	
Pin 1Nin100000000Pin 1AtomNumber54145000Pin 2MuteMin10015450000Pin 2MuteMin1000 <td>TB Dayplan</td> <td>Units</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td></td>	TB Dayplan	Units	1	2	3	4	5	6	7	8	
Pin 1Nin 1000000000Pin 1AtomNumber54145000Pin 2MuuteMin10015182123Pin 2AtomMunte54213145Pin 2AtomMunte54213145Pin 3AtomNumber54213145Pin 3AtomNumber000000000Pin 4MuuteMin00<	Plan 1 Hour	Hour	0	6	9	21	23	0	0	0	
Pine 2 MinueHour067015182123Pine 2 MinueMin10015450000Pine 3 ActionNumber64213145Pine 3 ActionNumber0000000000Pine 3 ActionNumber00000000000Pine 4 MinueMin000<	Plan 1 Minute	Min	1	0	0	0	0	0	0	0	
Pin 2Min Pin 2101545000Pin 3Number Pin 3542145000<	Plan 1 Action	Number	5	4	1	4	5	0	0	0	
Pine Action Pine ShoureNumber Hour54213145Pine Shoure Pine ShoureMamber Hour00000000Pine Shoure Pine Shoure Pin	Plan 2 Hour	Hour	0	6	7	9	15	18	21	23	
Pine 3 MinueHour00000000Pine 3 MinueMin000000000Pine 4 ActionNumber0000000000Pine 4 ActionNumber00<	Plan 2 Minute	Min	1	0	0	15	45	0	0	0	
Pin 3 ArtionNumber00000000Pin 4 HourHour00 </td <td>Plan 2 Action</td> <td>Number</td> <td>5</td> <td>4</td> <td>2</td> <td>1</td> <td>3</td> <td>1</td> <td>4</td> <td>5</td> <td></td>	Plan 2 Action	Number	5	4	2	1	3	1	4	5	
Plan A StationNumber00000000Plan A MunuteHour0000000000Plan A AtainaNumber000<	Plan 3 Hour	Hour	0	0	0	0	0	0	0	0	
Pin A HourHourOO <t< td=""><td>Plan 3 Minute</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Plan 3 Minute										
Pin A failande Pin A ActionNumber00 <td></td>											
Plan A storineNumber00<	Plan 4 Hour										
Plan B HourHoar00<	Plan 4 Minute										
Pin 6 Munte Pin 3 Action NumberNim Number00 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
Pin A scionNumber00 <td></td>											
Plan & HourNormber00 <td></td>											
Plan 6 MinuteMin00											
Plan 5 ActionNumber00 </td <td></td>											
Pien 7 Nour Pien 7 Nour Pien 7 ActionHour Min00 <td></td>											
Plan 7 MinuteMin0000000000Plan 7 AtoinMumber0000000000Plan 8 MinuteMin000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Plan 7 ActionNumber0000000000Plan 8 MutueMin00											
Plan 8 Hour Plan 8 ActionHour Number000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Plan 8 ActionNim bin Number000000000Plan 8 ActionNumber000 <td></td>											
Plan 8 ActionNumber00000000TB DayplanUnits910111213141516Plan 1 HourHour00000000Plan 1 ActionNumber00000000Plan 1 ActionNumber000000000Plan 2 ActionMine0000000000Plan 2 ActionNumber000											
Plan 1 HourHourHour00000000Plan 1 ActionNumber00 <t< td=""><td>Plan 8 Action</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Plan 8 Action										
Plan 1 HourHourHour00000000Plan 1 ActionNumber00 <t< td=""><td>TB Dayplan</td><td>Units</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td></td></t<>	TB Dayplan	Units	9	10	11	12	13	14	15	16	
Plan 1 MinuteMin00000000Plan 1 ActionNumber000	Plan 1 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 2 HourHour00000000Plan 2 MinuteMin0000000000Plan 2 ActionNumber000 <t< td=""><td>Plan 1 Minute</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Plan 1 Minute										
Plan 2 MinuteMin00000000Plan 2 ActionNumber000	Plan 1 Action	Number	0	0	0	0	0	0	0	0	
Plan 2 ActionNumber000000000Plan 3 MinuteMin00	Plan 2 Hour	Hour	0	0	0	0	0	0	0	0	
Plan 3 HourHour00000000Plan 3 MinuteMin0000000000Plan 3 ActionNumber000 <t< td=""><td>Plan 2 Minute</td><td>Min</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td></t<>	Plan 2 Minute	Min	0	0	0	0	0	0	0	0	
Plan 3 MinuteMin00000000Plan 3 ActionNumber000000000Plan 4 HourHour00000000000Plan 4 MinuteMin000 <td>Plan 2 Action</td> <td>Number</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td>	Plan 2 Action	Number	0	0	0	0	0	0	0	0	
Plan 3 ActionNumber00000000Plan 4 HourHour0000000000Plan 4 MinuteMin000 <t< td=""><td>Plan 3 Hour</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Plan 3 Hour										
Plan 4 HourHour000000000Plan 4 MinuteMin000 <td>Plan 3 Minute</td> <td></td>	Plan 3 Minute										
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Plan 4 ActionNumber00000000Plan 5 HourHour0000000000Plan 5 MinuteMin000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Plan 5 HourHour00000000Plan 5 MinuteMin000000000Plan 5 ActionNumber0000000000Plan 6 HourHour00000000000Plan 6 MinuteMin000000000000Plan 6 MinuteMin0000000000000000Plan 6 MinuteMin00<											
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Plan 6 HourHour00000000Plan 6 MinuteMin0000000000Plan 6 ActionNumber00000000000Plan 7 HourHour000000000000Plan 7 MinuteMin000000000000000Plan 8 MinuteMin0000000000000											
Plan 6 MinuteMin000000000Plan 6 ActionNumber00000000000Plan 7 HourHour000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Plan 6 ActionNumber00000000Plan 7 HourHour0000000000Plan 7 MinuteMin00000000000Plan 7 ActionNumber00<											
Plan 7 Hour Hour 0											
Plan 7 Minute Min 0											
Plan 7 Action Number 0											
Plan 8 Hour Hour 0											
Plan 8 Minute Min 0 0 0 0 0 0 0 0 0 0											
	Plan 8 Action										



APPENDIX D

Trip Generation

Trip Generation Summary

Alternative: Seton Ridge Development

Phase:

Project: Seton Ridge

			V	/eekday Av	verage Dai	ly Trips	,	Weekday A Adjacen	AM Peak H t Street Tra		,	Weekday F Adjacent	PM Peak F t Street Tra	
ITE	Land Us	e	*	Enter	Exit	Total	*	Enter	Exit	Total	*	Enter	Exit	Total
210	Single F	amily		897	897	1794		34	101	135		112	65	177
	179	Dwelling Units												
222	Apartme	nts (High-Rise)		3595	3595	7190		129	385	514		365	234	599
	1712	Dwelling Units												
223	Apartme	nts (Mid-Rise)						56	125	181		136	99	235
	603	Dwelling Units												
230	Low Rise	e Condo		28	28	56		1	4	5		4	2	6
	6	Dwelling Units												
253	Shanne	Caritas		505	505	1010		18	12	30		47	38	85
	500	Dwelling Units												
495	Rec Cer	tre		110	110	220		9	4	13		9	9	18
	6.5	Gross Floor Area 1000 SF												
710	Office			254	253	507		63	9	72		12	57	69
	46	Gross Floor Area 1000 SF												
820	Retail A	ea		1909	1908	3817		53	33	86		159	173	332
	89.4	Gross Leasable Area 1000 SF												
Unadj	Unadjusted Volume			7298	7296	14594		363	673	1036		844	677	1521
Intern	Internal Capture Trips			0	0	0		19	19	38		83	83	166
Pass-	Pass-By Trips			0	0	0		0	0	0		44	44	88
Volun	Volume Added to Adjacent Streets			7298	7296	14594		344	654	998		717	550	1267

Total Weekday Average Daily Trips Internal Capture = 0 Percent

Total Weekday AM Peak Hour of Adjacent Street Traffic Internal Capture = 4 Percent

Total Weekday PM Peak Hour of Adjacent Street Traffic Internal Capture = 11 Percent

 $\boldsymbol{\star}~$ - Custom rate used for selected time period.

Source: Institute of Transportation Engineers, Trip Generation Manual 9th Edition, 2012

AM Peak Hour	Trip Ge	neration	10% AT F	Reduction	15% Transit	Reduction*	Adjusted Volumes		
	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit	
Single Family	34	101	-3.4	-10.1		-15.2	31	76	
Apartments (HR)	129	385	-12.9	-38.5		-57.8	116	289	
Apartments (MR)	56	125	-5.6	-12.5		-18.8	50	94	
Low Rise Condos	1	4	-0.1	-0.4		-0.6	1	3	
Shannex	18	12	-1.8	-1.2	-2.7		14	11	
Rec Centre	9	4	-0.9	-0.4	-1.4	-0.6	7	3	
Office	63	9	-6.3	-0.9	-9.5		47	8	
Retail	53	33	-5.3	-3.3	-8.0	-5.0	40	25	
	363	673	-36.3	-67.3	-21.5	-97.8	305	508	
Internal Capture	19	19	-1.9	-1.9	-2.85	-2.85	14	14	
Pass-by Trips	0	0	0	0	0	0	0	0	
Volume Added	344	654	-34.4	-65.4	-18.6	-94.95	291	494	

-2.85	-2.85	14	14				
0	0	0	0	Bedford Hwy		Lace	wood
-18.6	-94.95	291	494	60%		40)%
				Enter	Exit	Enter	Exit
Peak Directi	ion Entering	107	47	64	28	43	19
		To/Fror	n the West	42	10	26	7
		To/From the East		23	18	17	11
Peak Direc	ction <i>Exiting</i>	184	447	110	268	74	179
		To/Fror	n the West	72	94	44	72
		To/From the East		39	174	29	107

* Reductions Applied in Peak Direction Only

		Bedfo	rd Hwy	Lacewood		
		Enter	Exit	Enter	Exit	
TOTALS	To/From the West	113	104	70	79	
	To/From the East	61	193	47	118	

PM Peak Hour	Trip Ger	neration	10% AT F	Reduction	15% Transit	Reduction*	Adjusted	Volumes
	Enter	Exit	Enter	Exit	Enter	Exit	Enter	Exit
Single Family	112	65	-11.2	-6.5	-16.8		84	59
partments (HR)	365	234	-36.5	-23.4	-54.8		274	211
partments (MR)	136	99	-13.6	-9.9	-20.4		102	89
ow Rise Condos	4	2	-0.4	-0.2	-0.6		3	2
Shannex	47	38	-4.7	-3.8		-5.7	42	29
Rec Centre	9	9	-0.9	-0.9	-1.4	-1.4	7	7
Office	12	57	-1.2	-5.7		-8.6	11	43
Retail	159	173	-15.9	-17.3	-23.9	-26.0	119	130
	844	677	-84.4	-67.7	-117.8	-41.6	642	568
nternal Capture	83	83	-8.3	-8.3	-12.45	-12.45	62	62
Pass-by Trips**	44	44	-4.4	-4.4	-6.6	-6.6	33	33
olume Added	717	550	-71.7	-55	-98.7	-22.5	547	473

* Reductions Applied in Peak Direction Only

** New site trips not reduced for pass-by trips.

Pass trips applied during network assignment.

			Enter	Exit	Enter	Exit
Peak Direction Exiting	163 191		98	115	65	77
	To/From the West		34	75	26	46
	To/Fro	om the East	63	40	39	31
Peak Direction Entering	384	281	230	169	154	113
	To/From the West		81	110	61	68
	To/Fro	om the East	150	59	92	45
		[Bedfo	rd Hwy	Lace	wood
			Enter	Exit	Enter	Exit
TOTALS	To/From the West		115	184	87	113
	To/From the East		213	99	131	76

60% 40%

Lacewood

Internal Capture Report - Seton Ridge Development AM & PM Peak Hour

Open Date:	2018-11-05
Analysis Date:	2018-11-05

Project: Seton Ridge

AM		Enterin	g Trips		Exiting Trips				
Category	Internal	Internal External Total Percent				External	Total	Percent	
Cinema	0	0	0	0%	0	0	0	0%	
Hotel	0	0	0	0%	0	0	0	0%	
Office	5	58	63	8%	3	6	9	33%	
Residential	5	233	238	2%	8	619	627	1%	
Restaurant	0	0	0	0%	0	0	0	0%	
Retail	9	44	53	17%	8	25	33	24%	
All Other Land Uses	0	9	9	0%	0	4	4	0%	
Totals	19	344	363	5%	19	654	673	3%	

РМ		Enterin	g Trips		Exiting Trips				
Category	Internal	External	Total	Percent	Internal	External	Total	Percent	
Cinema	0	0	0	0%	0	0	0	0%	
Hotel	0	0	0	0%	0	0	0	0%	
Office	10	2	12	83%	12	45	57	21%	
Residential	46	618	664	7%	23	415	438	5%	
Restaurant	0	0	0	0%	0	0	0	0%	
Retail	27	132	159	17%	48	125	173	28%	
All Other Land Uses	0	9	9	0%	0	9	9	0%	
Totals	83	761	844	10%	83	594	677	12%	

Internal Trip Capture Rates

Source : NCHRP - AM Peak

Open Date: 09/10/2017 Analysis Date: 09/10/2017

Project: Seton Ridge

FROM						
	Cinema	Hotel	Office	Residential	Restaurant	Retail
Cinema	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.00	0.00	0.75	0.00	0.09	0.14
Office	0.00	0.00	0.00	0.10	0.63	0.28
Residential	0.00	0.00	0.02	0.00	0.20	0.01
Restaurant	0.00	0.03	0.31	0.04	0.00	0.14
Retail	0.00	0.00	0.29	0.14	0.13	0.00

то			FR	OM		
	Cinema	Hotel	Office	Residential	Restaurant	Retail
Cinema	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.00	0.00	0.00	0.00	0.04	0.00
Office	0.00	0.03	0.00	0.03	0.14	0.04
Residential	0.00	0.00	0.00	0.00	0.05	0.02
Restaurant	0.00	0.06	0.23	0.20	0.00	0.50
Retail	0.00	0.04	0.32	0.17	0.08	0.00

Source: Institute of Transportation Engineers, Trip Generation Manual 9th Edition, 2012

Internal Trip Capture Rates

Source : NCHRP - PM Peak

Open Date: 09/10/2017 Analysis Date: 09/10/2017

Project: Seton Ridge

FROM			т	0		
	Cinema	Hotel	Office	Residential	Restaurant	Retail
Cinema	0.00	0.02	0.02	0.08	0.31	0.21
Hotel	0.00	0.00	0.00	0.02	0.68	0.16
Office	0.00	0.00	0.00	0.02	0.04	0.20
Residential	0.00	0.03	0.04	0.00	0.21	0.42
Restaurant	0.08	0.07	0.03	0.18	0.00	0.41
Retail	0.04	0.05	0.02	0.26	0.29	0.00

то			FR	OM		
	Cinema	Hotel	Office	Residential	Restaurant	Retail
Cinema	0.00	0.00	0.01	0.00	0.32	0.26
Hotel	0.01	0.00	0.00	0.12	0.71	0.17
Office	0.06	0.00	0.00	0.57	0.30	0.31
Residential	0.04	0.00	0.04	0.00	0.16	0.46
Restaurant	0.03	0.05	0.02	0.14	0.00	0.29
Retail	0.04	0.02	0.08	0.10	0.50	0.00



APPENDIX E

Trip Assignment

AM Peak-Bedford Highway





		Peds		TOTAL	0		In	t. Total	0
		0	IN		0	OUT			
							b	0	Peds
	OUT				- 0	#DIV/0!	Bedford Hwy	IN	
TOTAL	0		Ļ	L,	0	#DIV/0!	Ē	0	TOTAL
0	0	rd			ο 🔳		0	0	0
	IN	Bedford Hwy	#DIV/0!	0 →	#DIV/0!		#DIV/0!	OUT	
Peds	0	B	#DIV/0!	0	1	con Ba	у		
			OUT	0	0	IN	1		
				TOTAL	0		Peds		

AM Peak-Lacewood





Count D	ate:	Peds	0.76	TOTAL	1366		Ir	t. Total	2298
2017-0	08-15	0	IN	1029	337	OUT			
Wedne	esday	Duni	brack S	Street	86	21%	poq	0	Peds
	OUT	20%	32%	48%	295 -	72%	Lacewood Drive	IN	0.94
TOTAL	550	206	328	495	31	8%	Lac	412	тота
1173	623	poq	13%	82	49 🗌	169	16	991	1403
0.92	IN	ce wood Drive	77%	480 ⇒	21%	72%	7%	OUT	
Peds	0	Lau	10%	61	Dunt	brack S	treet		
			OUT	420	234	IN	0	-	
				TOTAL	654	0.75	Peds		

Growth 1.005

Seasonal Adj. 1.020

Adj.Factor 1.025

0.76 TOTAL 1400

48%

84

77% 492

10% 63

OUT 431

345 OUT

21%

72%

Dunbrack Street

50 173

88

302

32 8%

21% 72% 7% OUT

240 IN

IN 1055

Dunbrack Street

32%

13%

Ped

20%

211 336 507

OUT

IN Lacev Dri[:]

0

TOTAL 564

1202 639

Peds

Int. Total 2356

IN

16

0

Peds

Peds

45

-44

422 **TOTAL**

1016 1438





-10

-10

-10

-11

Growth 1.005 Seasonal Adj. 1.000 Adj.Factor 1.005







TOTAL 670



		Peds		TOTAL	0		In	nt. Total	1434
		0	IN	0	0	OUT		_	
		Seton	Ridge .	Access	0	0%	pod	0	Peds
	Ουτ				- 394	99%	Lacewood Drive	IN	
TOTAL	399	0	0	0	5	1%	Lac	399	тота
1423	1024	poo	0%	0	5]	0	5	1024	1423
	IN	Lacewood Drive	99%	1019	50%	0%	50%	OUT	
Peds	0	Lac	1%	5	Ceda	arbrea l	Lane		
			OUT	11	11	IN	0	-	
				TOTAL	21		Peds		



AM Peak-Lacewood



21

TOTAL

Int. Total 165

0 Peds

IN

98 135

OUT

Int. Total -68

0 Peds

IN

0 TOTAL

0 0

OUT

Int. Total 1693

0

IN

OUT

243

TOTAL

Peds

239 **TOTAL**

862 1101

0

37 TOTAL

714

Peds

TOTAL





		Peds		TOTAL	0		In	t. Total	0
		0	IN		0	OUT			
							b	0	Peds
	OUT				- 0	#DIV/0!	Bedford Hwy	IN	
TOTAL	0		Ļ	L,	0	#DIV/0!	Ē	0	TOTAL
0	0	b			ο 🗍		0	0	0
	IN	Bedford Hwy	#DIV/0!	0 →	#DIV/0!		#DIV/0!	OUT	
Peds	0	Ë	#DIV/0!	0	1	con Ba	y		
			OUT	0	0	IN	1		
				TOTAL	0		Peds		

