

DRAFT REPORT

LeBreton Flats – Plan of Subdivision

Transportation Impact Assessment

Ottawa, Ontario

Presented to:

National Capital Commission 202-40 Elgin Street, Ottawa ON, K1P 1C7

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1. INTRODUCTION

LeBreton Flats is a large and unique site in the heart of the Nation's Capital. In many respects, the site is truly a rare one-of-a-kind gem. The site is approximately 29 hectares in size and is located just 1.5 kilometres west of the Capital's Parliamentary Precinct and central business district. The site is anchored by two LRT stations at Pimisi and Bayview, aqueduct water features, and Nepean Inlet, with access to the Ottawa River. The future community of LeBreton Flats has the potential to be a showcase for future urban development in Canada. As with any urban development of this caliber, along with its enormous potential comes significant challenges. Understanding the value of the site as well as the nature and significance of the challenges facing its development is necessary. Failure to do so may unreasonably deem some challenges as development constraints and, in doing so, sadly miss the opportunity to undertake proper trade-offs analysis and unnecessarily compromise the full potential of the site.

A complete understanding of the transportation needs and implications of the site is necessary to guide and inform the movement from vision to reality. This report aims to provide the necessary analysis and insight, but certainly will not be the last. Our world continues to change and preparing this report after the pandemic highlights the fact that we could very well be embarking on a new era in transportation, which will require us to revisit our past assumptions about travel needs and expectations. Regardless, as required by the City's TIA guidelines, this report uses past experience to predict future outcomes. There are many high-level assumptions and findings, which are documented within the report, as are the details that are important to transportation professionals.

The immediate surrounding roadway network, consisting of Albert Street, Booth Street, and Wellington Street exhibit varying degrees of congestion today. Expanding the capacity of these roadways is not foreseen, as LeBreton Flats and the roads that surrounds it fall within the City's Downtown Core (refer to **Figure 1**). The City of Ottawa Transportation Master Plan and New Official Plan do not support roadway expansion in this constrained urban area of the City. Therefore, additional roadway capacity has not been proposed as part of this development, other than new local roads provided as part of the development access/egress. Providing a supportive environment for pedestrians and cyclists will improve the capacity of the active transportation network and help to improve active mode share.





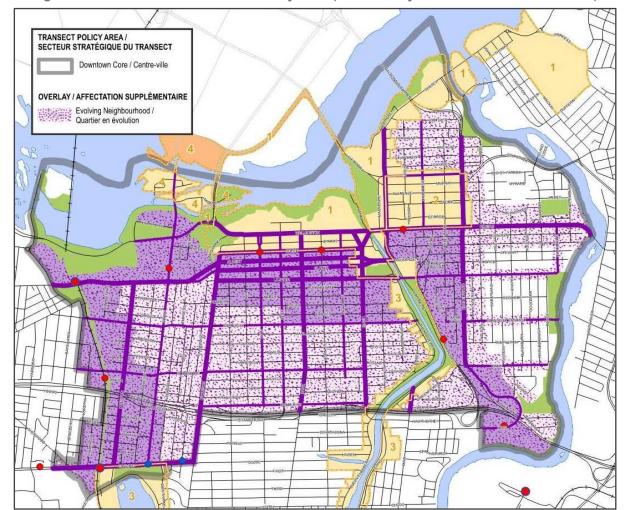


Figure 1: Downtown Core Transect Policy Area (Source: City of Ottawa Official Plan 2021)

This report has been prepared in accordance with the City of Ottawa's 2017 Transportation Impact Assessment Guidelines (including changes to the TIA process in 2023), as required by the City of Ottawa in support of the Plan of Subdivision process. Additionally, it is acknowledged that detailed TIA studies will be prepared in the future for each individual development phase associated with the LeBreton Flats lands, as details and specifics of such developments become more known closer to implementation time.

In addition to the above, the following should also be noted:

• Baseline Conditions: Study area intersections and roadways surrounding LeBreton Flats have been influenced by the LRT construction activities (e.g., transitway detours, the construction of Booth Street over the LRT corridor, etc.). With respect to the timelines associated with the Plan of Subdivision process, City Staff agreed to using historical traffic count data from the year 2014, as this is a time that likely best represents normal travel patterns and volumes. It should be noted that LRT opening delays and the COVID-19 pandemic starting in the spring of 2020 further complicated any potential efforts to collect more recent traffic data that could be viewed as being representative of "typical" conditions. Where possible, the most recent available traffic data (i.e., post-COVID) has been used.

- Mode Share Targets: LeBreton Flats currently has exceptional active transportation facilities, and the Plan of Subdivision will build on this by creating world-class facilities to support active transportation and transit modes. Future residents and businesses that will call LeBreton Flats home, will be exceptionally well located geographically and supported by the existing transportation system to easily access Ottawa and Gatineau's downtown cores, and some of the other great amenities the Nation's Capital has to offer. As such, and as detailed in this report, it is reasonable to expect an aggressive reduction in the degree to which private vehicles are relied upon. The mode share targets set in this TIS are comparable to those of similar Transit Oriented Developments (TOD), including 900 Albert Street, the Zibi development, and Wateridge Village.
- **Trip Generation:** The foundation of the analysis in this report is the trip generation expected to be realized from the developments proposed in the Plan of Subdivision. To help decision makers assess the potential traffic impacts, the development yield scenario that resulted in the highest predicted trip generation had been evaluated. It is likely that the proposed development will evolve over time, at which point, updated traffic studies can be completed, if required.
- Future Opportunities for City Input: This TIA is focused on the Plan of Subdivision for LeBreton Flats, and is one step in the ultimate development of LeBreton Flats. In addition to the comments received on this TIA, City staff will have additional opportunities for input on the development as part of future Site Plan Applications, as TIAs are submitted for each development parcel, including the potential major events centre.



2. STEP 1 - SCREENING FORM

As required by the City of Ottawa's 2017 Transportation Impact Assessment (TIA) Guidelines, a Screening Form (including changes to the TIA process in 2023) was completed for the proposed development (described below in **Section 3.1**). The Screening Form triggered the trip generation, location and safety criteria outlined in the City's TIA Step 1 – Screening Form. Since all triggers were met, a formal TIA (i.e., TIA encompassing Steps 1 through 5) is required to accompany the development application. The Screening Form is provided in **Appendix A**.

3. STEP 2 – SCOPING

3.1 Existing and Planned Conditions

3.1.1 Description of Proposed Development

The subject development lands (i.e., LeBreton Flats) are generally situated within the area bound by Booth Street to the east, Wellington Street / Kichi Zibi Mikan to the north, Albert Street to the south and the Trillium Pathway to the west. Several development scenarios were provided, and the scenario that is likely to result in the highest trip generation has been evaluated.

Based on the information provided, the proposed redevelopment of LeBreton Flats is planned to include a mix of high-density residential, office and retail type land uses, as well as approximately 12.7 hectares of parks and open spaces. It should also be noted that the Plan of Subdivision includes an option to host a new major event centre. Given the size of LeBreton Flats, market demand will ultimately dictate the rate of development.

The Plan of Subdivision depicts thirteen access points, including six access points to Albert Street, four access points to Wellington Street, and two access points to Booth Street. All new internal streets within LeBreton Flats are intended to be designed to be slow speed and relatively narrow shared spaces. Almost all parking will be provided in underground lots with access/egress located near the edge of the Flats.

Internal multi-use pathways will be provided to support active mobility, which will enhance access to parks, provide connectivity between on-site facilities, and will be fully integrated with the Capital Pathway network and the City's extensive pedestrian/cycling network. This active network will also include two new multi-use pathway structures over Ottawa's LRT Confederation Line that will provide convenient and direct access to the highest order public transit via existing LRT stations at Pimisi and Bayview, as well as regular OC Transpo bus service provided along Booth Street and Albert Street.

The local context of the subject site is provided in **Figure 2**, the proposed Plan of Subdivision is provided in **Figure 3**, and the proposed development parcels are provided in **Figure 4**.