PM Peak-Lacewood







Adj.Factor 1.025

582

25%

209

IN

Dunbrack Street

40%

233 147

26%

56% 451

18% 144

Ped

35%

Lacev Dri

203

OUT

IN

0

TOTAL 1131

1934 804

Peds

TOTAL 1360

Int. Total 2987

IN

OUT

34

Peds

75

-111

1052 TOTAL

631 1683



TOTAL 0

0 0 OUT

0

972 99%

5 1%

50% 0% 50%

10 IN

0%

0

Cedarbrea Lane

IN

Seton Ridge Access

0

0%

99%

1%

0

5

OUT 10

515

TOTAL 20

Ped

OUT

IN

0

TOTAL 977

1497 520

Peds



-909

474

0

0

-1

-11

Int. Total 1507

IN

OUT

5

0

Pede

Peds

977 TOTAL

510 1487

Growth 1.005 Seasonal Adj. 1.070 Adj.Factor 1.075





778 OUT

22%

71%

176 339

Dunbrack Street

230

751

71 7%

32% 62% 6%

Adj.Factor 1.051



		Peds		TOTAL	0		In	t. Total	1584
		0	IN	0	0	OUT			
		Seton	Ridge .	Access	0	0%	pod	0	Peds
	OUT				-1022	99%	Lacewood Drive	IN	
TOTAL	1027	0	0	0	5	1%	Lac	1027	тота
1574	547	poo	0%	0	5 1	0	5	547	1574
	IN	Lacewood Drive	99%	541 🔿	50%	0%	50%	OUT	
Peds	0	Lac	1%	5	Ceda	arbrea l	Lane		
			OUT	11	11	IN	0	-	
				TOTAL			Peds		



PM Peak-Lacewood



Int. Total 207

0 Peds

IN

OUT

Int. Total -100

0 Peds

IN

0 TOTAL

0 0

OUT

Int. Total 1811

0 Peds

IN

OUT

7

12%

0

636 TOTAL

366 1002

0

0

Peds

0%

0

Peds

116 TOTAL

66 182



APPENDIX F

Synchro Reports

Seton Ridge Development 1: Flamingo & Bedford Hwy

	-	7	1	←	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,		7	1	7	1
Traffic Volume (vph)	639	50	42	360	18	200
Future Volume (vph)	639	50	42	360	18	200
Satd. Flow (prot)	1857	0	1825	1883	1825	1633
Flt Permitted			0.356		0.950	
Satd. Flow (perm)	1857	0	675	1883	1696	1487
Satd. Flow (RTOR)	9					217
Lane Group Flow (vph)	726	0	44	379	20	217
Turn Type	NA		Perm	NA	Prot	Perm
Protected Phases	2			6	4	
Permitted Phases			6			4
Total Split (s)	94.0		94.0	94.0	26.0	26.0
Total Lost Time (s)	4.5		4.0	4.0	4.0	4.0
Act Effct Green (s)	100.4		100.9	100.9	11.1	11.1
Actuated g/C Ratio	0.84		0.84	0.84	0.09	0.09
v/c Ratio	0.47		0.08	0.24	0.12	0.65
Control Delay	4.0		2.4	2.5	49.8	16.0
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	4.0		2.4	2.5	49.8	16.0
LOS	A		Α	2.0 A	10.0 D	B
Approach Delay	4.0			2.5	18.9	2
Approach LOS	A			2.0 A	B	
Queue Length 50th (m)	29.9		1.2	11.6	4.7	0.0
Queue Length 95th (m)	70.3		4.6	28.8	12.0	23.2
Internal Link Dist (m)	212.2		т .0	218.2	156.6	20.2
Turn Bay Length (m)	212.2			210.2	150.0	30.0
Base Capacity (vph)	1555		567	1584	334	449
Starvation Cap Reductn	0		0	0	0	449
Spillback Cap Reductin	0		0	0	0	0
Storage Cap Reductin	0		0	0	0	0
Reduced v/c Ratio	0.47		0.08	0.24	0.06	0.48
	0.47		0.00	0.24	0.00	0.40
Intersection Summary						
Cycle Length: 120						
Actuated Cycle Length: 120						
Offset: 0 (0%), Referenced to		Start of G	reen			
Control Type: Actuated-Coor	dinated					
Maximum v/c Ratio: 0.65						
Intersection Signal Delay: 6.7					tersection	
Intersection Capacity Utilizat	ion 58.2%			IC	U Level of	Service B
Analysis Period (min) 15						

Splits and Phases: 1: Flamingo & Bedford Hwy

→Ø2 (R)	↑ Ø4
94 s	26 s
₩ Ø6	
94s	

Seton Ridge Development 2: MSVU & Bedford Hwy

	→	7	4	+	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			-¢↑	٦	1
Traffic Volume (veh/h)	1013	112	94	464	2	22
Future Volume (Veh/h)	1013	112	94	464	2	22
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1066	118	99	488	2	24
Pedestrians	58				30	
Lane Width (m)	3.7				3.7	
Walking Speed (m/s)	1.2				1.2	
Percent Blockage	5				3	
Right turn flare (veh)	Ŭ				U U	
Median type	None			None		
Median storage veh)	NONE			NULLE		
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			1214		1655	1155
vC1, stage 1 conf vol			1217		1000	1100
vC2, stage 2 conf vol						
vCu, unblocked vol			1214		1655	1155
tC, single (s)			4.1		*5.5	*5.5
tC, 2 stage (s)			4.1		0.0	5.5
tF (s)			2.2		3.5	3.3
p0 queue free %			83		3.5 98	3.3 92
cM capacity (veh/h)			83 567		98 126	92 295
						290
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	NB 2	
Volume Total	1184	262	325	2	24	
Volume Left	0	99	0	2	0	
Volume Right	118	0	0	0	24	
cSH	1700	567	1700	126	295	
Volume to Capacity	0.70	0.17	0.19	0.02	0.08	
Queue Length 95th (m)	0.0	5.0	0.0	0.4	2.1	
Control Delay (s)	0.0	6.3	0.0	34.0	18.3	
Lane LOS		А		D	С	
Approach Delay (s)	0.0	2.8		19.5		
Approach LOS				С		
Intersection Summary						
Average Delay			1.2			
Intersection Capacity Utilization			88.6%	IC	U Level of	Service
Analysis Period (min)			15			
,,						
* ••						

* User Entered Value

Seton Ridge Development 3: Seton & Bedford Hwy

	-	7	4	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			-۠	7	1
Traffic Volume (veh/h)	1110	42	146	607	3	51
Future Volume (Veh/h)	1110	42	146	607	3	51
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1168	44	154	639	3	55
Pedestrians	29			20	43	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	4	
Right turn flare (veh)						4
Median type	None			None		•
Median storage veh)	110110			110110		
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			1255		1890	1253
vC1, stage 1 conf vol			1200		1000	1200
vC2, stage 2 conf vol						
vCu, unblocked vol			1255		1890	1253
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)			7.1		0.0	0.0
tF (s)			2.2		3.5	3.3
p0 queue free %			72		93	65
cM capacity (veh/h)			540		93 43	157
					40	157
Direction, Lane #	EB 1	WB 1	WB 2	NB 1		
Volume Total	1212	367	426	58		
Volume Left	0	154	0	3		
Volume Right	44	0	0	55		
cSH	1700	540	1700	166		
Volume to Capacity	0.71	0.28	0.25	0.35		
Queue Length 95th (m)	0.0	9.3	0.0	11.6		
Control Delay (s)	0.0	8.7	0.0	42.6		
Lane LOS		А		E		
Approach Delay (s)	0.0	4.0		42.6		
Approach LOS				Е		
Intersection Summary						
Average Delay			2.7			
Intersection Capacity Utilization			95.4%	IC	U Level of	Service
Analysis Period (min)			15			
			10			

Seton Ridge Development 4: Sherbrooke & Bedford Hwy

	-	7	*	←	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,			-۠	¥	
Traffic Volume (veh/h)	1156	5	5	748	5	10
Future Volume (Veh/h)	1156	5	5	748	5	10
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1217	5	5	787	5	11
Pedestrians	20			20	20	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			1242		1663	1260
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1242		1663	1260
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			99		94	93
cM capacity (veh/h)			558		86	159
Direction, Lane #	EB 1	WB 1	WB 2	NB 1		
Volume Total	1222	267	525	16		
Volume Left	0	5	0_0	5		
Volume Right	5	0	0	11		
cSH	1700	558	1700	126		
Volume to Capacity	0.72	0.01	0.31	0.13		
Queue Length 95th (m)	0.0	0.2	0.0	3.4		
Control Delay (s)	0.0	0.3	0.0	37.8		
Lane LOS	0.0	A	0.0	E		
Approach Delay (s)	0.0	0.1		37.8		
Approach LOS	0.0	0.1		67.0 E		
				_		
Intersection Summary			0.0			
Average Delay			0.3	101		0
Intersection Capacity Utilization			71.2%	IC	U Level of	Service
Analysis Period (min)			15			

Seton Ridge Development 5: Bayview & Bedford Hwy

	-	7	1	-	1	1		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	≜ ∱		5	•	5	1		
Traffic Volume (vph)	1363	35	355	539	43	646		
Future Volume (vph)	1363	35	355	539	43	646		
Satd. Flow (prot)	3566	0	1921	1883	2107	2241		
Flt Permitted			0.085		0.950			
Satd. Flow (perm)	3566	0	172	1883	2107	2241		
Satd. Flow (RTOR)	4					210		
Lane Group Flow (vph)	1472	0	355	567	47	646		
Turn Type	NA	· ·	pm+pt	NA	Prot	Perm		
Protected Phases	2		1	6	4	1 01111		
Permitted Phases	_		6		•	4		
Total Split (s)	59.0		15.0	74.0	26.0	26.0		
Total Lost Time (s)	5.8		0.5	5.8	6.0	3.0		
Act Effct Green (s)	53.2		73.5	68.2	20.0	23.0		
Actuated g/C Ratio	0.53		0.74	0.68	0.20	0.23		
v/c Ratio	0.55		0.74	0.08	0.20	0.23		
	22.2		0.93 57.7	0.44 4.5		0.95 51.7		
Control Delay	0.0		57.7 0.0		33.7 0.0	51.7 0.0		
Queue Delay				0.0				
Total Delay	22.2		57.7	4.5	33.7	51.7		
LOS	C		E	A	C	D		
Approach Delay	22.2			25.0	50.4			
Approach LOS	C		00.0	C	D			
Queue Length 50th (m)	119.5		32.9	15.6	7.9	92.8		
Queue Length 95th (m)	148.9		#96.6	19.8	18.0	#165.2		
Internal Link Dist (m)	307.4			271.2	169.9			
Turn Bay Length (m)						30.0		
Base Capacity (vph)	1898		380	1284	421	677		
Starvation Cap Reductn	0		0	0	0	0		
Spillback Cap Reductn	0		0	0	0	0		
Storage Cap Reductn	0		0	0	0	0		
Reduced v/c Ratio	0.78		0.93	0.44	0.11	0.95		
Intersection Summary								
Cycle Length: 100								
Actuated Cycle Length: 100								
Offset: 13 (13%), Referenced	to phase 2:EB	T, Start o	f Green					
Control Type: Actuated-Coord								
Maximum v/c Ratio: 0.95								
Intersection Signal Delay: 29.4 Intersection LOS: C								
Intersection Capacity Utilization				IC	U Level o	f Service E		
Analysis Period (min) 15								
# 95th percentile volume ex	ceeds canacity		nav he lon	ner				
			nay be long	901.				

Queue shown is maximum after two cycles.

Splits and Phases: 5: Bayview & Bedford Hwy

Ø1	∎ →Ø2 (R)	▲ Ø4
15 s	59 s	26 s
₩Ø6	A. Alternation	
74 s		

Seton Ridge Development 6: 50 Bedford Hwy & Bedford Hwy

	-	7	1	+	1	1		
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR		
Lane Configurations	≜ t⊧		3	**	٦	1		
Traffic Volume (vph)	1964	45	70	859	35	70		
Future Volume (vph)	1964	45	70	859	35	70		
Satd. Flow (prot)	3569	0	1807	3579	1807	1617		
Flt Permitted	0000	v	0.062	0010	0.950	1011		
Satd. Flow (perm)	3569	0	118	3579	1807	1617		
Satd. Flow (RTOR)	4	v	110	0010	1001	76		
Lane Group Flow (vph)	2114	0	74	904	38	76		
Turn Type	NA	0	pm+pt	NA	Prot	Perm		
Protected Phases	2		1	6	4			
Permitted Phases	2		6	0	4	4		
	63.0		13.0	76.0	24.0	4 24.0		
Total Split (s)				76.0	24.0			
Total Lost Time (s)	5.8		4.0	5.8	6.0	6.0		
Act Effct Green (s)	61.1		72.0	70.2	18.0	18.0		
Actuated g/C Ratio	0.61		0.72	0.70	0.18	0.18		
v/c Ratio	0.97		0.36	0.36	0.12	0.22		
Control Delay	26.9		11.2	6.4	35.5	10.0		
Queue Delay	0.0		0.0	0.0	0.0	0.0		
Total Delay	26.9		11.2	6.4	35.5	10.0		
LOS	С		В	А	D	В		
Approach Delay	26.9			6.8	18.5			
Approach LOS	С			А	В			
Queue Length 50th (m)	~134.7		3.8	33.6	6.6	0.0		
Queue Length 95th (m)	m#277.0		11.4	43.0	15.8	12.4		
Internal Link Dist (m)	271.2			230.3	79.8			
Turn Bay Length (m)			50.0					
Base Capacity (vph)	2182		236	2512	325	353		
Starvation Cap Reductn	0		0	0	0_0	0		
Spillback Cap Reductn	0		0	0	0	0		
Storage Cap Reductn	0		0	0	0	0		
Reduced v/c Ratio	0.97		0.31	0.36	0.12	0.22		
	0.01		0.01	0.00	0.12	0.22		
Intersection Summary Cycle Length: 100								
Actuated Cycle Length: 100		01						
Offset: 0 (0%), Referenced		Start of G	breen					
Control Type: Actuated-Coo	ordinated							
Maximum v/c Ratio: 0.97	• •							
Intersection Signal Delay: 2					tersection			
Intersection Capacity Utiliza	ation 73.8%			IC	U Level of	Service D		
Analysis Period (min) 15								
 Volume exceeds capac 			nfinite.					
	Queue shown is maximum after two cycles.							
# 95th percentile volume								
Queue shown is maximu	um after two cycle	es.						
m Volume for 95th percer			upstream si	ignal.				
Splits and Phases: 6: 50 Bedford Hwy & Bedford Hwy								
Splits and Phases: 6: 50	Deuloiu Hwy & E	beulora H	wy					

Ø1	→Ø2 (R)	▲ Ø4
13 s	63 s	24 s
₹ø6		
76 s		
Seton Ridge Development 7: Lacewood & Dunbrack

	٦	→	7	1	+	*	1	Ť	1	4	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	2	**	1	7	**	1	7	≜ 1₽		7	≜ 1₽	
Traffic Volume (vph)	507	336	211	50	173	16	84	492	63	32	302	88
Future Volume (vph)	507	336	211	50	173	16	84	492	63	32	302	88
Satd. Flow (prot)	1767	3500	1759	1807	3579	1617	1807	3522	0	1668	3198	0
Flt Permitted	0.569			0.534			0.383			0.234		
Satd. Flow (perm)	1059	3500	1759	1016	3579	1617	729	3522	0	411	3198	0
Satd. Flow (RTOR)			229			88		17			46	
Lane Group Flow (vph)	551	365	229	54	188	17	91	603	0	35	424	0
Turn Type	pm+pt	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases	5	2			6			8			4	
Permitted Phases	2		2	6		6	8			4		
Total Split (s)	24.0	55.0	55.0	31.0	31.0	31.0	40.0	40.0		40.0	40.0	
Total Lost Time (s)	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1		4.1	4.1	
Act Effct Green (s)	62.4	62.3	62.3	37.7	37.7	37.7	24.5	24.5		24.5	24.5	
Actuated g/C Ratio	0.66	0.66	0.66	0.40	0.40	0.40	0.26	0.26		0.26	0.26	_
v/c Ratio	0.65	0.16	0.19	0.13	0.13	0.02	0.49	0.66		0.33	0.49	
Control Delay	13.1	7.1	1.5	24.1	21.3	0.1	38.0	33.7		36.2	27.9	_
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	13.1	7.1	1.5	24.1	21.3	0.1	38.0	33.7		36.2	27.9	_
LOS	В	A	А	С	С	А	D	С		D	С	
Approach Delay		8.9			20.5			34.2			28.6	
Approach LOS	47.7	A	0.0	0.0	C	0.0	44.0	C			C	
Queue Length 50th (m)	47.7	12.8	0.0	6.6	12.0	0.0	14.9	53.1		5.5	32.4	
Queue Length 95th (m)	86.4	22.4	9.0	17.9	23.2	0.0	28.6	65.4		14.1	43.1	
Internal Link Dist (m)	<u> </u>	244.5	70.0	05.0	347.6	05.0	70.0	162.5		20.0	194.1	_
Turn Bay Length (m)	60.0 863	2295	70.0 1232	65.0	1421	65.0		1011		20.0 155	1237	
Base Capacity (vph) Starvation Cap Reductn	0	2295 0	1232	403 0	1421	695 0	275 0	1341 0		155	1237	
	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio	0.64	0.16	0.19	0.13	0.13	0.02	0.33	0.45		0.23	0.34	
Intersection Summary		0.110	0110	0110	0110	0.02	0.00	0110		0.20	0.0.	
Cycle Length: 95												
Actuated Cycle Length: 95												
Offset: 8 (8%), Referenced to	phase 2:EBTI	and 6:WF	STL Start	of Green								
Control Type: Actuated-Coord			,									
Maximum v/c Ratio: 0.66												
Intersection Signal Delay: 20.	5			In	tersection	LOS: C						
Intersection Capacity Utilization				IC	U Level of	Service D						
Analysis Period (min) 15				.0								
Onlite and Diseases 7												
Splits and Phases: 7: Lace	wood & Dunbr	ack										

402 (R)		04	دو بيد المحادثين
55 s		40 s	
▶ Ø5	📕 🔷 Ø6 (R)	≪ 1 Ø8	
24 s	31 s	40 s	

Seton Ridge Development 8: Lacewood & Lacewood Access

	٠	-	7	4	+	•	1	1	1	4	ţ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷.	1		4			412			4Te	
Traffic Volume (veh/h)	0	0	0	5	0	5	0	969	5	5	375	0
Future Volume (Veh/h)	0	0	0	5	0	5	0	969	5	5	375	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
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
Hourly flow rate (vph)	0	0	0	5	0	5	0	1053	5	5	408	0
Pedestrians		20			20			20			20	
Lane Width (m)		3.7			3.7			3.7			3.7	
Walking Speed (m/s)		1.2			1.2			1.2			1.2	
Percent Blockage		2			2			2			2	
Right turn flare (veh)			6									
Median type								None			None	
Median storage veh)												
Upstream signal (m)											220	
pX, platoon unblocked												
vC, conflicting volume	990	1516	244	1310	1514	569	428			1078		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	990	1516	244	1310	1514	569	428			1078		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	96	100	99	100			99		
cM capacity (veh/h)	189	116	737	111	116	454	1123			643		
							1120			010		
Direction, Lane #	<u>EB 1</u> 0	<u>WB 1</u> 10	NB 1 526	NB 2 532	SB 1 209	<u>SB 2</u> 204						
Volume Left	0	5	0	0	5	0						
Volume Right	0	5	0	5	0	0						_
cSH Values to Oscarity	1700	179	1123	1700	643	1700						
Volume to Capacity	0.00	0.06	0.00	0.31	0.01	0.12						_
Queue Length 95th (m)	0.0	1.4	0.0	0.0	0.2	0.0						
Control Delay (s)	0.0	26.3	0.0	0.0	0.3	0.0						
Lane LOS	A	D			A							
Approach Delay (s)	0.0	26.3	0.0		0.2							
Approach LOS	А	D										
Intersection Summary												
Average Delay			0.2									
Intersection Capacity Utilization			36.9%	IC	U Level of	Service			А			
Analysis Period (min)			15									

Seton Ridge Development 9: Clayton Park/Bayview & Lacewood

	٠	-	7	4	+	*	1	Ť	1	1	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		412			4 P			4.			4.	
Traffic Volume (vph)	261	663	39	26	163	3	26	58	53	10	14	201
Future Volume (vph)	261	663	39	26	163	3	26	58	53	10	14	201
Satd. Flow (prot)	0	3527	0	0	3555	0	0	1787	0	0	1651	0
Flt Permitted		0.789			0.810			0.916			0.987	
Satd. Flow (perm)	0	2807	0	0	2898	0	0	1650	0	0	1632	0
Satd. Flow (RTOR)		9			3			43			218	
Lane Group Flow (vph)	0	1047	0	0	208	0	0	149	0	0	244	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Total Split (s)	50.0	50.0		50.0	50.0		30.0	30.0		30.0	30.0	
Total Lost Time (s)		3.6			3.6			3.9			3.9	
Act Effct Green (s)		46.4			46.4			26.1			26.1	
Actuated g/C Ratio		0.58			0.58			0.33			0.33	
v/c Ratio		0.64			0.12			0.26			0.36	
Control Delay		13.4			7.7			15.4			5.8	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		13.4			7.7			15.4			5.8	
LOS		В			А			В			А	
Approach Delay		13.4			7.7			15.4			5.8	
Approach LOS		В			А			В			А	
Queue Length 50th (m)		53.4			7.1			12.1			2.8	
Queue Length 95th (m)		73.7			11.9			26.2			18.4	
Internal Link Dist (m)		196.2			187.5			143.1			137.1	
Turn Bay Length (m)												
Base Capacity (vph)		1631			1682			567			679	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.64			0.12			0.26			0.36	
Intersection Summary												
Cycle Length: 80												
Actuated Cycle Length: 80												
Offset: 0 (0%), Referenced to ph	ase 2:EBW	B, Start of	Green									
Control Type: Pretimed												
Maximum v/c Ratio: 0.64												
Intersection Signal Delay: 11.8					tersection I							
Intersection Capacity Utilization	71.4%			IC	U Level of	Service C						
Analysis Period (min) 15												
Splits and Phases: 9: Clayton	Park/Bayvi	ew & Lace	wood									
Ø2 (R)							10	4				

30 s

50 s



Seton Ridge Development 1: Flamingo & Bedford Hwy

	-	7	4	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ĥ		7	+	7	1
Traffic Volume (vph)	671	53	44	378	19	210
Future Volume (vph)	671	53	44	378	19	210
Satd. Flow (prot)	1857	0	1825	1883	1825	1633
Flt Permitted			0.339		0.950	
Satd. Flow (perm)	1857	0	644	1883	1696	1487
Satd. Flow (RTOR)	9					228
Lane Group Flow (vph)	762	0	46	398	21	228
Turn Type	NA		Perm	NA	Prot	Perm
Protected Phases	2			6	4	
Permitted Phases			6			4
Total Split (s)	94.0		94.0	94.0	26.0	26.0
Total Lost Time (s)	4.5		4.0	4.0	4.0	4.0
Act Effct Green (s)	100.3		100.8	100.8	11.2	11.2
Actuated g/C Ratio	0.84		0.84	0.84	0.09	0.09
v/c Ratio	0.49		0.09	0.25	0.12	0.66
Control Delay	4.2		2.5	2.6	49.7	16.0
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	4.2		2.5	2.6	49.7	16.0
LOS	A		2.0 A	2.0 A	D	B
Approach Delay	4.2			2.6	18.8	-
Approach LOS	A			2.0 A	B	
Queue Length 50th (m)	32.6		1.2	12.3	5.0	0.0
Queue Length 95th (m)	77.6		4.9	30.9	12.4	23.7
Internal Link Dist (m)	212.2		т.0	218.2	156.6	20.1
Turn Bay Length (m)	212.2			210.2	100.0	30.0
Base Capacity (vph)	1554		541	1582	334	458
Starvation Cap Reductn	0		0	0	0	430
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.49		0.09	0.25	0.06	0.50
	0.73		0.05	0.20	0.00	0.00
Intersection Summary						
Cycle Length: 120						
Actuated Cycle Length: 120						
Offset: 0 (0%), Referenced to		Start of G	reen			
Control Type: Actuated-Coord	dinated					
Maximum v/c Ratio: 0.66						
Intersection Signal Delay: 6.2				In	tersection	LOS: A
Intersection Capacity Utilization	on 60.7%			IC	U Level of	Service B
Analysis Period (min) 15						
Splits and Phases: 1: Flam	ingo & Bedford	Hwy				

●Ø2 (R)	★ Ø4
94 s	26 s
₹ Ø6	
94 s	

Seton Ridge Development 2: MSVU & Bedford Hwy

	→	7	4	+	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,			4 ₽	٦	1
Traffic Volume (veh/h)	1065	118	99	488	3	23
Future Volume (Veh/h)	1065	118	99	488	3	23
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1121	124	104	514	3	25
Pedestrians	58				30	
Lane Width (m)	3.7				3.7	
Walking Speed (m/s)	1.2				1.2	
Percent Blockage	5				3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			1275		1736	1213
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1275		1736	1213
tC, single (s)			4.1		*5.5	*5.5
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			81		97	91
cM capacity (veh/h)			537		112	276
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	NB 2	
Volume Total	1245	275	343	3	25	
Volume Left	0	104	0	3	0	
Volume Right	124	0	0	0	25	
cSH	1700	537	1700	112	276	
Volume to Capacity	0.73	0.19	0.20	0.03	0.09	
Queue Length 95th (m)	0.0	5.7	0.0	0.7	2.4	
Control Delay (s)	0.0	6.8	0.0	38.0	19.3	
Lane LOS		А		Е	С	
Approach Delay (s)	0.0	3.0		21.3		
Approach LOS				С		
Intersection Summary						
Average Delay			1.3			
Intersection Capacity Utilization			92.8%	IC	U Level of	Service
Analysis Period (min)			15			
			-			
* Lloor Entered Value						

* User Entered Value

Seton Ridge Development 3: Seton & Bedford Hwy

	-	7	1	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			-۠	5	1
Traffic Volume (veh/h)	1169	44	154	638	4	54
Future Volume (Veh/h)	1169	44	154	638	4	54
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1231	46	162	672	4	59
Pedestrians	29			20	43	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	4	
Right turn flare (veh)	-			-		4
Median type	None			None		
Median storage veh)	110110			110110		
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			1320		1986	1317
vC1, stage 1 conf vol			1020		1000	1011
vC2, stage 2 conf vol						
vCu, unblocked vol			1320		1986	1317
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)					0.0	0.0
tF (s)			2.2		3.5	3.3
p0 queue free %			68		89	59
cM capacity (veh/h)			511		35	142
					00	172
Direction, Lane #	EB 1	WB 1	WB 2	NB 1		
Volume Total	1277	386	448	63		
Volume Left	0	162	0	4		
Volume Right	46	0	0	59		
cSH	1700	511	1700	152		
Volume to Capacity	0.75	0.32	0.26	0.41		
Queue Length 95th (m)	0.0	10.8	0.0	14.6		
Control Delay (s)	0.0	9.7	0.0	51.7		
Lane LOS		А		F		
Approach Delay (s)	0.0	4.5		51.7		
Approach LOS				F		
Intersection Summary						
Average Delay			3.2			
Intersection Capacity Utilization			99.8%	IC	U Level of	Service
Analysis Period (min)			15	.0		
			10			

Seton Ridge Development 4: Sherbrooke & Bedford Hwy

	-	7	1	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,			4 ₽	¥	
Traffic Volume (veh/h)	1218	5	5	787	5	10
Future Volume (Veh/h)	1218	5	5	787	5	10
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1282	5	5	828	5	11
Pedestrians	20			20	20	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	2	
Right turn flare (veh)	_			-	-	
Median type	None			None		
Median storage veh)	Tiono			Tiono		
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			1307		1748	1324
vC1, stage 1 conf vol			1001		11 10	1021
vC2, stage 2 conf vol						
vCu, unblocked vol			1307		1748	1324
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)					0.0	0.0
tF (s)			2.2		3.5	3.3
p0 queue free %			99		93	92
cM capacity (veh/h)			527		75	144
					10	
Direction, Lane #	EB 1	WB 1	WB 2 552	<u>NB 1</u> 16		
Volume Total	1287	281				
Volume Left	0	5	0	5		
Volume Right	5	0	0	11		
cSH	1700	527	1700	112		
Volume to Capacity	0.76	0.01	0.32	0.14		
Queue Length 95th (m)	0.0	0.2	0.0	3.8		
Control Delay (s)	0.0	0.3	0.0	42.5		
Lane LOS		А		E		
Approach Delay (s)	0.0	0.1		42.5		
Approach LOS				E		
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utilization			74.4%	IC	U Level of	Service
Analysis Period (min)			15			

Seton Ridge Development 5: Bayview & Bedford Hwy

	-	7	1	-	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ 1≽		3	•	3	1
Traffic Volume (vph)	1433	37	373	567	45	679
Future Volume (vph)	1433	37	373	567	45	679
Satd. Flow (prot)	3566	0	1921	1883	2107	2241
Flt Permitted		·	0.070		0.950	
Satd. Flow (perm)	3566	0	142	1883	2107	2241
Satd. Flow (RTOR)	4					206
Lane Group Flow (vph)	1547	0	373	597	49	679
Turn Type	NA	·	pm+pt	NA	Prot	Perm
Protected Phases	2		pm-pt	6	4	
Permitted Phases	_		6	Ť		4
Total Split (s)	59.0		15.0	74.0	26.0	26.0
Total Lost Time (s)	5.8		0.5	5.8	20.0 6.0	3.0
Act Effct Green (s)	53.2		73.5	68.2	20.0	23.0
	53.2 0.53		73.5 0.74	0.68	20.0	0.23
Actuated g/C Ratio						
v/c Ratio	0.82		1.03	0.46	0.12	1.01
Control Delay	23.7		85.0	4.6	33.7	64.4
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	23.7		85.0	4.6	33.7	64.4
LOS	C		F	A	C	E
Approach Delay	23.7			35.5	62.4	
Approach LOS	C			D	E	
Queue Length 50th (m)	130.1		~43.3	16.4	8.3	~104.9
Queue Length 95th (m)	162.0		#114.0	20.7	18.4	#181.8
Internal Link Dist (m)	307.4			271.2	169.9	
Turn Bay Length (m)						30.0
Base Capacity (vph)	1898		362	1284	421	674
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.82		1.03	0.46	0.12	1.01
Intersection Summary						
Cycle Length: 100						
Actuated Cycle Length: 100						
Offset: 13 (13%), Reference	d to phase 2:EB	T. Start o	of Green			
Control Type: Actuated-Coor		,				
Maximum v/c Ratio: 1.03						
Intersection Signal Delay: 35	5.9			Int	tersection	
Intersection Capacity Utilizat						f Service E
Analysis Period (min) 15	uon 00.370			10		
 Volume exceeds capacit 	v queue is thee	retically	nfinito			
			mmile.			
Queue shown is maximur			mouholos	aor		
# 95th percentile volume e Queue shown is maximur			nay be ion	yer.		
		53.				
Splits and Phases: 5: Bay	view & Bedford	Hwy				
		-				

Ø1	→Ø2 (R)	♦ /Ø4
15 s	59 s	26 s
₹ø6		
74 s		

Seton Ridge Development 6: 50 Bedford Hwy & Bedford Hwy

	-	7	*	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ 1⊳		5	^	5	1
Traffic Volume (vph)	2065	47	74	903	37	74
Future Volume (vph)	2065	47	74	903	37	74
Satd. Flow (prot)	3569	0	1807	3579	1807	1617
Flt Permitted		-	0.062		0.950	
Satd. Flow (perm)	3569	0	118	3579	1807	1617
Satd. Flow (RTOR)	4					80
Lane Group Flow (vph)	2223	0	78	951	40	80
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	
Permitted Phases			6	-		4
Total Split (s)	63.0		13.0	76.0	24.0	24.0
Total Lost Time (s)	5.8		4.0	5.8	6.0	6.0
Act Effct Green (s)	61.0		72.0	70.2	18.0	18.0
Actuated g/C Ratio	0.61		0.72	0.70	0.18	0.18
v/c Ratio	1.02		0.37	0.38	0.10	0.22
Control Delay	38.9		12.0	6.6	35.6	9.9
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	38.9		12.0	6.6	35.6	9.9
LOS	50.9 D		12.0 B	0.0 A	55.0 D	3.5 A
Approach Delay	38.9		D	7.0	18.5	
Approach LOS	00.9 D			7.0 A	10.3 B	
Queue Length 50th (m)	~255.5		4.0	36.1	6.9	0.0
Queue Length 95th (m)	m#295.2		12.7	46.0	16.4	12.6
Internal Link Dist (m)	271.2		12.1	230.3	79.8	12.0
Turn Bay Length (m)	211.2		50.0	200.0	10.0	
Base Capacity (vph)	2178		236	2512	325	356
Starvation Cap Reductn	0		230	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductin	0		0	0	0	0
Reduced v/c Ratio	1.02		0.33	0.38	0.12	0.22
	1.02		0.00	0.00	0.12	0.22
Intersection Summary						
Cycle Length: 100						
Actuated Cycle Length: 100						
Offset: 0 (0%), Referenced		Start of C	Green			
Control Type: Actuated-Coc	ordinated					
Maximum v/c Ratio: 1.02						
Intersection Signal Delay: 2					tersection	
Intersection Capacity Utiliza	ation 77.2%			IC	U Level of	Service D
Analysis Period (min) 15						
 Volume exceeds capaci 			nfinite.			
Queue shown is maximu						
# 95th percentile volume e			may be lon	ger.		
Queue shown is maximu						
m Volume for 95th percer	ntile queue is met	ered by ι	upstream s	ignal.		
Splits and Phases: 6: 50	Bedford Hwy & E	Bedford H	lwv			
	_ calora ring d L	Salora II	,			

🕈 Ø1 🌵 🗖 Ø2	(R)	VØ4
13 s 63 s		24 s
₹ø6		
76 s		

Seton Ridge Development 7: Lacewood & Dunbrack

	٦	-	7	1	+	•	1	Ť	1	4	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	1	^	1	7	^	1	2	≜ †}		7	≜ î∌	
Traffic Volume (vph)	533	353	222	53	182	17	88	517	66	33	318	93
Future Volume (vph)	533	353	222	53	182	17	88	517	66	33	318	93
Satd. Flow (prot)	1767	3500	1759	1807	3579	1617	1807	3522	0	1668	3198	0
Flt Permitted	0.559			0.524			0.372			0.224		
Satd. Flow (perm)	1040	3500	1759	997	3579	1617	708	3522	0	393	3198	0
Satd. Flow (RTOR)			241			88		17			46	
Lane Group Flow (vph)	579	384	241	58	198	18	96	634	0	36	447	0
Turn Type	pm+pt	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases	5	2			6			8			4	
Permitted Phases	2		2	6		6	8			4		
Total Split (s)	24.0	55.0	55.0	31.0	31.0	31.0	40.0	40.0		40.0	40.0	
Total Lost Time (s)	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1		4.1	4.1	
Act Effct Green (s)	61.2	61.1	61.1	35.4	35.4	35.4	25.7	25.7		25.7	25.7	
Actuated g/C Ratio	0.64	0.64	0.64	0.37	0.37	0.37	0.27	0.27		0.27	0.27	
v/c Ratio	0.69	0.17	0.20	0.16	0.15	0.03	0.50	0.66		0.34	0.50	
Control Delay	15.0	7.6	1.6	25.6	22.7	0.1	37.9	32.9		35.8	27.4	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	15.0	7.6	1.6	25.6	22.7	0.1	37.9	32.9		35.8	27.4	
LOS	В	А	А	С	С	А	D	С		D	С	
Approach Delay		10.0			21.8			33.6			28.0	
Approach LOS		А			С			С			С	
Queue Length 50th (m)	53.1	14.0	0.0	7.5	13.5	0.0	15.7	55.6		5.6	34.2	
Queue Length 95th (m)	95.4	24.3	9.4	19.2	24.2	0.0	30.0	67.9		14.3	44.8	
Internal Link Dist (m)		244.5			347.6			162.5			194.1	
Turn Bay Length (m)	60.0		70.0	65.0		65.0	70.0			20.0		
Base Capacity (vph)	846	2252	1217	371	1332	657	267	1341		148	1237	
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio	0.68	0.17	0.20	0.16	0.15	0.03	0.36	0.47		0.24	0.36	
Intersection Summary												
Cycle Length: 95												
Actuated Cycle Length: 95												
Offset: 8 (8%), Referenced to	phase 2:EBT	L and 6:WI	BTL, Start	of Green								
Control Type: Actuated-Coord	inated											
Maximum v/c Ratio: 0.69												
Intersection Signal Delay: 20.8					tersection							
Intersection Capacity Utilization	on 77.8%			IC	U Level of	Service D						
Analysis Period (min) 15												
Splits and Phases: 7: Lacev	vood & Dunbi	ack										
4 (9)	_						04					25