Figure 2: Local Context



Figure 3: Proposed Plan of Subdivision





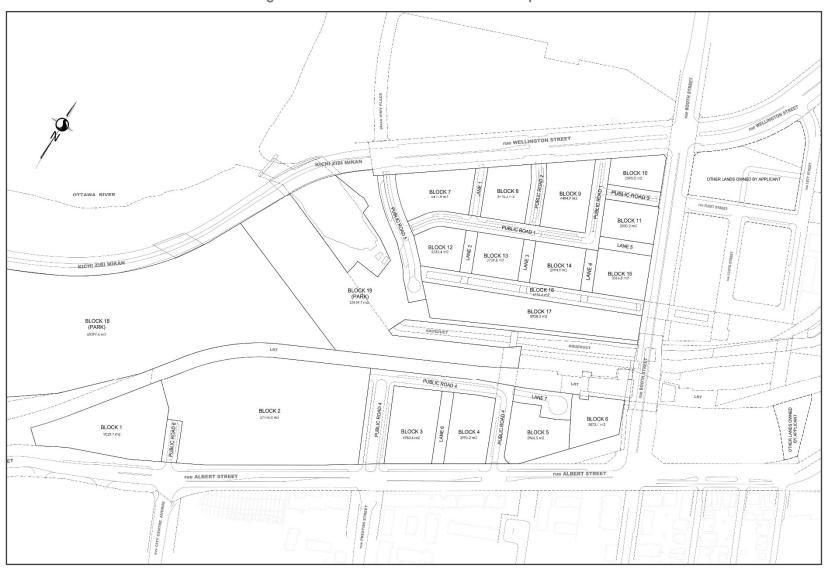


Figure 4: Draft Plan of Subdivision - Development Parcels

3.1.2 Existing Conditions

The transportation network surrounding LeBreton Flats has undergone significant changes over the past several years, mainly because of LRT construction that required temporary detouring of transitway bus traffic onto study area roadways. With respect to the City's TIA Guidelines, the following describes the study area network as it is in its current capacity.

Area Road Network

Wellington Street is a four-lane Arterial roadway (i.e., a two-lane per direction) with sidewalks on both sides, that extends from Sussex Drive in the east to Vimy Place in the west. Beyond Sussex Drive and Vimy Place, Wellington Street continues as Rideau Street and Kichi Zibi Mikan, respectively. Within the vicinity of the subject site, the speed limit is 60 km/h and on-street parking is provided along both sides of the roadway between Booth Street and Vimy Place.

Bay Street is a two-lane, one-way northbound Local roadway with cycling facilities and sidewalks on both sides, located within the vicinity of the subject development. It extends from Catherine Street in the south to Wellington Street in the north. The cycling facility on Bay Street was recently upgraded to provide uni-directional northbound and southbound cycle tracks between Laurier Avenue and Wellington Street. Within the vicinity of the subject site, the posted speed limit is 50 km/h and on-street parking is permitted on the west side of the roadway between Catherine Street and Laurier Avenue.

Lyon Street North is a three-lane, one-way southbound Arterial roadway with sidewalks on both sides, located within the vicinity of the subject development. It extends from Highway 417 in the south to Wellington Street in the north. South of Somerset Street, this roadway is reduced to two lanes. Within the vicinity of the subject site, the posted speed limit is 50 km/h and on-street parking is permitted on the west side of the roadway between Slater Street and Catherine Street. There is a southbound bike lane on the segment south of Albert Street.

Albert Street is a five-lane Arterial roadway (i.e., two eastbound lanes and three westbound travel lanes, with east and westbound shoulder lanes reserved for transit only) along the southern frontage of the subject site. This roadway continues as Mackenzie King Bridge east of Elgin Street and as Scott Street west of Bayview Station Road. East of Empress Avenue, two-way traffic on Albert Street is split into two one-way roadways: eastbound, Albert Street continues one-way as Slater Street, between Bronson Avenue and Elgin Street; and westbound, Albert Street operates as one-way between Bronson Avenue and Elgin Street. There is a bidirectional multi-use pathway on the north side of Albert Street from Commissioner Street in the east to Bayview Station. Within the vicinity of the subject site, the posted speed limit is 50 km/h and Albert Street is designated as a Full Loads truck route with respect to the City's Urban Truck Routes network. It should be noted that there is an ongoing project at the time of this report for the re-alignment of Albert Street and Slater Street, between Empress Avenue to Bay Street, as well as construction on Queen Street (refer to Section 3.1.3 for more details).

Slater Street is a three-lane, one-way Arterial roadway within the vicinity of the subject site. It develops/merges with Albert Street and the Mackenzie King Bridge at Empress Avenue in the west and Elgin Street in the east, respectively. Within the vicinity of the subject site, the posted speed limit is 50 km/h, and on street parking is permitted on both sides of the roadway during nonpeak periods and weekends (with the exception of along the southern frontage of the subject site, parking is prohibited), and Slater Street is designated as a Full Loads truck route with respect to the City's Urban Truck Routes network.

Bronson Avenue is a four-lane Arterial roadway (i.e., two travel lanes per direction) with sidewalks on both sides, located within the vicinity of the subject development. It extends from Sparks Street in the north and continues as the Airport Parkway, south of the Rideau River. Within the vicinity of the subject





site, the posted speed limit is 50 km/h and it is designated as a Full Loads truck route south of Albert Street with respect to the City's Urban Truck Routes network.

Booth Street is a four-lane Arterial roadway (i.e., two travel lanes per direction), which passes through the subject development site. It extends from Carling Avenue in the south, crossing the Confederation Line LRT tracks as a bridge within the subject site, and continues north into Gatineau, where it becomes Eddy Street. Booth Street is designated as a Restricted Loads truck route with respect to the City's Urban Truck Routes network. Within the vicinity of the subject site, the posted speed limit is 50 km/h. There are raised cycle tracks and sidewalks on both sides of the roadway within the subject site area. However, south of Albert Street, Booth Street is reduced to a two-lane Major Collector Road with a posted speed limit of 40 km/h. Booth Street, south of Albert Street, supports residential land uses on both sides, sidewalks on both sides, with a narrow set-back and on-street parking on the west side of the roadway. This section of Booth Street is not part of the City's Urban Truck Routes network, and significant efforts have been undertaken to preserve the residential nature of this section of the road, including turning restrictions, speed humps and other traffic calming measures (refer to Section 3.1.2 for more details).

Kichi Zibi Mikan (KZM), formerly known as the Sir John A. Macdonald Parkway, is a four-lane federally owned divided parkway (i.e., two travel lanes per direction) within the vicinity of the subject development. It extends from Vimy Place in the east and continues west where it merges into Carling Avenue (near the Lincoln Fields transit station). Within the vicinity of the subject site, the posted speed limit is 60 km/h and on-street parking is not permitted. A multi-use pathway runs along the Ottawa River parallel to the parkway.

Scott Street is a four-lane Arterial roadway (i.e., two travel lanes per direction) within the vicinity of the subject development. It extends from Churchill Avenue in the west and continues as Albert Street, east of Bayview Station Road. Within the vicinity of the subject site, the posted speed limit is 50 km/h and it is designated as a Full Loads truck route with respect to the City's Urban Truck Routes network. It features a multi-use pathway along its north side, from Bayview Station Road to Churchill Avenue, with a sidewalk and bike lane along its south side. It should be noted that there is an ongoing project at the time of this report provide a 'Complete Street' on Scott Street west of Bayview Station Road.

Bayview Station Road is a two-lane Collector roadway (i.e., one travel lane per direction) with sidewalks within the vicinity of the development. It extends between Albert Street in the south and Burnside Avenue in the north. The posted speed limit is 50 km/h and on-street parking is permitted on both sides of the roadway.

Slidell Street is a two-lane Collector roadway (i.e., one travel lane per direction) with one discontinuous sidewalk within the vicinity of the subject development. It extends between Burnside Avenue in the south and KZM in the north, where it continues north as Onigam Street. The posted speed limit is 40 km/h and on-street parking is prohibited.

Preston Street is two-lane Arterial roadway (i.e., one travel lane per direction) within the vicinity of the subject development. It extends between Albert Street in the north and Queen Elizabeth Driveway in the south. Within the vicinity of the subject site, there are sidewalks on both sides, the posted speed limit is 50 km/h and on-street parking is permitted on the east side of the roadway only, and it is designated as a Full Loads truck route with respect to the City's Urban Truck Routes network.

City Centre Avenue is two-lane Local roadway (i.e., one travel lane per direction) with partial sidewalks within the vicinity of the subject development. It extends between Albert Street in the north and Somerset Street in the south. Within the vicinity of the subject site, the posted speed limit is 50 km/h and on-street parking is permitted on both sides of the roadway.



Parkdale Avenue is a two-lane Arterial roadway (i.e., one travel lanes per direction) within the vicinity of the subject development. It extends between Carling Avenue in the south and KZM in the north. The posted speed limit is 50 km/h within the vicinity of the subject site and there are sidewalks on both sides.

Vimy Place is a private two-lane Local roadway (i.e., one travel lanes per direction). It extends between KZM and Booth Street. The posted speed limit is 40km/h and on-street parking is permitted on the south side of the roadway, along the Canadian War Museum frontage.

Somerset Street is a two-lane Arterial roadway (i.e., one travel lane per direction) with sidewalks sharrows on both sides of the street. It extends between Garland Street in the west and the Rideau Canal in the east. West of Garland Street it continues as Wellington Street W. The posted speed limit is 50 km/h and on-street parking is permitted on both sides of the roadway. It is designated as a Full Loads truck route with respect to the City's Urban Truck Routes network.