🗘 Ø2 (R)			
55 s		40 s	
▶ Ø5	🖉 🖉 Ø6 (R)	Ø8	
24 s	31 s	40 s	

Seton Ridge Development 8: Lacewood & Lacewood Access

	٠	+	7	4	Ļ	*	1	1	1	4	ţ	~
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷.	1		4			đ î i			4 P	
Traffic Volume (veh/h)	0	Ō	0	5	0	5	0	1019	5	5	394	0
Future Volume (Veh/h)	0	0	0	5	0	5	0	1019	5	5	394	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
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
Hourly flow rate (vph)	0	0	0	5	0	5	0	1108	5	5	428	0
Pedestrians		20			20			20			20	
Lane Width (m)		3.7			3.7			3.7			3.7	
Walking Speed (m/s)		1.2			1.2			1.2			1.2	
Percent Blockage		2			2			2			2	
Right turn flare (veh)			6									
Median type								None			None	
Median storage veh)												
Upstream signal (m)											220	
pX, platoon unblocked												
vC, conflicting volume	1037	1591	254	1374	1588	596	448			1133		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1037	1591	254	1374	1588	596	448			1133		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	95	100	99	100			99		
cM capacity (veh/h)	174	104	726	100	104	436	1104			613		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	0	10	554	559	219	214						
Volume Left	0	5	0	0	5	0						
Volume Right	0	5	0	5	0	0						
cSH	1700	162	1104	1700	613	1700						
Volume to Capacity	0.00	0.06	0.00	0.33	0.01	0.13						
Queue Length 95th (m)	0.0	1.6	0.0	0.0	0.2	0.0						
Control Delay (s)	0.0	28.7	0.0	0.0	0.3	0.0						
Lane LOS	А	D			А							
Approach Delay (s)	0.0	28.7	0.0		0.2							
Approach LOS	А	D										
Intersection Summary												
Average Delay			0.2									
Intersection Capacity Utilization			38.3%	IC	U Level of	Service			А			
Analysis Period (min)			15									

Seton Ridge Development 9: Clayton Park/Bayview & Lacewood

	٠	→	7	4	+	*	1	Ť	1	5	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4 P			4 Pr			4			4	
Traffic Volume (vph)	275	697	41	27	171	3	27	61	56	11	15	211
Future Volume (vph)	275	697	41	27	171	3	27	61	56	11	15	211
Satd. Flow (prot)	0	3527	0	0	3555	0	0	1787	0	0	1653	0
Flt Permitted		0.786			0.802			0.913			0.985	
Satd. Flow (perm)	0	2797	0	0	2870	0	0	1644	0	0	1631	0
Satd. Flow (RTOR)		9			3			43			229	
Lane Group Flow (vph)	0	1102	0	0	218	0	0	156	0	0	257	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases	•	2		<u>^</u>	2			4			4	
Permitted Phases	2	50.0		2	50.0		4	00.0		4	00.0	_
Total Split (s)	50.0	50.0		50.0	50.0		30.0	30.0		30.0	30.0	
Total Lost Time (s)		3.6			3.6			3.9			3.9	_
Act Effct Green (s)		46.4			46.4			26.1			26.1	
Actuated g/C Ratio		0.58			0.58			0.33			0.33	_
v/c Ratio		0.68 14.2			0.13 7.8			0.28 15.8			0.37 5.9	
Control Delay Queue Delay		0.0			7.8 0.0			0.0			5.9 0.0	
Total Delay		14.2			7.8			15.8			0.0 5.9	
LOS		14.2 B			7.0 A			15.8 B			5.9 A	
Approach Delay		14.2			7.8			15.8			5.9	
Approach LOS		В			7.0 A			10.0 B			0.5 A	
Queue Length 50th (m)		58.1			7.5			12.9			3.0	
Queue Length 95th (m)		80.2			12.4			27.5			19.2	
Internal Link Dist (m)		196.2			187.5			143.1			137.1	
Turn Bay Length (m)												
Base Capacity (vph)		1626			1665			565			686	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.68			0.13			0.28			0.37	
Intersection Summary												
Cycle Length: 80												
Actuated Cycle Length: 80			_									
Offset: 0 (0%), Referenced to p	hase 2:EBW	B, Start of	Green									
Control Type: Pretimed												
Maximum v/c Ratio: 0.68												
Intersection Signal Delay: 12.3					tersection							
Intersection Capacity Utilization	172.8%			IC	U Level of	Service C						
Analysis Period (min) 15												
Splits and Phases: 9: Clayto	n Park/Bayvi	ew & Lace	wood				1					
Ø2 (R)							1 ø	4				

30 s

50 s



Seton Ridge Development 1: Flamingo & Bedford Hwy

	-	7	1	-	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,		٦	+	٦	1
Traffic Volume (vph)	756	53	55	471	19	238
Future Volume (vph)	756	53	55	471	19	238
Satd. Flow (prot)	1860	0	1825	1883	1825	1633
Flt Permitted			0.299		0.950	
Satd. Flow (perm)	1860	0	574	1883	1696	1487
Satd. Flow (RTOR)	8					253
Lane Group Flow (vph)	852	0	58	496	21	259
Turn Type	NA		Perm	NA	Prot	Perm
Protected Phases	2			6	4	
Permitted Phases	-		6			4
Total Split (s)	94.0		94.0	94.0	26.0	26.0
Total Lost Time (s)	4.5		4.0	4.0	4.0	4.0
Act Effct Green (s)	99.9		100.4	100.4	11.6	11.6
Actuated g/C Ratio	0.83		0.84	0.84	0.10	0.10
v/c Ratio	0.05		0.04	0.32	0.10	0.70
Control Delay	5.1		2.9	3.1	48.8	16.9
Queue Delay	0.0		2.9	0.0	40.0	0.0
Total Delay	0.0 5.1		2.9	3.1	48.8	0.0 16.9
LOS	5.1 A		2.9 A	3.1 A	40.0 D	16.9 B
Approach Delay	5.1		A	3.1	19.3	D
	5.1 A			3.1 A	19.3 B	
Approach LOS			1.6		в 5.0	1 4
Queue Length 50th (m)	39.8		1.6	16.5		1.4
Queue Length 95th (m)	102.3		6.6	43.4	12.2	26.7
Internal Link Dist (m)	212.2			218.2	156.6	20.0
Turn Bay Length (m)	4540		470	4574	004	30.0
Base Capacity (vph)	1548		479	1574	334	479
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.55		0.12	0.32	0.06	0.54
Intersection Summary						
Cycle Length: 120						
Actuated Cycle Length: 120						
Offset: 0 (0%), Referenced to	ohase 2:FBT	Start of G	reen			
Control Type: Actuated-Coord						
Maximum v/c Ratio: 0.70						
Intersection Signal Delay: 6.8				Int	tersection	OS' A
Intersection Capacity Utilizatio	n 66 9%				U Level of	
Analysis Period (min) 15				10		
Splits and Phases: 1: Flami	ngo & Bedford	Hwv				
		,				

● Ø2 (R)	1 Ø4
94s	26 s
✓ Ø6	
94 s	

Seton Ridge Development 2: MSVU & Bedford Hwy

	→	7	*	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	f.			4 ₽	7	1
Traffic Volume (veh/h)	1178	118	99	592	3	23
Future Volume (Veh/h)	1178	118	99	592	3	23
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1240	124	104	623	3	25
Pedestrians	58				30	
Lane Width (m)	3.7				3.7	
Walking Speed (m/s)	1.2				1.2	
Percent Blockage	5				3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)				259		
pX, platoon unblocked						
vC, conflicting volume			1394		1910	1332
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			1394		1910	1332
tC, single (s)			4.1		*5.5	*5.5
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			79		97	90
cM capacity (veh/h)			484		89	241
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	NB 2	
Volume Total	1364	312	415	3	25	
Volume Left	0	104	0	3	0	
Volume Right	124	0	0	0	25	
cSH	1700	484	1700	89	241	
Volume to Capacity	0.80	0.21	0.24	0.03	0.10	
Queue Length 95th (m)	0.0	6.5	0.0	0.8	2.7	
Control Delay (s)	0.0	7.2	0.0	46.9	21.7	
Lane LOS		А		E	С	
Approach Delay (s)	0.0	3.1		24.4		
Approach LOS				С		
Intersection Summary						
Average Delay			1.4			
Intersection Capacity Utilization			101.9%	IC	U Level of	Service
Analysis Period (min)			15			
,						
* User Entered Value						

* User Entered Value

Seton Ridge Development 3: Seton & Bedford Hwy

	-+	>	1	-	1	1
					۱ IOI	
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1161	162	1 253	622	ካ 112	277
Traffic Volume (vph) Future Volume (vph)	1161 1161	162	253 253	633 633	112	277
			253 1825			
Satd. Flow (prot)	3468	0		1883	1825	1633
Flt Permitted	2400	0	0.079	4000	0.950	4000
Satd. Flow (perm)	3468	0	152	1883	1746	1633
Satd. Flow (RTOR)	21	•	000	000	100	293
Lane Group Flow (vph)	1393	0	266	666	122	301
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	
Permitted Phases			6			4
Total Split (s)	54.0		20.0	74.0	26.0	26.0
Total Lost Time (s)	5.8		4.0	5.8	6.0	6.0
Act Effct Green (s)	50.6		70.0	68.2	20.0	20.0
Actuated g/C Ratio	0.51		0.70	0.68	0.20	0.20
v/c Ratio	0.79		0.80	0.52	0.33	0.54
Control Delay	24.6		46.7	4.7	37.3	8.6
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	24.6		46.7	4.7	37.3	8.6
LOS	C		D	A	D	A
Approach Delay	24.6		-	16.7	16.9	
Approach LOS	C			В	В	
Queue Length 50th (m)	120.5		29.7	20.8	21.5	1.3
Queue Length 95th (m)	154.1		#65.5	26.4	38.6	24.1
Internal Link Dist (m)	235.5		#00.0	71.5	133.6	27.1
Turn Bay Length (m)	200.0			71.0	100.0	30.0
Base Capacity (vph)	1766		374	1284	365	561
Starvation Cap Reductn	0		0	0	0	0
			0		-	
Spillback Cap Reductn	0		-	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.79		0.71	0.52	0.33	0.54
Intersection Summary						
Cycle Length: 100						
Actuated Cycle Length: 100						
Offset: 48 (48%), Referenced		ST and 6:\	NBTL, Star	t of Green		
Control Type: Actuated-Coor	dinated					
Maximum v/c Ratio: 0.80						
Intersection Signal Delay: 20	.7			In	tersection	LOS: C
Intersection Capacity Utilizat				IC	U Level of	Service C
Analysis Period (min) 15						

Analysis Period (min) 15 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 3: Seton & Bedford Hwy

√ Ø1	∎ →Ø2 (R)	★ \Ø4
20 s	54 s	26 s
Ø6 (R)	•	
74 s		

Seton Ridge Development 4: Sherbrooke & Bedford Hwy

	-	7	-	←	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ t}			4ħ	Y	
Traffic Volume (veh/h)	1428	10	10	876	10	10
Future Volume (Veh/h)	1428	10	10	876	10	10
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1503	11	11	922	11	11
Pedestrians	20			20	20	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	2	
Right turn flare (veh)	_			_	-	
Median type	None			None		
Median storage veh)	Nono			Nono		
Upstream signal (m)	95					
pX, platoon unblocked	50		0.67		0.67	0.67
vC, conflicting volume			1534		2032	797
vC1, stage 1 conf vol			1004		2002	101
vC2, stage 2 conf vol						
vCu, unblocked vol			822		1561	0
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)			7.1		0.0	0.5
tF (s)			2.2		3.5	3.3
p0 queue free %			98		84	98
cM capacity (veh/h)			540		67	709
,					•	105
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	
Volume Total	1002	512	318	615	22	
Volume Left	0	0	11	0	11	
Volume Right	0	11	0	0	11	
cSH	1700	1700	540	1700	122	
Volume to Capacity	0.59	0.30	0.02	0.36	0.18	
Queue Length 95th (m)	0.0	0.0	0.5	0.0	5.0	
Control Delay (s)	0.0	0.0	0.7	0.0	40.9	
Lane LOS			А		E	
Approach Delay (s)	0.0		0.2		40.9	
Approach LOS					E	
Intersection Summary						
Average Delay			0.5			
Intersection Capacity Utilization			49.8%	IC	U Level of	Service
Analysis Period (min)			15	10		
Analysis Fellou (IIIII)			10			

Seton Ridge Development 5: Bayview & Bedford Hwy

	-	7	*	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	4 12		5	•	٦	1
Traffic Volume (vph)	1651	37	335	663	43	649
Future Volume (vph)	1651	37	335	663	43	649
Satd. Flow (prot)	3569	0	1921	1883	2107	2241
Flt Permitted			0.070		0.950	
Satd. Flow (perm)	3569	0	142	1883	2107	2241
Satd. Flow (RTOR)	3					199
Lane Group Flow (vph)	1723	0	335	698	47	649
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	
Permitted Phases			6			4
Total Split (s)	59.0		15.0	74.0	26.0	26.0
Total Lost Time (s)	5.8		0.5	5.8	6.0	3.0
Act Effct Green (s)	53.2		73.5	68.2	20.0	23.0
Actuated g/C Ratio	0.53		0.74	0.68	0.20	0.23
v/c Ratio	0.91		0.93	0.54	0.11	0.97
Control Delay	37.3		63.4	6.6	33.7	56.1
Queue Delay	4.2		0.0	0.0	0.0	1.9
Total Delay	41.5		63.4	6.6	33.7	58.0
LOS	D		E	A	C	E
Approach Delay	41.5			25.0	56.3	
Approach LOS	D			C	E	
Queue Length 50th (m)	193.5		41.2	28.2	7.9	96.3
Queue Length 95th (m)	#224.7		#96.0	35.0	18.0	#170.3
Internal Link Dist (m)	307.4			271.2	169.9	
Turn Bay Length (m)						30.0
Base Capacity (vph)	1900		362	1284	421	668
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	127		0	0	0	7
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.97		0.93	0.54	0.11	0.98
Intersection Summary						
Cycle Length: 100						
Actuated Cycle Length: 100						
Offset: 13 (13%), Referenced	d to phase 2:EB	T, Start o	f Green			
Control Type: Actuated-Coor						
Maximum v/c Ratio: 0.97						
Intersection Signal Delay: 39	.6			In	tersection	LOS: D
Intersection Capacity Utilizat				IC	U Level o	f Service F
Analysis Period (min) 15						
# 95th percentile volume ex	xceeds capacity	, queue r	nay be lon	ger.		
Queue shown is maximur						

Splits and Phases: 5: Bayview & Bedford Hwy

Ø1	♥ → Ø2 (R)	16 64	1 ï4
15 s	59 s		26 s
₹ø6			2 mg
74 s			

Seton Ridge Development 6: 50 Bedford Hwy & Bedford Hwy

	→	7	*	-	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ 1⊳		5	^	5	1
Traffic Volume (vph)	2247	52	74	958	40	74
Future Volume (vph)	2247	52	74	958	40	74
Satd. Flow (prot)	3569	0	1807	3579	1807	1617
Flt Permitted		v	0.058	0010	0.950	
Satd. Flow (perm)	3569	0	110	3579	1807	1617
Satd. Flow (RTOR)	5					80
Lane Group Flow (vph)	2346	0	78	1008	43	80
Turn Type	NA	v	pm+pt	NA	Prot	Perm
Protected Phases	2		pin-pt 1	6	4	
Permitted Phases	L		6	v		4
Total Split (s)	69.0		11.0	80.0	20.0	20.0
Total Lost Time (s)	3.8		4.0	5.8	6.0	6.0
Act Effct Green (s)	67.4		76.0	74.2	14.0	14.0
Actuated g/C Ratio	07.4		0.76	0.74	0.14	0.14
v/c Ratio	0.87		0.78	0.74	0.14	0.14
Control Delay	21.2					
			12.5	5.1	39.9	11.6
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	21.2		12.5	5.1	39.9	11.6
LOS Approach Deley	C		В	A	D	В
Approach Delay	21.2			5.6	21.5	
Approach LOS	C		0.0	A	C	0.0
Queue Length 50th (m)	~131.2		3.3	32.5	7.8	0.0
Queue Length 95th (m)	m#292.8		13.0	41.2	18.2	13.2
Internal Link Dist (m)	271.2		F^ ^	230.3	79.8	
Turn Bay Length (m)			50.0	00	6 -0	<u> </u>
Base Capacity (vph)	2406		202	2655	252	295
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.98		0.39	0.38	0.17	0.27
Intersection Summary						
Cycle Length: 100						
Actuated Cycle Length: 10						
Offset: 0 (0%), Referenced		Start of G	Green			
Control Type: Actuated-Co						
Maximum v/c Ratio: 0.98						
Intersection Signal Delay:	16.5			Int	tersection I	LOS: B
Intersection Capacity Utiliz					U Level of	
Analysis Period (min) 15						
 Volume exceeds capacity 	city, queue is theo	retically i	nfinite.			
Queue shown is maxim						
# 95th percentile volume			nav be lon	aer.		
Queue shown is maxim			.,			
m Volume for 95th perce			ipstream si	gnal.		
	·		•	0		
Splits and Phases: 6: 50) Bedford Hwy & B	edford H	wy			

Splits and Phases: 6: 50 Bedford Hwy & Bedford Hwy

✓ Ø1 → Ø2 (R)	▲ √Ø4
11 s 69 s	20 s
₹ Ø6	
80 s	

Seton Ridge Development 7: Lacewood & Dunbrack

	٦	→	7	4	-	*	1	Ť	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations	7	**	1	5	^	1	7	1		5	† 1 ₂	
Traffic Volume (vph)	568	353	222	53	182	20	88	549	66	39	374	109
Future Volume (vph)	568	353	222	53	182	20	88	549	66	39	374	109
Satd. Flow (prot)	1767	3500	1759	1807	3579	1617	1807	3525	0	1668	3198	(
Flt Permitted	0.554			0.524			0.315			0.211		
Satd. Flow (perm)	1031	3500	1759	997	3579	1617	599	3525	0	370	3198	(
Satd. Flow (RTOR)			241			88		16			45	
Lane Group Flow (vph)	617	384	241	58	198	22	96	669	0	42	525	(
Turn Type	pm+pt	NA	Perm	Perm	NA	Perm	Perm	NA		Perm	NA	
Protected Phases	5	2			6			8			4	
Permitted Phases	2		2	6		6	8			4		
Total Split (s)	24.0	55.0	55.0	31.0	31.0	31.0	40.0	40.0		40.0	40.0	
Total Lost Time (s)	4.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1		4.1	4.1	
Act Effct Green (s)	60.2	60.1	60.1	32.7	32.7	32.7	26.7	26.7		26.7	26.7	
Actuated g/C Ratio	0.63	0.63	0.63	0.34	0.34	0.34	0.28	0.28		0.28	0.28	
v/c Ratio	0.74	0.17	0.20	0.17	0.16	0.04	0.57	0.67		0.41	0.56	
Control Delay	17.9	8.1	1.7	26.9	24.1	0.1	42.2	32.4		38.7	28.4	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	17.9	8.1	1.7	26.9	24.1	0.1	42.2	32.4		38.7	28.4	
LOS	В	A	Α	20.0 C	C	A	- <u>-</u> 2.2	02.4 C		D	20.4 C	
Approach Delay	D	11.7	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ũ	22.8	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	U	33.7		U	29.1	
Approach LOS		B			22.0 C			C			20.1 C	
Queue Length 50th (m)	60.3	14.4	0.0	8.3	14.9	0.0	15.9	58.7		6.6	41.6	
Queue Length 95th (m)	#116.8	25.4	9.8	19.2	24.2	0.0	31.0	70.4		16.3	52.4	
Internal Link Dist (m)	#110.0	244.5	5.0	15.2	347.6	0.0	01.0	162.5		10.0	194.1	
Turn Bay Length (m)	60.0	244.0	70.0	65.0	0.11.0	65.0	70.0	102.0		20.0	104.1	
Base Capacity (vph)	838	2213	1201	342	1231	613	226	1342		139	1236	
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio	0.74	0.17	0.20	0.17	0.16	0.04	0.42	0.50		0.30	0.42	
Intersection Summary	-	-		-			-				-	
Cycle Length: 95												
Actuated Cycle Length: 95												
Offset: 8 (8%), Referenced to	phase 2:EBT	and 6:WE	3TL. Start	of Green								
Control Type: Actuated-Coord			,									
Maximum v/c Ratio: 0.74												
Intersection Signal Delay: 22.	.2			In	tersection	LOS: C						
Intersection Capacity Utilizati					U Level of							
Analysis Period (min) 15						0011002						
 # 95th percentile volume ex 	ceeds capacit	v queue m	nav be lon	her								
Queue shown is maximum				301.								
Splits and Phases: 7: Lace	wood & Dunbr	ack										
A		uun										35
ۯ2 (R)						+	Ø4					
55 s		4				40 s						
Ø5		Ø6 (R)				-	Ø8					
24 s	31	2				40 s						

Seton Ridge Development 8: Lacewood & Lacewood Access

	٨	+	*	4	ł	*	1	1	1	1	ţ	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷.	1		4.			đ î þ			đ î i	
Traffic Volume (vph)	123	Ō	117	5	0	5	100	989	5	5	356	52
Future Volume (vph)	123	0	117	5	0	5	100	989	5	5	356	52
Satd. Flow (prot)	0	1825	1633	0	1748	0	0	3564	0	0	3517	0
Flt Permitted		0.751			0.913			0.851			0.945	
Satd. Flow (perm)	0	1443	1633	0	1635	0	0	3048	0	0	3326	0
Satd. Flow (RTOR)			127		14			1			40	
Lane Group Flow (vph)	0	134	127	0	10	0	0	1189	0	0	449	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			4			2			2	
Permitted Phases	4		4	4			2			2		
Total Split (s)	25.0	25.0	25.0	25.0	25.0		55.0	55.0		55.0	55.0	
Total Lost Time (s)		4.0	4.0		4.0			4.0			4.0	
Act Effct Green (s)		21.0	21.0		21.0			51.0			51.0	
Actuated g/C Ratio		0.26	0.26		0.26			0.64			0.64	
v/c Ratio		0.35	0.24		0.02			0.61			0.21	
Control Delay		27.3	6.1		9.8			10.3			5.2	
Queue Delay		0.0	0.0		0.0			0.0			0.0	
Total Delay		27.3	6.1		9.8			10.3			5.2	
LOS		С	А		А			В			А	
Approach Delay		16.9			9.8			10.3			5.2	
Approach LOS		В			А			В			А	
Queue Length 50th (m)		17.4	0.0		0.0			52.4			10.6	
Queue Length 95th (m)		33.2	12.4		3.2			70.9			19.7	
Internal Link Dist (m)		111.7			74.7			169.9			196.2	
Turn Bay Length (m)			50.0									
Base Capacity (vph)		378	522		439			1943			2134	
Starvation Cap Reductn		0	0		0			0			0	
Spillback Cap Reductn		0	0		0			0			0	
Storage Cap Reductn		0	0		0			0			0	
Reduced v/c Ratio		0.35	0.24		0.02			0.61			0.21	
Intersection Summary												
Cycle Length: 80												
Actuated Cycle Length: 80												
Offset: 0 (0%), Referenced to p		B and 6:, 8	Start of Gre	en								
Control Type: Actuated-Coordi	nated											
Maximum v/c Ratio: 0.61												
Intersection Signal Delay: 10.0					tersection							
Intersection Capacity Utilizatio	n 64.1%			IC	U Level of	Service C						
Analysis Period (min) 15												
Splits and Phases: 8: Lacew	ood & Lacev	vood Acce	SS									
Ø2 (R)								*	1			-
₩102 (K)								- 10 ⁴	t			

Seton Ridge Development 9: Clayton Park/Bayview & Lacewood

	٨	+	7	4	+	•	1	Ť	1	4	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		412			412			4			4.	
Traffic Volume (vph)	255	800	51	27	213	3	32	61	56	6	15	178
Future Volume (vph)	255	800	51	27	213	3	32	61	56	6	15	178
Satd. Flow (prot)	0	3527	0	0	3560	0	0	1788	0	0	1651	0
Flt Permitted		0.789			0.806			0.904			0.991	
Satd. Flow (perm)	0	2804	0	0	2883	0	0	1632	0	0	1639	0
Satd. Flow (RTOR)		10			2			40			193	
Lane Group Flow (vph)	0	1202	0	0	264	0	0	162	0	0	216	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases	•	2		<u>^</u>	2			4			4	
Permitted Phases	2	50.0		2	50.0		4			4	00.0	
Total Split (s)	50.0	50.0		50.0	50.0		30.0	30.0		30.0	30.0	
Total Lost Time (s)		3.6			3.6			3.9			3.9	
Act Effct Green (s)		46.4			46.4			26.1			26.1	
Actuated g/C Ratio		0.58			0.58			0.33			0.33	
v/c Ratio		0.74			0.16			0.29			0.33	
Control Delay		10.2 0.0			8.0 0.0			16.6 0.0			5.8	
Queue Delay		10.2			0.0 8.0			0.0 16.6			0.0 5.8	
Total Delay LOS		10.2 B			0.0 A			10.0 B			5.0 A	
Approach Delay		10.2			8.0			16.6			5.8	
Approach LOS		10.2 B			0.0 A			10.0 B			3.0 A	
Queue Length 50th (m)		36.7			9.3			14.0			2.5	
Queue Length 95th (m)		44.2			14.8			29.0			17.2	
Internal Link Dist (m)		196.2			187.5			143.1			137.1	
Turn Bay Length (m)												
Base Capacity (vph)		1630			1672			559			664	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.74			0.16			0.29			0.33	
Intersection Summary												
Cycle Length: 80												
Actuated Cycle Length: 80												
Offset: 0 (0%), Referenced to	phase 2:EBW	/B, Start of	Green									
Control Type: Pretimed												
Maximum v/c Ratio: 0.74												
Intersection Signal Delay: 9.9	00.0T/				tersection							
Intersection Capacity Utilization	n 80.8%			IC	U Level of	Service D						
Analysis Period (min) 15												
Splits and Phases: 9: Clayto	on Park/Bayvi	iew & Lace	wood				_					
Ø2 (R)							#0	4				
- 22 (K)							110					_

30 s

50 s



Seton Ridge Development 1: Flamingo & Bedford Hwy

	-	7	1	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	î,		۲	•	۲	1
Traffic Volume (vph)	487	22	175	876	92	155
Future Volume (vph)	487	22	175	876	92	155
Satd. Flow (prot)	1868	0	1825	1883	1825	1633
Flt Permitted			0.441		0.950	
Satd. Flow (perm)	1868	0	829	1883	1696	1487
Satd. Flow (RTOR)	5					168
Lane Group Flow (vph)	536	0	184	922	100	168
Turn Type	NA	-	Perm	NA	Prot	Perm
Protected Phases	2			6	4	
Permitted Phases	-		6			4
Total Split (s)	94.0		94.0	94.0	26.0	26.0
Total Lost Time (s)	4.5		4.0	4.0	4.0	4.0
Act Effct Green (s)	97.6		98.1	98.1	13.9	13.9
Actuated g/C Ratio	0.81		0.82	0.82	0.12	0.12
v/c Ratio	0.35		0.02	0.60	0.12	0.12
Control Delay	3.9		4.1	6.3	56.3	13.1
Queue Delay	0.0		4.1 0.0	0.0	0.0	0.0
Total Delay	0.0 3.9		4.1	6.3	56.3	13.1
LOS	3.9 A		4.1 A	6.3 A	56.3 E	13.1 B
Approach Delay	A 3.9		A	А 5.9	E 29.2	D
Approach LOS	A		0.4	A	C	0.0
Queue Length 50th (m)	27.1		8.4	64.0	23.6	0.0
Queue Length 95th (m)	48.2		18.7	113.7	40.1	20.2
Internal Link Dist (m)	212.2			218.2	156.6	00.0
Turn Bay Length (m)	4=00		<u></u>	1 = 0 0	6 1	30.0
Base Capacity (vph)	1520		677	1539	334	409
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.35		0.27	0.60	0.30	0.41
Intersection Summary						
Cycle Length: 120						
Actuated Cycle Length: 120						
Offset: 0 (0%), Referenced to p	ohase 2:EBT,	Start of G	reen			
Control Type: Actuated-Coordin						
Maximum v/c Ratio: 0.60						
Intersection Signal Delay: 8.6				Int	tersection	LOS: A
Intersection Capacity Utilization	n 62.7%			IC	U Level of	Service B
Analysis Period (min) 15						
Splits and Phases: 1: Flamin	ngo & Bedford	Hwy				

• →ø2 (R)	1 ∕Ø4
94 s	26 s
₩Ø6	
94 s	

Seton Ridge Development 2: MSVU & Bedford Hwy

	-	7	1	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,			4 Ъ	٢	1
Traffic Volume (veh/h)	576	28	33	1312	41	155
Future Volume (Veh/h)	576	28	33	1312	41	155
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	606	29	35	1381	45	168
Pedestrians	58				30	
Lane Width (m)	3.7				3.7	
Walking Speed (m/s)	1.2				1.2	
Percent Blockage	5				3	
Right turn flare (veh)	J				÷	
Median type	None			None		
Median storage veh)	TONO			Nono		
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			665		1469	650
vC1, stage 1 conf vol			000		1400	000
vC2, stage 2 conf vol						
vCu, unblocked vol			665		1469	650
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)			7.1		0.0	0.5
tF (s)			2.2		3.5	3.3
p0 queue free %			96		58	59
cM capacity (veh/h)			910		107	406
						-00
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	NB 2	
	635	495	921	45	168	
Volume Left	0	35	0	45	0	
Volume Right	29	0	0	0	168	
cSH	1700	910	1700	107	406	
Volume to Capacity	0.37	0.04	0.54	0.42	0.41	
Queue Length 95th (m)	0.0	1.0	0.0	14.1	15.9	
Control Delay (s)	0.0	1.1	0.0	60.9	20.0	
Lane LOS		А		F	С	
Approach Delay (s)	0.0	0.4		28.6		
Approach LOS				D		
Intersection Summary						
Average Delay			2.9			
Intersection Capacity Utilization			69.9%	IC	U Level of	Service
Analysis Period (min)			15			
			.5			

Seton Ridge Development 3: Seton & Bedford Hwy

	-	7	4	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			4 ₽	7	1
Traffic Volume (veh/h)	721	22	52	1400	16	112
Future Volume (Veh/h)	721	22	52	1400	16	112
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	759	23	55	1474	17	122
Pedestrians	29			20	43	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	4	
Right turn flare (veh)	-			-		4
Median type	None			None		
Median storage veh)	110110			110110		
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			825		1690	834
vC1, stage 1 conf vol			020		1000	001
vC2, stage 2 conf vol						
vCu, unblocked vol			825		1690	834
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)			7.1		0.0	0.0
tF (s)			2.2		3.5	3.3
p0 queue free %			93		77	59
cM capacity (veh/h)			784		75	299
					75	255
Direction, Lane #	EB 1	WB 1	WB 2	NB 1		
Volume Total	782	546	983	139		
Volume Left	0	55	0	17		
Volume Right	23	0	0	122		
cSH	1700	784	1700	341		
Volume to Capacity	0.46	0.07	0.58	0.41		
Queue Length 95th (m)	0.0	1.8	0.0	15.4		
Control Delay (s)	0.0	1.9	0.0	30.1		
Lane LOS		А		D		
Approach Delay (s)	0.0	0.7		30.1		
Approach LOS				D		
Intersection Summary						
Average Delay			2.1			
Intersection Capacity Utilization			86.6%	IC	U Level of	Service
Analysis Period (min)			15	10	2 2070101	2011100
			10			

Seton Ridge Development 4: Sherbrooke & Bedford Hwy

	-	7	1	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ħ			-۠	¥	
Traffic Volume (veh/h)	823	10	10	1442	10	10
Future Volume (Veh/h)	823	10	10	1442	10	10
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	866	11	11	1518	11	11
Pedestrians	20			20	20	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			897		1692	912
vC1, stage 1 conf vol			•••			•
vC2, stage 2 conf vol						
vCu, unblocked vol			897		1692	912
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)					0.0	0.0
tF (s)			2.2		3.5	3.3
p0 queue free %			99		87	96
cM capacity (veh/h)			752		82	271
					02	_/ \
Direction, Lane #	EB 1	<u>WB 1</u> 517	WB 2 1012	NB 1 22		
	877					
Volume Left	0	11	0	11		
Volume Right	11	0	0	11		
cSH	1700	752	1700	125		
Volume to Capacity	0.52	0.01	0.60	0.18		
Queue Length 95th (m)	0.0	0.4	0.0	4.9		
Control Delay (s)	0.0	0.4	0.0	39.7		
Lane LOS		А		E		
Approach Delay (s)	0.0	0.1		39.7		
Approach LOS				E		
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utilization			56.9%	IC	U Level of	Service
Analysis Period (min)			15			
· · · · · · · · · · · · · · · · · · ·						

Seton Ridge Development 5: Bayview & Bedford Hwy

	-	7	1	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	† 1 ₂		7	+	7	1
Traffic Volume (vph)	712	107	749	1477	50	406
Future Volume (vph)	712	107	749	1477	50	406
Satd. Flow (prot)	3516	0	1921	1983	2107	2241
Flt Permitted			0.225		0.950	
Satd. Flow (perm)	3516	0	455	1983	2107	2241
Satd. Flow (RTOR)	18					406
Lane Group Flow (vph)	862	0	749	1477	54	406
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	
Permitted Phases			6			4
Total Split (s)	50.0		34.0	84.0	26.0	26.0
Total Lost Time (s)	5.8		-0.5	1.3	6.0	3.0
Act Effct Green (s)	45.2		84.5	82.7	20.0	23.0
Actuated g/C Ratio	0.41		0.77	02.7	0.18	0.21
v/c Ratio	0.59		0.94	0.99	0.10	0.21
Control Delay	27.0		41.0	25.0	39.0	6.2
Queue Delay	0.0		0.0	0.0	0.0	0.2
Total Delay	27.0		41.0	25.0	39.0	6.2
LOS	27.0 C		41.0 D	25.0 C	39.0 D	0.2 A
Approach Delay	27.0		U	30.4	10.0	A
	27.0 C			30.4 C	10.0 B	
Approach LOS	78.1		07.0		в 10.3	0.0
Queue Length 50th (m)			97.6	87.9		0.0
Queue Length 95th (m)	99.1		m#176.5	#425.8	21.9	24.9
Internal Link Dist (m)	307.4			271.2	169.9	20.0
Turn Bay Length (m)	4455		000	4.400	0.00	30.0
Base Capacity (vph)	1455		809	1490	383	789
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.59		0.93	0.99	0.14	0.51
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110						
Offset: 13 (12%), Referenced	to phase 2:EB	T, Start o	f Green			
Control Type: Actuated-Coord						
Maximum v/c Ratio: 0.99						
Intersection Signal Delay: 26.	.9			In	tersection	LOS: C
Intersection Capacity Utilization					U Level of	
Analysis Period (min) 15						
# OFth percentile volume av						

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: 5: Bayview & Bedford Hwy

√ Ø1	→ Ø2 (R)	↑ Ø4
34 s	50 s	26 s
₹ø6		
84 s		

Seton Ridge Development 6: 50 Bedford Hwy & Bedford Hwy

	-	7	1	-	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ î≽		٢	^	٦	1
Traffic Volume (vph)	1073	45	80	2166	60	110
Future Volume (vph)	1073	45	80	2166	60	110
Satd. Flow (prot)	3558	0	1807	3579	1807	1617
Flt Permitted			0.186		0.950	
Satd. Flow (perm)	3558	0	354	3579	1807	1617
Satd. Flow (RTOR)	7					120
Lane Group Flow (vph)	1176	0	84	2280	65	120
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	
Permitted Phases			6			4
Total Split (s)	71.0		18.0	89.0	21.0	21.0
Total Lost Time (s)	5.8		4.0	5.8	6.0	6.0
Act Effct Green (s)	74.2		85.0	83.2	15.0	15.0
Actuated g/C Ratio	0.67		0.77	0.76	0.14	0.14
v/c Ratio	0.49		0.23	0.84	0.26	0.37
Control Delay	5.8		4.5	12.9	45.8	11.3
Queue Delay	0.0		0.0	0.2	0.0	0.0
Total Delay	5.8		4.5	13.0	45.8	11.3
LOS	A		A	В	D	B
Approach Delay	5.8			12.7	23.4	_
Approach LOS	A			B	C	
Queue Length 50th (m)	28.0		3.7	153.2	13.4	0.0
Queue Length 95th (m)	44.5		7.1	190.8	27.0	16.9
Internal Link Dist (m)	271.2		1.1	230.3	79.8	10.0
Turn Bay Length (m)	271.2		50.0	200.0	10.0	
Base Capacity (vph)	2403		458	2707	246	324
Starvation Cap Reductn	0		0	0	0	021
Spillback Cap Reductn	0		0	50	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.49		0.18	0.86	0.26	0.37
	00			0.00	0.20	
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110		o	、			
Offset: 0 (0%), Referenced t		Start of G	Freen			
Control Type: Actuated-Coo	rdinated					
Maximum v/c Ratio: 0.84						
Intersection Signal Delay: 1					tersection	
Intersection Capacity Utiliza	tion 75.5%			IC	U Level of	Service D
Analysis Period (min) 15						