Study Area Intersections

Wellington/Portage Bridge - The Wellington/Portage Bridge intersection is a signalized, three-legged intersection. The north approach (Portage Bridge) consists of three left turn lanes (including one bus/taxi/HOV lane) and one channelized right-turn lane. The west approach (Wellington Street) consists of three right-turn lanes, and two left turn lanes. The east approach (Wellington Street) consists of two left-turn lanes, and three right-turn lanes (including one transit exclusive lane).

There are no prohibited vehicular movements at this intersection. There is a separate active-modes network at a lower level below the road network.

Booth/Chaudière - The Booth/Chaudière intersection is a signalized, four-legged intersection. All approaches to the intersection include a shared through/right lane and an auxiliary left turn lane, as the intersection has recently been reconstructed as part of the Zibi development project.

Booth/War Museum - The Booth/War Museum intersection is a signalized three-legged intersection. The south approach (Booth Street) consists of one left turn lane and two through lanes. The north approach (Booth Street) consists of two shared lanes for all movements. The west approach (War Museum) consists of one shared lane for all movements. The primary function of this intersection is to provide signalized crossing for users of the Ottawa River Pathway MUP.

Booth/Wellington - The Booth/Wellington intersection is a signalized four-legged intersection. The south approach (Booth Street) consists of one shared through-right turn lane and one through lane. The north approach (Booth Street) consists of two through lanes, one left turn lane, and one right turn lane. The east approach (Wellington Street) consists of one right turn lane and two through lanes. The west approach (Wellington Street) consists of two through lanes. This intersection was recently reconstructed as a protected intersection with cycling lanes separated from vehicular traffic.

Left and right turns are prohibited at the west approach. Left turns are prohibited at the east approach except on Sundays from 7am-1pm in order to facilitate Sunday closures of the KZM. Left turns are prohibited at the south approach.

Albert/Booth - The Albert/Booth intersection is a signalized four-legged intersection. The north approach (Booth Street) consists of one through lane, one left turn and one right turn lane. The south approach (Booth Street) consists of one shared left-through lane and one shared through-right lane. The east approach (Albert Street) consists of one left turn lane, one right turn lane and three through lanes, including one transit exclusive lane. The west approach (Albert Street) consists of one left turn lane, one through lane and one transit exclusive through lane, which acts as a right turn lane for non-transit vehicles.



Left turns are prohibited at the east approach during 7-9AM and 3:30 - 5:30PM on weekdays. Right-Turn-On-Red movements are prohibited from 7AM-9PM on weekdays for the north and east approaches. Through traffic is prohibited from 11PM to 6AM on the north approach.

Trucks are directed to turn left or right on the north approach. Signage indicates that trucks and buses are prohibited from traveling southbound on Booth Street from the Booth/Albert intersection.

Albert/Preston - The Albert/Preston intersection is a signalized, three-legged intersection. The south approach (Preston Street) consists of one left turn, and one right turn lane. The west approach (Albert Street) consists of one through lane and one transit exclusive through lane, which acts as a right turn lane for non-transit vehicles. The east approach (Albert Street) consists of three through lanes, including one transit exclusive lane, and one left turn lane.

There are no prohibited movements at this intersection.

Wellington/Vimy - The Wellington/Vimy intersection is a signalized, three-legged intersection. The north approach (Vimy PI) consists of one shared lane for all movements. The west approach (KZM) consists of two through lanes, and one left turn lane. The east approach (Wellington Street) consists of one through lane and one shared through-right lane.

There are no prohibited movements at this intersection.

Kichi Zibi Mikan/Slidell - The KZM/Slidell intersection is a signalized, four-legged, intersection. The north approach (Onigam Street) consists of one shared through-right lane. The south approach (Slidell Street) consists of one through lane. The west and east approaches (KZM) each consists of one shared left-through lane and one shared through-right lane.

Left turns and right turns are prohibited at the west approach from 7-9AM and 4-6PM. Right turns are prohibited at the east approach from 7-9AM and 4-6PM, while left turns are prohibited at all times at the east approach. Left turns are prohibited at the north approach. Additionally, both left and right turns are prohibited at the south approach.

Kichi Zibi Mikan/Parkdale - The KZM/Parkdale is an unsignalized interchange connecting KZM and Parkdale Avenue. Two through lanes are maintained in each direction on KZM through the interchange. There are no ramp terminal intersections since all possible movements are accommodated through free-flowing merge and diverge ramps.

Albert/City Centre - The Albert/City Centre intersection is a signalized four-legged intersection. The south approach (City Centre Avenue) consists of a shared left-through-right lane. The north approach (OC Transpo Access) consists of one shared lane for all bus movements. The east approach (Albert Street) consists of one left turn lane, two through lanes (including one transit exclusive lane), and a transit exclusive right turn lane. The west approach (Albert Street) consists of one transit exclusive left turn lane and two through lanes (including one transit exclusive lane that facilitates right-turn movements for non-transit vehicles). The south approach was recently reconstructed to accommodate a cycling facility on the east side of City Centre Avenue, resulting in a single northbound lane at the intersection. Non-transit vehicles are prohibited from entering the north approach of the intersection.

Albert/Bayview Station - The Albert/Bayview Station intersection is a signalized four-legged intersection. The south approach (Bayview Station Road) consists of one through lane, one left turn lane, and one channelized right turn lane. The north approach (Bayview Station Road) consists of one shared through-right lane and one left turn lane. The east approach (Albert Street) consists of one left turn lane, one through lane, and one right-turn lane. The west approach (Scott Street) consists of one left turn lane and one shared through-right lane. This intersection previously had transit priority lanes



in the eastbound and westbound directions, but is undergoing reconstruction as part of the Scott Street project identified in **Section 3.1.3**. There are no prohibited movements at this intersection.

Scott/Parkdale - The Scott/Parkdale intersection is a signalized four-legged intersection. The north approach (Parkdale Avenue) consists of one shared right turn-through lane, and one left turn lane. The south approach (Parkdale Avenue) consists of one shared right turn-through lane, and one left turn lane. The east approach (Scott Street) consists of one right turn lane, one through lane, and one left turn lane. The west approach (Scott Street) consists of one right turn lane, one through lane, and one left turn lane. This intersection previously had transit priority lanes in the eastbound and westbound directions, but was recently reconstructed. There are no prohibited movements at this intersection.

Somerset/Preston - The Somerset/Preston intersection is a signalized, four-legged intersection. All four approaches consist of a shared through-right lane and a left turn lane. There are no prohibited vehicular movements at this intersection, however right turn on red (RTOR) is restricted from 7:00 AM to 7:00 PM.

Somerset/Booth - The Somerset/Booth intersection is a signalized, four-legged intersection. All four approaches consist of a shared through-right lane and a left turn lane. There are no prohibited vehicular movements at this intersection.

Existing Driveways to Adjacent Developments

There are 19 driveways that fall within a 200m boundary of the site. These exclude driveways that only serve a single private dwelling. It should be noted that there is ongoing construction for numerous developments in the study area, and the list below does not include temporary construction accesses to these sites that may be present at the time of this report.

- 12 driveways are located near the south perimeter of the site
 - 1 driveway on Empress Avenue that is 40m south of Albert Street, connecting to a seniors' centre and spiritual centre parking lot.
 - 3 driveways on Booth Street. Two of which are approximately 50m south of Albert Street, connecting to office buildings and a townhouse complex. The third driveway is approximately 90m south of Albert Street, connecting to a separate townhouse complex.
 - 3 driveways on Rochester Street, all located at the cul-de-sac at the north end of the street, connecting to townhouse complexes.
 - 3 driveways on Primrose Avenue. Two are located 40m east of the intersection while the remaining driveway is located 100m west of the intersection. All driveways provide connections to separate townhouse complexes; and,
 - 2 driveways on City Centre Avenue, located approximately 50m and 150m south of Albert Street. Both driveways provide connections to an office and retail complex.
- 6 driveways are located near the east perimeter of the site
 - 4 driveways on Lett Street, ranging from approximately 70m south of Wellington Street to approximately 220m south of Wellington Street. All four driveways connect to apartment complexes.
 - 1 driveway is located on Fleet Street, approximately 50m east of Booth Street, providing connection to an apartment show room/office, and
 - 1 driveway is located on Lloyd Street, approximately 90m south of Fleet Street. This driveway provides connection to a surface parking lot.
- 1 driveway is located near the north perimeter of the site



 This driveway is located on Vimy Place, approximately 260m west of Booth Street, serving the parking lot of the Canadian War Museum.

Pedestrian/Cycling Network

The pedestrian network in the vicinity of the site is well developed and offers a number of convenient and scenic routes, such as the expansive Capital Pathway and Trans Canada Trail (along the Ottawa River), the Trillium Pathway (along the Trillium LRT line), and the aforementioned multi-use pathway along the north side of Albert Street / Scott Street, all of which are in close proximity to LeBreton Flats and will have direct connectivity to the development. Recently the NCC finished construction on a new multi-use pathway north of the Confederation LRT alignment that separates pedestrians from cyclists, and connects the Ottawa River Pathway to Pimisi Station.

Sidewalks are also provided along both sides of study area roadways, in most cases. Exceptions can be found on select local streets accommodating low vehicle speeds, where sidewalks are either reduced to one side only or terminate midblock, such as City Centre Avenue. It should also be noted that KZM does not have sidewalks.

With regard to cycling facilities, the study area is bisected by two Cross-Town Bikeways (Albert Street and Booth Street) as defined by Part 1 of the City's New Transportation Master Plan; additional Cross-Town Bikeways in the area include Wellington Street from the Portage Bridge to Rideau Street, and Laurier Street from Percy Street to Cumberland Street. Additionally, the study area is surrounded by various pathway networks (NCC Capital Pathway, Trillium Pathway, and Albert Street multi-use pathway). The existing multi-use path/cycling network within the vicinity of the subject site, as sourced from GeoOttawa, is shown in the following **Figure 5**.



Figure 5: Existing Multi-Use Path/Cycling Network

As shown in Figure 5, there are currently multi-use pathways directly adjacent to LeBreton Flats along Albert Street, which feed directly into bike lanes on Scott Street to the west, and dedicated cycle tracks on Laurier Avenue to the east. Based on field observations and local area knowledge, cycling activity is considered to be high within the vicinity of the subject development lands.



Transit Network

OC Transpo currently provides the highest order transit service through the heart of LeBreton Flats. The site will benefit from direct access to both of OC Transpo's O-Train Lines: Confederation Line and Trillium Line. The Bayview LRT Station is located along the western limit of LeBreton Flats, which serves as a transfer station between the east-west Confederation Line (Line 1) and north-south Trillium Line (Line 2). The Pimisi LRT Station is located closer to the eastern limit of LeBreton Flats and provides service for the east-west Confederation Line (Line 1).

Additionally, 11 OC Transpo bus stops are located within walking distance to/from LeBreton Flats. The following **Table 1** summarizes existing stops, their associated routes and direction of travel. In addition to OC Transpo, STO also provides service between downtown Ottawa and Hull. STO provides service through the study area via Portage Bridge and Wellington Street; however, there are currently no stops within a 10-minute walking distance (800m) to/from the subject development site.

Table 1: Transit Information

Tubic II I tuliot illioilliation							
Stop #	Location	Route Identifier ¹	Direction				
#0433	120m north of Booth/Wellington	61, 63, 66, 75, 85	Southbound				
#1877	Immediately south of Booth/Wellington	61, 63, 66, 75, 85	Southbound				
#1876	Immediately south of Booth/Wellington	61, 63, 66, 75, 85	Northbound				
#2371	Immediately south of Preston/Albert	85	Southbound				
#2392	Immediately east of Albert/Empress	57,61,75	Westbound				
#2396	Immediately east of Albert/Empress	57,61,75	Eastbound				
#3010	Pimisi LRT Station	Confederation Line	East/Westbound				
#3010A	Pimisi Station, Upper Level	61, 63, 66, 75, 85	Northbound				
#3010B	Pimisi Station, Upper Level	61, 63, 66, 75, 85	Southbound				
#3010C	Immediately west of Booth/Albert	57,61,75	Westbound				
#3010D	Immediately east of Booth/Albert	57,61,75	Eastbound				
#3060	Bayview LRT Station	Confederation & Trillium Line	East/Westbound & Southbound				
#3060A	150m west of City Centre/Albert	57,61,63,66,75	Westbound				
#5684	100m east of Preston/Albert	57,61,75,85	Eastbound				
#5722	120m north of Booth/Wellington	61, 63, 66, 75, 85	Northbound				
#6659	70m west of Preston/Albert	57,61,75	Westbound				
#8005	Immediately south of Preston/Albert	85	Northbound				
#8048	Immediately east of City Centre/Albert	57,61,75	Eastbound				

¹ OC Transpo routes are identified by their new route number, as defined in the "New Ways to Bus" realignment initiated in 2024.





The following **Figure 6** depicts the OC Transpo routes within the vicinity of the LeBreton Flats, and **Table 2** provides additional information with respect OC Transpo service identified in Table 1.



Figure 6: Transit Routes Within Study Area (Source: OC Transpo System Map)

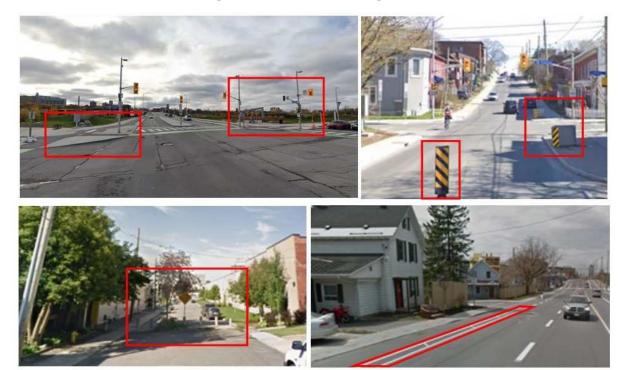
Table 2: OC Transpo Route Information

Route	Origin/Destination	Service Type	Peak Hour Headway
1	Confederation Line (Tunney's Pasture ↔ Blair)	LRT	5 min
2	Trillium Line (Bayview ↔ Greenboro)	LRT	12 min
57	Tunney's Pasture ↔ Bells Corners	Rapid & Night Route	Night Route: 20-30 min
61	Tunney's Pasture ↔ Stittsville	Rapid & Night Route	Night Route: 30 min
63	Briarbrook ↔ Tunney's Pasture	Rapid	15 min
66	Tunney's Pasture ↔ Innovation	Limited Local	Night Route: 20-30 min
75	Cambrian ↔ Tunney's Pasture	Rapid & Night Route	Night Route: 20-30 min
85	Lees ↔ Bayshore	Frequent	15 min

Area Traffic Management Measures

The following **Figure 7** highlights the various area traffic management measures implemented within the vicinity of LeBreton Flats. The top left corner of the figure shows bulb-outs, deflectors, and turning restrictions on Wellington/Booth. The figure below shows bulb-outs, planter, and vertical centreline treatments on Booth Street, south of the Booth/Albert intersection. It should also be noted that there are speed humps on Booth between Albert Street and Primrose Avenue. The bottom left corner shows on-street plazas/vehicle access closure on Elm St. W (vehicle access closures are also present on Spruce St. W). The bottom right corner shows road dieting measures on Scott Street in the form of a bike lane with buffer.

Figure 7: Area Traffic Management



Peak Hour Travel Demands

For the purpose of this assessment and based on the initial study, the following study area intersections have been identified for intersection capacity analysis (traffic count date included in parentheses):

- Portage Bridge/Wellington (June 2014)
- Booth/Chaudière
- Booth/Wellington (May 2013)
- Booth/Albert (January 2024)
- Booth/War Museum (July 2013)
- Albert/Preston (April 2014)
- Vimy/Wellington (June 2014)
- Wellington/Lett (January 2020)



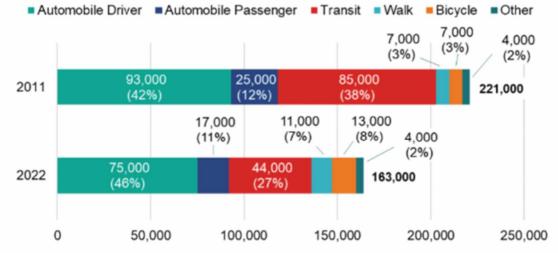
- Slidell/Kichi Zibi Mikan (April 2017)
- Albert-Scott/Bayview Station (March 2023)
- Albert/City Centre (April 2014)
- Parkdale/Kichi Zibi Mikan (February 2020)
- Parkdale/Scott (March 2023)
- Somerset/Preston (December 2023)
- Somerset/Booth (August 2016)

It is noted in the City's 2013 TMP that reliance on vehicles to enter and exit the downtown has been diminishing for some time now, dating back to 1986 and 2011. The number of vehicles arriving downtown in the morning peak period has decreased while the number of people arriving downtown has increased. Initial conclusions from the updated Origin-Destination (OD) Travel Survey that was undertaken in 2022 as part of the New Transportation Master Plan (TMP) show that trips into downtown by all modes have been reduced due to the COVID-19 pandemic and the shift to hybrid work. **Figure 8** below, from the new 2022 OD Travel Survey, illustrates this graphically.

Figure 8: Daily Mode Share for Trips Destined to the Downtown Core from Outside the

Downtown Core (2011-2022)

Automobile Driver Automobile Passenger Transit Walk Bicycle Other



Source: 2011 and 2022 Origin-Destination Survey.

According to the City of Ottawa's Official Plan (2021), LeBreton Flats falls within the Downtown Core Transect (formerly known as Ottawa's Central Area in older versions of the Official Plan), which encompasses a large portion of the downtown area. Therefore, for the purposes of this study, no background traffic growth (i.e., background traffic growth of 0%) was assumed.