Splits and Phases: 6: 50 Bedford Hwy & Bedford Hwy



Seton Ridge Development 7: Lacewood & Dunbrack

	۶	-	7	1	+	*	1	Ť	1	4	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	2	††	1	2	**	1	2	≜ î≽		7	≜ t≽	
Traffic Volume (vph)	147	233	203	176	339	34	209	451	144	71	751	230
Future Volume (vph)	147	233	203	176	339	34	209	451	144	71	751	230
Satd. Flow (prot)	1767	3500	1759	1807	3579	1617	1807	3458	0	1668	3195	0
Flt Permitted	0.394			0.595			0.124			0.406		
Satd. Flow (perm)	733	3500	1759	1132	3579	1617	236	3458	0	713	3195	0
Satd. Flow (RTOR)			221			142		65			49	
Lane Group Flow (vph)	160	253	221	191	368	37	227	647	0	77	1066	0
Turn Type	pm+pt	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	NA	
Protected Phases	5	2			6		3	8			4	
Permitted Phases	2		2	6		6	8			4		
Total Split (s)	12.0	43.0	43.0	31.0	31.0	31.0	12.0	47.0		35.0	35.0	
Total Lost Time (s)	4.0	4.1	4.1	4.1	4.1	4.1	1.4	4.1		4.1	4.1	
Act Effct Green (s)	39.0	38.9	38.9	27.1	27.1	27.1	45.6	42.9		30.9	30.9	
Actuated g/C Ratio	0.43	0.43	0.43	0.30	0.30	0.30	0.51	0.48		0.34	0.34	
v/c Ratio	0.39	0.17	0.25	0.56	0.34	0.06	0.75	0.38		0.32	0.94	
Control Delay	19.1	16.0	3.1	34.2	25.7	0.2	32.6	14.2		26.3	44.8	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	19.1	16.0	3.1	34.2	25.7	0.2	32.6	14.2		26.3	44.8	
LOS	В	В	A	C	C	A	C	В		C	D	
Approach Delay		12.3		-	26.8		-	19.0		-	43.6	
Approach LOS		В			C			В			D	
Queue Length 50th (m)	17.6	14.3	0.0	29.2	27.4	0.0	22.2	33.8		10.2	94.3	
Queue Length 95th (m)	31.0	22.2	12.6	52.2	39.8	0.0	#56.1	47.0		22.6	#138.2	
Internal Link Dist (m)	01.0	244.5	12.0	02.2	347.6	0.0	100.1	162.5		22.0	194.1	
Turn Bay Length (m)	60.0	211.0	70.0	65.0	011.0	65.0	70.0	102.0		20.0	101.1	
Base Capacity (vph)	409	1512	885	340	1075	585	304	1682		244	1129	
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Storage Cap Reductn	Ŭ	0	Ŭ Ŭ	0	0	Ũ	0	0		0	0	
Reduced v/c Ratio	0.39	0.17	0.25	0.56	0.34	0.06	0.75	0.38		0.32	0.94	
Intersection Summary		-										
Cycle Length: 90												
Actuated Cycle Length: 90												
Offset: 8 (9%), Referenced to	phase 2:EBTI	_ and 6:WE	3TL, Start	of Green								
Control Type: Actuated-Coord	linated											
Maximum v/c Ratio: 0.94												
Intersection Signal Delay: 27.8	8			In	tersection	LOS: C						
Intersection Capacity Utilization	on 78.3%			IC	U Level of	Service D)					
Analysis Period (min) 15												
# 95th percentile volume ex	ceeds capacit	y, queue m	nay be long	ger.								
Queue shown is maximum				-								
Splits and Phases: 7: Lace	wood & Dunbr	ack										
A		aun)						25
🗢 Ø2 (R) 🕴			_		0 3		▼ Ø4					_
43 S					12 s		35 s					
Ø5 9 ØØ	6 (R)			_	¶Ø8							
12 s 31 s					47 s							

Seton Ridge Development 8: Lacewood & Lacewood Access

	٠	-	7	-	+	*	1	1	1	4	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷.	1		4.			4 P			4 P	
Traffic Volume (veh/h)	0	0	0	5	0	5	0	515	5	5	972	0
Future Volume (Veh/h)	0	0	0	5	0	5	0	515	5	5	972	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
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
Hourly flow rate (vph)	0	0	0	5	0	5	0	560	5	5	1057	0
Pedestrians		20			20			20			20	
Lane Width (m)		3.7			3.7			3.7			3.7	
Walking Speed (m/s)		1.2			1.2			1.2			1.2	
Percent Blockage		2			2			2			2	
Right turn flare (veh)			6									
Median type								None			None	
Median storage veh)												
Upstream signal (m)											220	
pX, platoon unblocked	0.96	0.96	0.96	0.96	0.96		0.96					
vC, conflicting volume	1392	1672	568	1141	1670	322	1077			585		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1322	1614	462	1060	1611	322	993			585		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	97	100	99	100			99		
cM capacity (veh/h)	104	97	511	163	97	656	663			983		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	0	10	280	285	534	528						
Volume Left	0	5	0	0	5	0						
Volume Right	0	5	0	5	0	0						
cSH	1700	261	663	1700	983	1700						
Volume to Capacity	0.00	0.04	0.00	0.17	0.01	0.31						
Queue Length 95th (m)	0.0	1.0	0.0	0.0	0.1	0.0						
Control Delay (s)	0.0	19.4	0.0	0.0	0.1	0.0						
Lane LOS	A	С			A							
Approach Delay (s)	0.0	19.4	0.0		0.1							
Approach LOS	A	C	0.0									
Intersection Summary												
Average Delay			0.2									
Intersection Capacity Utilization			40.4%	IC	U Level of	Service			А			
Analysis Period (min)			10.170	.0					7.			
Analysis Periou (min)			15									

Seton Ridge Development 9: Clayton Park/Bayview & Lacewood

	٠	→	7	4	+	*	1	Ť	1	5	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		412			4 P			4			4	
Traffic Volume (vph)	195	262	53	16	438	41	14	29	6	17	25	526
Future Volume (vph)	195	262	53	16	438	41	14	29	6	17	25	526
Satd. Flow (prot)	0	3473	0	0	3521	0	0	1855	0	0	1644	0
Flt Permitted		0.622			0.932			0.861			0.993	
Satd. Flow (perm)	0	2194	0	0	3287	0	0	1618	0	0	1634	0
Satd. Flow (RTOR)		23			18			7			314	
Lane Group Flow (vph)	0	555	0	0	538	0	0	54	0	0	617	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	_
Protected Phases	<u>^</u>	2		<u>^</u>	2			4			4	
Permitted Phases	2	45.0		2	15.0		4	05.0		4	05.0	
Total Split (s)	45.0	45.0		45.0	45.0		35.0	35.0		35.0	35.0	
Total Lost Time (s)		3.6			3.6			3.9			3.9	_
Act Effct Green (s)		41.4			41.4			31.1			31.1	
Actuated g/C Ratio		0.52			0.52			0.39			0.39	
v/c Ratio		0.48 13.6			0.31			0.09 14.4			0.75	
Control Delay Queue Delay		0.0			11.3 0.0			0.0			16.5 0.0	
2		13.6			11.3			14.4			16.5	
Total Delay LOS		13.0 B			П.3 В			14.4 B			10.5 B	
Approach Delay		13.6			11.3			14.4			16.5	
Approach LOS		13.0 B			B			B			10.5 B	
Queue Length 50th (m)		26.9			23.5			4.6			39.7	
Queue Length 95th (m)		40.4			33.8			11.8			83.2	
Internal Link Dist (m)		196.2			187.5			143.1			137.1	
Turn Bay Length (m)		100.2			101.0			110.1			107.11	
Base Capacity (vph)		1146			1709			633			827	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.48			0.31			0.09			0.75	
Intersection Summary												
Cycle Length: 80												
Actuated Cycle Length: 80												
Offset: 0 (0%), Referenced to ph	nase 2:EBW	/B, Start of	Green									
Control Type: Pretimed												
Maximum v/c Ratio: 0.75												
Intersection Signal Delay: 14.0					tersection I							
Intersection Capacity Utilization	78.1%			IC	U Level of	Service D						
Analysis Period (min) 15												
Splits and Phases: 9: Clayton	Park/Bayv	iew & Lace	wood									
Ø2 (R)							14					55

35 s

45 s



Seton Ridge Development 1: Flamingo & Bedford Hwy

	→	7	4	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,		٦	+	٦	1
Traffic Volume (vph)	502	23	184	921	97	163
Future Volume (vph)	502	23	184	921	97	163
Satd. Flow (prot)	1868	0	1825	1883	1825	1633
Flt Permitted			0.432		0.950	
Satd. Flow (perm)	1868	0	813	1883	1696	1487
Satd. Flow (RTOR)	5					177
Lane Group Flow (vph)	552	0	194	969	105	177
Turn Type	NA		Perm	NA	Prot	Perm
Protected Phases	2			6	4	
Permitted Phases			6			4
Total Split (s)	94.0		94.0	94.0	26.0	26.0
Total Lost Time (s)	4.5		4.0	4.0	4.0	4.0
Act Effct Green (s)	97.3		97.8	97.8	14.2	14.2
Actuated g/C Ratio	0.81		0.82	0.82	0.12	0.12
v/c Ratio	0.36		0.29	0.63	0.49	0.53
Control Delay	4.1		4.4	6.9	56.4	12.9
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	4.1		4.4	6.9	56.4	12.9
LOS	A		A	A	E	В
Approach Delay	4.1			6.5	29.1	
Approach LOS	A			A	С	
Queue Length 50th (m)	28.8		9.2	72.0	24.7	0.0
Queue Length 95th (m)	51.1		20.5	129.0	41.5	20.3
Internal Link Dist (m)	212.2		_0.0	218.2	156.6	_0.0
Turn Bay Length (m)						30.0
Base Capacity (vph)	1515		662	1534	334	417
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.36		0.29	0.63	0.31	0.42
Intersection Summary						
Cycle Length: 120						
Actuated Cycle Length: 120						
Offset: 0 (0%), Referenced to p	hase 2:EBT.	Start of G	reen			
Control Type: Actuated-Coordin						
Maximum v/c Ratio: 0.63						
Intersection Signal Delay: 9.0				Int	tersection	LOS: A
Intersection Capacity Utilization	n 65.0%			IC	U Level of	Service C
Analysis Period (min) 15						
Colite and Desses 4. Flowing		Lhung				
Splits and Phases: 1: Flamin	ngo & Bedford	нwy				

• →ø2 (R)	1 ∕Ø4
94 s	26 s
₩ Ø6	
94 s	

Seton Ridge Development 2: MSVU & Bedford Hwy

	-	7	*	+	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ħ			۠	7	1
Traffic Volume (veh/h)	605	29	35	1379	43	163
Future Volume (Veh/h)	605	29	35	1379	43	163
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	637	31	37	1452	47	177
Pedestrians	58				30	
Lane Width (m)	3.7				3.7	
Walking Speed (m/s)	1.2				1.2	
Percent Blockage	5				3	
Right turn flare (veh)					÷	
Median type	None			None		
Median storage veh)	110110			110110		
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			698		1540	682
vC1, stage 1 conf vol			000		10-10	002
vC2, stage 2 conf vol						
vCu, unblocked vol			698		1540	682
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)			7.1		0.0	0.0
tF (s)			2.2		3.5	3.3
p0 queue free %			96		51	54
cM capacity (veh/h)			90 884		96	54 387
						507
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	NB 2	
Volume Total	668	521	968	47	177	
Volume Left	0	37	0	47	0	
Volume Right	31	0	0	0	177	
cSH	1700	884	1700	96	387	
Volume to Capacity	0.39	0.04	0.57	0.49	0.46	
Queue Length 95th (m)	0.0	1.0	0.0	17.1	18.6	
Control Delay (s)	0.0	1.2	0.0	74.2	21.9	
Lane LOS		А		F	С	
Approach Delay (s)	0.0	0.4		32.9		
Approach LOS				D		
Intersection Summary						
Average Delay			3.4			
Intersection Capacity Utilization			73.2%	IC	U Level of	Service
Analysis Period (min)			15			
Seton Ridge Development 3: Seton & Bedford Hwy

	-	7	1	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	Þ			4 ₽	٦	1
Traffic Volume (veh/h)	758	23	55	1471	17	117
Future Volume (Veh/h)	758	23	55	1471	17	117
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	798	24	58	1548	18	127
Pedestrians	29			20	43	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	4	
Right turn flare (veh)						4
Median type	None			None		
Median storage veh)						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume			865		1772	873
vC1, stage 1 conf vol					=	0.0
vC2, stage 2 conf vol						
vCu, unblocked vol			865		1772	873
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			92		73	55
cM capacity (veh/h)			758		66	282
	EB 1	WB 1	WB 2	NB 1		
Direction, Lane #	822	574	1032	145		
Volume Left	022	58	0	145		
Volume Right	24	0	0	127		
cSH	24 1700	758	-	321		
Volume to Capacity	0.48	0.08	1700 0.61	0.45		
	0.48	2.0	0.01	0.45		
Queue Length 95th (m)						
Control Delay (s) Lane LOS	0.0	2.0	0.0	34.2		
	0.0	A		D		
Approach Delay (s)	0.0	0.7		34.2		
Approach LOS				D		
Intersection Summary						
Average Delay			2.4			
Intersection Capacity Utilization			90.8%	IC	U Level of	Service
Analysis Period (min)			15			

Seton Ridge Development 4: Sherbrooke & Bedford Hwy

Movement EBT EBR WBL WBT NBL NBR Lane Configurations 1
Lane Configurations Image: Configuration of the second of th
Traffic Volume (veh/h) 865 10 10 1516 10 10 Future Volume (Veh/h) 865 10 10 1516 10 10 Sign Control Free Free Stop 0% 0% 0% Grade 0% 0.95 0.95 0.95 0.92 0.92 Hourly flow rate (vph) 911 11 11 1596 11 11 Pedestrians 20 21 20 20
Future Volume (Veh/h) 865 10 10 1516 10 10 Sign Control Free Free Stop 0%
Sign Control Free Free Stop Grade 0% 0% 0% 0% Peak Hour Factor 0.95 0.95 0.95 0.92 0.92 Hourly flow rate (vph) 911 11 11 1596 11 11 Pedestrians 20 20 20 20 20 20 Lane Width (m) 3.7 3.7 3.7 3.7 3.7 Walking Speed (m/s) 1.2 1.2 1.2 1.2 Percent Blockage 2 2 2 2 Right turn flare (veh) None None Median storage veh) Upstream signal (m) pX, platoon unblocked vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC1, stage 2 conf vol vC4, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 6.9 6.7 signal 6.9 6.7 signal 6.9 6.7 sign
Grade 0% 0% 0% Peak Hour Factor 0.95 0.95 0.95 0.92 0.92 Hourly flow rate (vph) 911 11 11 1596 11 11 Pedestrians 20 20 20 20 20 20 Lane Width (m) 3.7 3.7 3.7 3.7 3.7 3.7 Walking Speed (m/s) 1.2 1.2 1.2 1.2 1.2 1.2 Percent Blockage 2 2 2 2 2 2 Right turn flare (veh) Median storage veh) Upstream signal (m) pX, platoon unblocked vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC4, stage 1 conf vol vC2, stage 2 conf vol vC4, stage 1 conf vol 942 1776 956 vC2, stage (s) tF (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 <t< td=""></t<>
Hourly flow rate (vph) 911 11 11 1596 11 11 Pedestrians 20
Pedestrians 20 20 20 Lane Width (m) 3.7 3.7 3.7 3.7 Walking Speed (m/s) 1.2 1.2 1.2 1.2 Percent Blockage 2 2 2 2 Right turn flare (veh) Median type None None Median storage veh) Upstream signal (m) pX, platoon unblocked vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol 942 1776 956 vC2, stage 2 conf vol vCu, unblocked vol 942 1776 956 1000000000000000000000000000000000000
Lane Width (m) 3.7 3.7 3.7 Walking Speed (m/s) 1.2 1.2 1.2 Percent Blockage 2 2 2 Right turn flare (veh) Median storage veh) Upstream signal (m) pX, platoon unblocked vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC3, stage 1 conf vol vC4, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) tF (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 <u>Direction, Lane # EB 1 WB 1 WB 2 NB 1</u> Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 volume Right 11 0 0 11
Walking Speed (m/s) 1.2 1.2 1.2 1.2 Percent Blockage 2 2 2 Right turn flare (veh) Median type None None Median type None None Median type Median storage veh) Upstream signal (m) pX, platoon unblocked vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC4.1 6.8 6.9 6.9 vC2, stage 2 conf vol vC4.1 6.8 6.9 6.9 1776 956 vC2, stage (s) 4.1 6.8 6.9 6.9 1776 956 tF (s) 2.2 3.5 3.3 3.3 90 98 85 96 cM capacity (veh/h) 724 72 253 253 253 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 0 11 0 11 0 11 25H 1700 11
Walking Speed (m/s) 1.2 1.2 1.2 1.2 Percent Blockage 2 2 2 Right turn flare (veh) Median type None None Median type None None Median type Median storage veh) Upstream signal (m) pX, platoon unblocked vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC4.1 6.8 6.9 vC2, stage 2 conf vol 942 1776 956 56 56 56 vC2, stage 2 conf vol vC4.1 6.8 6.9 6.9 56 56 56 56 57 53 3.3 59 6 56 56 56 56 56 56 56 56 56 57 57 53 53 3.3 59 6 56 56 56 57 53 53 53 53 56 56 57 57 53 53 53 56 56 57 57 53 53 59 56
Percent Blockage 2 2 2 Right turn flare (veh) None None Median type None None Median storage veh) Upstream signal (m) VC, conflicting volume 942 VC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol 942 1776 956 vC2, stage 2 conf vol 942 1776 956 vC2, stage 2 conf vol vC4. 16.8 6.9 vC2, stage (s) 1776 956 2.2 3.5 3.3 p0 queue free % 98 85 96 253 30 253 30 253 253 253 253 253 253 253 253 253 253 253 253 253 253 253 2543 1064 22 22 253 253 2543 1064 22 253 2543 1064 22 253 2543 1064 22 253 254 254 25 254
Right turn flare (veh) None None Median type None None Median storage veh) Upstream signal (m) PX Upstream signal (m) PX2 1776 956 VC, conflicting volume 942 1776 956 vC1, stage 1 conf vol VC2, stage 2 conf vol VC2, stage 2 conf vol VC2, stage 2 conf vol vC2, stage 2 conf vol 942 1776 956 tC, Single (s) 4.1 6.8 6.9 tC, 2 stage (s) 1 6.8 6.9 tF (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 0 Volume Right 11 0 0 11 cSH 112
Median type None None Median storage veh) Upstream signal (m) pX, platoon unblocked 942 1776 956 vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vc2, stage 2 conf vol vc2, stage 2 conf vol vc2, stage 2 conf vol vC2, stage 2 conf vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) tr (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 csH Volume Right 11 0 0 11 csH 112
Median storage veh) Upstream signal (m) pX, platoon unblocked 942 1776 956 vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) trigge (s) tf (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 VOlume Total 922 543 1064 22 Volume Left 0 11 0 11 0 11 csH 112
Upstream signal (m) pX, platoon unblocked vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) trf (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 csH Volume Right 11 0 0 11 csH
pX, platoon unblocked 942 1776 956 vC, conflicting volume 942 1776 956 vC2, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol vCu, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) t 1 5.3 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 0 Volume Right 11 0 0 11 cSH 112
vC, conflicting volume 942 1776 956 vC1, stage 1 conf vol vC2, stage 2 conf vol vCu, unblocked vol 942 1776 956 vCu, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) t 2.2 3.5 3.3 0 tF (s) 2.2 3.5 96 98 85 96 cM capacity (veh/h) 724 72 253 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
vC1, stage 1 conf vol vC2, stage 2 conf vol vC2, stage 2 conf vol 942 1776 956 vC, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) 5 3.3 90 tF (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
vC2, stage 2 conf vol vCu, unblocked vol tC, single (s) tC, 2 stage (s) tF (s) 0 queue free % CAD apacity (veh/h) 2.2 3.5 3.3 0 queue free % 98 85 96 CM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 CSH 1776 956 6.9 7.2 3.5 3.3 96 2.2 3.5 3.3 2.2 3.5 3.3 96 2.2 3.5 3.3 2.2 3.5 3.3 96 2.2 3.5 3.3 2.2 3.5 3.3 2.5 3.3 2.5 3.3 2.5 3.3 2.5 3.3 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3
vCu, unblocked vol 942 1776 956 tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) 722 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 CSH 1776 956 1776 956
tC, single (s) 4.1 6.8 6.9 tC, 2 stage (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
tC, 2 stage (s) tF (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
tF (s) 2.2 3.5 3.3 p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
p0 queue free % 98 85 96 cM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
CM capacity (veh/h) 724 72 253 Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
Direction, Lane # EB 1 WB 1 WB 2 NB 1 Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
Volume Total 922 543 1064 22 Volume Left 0 11 0 11 Volume Right 11 0 0 11 CSH 1700 724 1700 112
Volume Left 0 11 0 11 Volume Right 11 0 0 11 cSH 1700 724 1700 112
Volume Right 11 0 0 11 cSH 1700 724 1700 112
cSH 1700 724 1700 112
Queue Length 95th (m) 0.0 0.4 0.0 5.5
Control Delay (s) 0.0 0.4 0.0 44.9
Lane LOS A E
Approach Delay (s) 0.0 0.1 44.9
Approach LOS E
Intersection Summary
Average Delay 0.5
Intersection Capacity Utilization 58.9% ICU Level of Service
Analysis Period (min) 15