In addition to the lack of growth in background traffic, the study area roadways have been impacted by LRT- and Chaudiere Crossing- related construction activities for a considerable time (generally 2015-2023) which reduced the attractiveness of relying on private vehicles and prompted some to change their trip time, forego their trips, or change routes/destinations in an effort to avoid congestion. Additionally, the COVID-19 crisis that started in March 2020 further impacted travel patterns, making more recent traffic counts post LRT implementation not beneficial or representative of "typical" conditions. Therefore, and as agreed to by City Staff, the most recent traffic count data (where

() Stantec

available) was used, however the majority of data is historical traffic counts from the year 2014. It should be noted that due to certain data gaps (i.e., not every study area intersection was counted during the year 2014), a volume balancing exercise was conducted (i.e., traffic volumes were appropriately adjusted to minimize large volume imbalances between study area intersections).

The following **Figure 9** depicts observed weekday morning and afternoon peak hour vehicle volumes at the study area intersections and **Figure 10** illustrates pedestrian and cyclist volumes over the same peak hour periods. It should be noted that most of the counts were taken during winter or early spring, which may result in artificially lower cycling volumes due to poor cycling conditions. Additionally, City staff indicate that cycling volumes have greatly increased since 2014, which means cycling volumes below may be underreported for current conditions. Detailed traffic count data is included in **Appendix B**.

Existing Road Safety Conditions

Available collision data for the years 2015 – 2019 was obtained from the City of Ottawa's Open Data Catalogue and provided in **Appendix C**. The collision data includes all collisions occurring at the intersections and the roadway segments within the area surrounding the subject development site, including intersections and segments along Albert Street, Booth Street, Parkdale Avenue, Scott Street, Wellington Street, Somerset Street, and KZM.

Based on the most recent available historical collision data, the 5-year total number of recorded collisions within the study area is 552. Most collisions within the study area (441 incidents or 80%) resulted in property damage only, and the remaining collisions result in either personal injuries (109 incidents or 20%) or fatalities (2 incidents or <1%). Both fatalities occurred outside the development area, at the intersection of KZM with Slidell. The most frequent types of collisions, as cited by police, were rear ends (217 incidents or 39%) and sideswipes (100 incidents or 18%).

It is noteworthy that within the five years of recorded collision data, there were 10 collisions involving pedestrians. Fortunately, all the reported collisions involving pedestrians were non-fatal; however, personal injuries were reported.

There were 20 collisions involving cyclists within the five years of recorded data, 19 of which were at intersections and 1 which was on a roadway segment. It is notable that 4 of the 20 collisions occurred at the intersection of Albert Street and Booth Street.





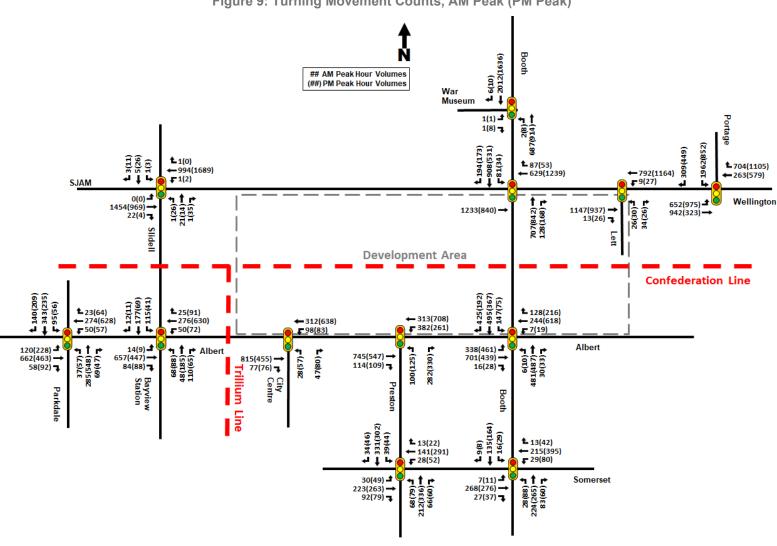


Figure 9: Turning Movement Counts, AM Peak (PM Peak)

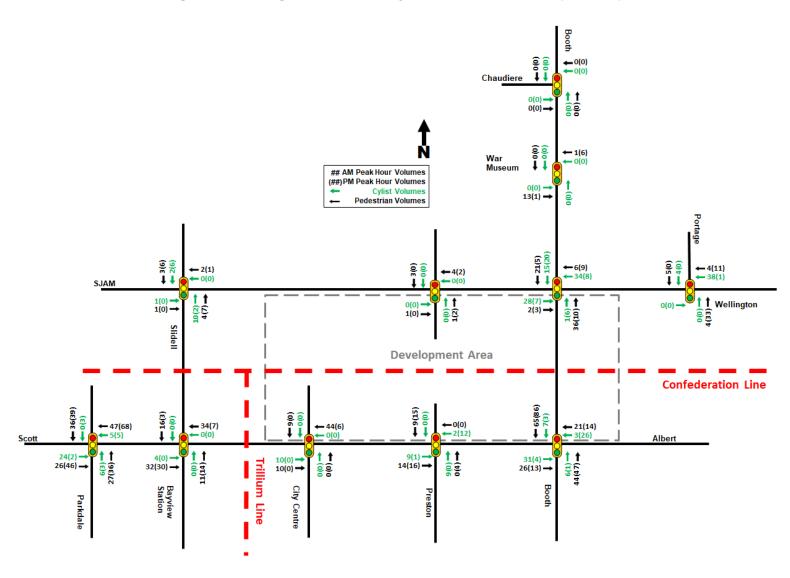


Figure 10: Existing Pedestrian and Cyclist Volumes, AM Peak (PM Peak)

3.1.3 Planned Conditions

Active Transportation Projects

Cycling projects recently completed, underway or planned in the area include:

- Approximately one kilometer of east-west multi-use pathway was recently built in LeBreton Flats. This pathway links existing multi-use pathways at Pimisi LRT Station with the Trillium Pathway and the Ottawa River Pathway.
- Uni-directional cycle tracks on Bay Street, from Wellington Street to Laurier Avenue, were completed in 2021, providing connectivity between Wellington Street and the Laurier Avenue bike lanes.
- Uni-directional cycle tracks on Booth Street north of Wellington Street, providing connectivity between Wellington Street and the Ottawa River Pathway. These cycle tracks will connect to the cycling facilities being provided across the Chaudière Crossing as part of the Zibi development, which in turn will connect to Gatineau and NCC cycling facilities on the Quebec side of the Ottawa River.
- A segregated bike facility on Wellington Street providing connectivity between Portage Bridge and Mackenzie Avenue.
- Eastbound cycle tracks along Albert Street through the study area, from City Centre Avenue in
 the west to Empress Avenue in the east, as part of the Albert Street Cycling / Pedestrian
 Modifications project. As part of this project some sections of the existing multi-use pathway
 on the north side of Albert Street will be maintained, while others will be converted to unidirectional westbound cycle tracks. Protected intersections at City Centre Avenue, Preston
 Street and Booth Street will also be implemented as part of this project.
- Uni-directional cycle tracks along Albert Street east of the study area as part of various improvement projects along Albert Street and Slater Street², extending from Empress Avenue in the west to the Mackenzie King Bridge in the east.
- Uni-directional cycle tracks intermittently along Scott Street, extending from Holland Avenue to Bayview Station Road and includes protected intersections at Parkdale Avenue, Carruthers Avenue, and Bayview Station Road. The cross-section will be reduced to two through lanes (i.e., one in each direction), with auxiliary turn lanes at select intersections.
- A multi-use pathway across the Chief William Commanda Bridge (formerly the Prince of Wales Bridge), as part of the Chief William Commanda Bridge rehabilitation project.

² Reconstruction Of Albert Street, Queen Street, Slater Street And Bronson Avenue - Draft Design Roll Plan, January, 2021







Transit Projects

With the completion of Ottawa's Confederation LRT line in 2019, there are no proposed or ongoing transit projects within the vicinity of the site identified in the City of Ottawa's Transportation Master Plan (TMP). Construction work for the Stage 2 LRT extension of the Confederation Line is ongoing at the time of this study; while no construction on Stage 2 is located within the study area, the extension of the line will increase the usage of the Confederation Line, which bisects the LeBreton Flats site. In the coming years, the transit only lanes along Albert and Slater Streets will be removed as part of the various upgrades to pedestrian and cycling facilities, identified in the section above.

The City of Gatineau has discussed plans for a tramway connecting the growing area of Aylmer to downtown Ottawa, including potential connections to the Confederation Line. The system would traverse the Portage Bridge into Ottawa, likely replacing the existing bus-only lanes on the Portage Bridge. The tramway would terminate near Elgin Street, with an alignment either along Wellington Street or a tunnel under Sparks Street. The City of Ottawa has shown a preference for the Sparks Street alignment, while the NCC has shown a preference for the Wellington Street alignment. The closest the West Gatineau Tramway would be to LeBreton Flats is at the intersection of Wellington/Portage Bridge, which is approximately 270m from the northeast corner of the development site. There are currently no projections for OC Transpo and STO ridership changes, although it can be expected that there may be fewer trips on bus routes crossing into Gatineau on Booth Street, such as OC Transpo Route 85. Additionally, the NCC has indicated an interest in pursuing a "Downtown Transit Loop" dating back to 2020, connecting the downtowns of Ottawa and Gatineau³. **Figure 11** below shows all existing and proposed rapid transit networks in the downtown area.

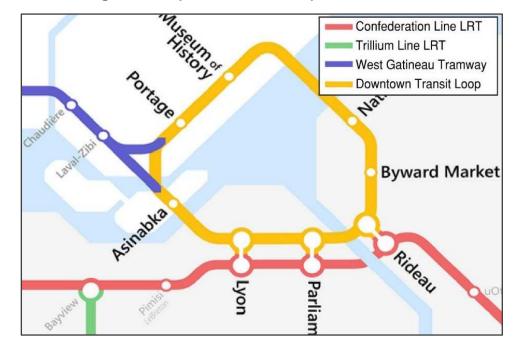


Figure 11: Proposed Downtown Rapid Transit Network

³ https://ncc-ccn.gc.ca/news/national-capital-region-loop-the-idea-whose-time-has-come





Road Projects

Referencing the City of Ottawa's Construction and Infrastructure Projects website, construction is anticipated to impact the following roadways within the study area. These construction projects may relate to road resurfacing, watermains, sewers, multi-use pathways, and bike facilities, which are all opportunities to change roadway characteristics/functionality:

- Short-term (1-5 years)
 - Re-alignment of Albert Street and Slater Street, between Empress Avenue to Bay Street, as well as construction on Queen Street.
 - Albert Street Cycling / Pedestrian Modifications project, between City Centre Avenue and Empress Avenue.
 - Scott Street Protected Intersections project, between Holland Avenue and Bayview Station Road.
 - Wellington Street resurfacing, from O'Connor to Vimy.
 - o Scott Street streetscaping, from Parkdale Avenue to Bayview Station Road.
 - Road, sewer and water on City Centre Avenue, and Elm Street between Albert and Preston.
 - Commissioner Street resurfacing and sidewalk renewal
- Medium-term (5+ years or construction start yet to be determined)
 - o Albert Street and Slater Street, Bay Street to Elgin Street.

Other Area Development

Planned developments within the study area have been identified using the City's Development Application Search Tool. The following **Table 3** below summarizes planned and active developments within the vicinity of the subject development lands.

Table 3: Area Development

Location	Description	Size	Туре
3-4 Booth	Zibi Project, Chaudière and Albert Islands Redevelopment	(Ottawa Sector) - 1,202 condo units - 51,954 ft² retail - 184,045 ft² office - 160 suite hotel	Mixed-use community
133 Booth	East LeBreton Flats Redevelopment	- 592 residential units - 5,190 ft ² daycare - 3,265 ft ² ground floor commercial	Mixed-use community
900 Albert	Three high-rise residential buildings with commercial	 - 1,232 condo units - 150 suite hotel - 128,370 ft² retail - 197,324 ft² office 	Mixed-use residential buildings

It should be noted that the projected impact of the developments summarized in Table 3 are included in the subsequent analysis.



3.2 Study Area and Time Periods

3.2.1 Study Area

The following existing study area intersections were agreed to be assessed through discussions with City staff:

- Portage Bridge/Wellington
- Booth/Chaudière
- Booth/Wellington
- Booth/Albert
- Booth/War Museum
- Albert/Preston
- Vimy/Wellington
- Slidell/Kichi Zibi Mikan
- Bayview Station/Albert
- Albert/City Centre
- Parkdale/Scott
- Somerset/Booth
- Somerset/Preston

The defined study area is considered to be relatively large and should capture the majority of the projected traffic generated by the proposed development lands. Traffic impacts outside the defined study area should be relatively small. However, shifts in demand may occur outside of the study area due to the currently saturated road network. Such changes in travel behaviour may be captured by the City's regional macroscopic transportation demand model, which is currently being updated to help assess future infrastructure needs.

3.2.2 Time Periods

Given the surrounding road network (e.g., Albert Street, Wellington Street) typically experience the heaviest traffic volumes during the weekday morning and afternoon peak hours, this assessment considered weekday morning and afternoon peak hours for analysis purposes only.

3.2.3 Horizon Years

As noted in the TIA Guidelines, when a development will proceed in phases, TIA analysis must be completed for each development phase. Due to the scope of the development, it is difficult to select an exact year for full build-out of each phase, however through discussions with the NCC, the following horizons were agreed to for assessment.

2030: Phase 1 build-out2040: Phase 2 build-out2050: Phase 3 build-out

It is noted in the TIA Guidelines that a "build-out plus five years horizon" is also required. It is also noted that the City may waive the need to analyze a "build-out plus five years horizon". It is proposed here that due to the numerous stages to this development along with the lack of background traffic growth, that no "build-out plus five years horizon" be required.



3.3 Development-Generated Travel Demand

3.3.1 Land Use

As previously described, the Plan of Subdivision for LeBreton Flats is planned to include a mix of high-density residential, office, retail and hotel type land uses, as well as approximately 12.7 hectares of parks and open spaces. It should also be noted that the current Plan of Subdivision includes an option to host a major event centre. As part of the previous Master Concept Plan process, a land use planning exercise was undertaken for four potential development scenarios that were envisioned for LeBreton Flats. Of the four scenarios, Scenario 4 had the highest density and therefore, was considered to exhibit the highest potential trip generation on standard weekday. As such, Scenario 4 was carried forward for analysis as it reflects the "worst case scenario" from a trip generation perspective. As part of the Plan of Subdivision, Scenario 4 has been further refined, as summarized in **Table 4**.

Townhome Mid-/High-Retail Office Hotel Scenario **Description** (units) Rise (units) (ft²) (ft²) (ft²) Major Event Master Centre & 301 3816 261,035 508,734 154,419 Concept Plan Highest Density **Major Event** Plan of Centre & 508.734 300 5767 261,035 154,419 **Subdivision Highest** Density Difference - 1 + 1,951 0 0 0

Table 4: Potential Development Scenarios - Scenario 4

For analysis purposes, the Plan of Subdivision has been assumed to be built-out in the following phases:

Phase 1: Early Stages (approximately 2024-2030)

Land Sales + Development

- Albert District (east of Booth Street, North of Albert Street) {parcels A9, A10}
- Flats North (+associated new streets/lanes) {parcels F1, F2, F3, F8}
- Albert District West: Major events centre development (major event centre site) {parcels A1, A2, A3, A4}
 - If no major event centre is developed (or other special uses): NCC will proceed with Alternate Site option (+associated streets)

Infrastructure & Open Space Investments

- Cave Creek Sewer
- Urban Playground
- Inlet area
- Ph1. City Park (East)
- Preston (between Albert & LRT)
- Preston Pedestrian/Bike Bridge
- Connecting pathway to Bayview station
- Potential for limited improvements for interim uses in the Aqueduct District



Phase 2: Middle Stages (2030-2040)

Land Sales + Development

- Flats South (+associated streets) {F4, F9, F10, F11, F12}
- Albert District West, between Preston and Broad (+associated streets) {A5, A6}

Infrastructure & Open Space Investments

- Covered Aqueduct enhancements
- Aqueduct District Open Spaces
- Ph2. City Park (west)
- Capital Park
- City Centre Pedestrian/Bike Bridge

Phase 3: Later Stages (2040+)

Land Sales + Development

- Aqueduct District (AD1, AD2, AD3, AD4, AD5)
- Albert District East (south of Albert Street) {A11, A12}
- Albert District West, between Broad and Booth (+associated streets) {A7, A8}
- Flats (Pindigen Park Site) {F5, F6, F7}

The following **Table 5** summarizes the size and type of land uses for each development block per planned phase of development for Scenario 4.