Seton Ridge Development 5: Bayview & Bedford Hwy

	-	7	1	-	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	† 1 ₂		5	•	٦	1
Traffic Volume (vph)	749	113	788	1552	52	427
Future Volume (vph)	749	113	788	1552	52	427
Satd. Flow (prot)	3516	0	1921	1983	2107	2241
Flt Permitted			0.201		0.950	
Satd. Flow (perm)	3516	0	406	1983	2107	2241
Satd. Flow (RTOR)	18					427
Lane Group Flow (vph)	907	0	788	1552	57	427
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	
Permitted Phases			6			4
Total Split (s)	50.0		34.0	84.0	26.0	26.0
Total Lost Time (s)	5.8		-0.5	1.3	6.0	3.0
Act Effct Green (s)	44.2		84.5	82.7	20.0	23.0
Actuated g/C Ratio	0.40		0.77	0.75	0.18	0.21
v/c Ratio	0.40		1.00	1.04	0.15	0.53
Control Delay	28.4		53.2	39.1	39.1	6.2
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	28.4		53.2	39.1	39.1	6.2
LOS	20.4 C		00.2 D	00.1	D	0.2 A
Approach Delay	28.4		2	43.8	10.1	71
Approach LOS	20.4 C			40.0 D	B	
Queue Length 50th (m)	83.6		~113.0	~381.4	10.9	0.0
Queue Length 95th (m)	105.7		m#188.2	#462.3	22.7	25.3
Internal Link Dist (m)	307.4		11// 100.2	271.2	169.9	20.0
Turn Bay Length (m)	507.1			E. 1.E	100.0	30.0
Base Capacity (vph)	1423		787	1490	383	806
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.64		1.00	1.04	0.15	0.53
	U.UT		1.00	T.UT	0.10	0.00
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110						
Offset: 13 (12%), Referenced		T, Start o	of Green			
Control Type: Actuated-Coord	dinated					
Maximum v/c Ratio: 1.04						
Intersection Signal Delay: 35				In	tersection	LOS: D
Intersection Capacity Utilizati	ion 91.8%			IC	U Level of	Service F
Analysis Period (min) 15						
~ Volume exceeds capacity			infinite.			
Queue shown is maximun						
# 95th percentile volume ex			may be lor	nger.		
Queue shown is maximun						
m Volume for 95th percenti	le queue is met	ered by	upstream s	signal.		
Splits and Phases: 5: Bay	iow & Podford					

Splits and Phases: 5: Bayview & Bedford Hwy

√ Ø1	₩Ø2 (R)	1 ∕Ø4
34 s	50 s	26 s
★ Ø6		
84 s		

Seton Ridge Development 6: 50 Bedford Hwy & Bedford Hwy

	-	7	1	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ t≽		5	^	٦	1
Traffic Volume (vph)	1128	47	84	2277	63	116
Future Volume (vph)	1128	47	84	2277	63	116
Satd. Flow (prot)	3558	0	1807	3579	1807	1617
Flt Permitted			0.171		0.950	
Satd. Flow (perm)	3558	0	325	3579	1807	1617
Satd. Flow (RTOR)	7					126
Lane Group Flow (vph)	1236	0	88	2397	68	126
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	
Permitted Phases			6			4
Total Split (s)	71.0		18.0	89.0	21.0	21.0
Total Lost Time (s)	5.8		4.0	5.8	6.0	6.0
Act Effct Green (s)	74.2		85.0	83.2	15.0	15.0
Actuated g/C Ratio	0.67		0.77	0.76	0.14	0.14
v/c Ratio	0.51		0.25	0.89	0.28	0.38
Control Delay	5.9		4.8	15.3	46.0	11.3
Queue Delay	0.0		0.0	0.4	0.0	0.0
Total Delay	5.9		4.8	15.7	46.0	11.3
LOS	A		A	B	D	B
Approach Delay	5.9			15.3	23.4	
Approach LOS	0.0 A			B	20.4 C	
Queue Length 50th (m)	29.6		3.9	176.7	14.0	0.0
Queue Length 95th (m)	46.5		7.3	223.0	27.9	17.3
Internal Link Dist (m)	271.2		1.0	230.3	79.8	11.0
Turn Bay Length (m)	-11.2		50.0	200.0	. 0.0	
Base Capacity (vph)	2402		439	2707	246	329
Starvation Cap Reductn	0		-0	0	0	0
Spillback Cap Reductn	0		0	68	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.51		0.20	0.91	0.28	0.38
	0.01		0.20	0.01	0.20	0.00
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110						
Offset: 0 (0%), Referenced to		Start of G	Green			
Control Type: Actuated-Coord	inated					
Maximum v/c Ratio: 0.89						
Intersection Signal Delay: 12.8					tersection	
Intersection Capacity Utilization	on 78.6%			IC	U Level of	Service D
Analysis Period (min) 15						

Splits and Phases: 6: 50 Bedford Hwy & Bedford Hwy



Seton Ridge Development 7: Lacewood & Dunbrack

	٦	→	7	1	+	•	1	Ť	1	4	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦	^	1	٦	**	1	5	† 1 ₂		٦	† 1-	
Traffic Volume (vph)	154	245	213	185	357	36	220	474	151	74	790	241
Future Volume (vph)	154	245	213	185	357	36	220	474	151	74	790	241
Satd. Flow (prot)	1767	3500	1759	1807	3579	1617	1807	3458	0	1668	3195	0
Flt Permitted	0.377			0.588			0.124			0.393		
Satd. Flow (perm)	701	3500	1759	1118	3579	1617	236	3458	0	690	3195	0
Satd. Flow (RTOR)			232			142		65			49	
Lane Group Flow (vph)	167	266	232	201	388	39	239	679	0	80	1121	0
Turn Type	pm+pt	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	NA	
Protected Phases	5	2			6		3	8			4	
Permitted Phases	2		2	6		6	8			4		
Total Split (s)	12.0	43.0	43.0	31.0	31.0	31.0	12.0	47.0		35.0	35.0	
Total Lost Time (s)	4.0	4.1	4.1	4.1	4.1	4.1	1.4	4.1		4.1	4.1	
Act Effct Green (s)	39.0	38.9	38.9	27.0	27.0	27.0	45.6	42.9		30.9	30.9	
Actuated g/C Ratio	0.43	0.43	0.43	0.30	0.30	0.30	0.51	0.48		0.34	0.34	
v/c Ratio	0.42	0.18	0.26	0.60	0.36	0.07	0.79	0.40		0.34	0.99	
Control Delay	19.6	16.1	3.0	35.7	25.9	0.2	36.3	14.5		27.1	54.6	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	19.6	16.1	3.0	35.7	25.9	0.2	36.3	14.5		27.1	54.6	
LOS	В	В	А	D	С	А	D	В		С	D	
Approach Delay		12.4			27.5			20.2			52.7	
Approach LOS		В			С			С			D	
Queue Length 50th (m)	18.5	15.2	0.0	31.1	29.0	0.0	23.8	36.2		10.7	102.1	
Queue Length 95th (m)	32.1	23.3	12.8	55.4	41.9	0.0	#61.6	49.8		23.8	#149.9	
Internal Link Dist (m)		244.5			347.6			162.5			194.1	
Turn Bay Length (m)	60.0	4540	70.0	65.0	1075	65.0	70.0	1000		20.0	4400	
Base Capacity (vph)	398	1512	892	336	1075	584	304	1682		236	1129	
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio	0.42	0.18	0.26	0.60	0.36	0.07	0.79	0.40		0.34	0.99	
Intersection Summary												
Cycle Length: 90												
Actuated Cycle Length: 90			-									
Offset: 8 (9%), Referenced to		and 6:WE	BTL, Start	of Green								
Control Type: Actuated-Coord	inated											
Maximum v/c Ratio: 0.99	_											
Intersection Signal Delay: 31.					tersection							
Intersection Capacity Utilization	on 80.3%			IC	U Level of	Service L)					
Analysis Period (min) 15												
# 95th percentile volume exe Queue shown is maximum			nay be long	ger.								
Splits and Phases: 7: Lacev	vood & Dunbr	ack										
					1	2						25
🐨 Ø2 (R) 💗					03		▼ Ø4					

	▲ Ø3 ↓ Ø4
43 s	12 s 35 s
▶ ø5 ₩ Ø6 (R)	™ [†] ∅8
12 s 31 s	47 s

Seton Ridge Development 8: Lacewood & Lacewood Access

	٠	→	1	1	+	*	1	1	1	4	ţ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		र्स	1		4.			đ î þ			4 P	
Traffic Volume (veh/h)	0	0	0	5	0	5	0	541	5	5	1022	0
Future Volume (Veh/h)	0	0	0	5	0	5	0	541	5	5	1022	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
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
Hourly flow rate (vph)	0	0	0	5	0	5	0	588	5	5	1111	0
Pedestrians		20			20			20			20	
Lane Width (m)		3.7			3.7			3.7			3.7	
Walking Speed (m/s)		1.2			1.2			1.2			1.2	
Percent Blockage		2			2			2			2	
Right turn flare (veh)			6									
Median type								None			None	
Median storage veh)												
Upstream signal (m)											220	
pX, platoon unblocked	0.95	0.95	0.95	0.95	0.95		0.95					
vC, conflicting volume	1460	1754	596	1196	1752	336	1131			613		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	1380	1690	471	1103	1687	336	1034			613		
tC, single (s)	7.5	6.5	6.9	7.5	6.5	6.9	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	97	100	99	100			99		
cM capacity (veh/h)	93	86	500	150	87	643	635			959		
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2						
Volume Total	0	10	294	299	560	556						
Volume Left	0	5	0	0	5	0						
Volume Right	0	5	0	5	0	0						
cSH	1700	244	635	1700	959	1700						
Volume to Capacity	0.00	0.04	0.00	0.18	0.01	0.33						
Queue Length 95th (m)	0.0	1.0	0.0	0.0	0.1	0.0						
Control Delay (s)	0.0	20.4	0.0	0.0	0.1	0.0						
Lane LOS	0.0 A	C	0.0	0.0	A	0.0						
Approach Delay (s)	0.0	20.4	0.0		0.1							
Approach LOS	A	C	0.0		0.1							
Intersection Summary												
Average Delay			0.2									
Intersection Capacity Utilization			41.7%	IC	U Level of	Service			А			
				10		20.100			7.			
Analysis Period (min)			41.7%	IC					A			

Seton Ridge Development 9: Clayton Park/Bayview & Lacewood

	٨	+	*	4	ł	*	1	1	1	1	ŧ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4T>			4T>			4.			4.	
Traffic Volume (vph)	205	276	55	17	460	43	15	31	7	18	26	553
Future Volume (vph)	205	276	55	17	460	43	15	31	7	18	26	553
Satd. Flow (prot)	0	3477	0	0	3525	0	0	1852	0	0	1642	0
Flt Permitted		0.613			0.931			0.849			0.992	
Satd. Flow (perm)	0	2165	0	0	3287	0	0	1594	0	0	1632	0
Satd. Flow (RTOR)		23			18			8			295	
Lane Group Flow (vph)	0	583	0	0	565	0	0	58	0	0	649	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Total Split (s)	45.0	45.0		45.0	45.0		35.0	35.0		35.0	35.0	
Total Lost Time (s)		3.6			3.6			3.9			3.9	
Act Effct Green (s)		41.4			41.4			31.1			31.1	
Actuated g/C Ratio		0.52			0.52			0.39			0.39	
v/c Ratio		0.52			0.33			0.09			0.80	
Control Delay		14.2			11.5			14.4			20.4	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		14.2			11.5			14.4			20.4	
LOS		В			В			В			С	
Approach Delay		14.2			11.5			14.4			20.4	
Approach LOS		В			В			В			С	
Queue Length 50th (m)		29.0			25.0			4.9			49.6	
Queue Length 95th (m)		43.5			35.6			12.4			#113.4	
Internal Link Dist (m)		196.2			187.5			143.1			137.1	
Turn Bay Length (m)												
Base Capacity (vph)		1131			1709			624			814	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.52			0.33			0.09			0.80	
Intersection Summary												
Cycle Length: 80												_
Actuated Cycle Length: 80												
Offset: 0 (0%), Referenced to p	phase 2:EBW	B, Start of	Green									_
Control Type: Pretimed												
Maximum v/c Ratio: 0.80						00 D						_
Intersection Signal Delay: 15.5					tersection							
Intersection Capacity Utilization	n 79.9%			IC	U Level of	Service D						_
Analysis Period (min) 15												
# 95th percentile volume exc			nay be long	ger.								
Queue shown is maximum	atter two cyc	es.										
Splits and Phases: 9: Clayto	n Park/Bayvi	ew & Lace	wood									
Ø2 (R)						*	4					55
7 02 (K)					_	710	7					_

35 s

45 s



Seton Ridge Development 1: Flamingo & Bedford Hwy

	-	7	1	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1		٦	•	٦	1
Traffic Volume (vph)	584	23	214	1071	97	190
Future Volume (vph)	584	23	214	1071	97	190
Satd. Flow (prot)	1870	0	1825	1883	1825	1633
Flt Permitted			0.388		0.950	
Satd. Flow (perm)	1870	0	733	1883	1696	1487
Satd. Flow (RTOR)	5					207
Lane Group Flow (vph)	639	0	225	1127	105	207
Turn Type	NA		Perm	NA	Prot	Perm
Protected Phases	2			6	4	
Permitted Phases			6			4
Total Split (s)	94.0		94.0	94.0	26.0	26.0
Total Lost Time (s)	4.5		4.0	4.0	4.0	4.0
Act Effct Green (s)	97.3		97.8	97.8	14.2	14.2
Actuated g/C Ratio	0.81		0.82	0.82	0.12	0.12
v/c Ratio	0.42		0.38	0.73	0.49	0.58
Control Delay	4.5		5.4	9.4	56.4	13.0
Queue Delay	0.0		0.0	0.0	0.0	0.0
Total Delay	4.5		5.4	9.4	56.4	13.0
LOS	А		А	А	E	В
Approach Delay	4.5			8.7	27.6	
Approach LOS	А			А	С	
Queue Length 50th (m)	35.6		11.7	101.3	24.7	0.0
Queue Length 95th (m)	62.9		26.9	188.2	41.5	22.1
Internal Link Dist (m)	212.2			218.2	156.6	
Turn Bay Length (m)						30.0
Base Capacity (vph)	1517		597	1534	334	441
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.42		0.38	0.73	0.31	0.47
Intersection Summary						
Cycle Length: 120						
Actuated Cycle Length: 120						
Offset: 0 (0%), Referenced to	phase 2:EBT,	Start of G	reen			
Control Type: Actuated-Coord						
Maximum v/c Ratio: 0.73						
Intersection Signal Delay: 10.	.1			In	tersection	LOS: B
Intersection Capacity Utilizati				IC	U Level of	Service C
Analysis Period (min) 15						
Splits and Phases: 1: Flam	ningo & Bedford	Hwy				

• →ø2 (R)	₩ Ø4
94 s	26 s
₩ Ø6	
94 s	

Seton Ridge Development 2: MSVU & Bedford Hwy

	-	7	4	+	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	ţ,			-۠	7	1
Traffic Volume (veh/h)	715	29	40	1558	43	168
Future Volume (Veh/h)	715	29	40	1558	43	168
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	753	31	42	1640	47	183
Pedestrians	58				30	
Lane Width (m)	3.7				3.7	
Walking Speed (m/s)	1.2				1.2	
Percent Blockage	5				3	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)				259		
pX, platoon unblocked					0.80	
vC, conflicting volume			814		1760	798
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			814		1457	798
tC, single (s)			4.1		*5.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			95		64	44
cM capacity (veh/h)			801		130	324
Direction, Lane #	EB 1	WB 1	WB 2	NB 1	NB 2	
Volume Total	784	589	1093	47	183	
Volume Left	0	42	0	47	0	
Volume Right	31	0	0	0	183	
cSH	1700	801	1700	130	324	
Volume to Capacity	0.46	0.05	0.64	0.36	0.56	
Queue Length 95th (m)	0.0	1.3	0.0	11.9	26.2	
Control Delay (s)	0.0	1.4	0.0	47.8	29.5	
Lane LOS		А		E	D	
Approach Delay (s)	0.0	0.5		33.3		
Approach LOS				D		
Intersection Summary						
Average Delay			3.1			
Intersection Capacity Utilization			81.8%	IC	U Level of	Service
Analysis Period (min)			15			
* Lloor Entered Value						