Table 5: Scenario 4 Land Use Build-out by Block/Phase

	Land Use								
Block	Low- Rise Housing (units)	Mid-Rise Housing (units)	High- Rise Housing (units)	Shopping Center (ft²)	General Office (ft²)	Hotel (ft²)			
Phase 1 (2024-2030)									
A1	0	120	472	14,951	-	-			
A2-4 (Major Event Centre)	0	0	608	25,510	-	101,719 (201 rooms)			
A9	0	59	169	10,333	-	-			
A10	0	124	328	20,333	-	-			
F1	74	0	81	-	-	-			
F2	56	0	135	-	-	-			
F3	76	0	135	-	-	-			
F8	0	86	135	9,515	-	52,700 (104 rooms)			
Phase 1 Total	206	389	2063	80,643	-	154,419 (305 rooms)			
Phase 2 (2030-2040)									
A5	10	132	135	-	-	-			
A6	10	145	203	9,020	-	-			
A11	0	179	135	11,259	-	-			
A12	0	60	135	6,458	-	-			
F9	14	81	135	5,533	ı	-			
F10	14	86	202	5,877	ı	-			
Phase 2 Total	48	683	945	38,147	-	-			
Phase 3 (2040+)									
A7	0	0	203	21,905	144,139	-			
A8	0	0	270	30,257	117,563	-			
F4	46	0	135	-	-	-			
F5	0	56	135	-	-	-			
F6	0	49	135	-	-	-			
F7	0	55	0	-	-	-			
F11	0	111	270	30,785	-	-			
F12	0	66	202	19,289	-	-			
AD1-5	0	0	0	40,009	247,032	-			
Phase 3 Total	46	337	1350	142,245	508,734	-			
Total	300	1409	4358	261,035	508,734	154,419 (305 rooms)			

3.3.2 Trip Generation

For the purpose of this assessment, projected residential site-generated traffic was estimated using the City of Ottawa TRANS Trip Generation Manual (2020). Projected retail, office and hotel traffic was estimated using the trip generation rates from the 10th Edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual. This method of predicting trip generation is considered industry best practice, is the method required as part of a formal Traffic Impact Assessment Study for the City of Ottawa, and is the method agreed to specifically for this project through discussions with the City of Ottawa.





Based on the foregoing and the information provided, the following **Table 6** summarizes appropriate vehicle trip generation rates for estimating projected site-generated traffic by land use. It should be noted that the first listed equation is an average person trip generation rate, and the second equation is a "line of best fit" equation that more accurately represents the trend of person trip generation based on land use size. Typical industry practice is to use the "line of best fit" equation for site-generated traffic projections, if available.

Table 6: Trip Generation Rates

Land Use	Land Use Code (TRANS / ITE)	AM Peak Hour	PM Peak Hour
Low-Rise Multi-family Housing (X = Units)	TRANS Multi-Unit (Low-Rise)	T = 0.68(X)	T = 0.70(X)
Mid-Rise Multi-family Housing (X = Dwelling Units)	TRANS Multi-Unit (High-Rise)	T = 0.4(Y)	T = 0.4/Y)
High-Rise Multi-family Housing (X = Dwelling Units)	TRANS Multi-Unit (High-Rise)	T = 0.4(X)	T = 0.4(X)
Shopping Center (X = 1,000 ft ² GFA)	ITE 820 General Urban/Suburban	T = 5.03(X); or $Ln(T) = 0.86(X) + 2.53$	T = 7.49(X); or $Ln(T) = 0.66(X) + 4.04$
General Office Building (X = 1,000 ft ² GFA)	ITE 710 General Urban/Suburban	T = 1.25(X); or T = 1.23(X) + 6.01	T = 1.35(X); or T = 1.32(X) + 6.07
Hotel (X = Rooms)	ITE 310 General Urban/Suburban	T = 0.47(X); or $T = 0.5(X) - 5.34$	T = 0.60(X); or T = 0.75(X) - 26.02

Note: T = Average Person Trip Ends

With respect to TRANS residential trip generation rates, the TRANS Trip Generation Manual provides a person trip rate for the AM and PM peak periods. Adjustment factors are also provided in the TRANS Trip Generation Manual to convert the person peak period trip rates into vehicular, transit, cycling and walking peak hour trip rates.

With respect to ITE Trip Generation rates, the data used to develop these rates in the 10th Edition of the Trip Generation Manual provides person trips for certain development types, including Shopping Center (ITE Land Use Code 820) and General Office Building (ITE Land Use Code 710). These person trips were calculated for each land use, and then broken down into trips for different modes (vehicle, transit, cycling and walking) by using the mode split agreed upon with the City for this development (refer to Travel Mode Shares below).

The Hotel Land Use Code (ITE Code 310) only includes vehicular trip generation, with the data collection surveys used to develop the trip generation typically conducted in highly suburban locations with limited access to transit and dedicated non-motorized facilities (e.g., sidewalks, bike lanes, etc. are generally limited). To properly consider the multi-modal trips generated by the Hotel land use, projected site-generated traffic (estimated using ITE trip generation rates) is converted to projected site-generated person trips. To convert projected ITE vehicle trips to person trips, an auto occupancy factor and non-auto trip factor is applied to the ITE trip generation rates. According to the City's TIA Guidelines, and based on available American Census data, the typical modal share of non-auto person





trips is approximately 10% and the typical auto occupancy is 1.15. When combined/solving for "person trips" (i.e., Persons = 1.15xAutos + 0.10xPersons), a factor of 1.28 is used to convert vehicle trips to person trips. These person trips are then broken down into trips for different modes (vehicle, transit, cycling and walking) by using the mode split agreed upon with the City for this development (refer to Travel Mode Shares below).

The following **Table 7** and **Table 8** summarizes the resulting projected two-way person site trip generation for each phase of development, by development block and by land use type, respectively.

Table 7: Projected Site Person Trip Generation by Block / Parcel

Dlook	AM Peak Hour			PM Peak Hour			
Block	ln	Out	Total	ln	Out	Total	
Phase 1 (2024-2030)							
A1	144	222	366	306	269	575	
A2-4 (Major Event Centre)	257	311	568	475	408	883	
A9	79	107	186	185	171	356	
A10	147	202	349	311	284	595	
F1	25	57	82	48	35	83	
F2	28	64	92	53	39	92	
F3	32	73	105	61	45	106	
F8	110	125	235	216	189	405	
Phase 1 Total	822	1161	1983	1655	1440	3095	
Phase 2 (2030-2040)							
A5	35	79	114	65	47	112	
A6	90	139	229	205	183	388	
A11	94	133	227	213	193	406	
A12	57	83	140	143	130	273	
F9	60	90	150	144	127	271	
F10	70	112	182	164	144	308	
Phase 2 Total	406	636	1042	934	824	1758	
Phase 3 (2040+)							
A7	305	170	475	309	431	740	
A8	314	211	525	371	471	842	
F4	26	59	85	49	36	85	
F5	24	52	76	44	31	75	
F6	23	51	74	42	30	72	
F7	7	15	22	13	9	22	
F11	176	215	391	361	336	697	
F12	119	148	267	262	246	508	
AD1-5	460	191	651	392	595	987	
Phase 3 Total	1454	1112	2566	1843	2185	4028	
Total Person Trips	2682	2909	5591	4432	4449	8881	



Table 8: Projected Site Person Trip Generation by Land Use Type

Dlask	А	AM Peak Hour			PM Peak Hour		
Block	In	Out	Total	In	Out	Total	
Phase 1 (2024-2030)							
Residential			1120			1113	
Retail	368	312	680	878	878	1756	
Office	-	-	-	-	-	-	
Hotel	107	75	182	133	93	226	
Phase 1 Total	822	1161	1983	1655	1440	3095	
Phase 2 (2030-2040)							
Residential			683			676	
Retail	194	165	359	541	541	1082	
Office	-	-	-	1	-	-	
Hotel	-	-	-	ı	-	-	
Phase 2 Total	406	636	1042	934	824	1758	
Phase 3 (2040+)							
Residential			705			698	
Retail	600	513	1113	1287	1287	2574	
Office	636	112	748	151	605	756	
Hotel	-	-	-	-	-	-	
Phase 3 Total	1454	1112	2566	1843	2185	4028	
Total Person Trips	2682	2909	5591	4432	4449	8881	

As shown in Tables 7 and 8, the full build-out of LeBreton Flats is ultimately projected to generate an approximate two-way total of 5,600 and 8,900 person trips per hour during weekday morning and afternoon peak hours, respectively.

It should be noted that a percentage of projected site-generated trips can be attributed to 'pass-by' traffic (i.e., a quick stopover at LeBreton Flats on someone's normal daily commute), which does not impact overall network capacity, as a 'pass-by' trip is traffic already using the adjacent transportation network. Additionally, a percentage of projected site-generated trips could theoretically be further reduced, as a certain percentage of trips will be 'internal' trips (i.e., originate from and be destined to LeBreton Flats, such as individuals who live, work and shop all within LeBreton Flats). A high-level estimate of internal trip capture rate was calculated using the methodology outlined in the *National Cooperative Highway Research Program (NCHRP) Report 684 – Enhancing Internal Trip Capture Estimate for Mixed-Use Developments*. The calculation showed that a person trip reduction for LeBreton Flats due to internal capture could range from 5% to 13% (approximately 260 to 1060 trips in the peak hours).

Given that these potential reductions to projected site-generated trips will largely impact walking/cycling trips (because these are the likely mode choices for internal trips at LeBreton Flats), these reductions were not considered in the subsequent analysis, in order to provide a conservative estimate in this higher-level study. Future TIAs for individual parcels of land should take into account internal trip generation for their site-specific studies.