* User Entered Value

Seton Ridge Development 3: Seton & Bedford Hwy

	→	7	4	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ t}			₫ ħ	3	1
Traffic Volume (vph)	738	158	359	1453	220	245
Future Volume (vph)	738	158	359	1453	220	245
Satd. Flow (prot)	3526	0	0	3893	1825	1633
Flt Permitted	0020	v	5	*0.610	0.950	
Satd. Flow (perm)	3526	0	0	2381	1722	1633
Satd. Flow (RTOR)	36	Ū	5	2001		211
Lane Group Flow (vph)	943	0	0	1812	232	258
Turn Type	943 NA	0	pm+pt	NA	Prot	Perm
Protected Phases	4		рт+рі 3	NA 8	2	Felli
Permitted Phases	4		3 8	0	2	2
	64.0			00.0	24.0	
Total Split (s)	64.0		22.0	86.0	24.0	24.0
Total Lost Time (s)	4.0			0.5	4.0	4.0
Act Effct Green (s)	82.0			85.5	20.0	20.0
Actuated g/C Ratio	0.75			0.78	0.18	0.18
v/c Ratio	0.36			0.98	0.70	0.55
Control Delay	5.1			10.8	54.7	14.2
Queue Delay	0.0			0.0	0.0	0.0
Total Delay	5.1			10.8	54.7	14.2
LOS	А			В	D	В
Approach Delay	5.1			10.8	33.4	
Approach LOS	А			В	С	
Queue Length 50th (m)	31.5			177.0	49.6	9.0
Queue Length 95th (m)	40.0			m156.2	#79.2	34.2
Internal Link Dist (m)	235.4			71.6	132.6	• 11 <u>–</u>
Turn Bay Length (m)	200.1				102.0	30.0
Base Capacity (vph)	2637			1850	331	469
Starvation Cap Reductn	2007			0	0	409
Spillback Cap Reductin	0			0	0	0
Storage Cap Reductn	0			0	0	0
Reduced v/c Ratio	0.36			0.98	0.70	0.55
Reduced V/C Ratio	0.30			0.90	0.70	0.55
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110)					
Offset: 43 (39%), Reference		T. Start o	f Green			
Control Type: Actuated-Co		., otari u				
Maximum v/c Ratio: 0.98	stantatou					
Intersection Signal Delay: 1	26			In	tersection I	
					U Level of	
Intersection Capacity Utiliza Analysis Period (min) 15	au011 90.1 %			IC		Service F
3 ()						
* User Entered Value						
# 95th percentile volume			nay be lon	iger.		
Queue shown is maximu						
m Volume for 95th percer	ntile queue is met	tered by t	upstream s	signal.		
Splits and Phases: 3: Se	ton & Bedford Hv	vy				
				8 1000	179307	

√ Ø2	√ Ø3	→Ø4 (R)
24 s	22 s	64 s
	₹Ø8 86 s	

Seton Ridge Development 4: Sherbrooke & Bedford Hwy

	-	7	1	-	1	1
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ 1₽			th.	¥	
Traffic Volume (veh/h)	973	10	10	1802	10	10
Future Volume (Veh/h)	973	10	10	1802	10	10
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.95	0.95	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	1024	11	11	1897	11	11
Pedestrians	20			20	20	
Lane Width (m)	3.7			3.7	3.7	
Walking Speed (m/s)	1.2			1.2	1.2	
Percent Blockage	2			2	2	
Right turn flare (veh)						
Median type	None			None		
Median storage veh)						
Upstream signal (m)	96					
pX, platoon unblocked			0.92		0.92	0.92
vC, conflicting volume			1055		2040	558
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol			881		1954	339
tC, single (s)			4.1		6.8	6.9
tC, 2 stage (s)						
tF (s)			2.2		3.5	3.3
p0 queue free %			98		78	98
cM capacity (veh/h)			700		50	588
Direction, Lane #	EB 1	EB 2	WB 1	WB 2	NB 1	
Volume Total	683	352	643	1265	22	
Volume Left	000	0	11	0	11	
Volume Right	0	11	0	0	11	
cSH	1700	1700	700	1700	92	
Volume to Capacity	0.40	0.21	0.02	0.74	0.24	
Queue Length 95th (m)	0.0	0.21	0.02	0.0	6.9	
Control Delay (s)	0.0	0.0	0.4	0.0	55.9	
Lane LOS	0.0	0.0	A	0.0	55.5 F	
Approach Delay (s)	0.0		0.1		55.9	
Approach LOS	0.0		0.1		55.5 F	
					1	
Intersection Summary						
Average Delay			0.5			
Intersection Capacity Utilization			66.8%	IC	U Level of	Service
Analysis Period (min)			15			

Seton Ridge Development 5: Bayview & Bedford Hwy

	-	7	*	-	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	≜ î⊳			-t†	5	1
Traffic Volume (vph)	864	106	709	1839	51	406
Future Volume (vph)	864	106	709	1839	51	406
Satd. Flow (prot)	3560	0	0	3855	2107	2241
Flt Permitted	0000	U	0	*0.600	0.950	
Satd. Flow (perm)	3560	0	0	2313	2107	2241
Satd. Flow (RTOR)	13	U	0	2010	2101	406
Lane Group Flow (vph)	1021	0	0	2548	55	400
	NA	U				
Turn Type Protected Phases	NA 2		pm+pt	NA 6	Prot 4	Perm
	2		1	0	4	A
Permitted Phases	10.0		6	00.0	00.0	4
Total Split (s)	43.0		45.0	88.0	22.0	22.0
Total Lost Time (s)	5.8			1.3	6.0	3.0
Act Effct Green (s)	37.2			86.7	16.0	19.0
Actuated g/C Ratio	0.34			0.79	0.15	0.17
v/c Ratio	0.84			1.05	0.18	0.56
Control Delay	36.3			37.2	43.0	7.3
Queue Delay	0.0			0.0	0.0	0.0
Total Delay	36.3			37.2	43.0	7.3
LOS	D			D	D	А
Approach Delay	36.3			37.2	11.6	
Approach LOS	D			D	В	
Queue Length 50th (m)	85.0			~208.2	11.1	0.0
Queue Length 95th (m)	102.3			m#232.5	23.4	26.1
Internal Link Dist (m)	307.4			271.2	169.9	
Turn Bay Length (m)	507.1					30.0
Base Capacity (vph)	1212			2435	306	722
Starvation Cap Reductn	0			2433	0	0
Spillback Cap Reductn	0			0	0	0
Storage Cap Reductin	0			0	0	0
Reduced v/c Ratio	0.84			1.05	0.18	0.56
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110						
Offset: 35 (32%), Reference	d to phase 2:EB	T, Start o	of Green			
Control Type: Pretimed						
Maximum v/c Ratio: 1.05						
Intersection Signal Delay: 34	4.0			Int	tersection	LOS: C
Intersection Capacity Utiliza					U Level of	
Analysis Period (min) 15				10		
* User Entered Value						
 Volume exceeds capaci 	tv. queue is ther	retically	nfinite			
Queue shown is maximu						
# 95th percentile volume e	,		nav he lon	ner		
Queue shown is maximu				igei.		
m Volume for 95th percen			instream a	ianal		
in volume for 95th percen	the queue is me	lered by l	ipstream s	iynai.		
Solits and Phases: 5. Bay	wiew & Redford	Нили				

Splits and Phases: 5: Bayview & Bedford Hwy

ۯ1	♥ ──►Ø2 (R)	★ ∕Ø4
45 s	43 s	22 s
★ Ø6		
88 s		

Seton Ridge Development 6: 50 B.Hwy & Bedford Hwy

	-	\mathbf{r}	4	+	1	1
Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	† 1 ₂		٦	^	٦	1
Traffic Volume (vph)	1217	52	84	2480	68	116
Future Volume (vph)	1217	52	84	2480	68	116
Satd. Flow (prot)	3559	0	1807	3579	1807	1617
Flt Permitted		_	0.147		0.950	
Satd. Flow (perm)	3559	0	280	3579	1807	1617
Satd. Flow (RTOR)	7	^		0011	- 1	126
Lane Group Flow (vph)	1336	0	88	2611	74	126
Turn Type	NA		pm+pt	NA	Prot	Perm
Protected Phases	2		1	6	4	Λ
Permitted Phases	71.0		6 19.0	90.0	21.0	21.0
Total Split (s)	71.0 5.8		18.0 4.0	89.0 5.8	21.0 6.0	21.0 6.0
Total Lost Time (s)	5.8 74.2		4.0 85.0	5.8 83.2	6.0 15.0	6.0 15.0
Act Effct Green (s) Actuated g/C Ratio	74.2 0.67		85.0 0.77	83.2 0.76	15.0 0.14	0.14
v/c Ratio	0.67		0.77	0.76	0.14	0.14
Control Delay	20.0		5.2	23.7	46.5	11.3
Queue Delay	0.0		0.0	0.0	40.5	0.0
Total Delay	20.0		5.2	23.7	46.5	11.3
LOS	20.0 B		0.2 A	20.7 C	+0.5 D	В
Approach Delay	20.0			23.1	24.3	-
Approach LOS	В			20.1 C	2 1.0 C	
Queue Length 50th (m)	98.0		3.9	235.3	15.3	0.0
Queue Length 95th (m)	130.2		7.3	#354.6	30.0	17.3
Internal Link Dist (m)	271.2			230.3	79.8	
Turn Bay Length (m)			50.0			
Base Capacity (vph)	2402		410	2707	246	329
Starvation Cap Reductn	0		0	0	0	0
Spillback Cap Reductn	0		0	0	0	0
Storage Cap Reductn	0		0	0	0	0
Reduced v/c Ratio	0.56		0.21	0.96	0.30	0.38
Intersection Summary						
Cycle Length: 110						
Actuated Cycle Length: 110						
Offset: 0 (0%), Referenced to		Start of G	Green			
Control Type: Actuated-Coor	dinated					
Maximum v/c Ratio: 0.96	•					
Intersection Signal Delay: 22					tersection	
Intersection Capacity Utilizati	ion 84.2%			IC	U Level of	Service E
Analysis Period (min) 15	and a second of					
# 95th percentile volume ex Queue shown is maximum			nay be lor	iger.		
	n alter two cycle	3.				
Splits and Phases: 6: 50 B	B.Hwy & Bedford	Hwy				
22	,	,				

√ Ø1	↓ →Ø2 (R)	1 Ø4
18 s	71s	21 s
₹ø6		
89 s		

Seton Ridge Development 7: Lacewood & Dunbrack

	٨	→	1	1	+	*	1	1	1	1	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	5	**	1	5	*	1	7	† 1>		5	↑ 1→	
Traffic Volume (vph)	176	245	213	185	357	40	220	535	151	82	871	266
Future Volume (vph)	176	245	213	185	357	40	220	535	151	82	871	266
Satd. Flow (prot)	1767	3500	1759	1807	3579	1617	1807	3468	0	1668	3195	0
Flt Permitted	0.356			0.588			0.110			0.368		
Satd. Flow (perm)	662	3500	1759	1118	3579	1617	209	3468	0	646	3195	0
Satd. Flow (RTOR)			232			142		59			52	
Lane Group Flow (vph)	191	266	232	201	388	43	239	746	0	89	1236	0
Turn Type	pm+pt	NA	Perm	Perm	NA	Perm	pm+pt	NA		Perm	NA	
Protected Phases	5	2			6		3	8			4	
Permitted Phases	2		2	6		6	8			4		
Total Split (s)	11.0	39.5	39.5	28.5	28.5	28.5	11.5	50.5		39.0	39.0	
Total Lost Time (s)	4.0	4.1	4.1	4.1	4.1	4.1	1.4	4.1		4.1	4.1	
Act Effct Green (s)	35.5	35.4	35.4	24.4	24.4	24.4	49.1	46.4		34.9	34.9	
Actuated g/C Ratio	0.39	0.39	0.39	0.27	0.27	0.27	0.55	0.52		0.39	0.39	
v/c Ratio	0.55	0.19	0.28	0.66	0.40	0.08	0.82	0.41		0.36	0.97	
Control Delay	25.6	18.4	3.5	41.4	28.3	0.3	40.1	13.0		24.7	46.7	
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
Total Delay	25.6	18.4	3.5	41.4	28.3	0.3	40.1	13.0		24.7	46.7	
LOS	С	В	А	D	С	А	D	В		С	D	
Approach Delay		15.4			30.6			19.6			45.2	
Approach LOS		В			С			В			D	
Queue Length 50th (m)	23.1	16.3	0.0	32.5	30.3	0.0	24.4	38.0		11.3	110.3	
Queue Length 95th (m)	39.3	25.1	13.8	#62.1	43.7	0.0	#64.1	51.4		24.8	#159.7	
Internal Link Dist (m)		244.5			347.6			162.5			194.1	
Turn Bay Length (m)	60.0		70.0	65.0		65.0	70.0			20.0		
Base Capacity (vph)	347	1376	832	303	970	541	293	1816		250	1270	
Starvation Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Spillback Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Storage Cap Reductn	0	0	0	0	0	0	0	0		0	0	
Reduced v/c Ratio	0.55	0.19	0.28	0.66	0.40	0.08	0.82	0.41		0.36	0.97	
Intersection Summary												
Cycle Length: 90												
Actuated Cycle Length: 90												
Offset: 8 (9%), Referenced to	phase 2:EBTI	and 6:WE	3TL, Start	of Green								
Control Type: Actuated-Coord	nated											
Maximum v/c Ratio: 0.97												
Intersection Signal Delay: 30.1				In	tersection	LOS: C						
Intersection Capacity Utilizatio	n 83.3%			IC	U Level of	Service E						
Analysis Period (min) 15												
# 95th percentile volume exc	eeds capacit	y, queue m	nay be lon	ger.								
Queue shown is maximum	after two cycl	es.										

Splits and Phases: 7: Lacewood & Dunbrack

📣 ø2 (R) 💗	1 Ø3	Ø4	
39.5 s	11.5 s	39 s	
≠ ø5 🕴 🕶 ø6 (R)	√ Ø8		
11 s 28.5 s	50.5 s		

Seton Ridge Development 8: Lacewood & Access

	٠	-	7	4	+	*	1	Ť	1	1	Ļ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		÷	1		4.			4 P			4 P	
Traffic Volume (vph)	93	0	200	5	0	5	113	515	5	5	935	145
Future Volume (vph)	93	0	200	5	0	5	113	515	5	5	935	145
Satd. Flow (prot)	0	1825	1633	0	1748	0	0	3556	0	0	3517	0
Flt Permitted		0.751			0.856			0.603			0.953	
Satd. Flow (perm)	0	1443	1633	0	1533	0	0	2164	0	0	3351	0
Satd. Flow (RTOR)			100		40			1			35	
Lane Group Flow (vph)	0	101	217	0	10	0	0	688	0	0	1179	0
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			4			2			2	
Permitted Phases	4		4	4			2			2		
Total Split (s)	29.0	29.0	29.0	29.0	29.0		51.0	51.0		51.0	51.0	
Total Lost Time (s)		5.9	5.9		5.9			5.9			5.9	
Act Effct Green (s)		12.0	12.0		12.0			56.2			56.2	
Actuated g/C Ratio		0.15	0.15		0.15			0.70			0.70	
v/c Ratio		0.47	0.66		0.04			0.45			0.50	
Control Delay		36.7	26.2		0.2			7.1			5.0	
Queue Delay		0.0	0.0		0.0			0.0			0.0	
Total Delay		36.7	26.2		0.2			7.1			5.0	
LOS		D	С		А			А			А	
Approach Delay		29.6			0.2			7.1			5.0	
Approach LOS		С			А			А			А	
Queue Length 50th (m)		15.1	17.6		0.0			20.2			29.3	
Queue Length 95th (m)		27.1	35.9		0.1			42.3			47.8	
Internal Link Dist (m)		111.7			74.7			169.9			196.2	
Turn Bay Length (m)			50.0									
Base Capacity (vph)		416	542		471			1519			2362	
Starvation Cap Reductn		0	0		0			0			0	
Spillback Cap Reductn		0	0		0			0			0	
Storage Cap Reductn		0	0		0			0			0	
Reduced v/c Ratio		0.24	0.40		0.02			0.45			0.50	
Intersection Summary												
Cycle Length: 80												
Actuated Cycle Length: 80												
Offset: 0 (0%), Referenced to ph	ase 2:NBS	B and 6:, S	Start of Gre	en								
Control Type: Actuated-Coordina		,										
Maximum v/c Ratio: 0.66												
Intersection Signal Delay: 9.2				Int	tersection	LOS: A						
Intersection Capacity Utilization	72.1%				U Level of							
Analysis Period (min) 15												
Splits and Phases: 8: Lacewo	od & Acces	S										
Ø2 (R)							*	Ø4				

29 s

51 s

Seton Ridge Development 9: Clayton Park/Bayview & Lacewood

	٨	+	+	4	+	*	1	t	1	*	ţ	~
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4 P			4 P			4.			4.	
Traffic Volume (vph)	189	353	60	17	582	37	20	31	7	6	26	484
Future Volume (vph)	189	353	60	17	582	37	20	31	7	6	26	484
Satd. Flow (prot)	0	3486	0	0	3540	0	0	1851	0	0	1640	0
Flt Permitted		0.594			0.932			0.823			0.998	
Satd. Flow (perm)	0	2098	0	0	3302	0	0	1548	0	0	1638	0
Satd. Flow (RTOR)		22			12			8			209	
Lane Group Flow (vph)	0	654	0	0	691	0	0	64	0	0	561	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			2			4			4	
Permitted Phases	2			2			4			4		
Total Split (s)	45.0	45.0		45.0	45.0		35.0	35.0		35.0	35.0	
Total Lost Time (s)		3.6			3.6			3.9			3.9	
Act Effct Green (s)		41.4			41.4			31.1			31.1	
Actuated g/C Ratio		0.52			0.52			0.39			0.39	
v/c Ratio		0.60			0.40			0.11			0.73	
Control Delay		11.9			12.4			14.7			19.5	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		11.9			12.4			14.7			19.5	
LOS		В			В			В			В	
Approach Delay		11.9			12.4			14.7			19.5	
Approach LOS		В			В			В			В	
Queue Length 50th (m)		21.3			32.6			5.6			46.8	
Queue Length 95th (m)		27.5			45.1			13.4			87.4	
Internal Link Dist (m)		196.2			187.5			143.1			137.1	
Turn Bay Length (m)												
Base Capacity (vph)		1096			1714			606			764	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.60			0.40			0.11			0.73	
Intersection Summary												
Cycle Length: 80												
Actuated Cycle Length: 80												
Offset: 0 (0%), Referenced to p	phase 2:EBW	B, Start of	Green									
Control Type: Pretimed												
Maximum v/c Ratio: 0.73												
Intersection Signal Delay: 14.3					tersection I							
Intersection Capacity Utilizatio	n 77.8%			IC	U Level of	Service D						
Analysis Period (min) 15												
Splits and Phases: 9: Clayto	on Park/Bayvi	ew & Lace	wood									
4						#						<u> 2</u> 2
Ø2 (R)						▼ 10	14					
43 S						35 S						