3.3.3 Travel Mode Shares

In order to determine the number of person trips arriving/departing by travel mode, total projected person trips are subdivided by mode share values, derived from the 2011 TRANS National Capital Region (NCR) Origin-Destination (OD) survey data, the nature/context of the proposed development and local area knowledge. Key factors that are taken into consideration, beyond NCR OD survey data, include: proximity and quality of transit, pedestrian and cycling facilities, purpose of trips, etc.





Based on discussions with City Staff and remaining consistent with assumptions used for TIA studies prepared for other area development sites, such as 900 Albert Street (25-30% driver, 5-10% passenger, 45-55% transit, 15% active), the Zibi development (25-30% driver, 5% passenger, 45-55% transit, 20% active), and Wateridge Village (45-55% driver, 10% passenger, 30-35% transit, 20% active). LeBreton Flats is considered to be a Transit Oriented Development (TOD) site, given its proximity/connectivity to the highest order transit service. The TRANS Trip Generation Manual identifies this area (i.e., in close proximity to Pimisi and Bayview Stations) as up to 70% of trips being sustainable modes. As such, the following summarizes the projected modal split of site-generated traffic for the subject development:

- 15% Auto Driver
- 5% Auto Passenger
- 60% Transit
- 20% Walking and Cycling

Based on the foregoing, the resulting projected vehicle, transit, and active transportation trips generated by the proposed development are summarized in **Table 9**, **Table 10**, and **Table 11**, respectively. It is worth noting that the actual transit mode share will differ by parcel, depending on the distance from the LRT station. However, for simplicity a blended mode share was carried for the entire site.

Table 9: Projected Site Vehicle Trip Generation

Dlack	A	M Peak Ho	ur	Р	PM Peak Hour			
Block	ln	Out	Total	In	Out	Total		
Phase 1 (2024-2030)								
A1	22	33	54	46	41	86		
A2-4 (Major Event Centre)	39	46	84	71	61	132		
A9	12	16	28	28	26	54		
A10	23	31	53	46	42	88		
F1	4	9	13	7	5	12		
F2	4	10	14	8	6	14		
F3	5	11	16	9	7	16		
F8	16	19	35	33	28	61		
Phase 1 Total	125	175	297	248	216	463		
Phase 2 (2030-2040)								
A5	5	12	17	10	7	17		
A6	14	21	34	30	27	58		
A11	14	20	34	32	29	61		
A12	9	12	21	22	20	41		
F9	10	14	23	21	19	40		
F10	11	17	28	25	22	47		
Phase 2 Total	63	96	157	140	124	264		
Phase 3 (2040+)				•				
A7	46	25	72	47	65	111		
A8	47	31	78	56	71	126		
F4	4	9	13	7	5	12		
F5	4	8	12	7	5	12		
F6	3	8	11	6	5	11		
F7	1	2	3	2	1	3		
F11	26	33	59	54	50	104		
F12	18	22	40	39	37	76		
AD1-5	69	29	98	59	89	148		
Phase 3 Total	218	167	386	277	328	603		
Total 'New' Vehicle Trips	406	438	840	665	668	1330		



As shown in Table 9, the full build-out of LeBreton Flats is projected to generate approximate two-way vehicle volumes of 840 veh/h and 1,330 veh/h during weekday morning and afternoon peak hours, respectively.

Table 10: Projected Site Transit Trip Generation

Dlack	A	M Peak Hoι	ır	PM Peak Hour			
Block	ln	Out	Total	ln	Out	Total	
Phase 1 (2024-2030)					•		
A1	86	133	219	184	161	345	
A2-4 (Major Event Centre)	154	187	341	278	253	530	
A9	48	64	111	111	103	214	
A10	88	121	209	187	171	358	
F1	15	34	49	29	21	50	
F2	17	38	55	32	23	55	
F3	19	44	63	37	27	64	
F8	66	75	141	127	118	244	
Phase 1 Total	493	696	1188	985	877	1860	
Phase 2 (2030-2040)							
A5	21	47	68	39	28	67	
A6	54	84	138	123	110	233	
A11	56	80	136	128	116	243	
A12	34	49	83	86	78	164	
F9	36	54	90	87	76	163	
F10	42	67	109	98	86	184	
Phase 2 Total	243	381	624	561	494	1054	
Phase 3 (2040+)							
A7	183	102	285	186	259	445	
A8	188	126	315	222	283	505	
F4	16	35	51	29	22	51	
F5	14	31	45	26	19	45	
F6	14	31	45	25	18	43	
F7	4	9	13	8	5	13	
F11	105	129	234	217	202	419	
F12	72	88	160	158	148	305	
AD1-5	276	115	391	235	357	592	
Phase 3 Total	872	666	1539	1106	1313	2418	
Total 'New' Transit Trips	1608	1743	3351	2652	2684	5332	

As shown in Table 10, the full build-out of LeBreton Flats is projected to generate approximate two-way transit trip volumes of 3,350 trips/h and 5,330 trips/h during weekday morning and afternoon peak hours, respectively.



Table 11: Projected Site Active Trip Generation

Dis. II	Α	M Peak Hοι	ır	Р	PM Peak Hour			
Block	In	Out	Total	In	Out	Total		
Phase 1 (2024-2030)								
A1	30	45	75	62	55	117		
A2-4 (Major Event Centre)	53	62	115	92	85	177		
A9	17	22	39	38	35	73		
A10	31	42	73	62	56	118		
F1	6	12	18	10	7	17		
F2	6	14	20	11	8	19		
F3	7	15	22	13	10	23		
F8	22	25	47	43	39	82		
Phase 1 Total	172	237	409	331	295	626		
Phase 2 (2030-2040)								
A5	7	16	23	14	10	24		
A6	19	29	48	41	37	78		
A11	19	27	46	43	39	82		
A12	13	16	29	30	27	57		
F9	14	19	33	28	25	53		
F10	15	23	38	34	30	64		
Phase 2 Total	87	130	217	190	168	358		
Phase 3 (2040+)								
A7	62	34	96	63	87	150		
A8	63	41	104	76	96	172		
F4	6	12	18	10	7	17		
F5	6	11	17	10	7	17		
F6	5	11	16	9	7	16		
F7	2	3	5	3	2	5		
F11	35	45	80	73	68	141		
F12	24	30	54	53	50	103		
AD1-5	92	39	131	78	118	196		
Phase 3 Total	295	226	521	375	442	817		
Total 'New' Active Trips	554	593	1147	896	905	1801		

As shown in Table 11, the full build-out of LeBreton Flats is projected to generate approximate two-way active trip volumes of 1,150 trips/h and 1,800 trips/h during weekday morning and afternoon peak hours, respectively.

It should be noted that given most transit trips begin or end as an active mode, it can be expected that approximately 4,500 trips/h and 7,130 trips/h will be made to/from/within LeBreton Flats as an active mode during weekday morning and afternoon peak hours, respectively. Given this relatively high projected volume of site-generated trips made by active modes, special consideration should be given to sidewalk/pathway capacity during design. Additional discussion on proposed roadway cross sections is provided in the subsequent section.





3.3.4 Trip Distribution and Assignment

The projected distribution of site-generated vehicular traffic was derived based on existing travel patterns, the site's connections to/from the surrounding road network, and local area knowledge. (e.g., the location and proximity of other employment areas, residential communities, entertainment, etc.). For analysis purposes, the following approximate distribution of projected site-generated traffic was assumed, which is consistent with data from the most recent 2011 TRANS Origin-Destination (OD) travel survey (i.e., "existing travel patterns"), consistent with the assumptions used for TIA studies prepared for other area development sites (e.g., Zibi, 900 Albert, etc.), and has been agreed to with the City of Ottawa for use in this study.

Departure

- 60% to the east via Wellington Street and Albert Street
- 15% to the west via KZM and Albert Street
- 5% to the north via Chaudière Crossing and Portage Bridge
- 20% to the south via Booth Street, Preston Street, Parkdale Avenue and Lyon Street.

Arrival

- 40% from the east via Wellington Street and Albert Street
- 15% from the west via KZM and Albert Street
- 10% from the north via Chaudière Crossing and Portage Bridge
- 35% from the south via Booth Street, Preston Street, Parkdale Avenue and Bay Street.

Based on the above assumed distribution, projected site-generated traffic was assigned to the study area network, which is depicted as the following **Figure 12** to **Figure 15**. Site traffic was assigned individually according to each development parcel; this was done to account for the unique situation for parcels north of the Confederation Line (i.e., Flats District), where the turning restrictions at Booth Street make access to these parcels difficult.

It should be noted that given size of the study area network and the number of study area intersections, each phase of site-generated traffic is subsequently depicted as two separate figures. The first figure for each phase depicts the assignment of site-generated traffic to the greater study area network, and the second figure for each phase depicts the assignment of site-generated traffic to site driveway connections and the immediate road network surrounding the subject development lands.





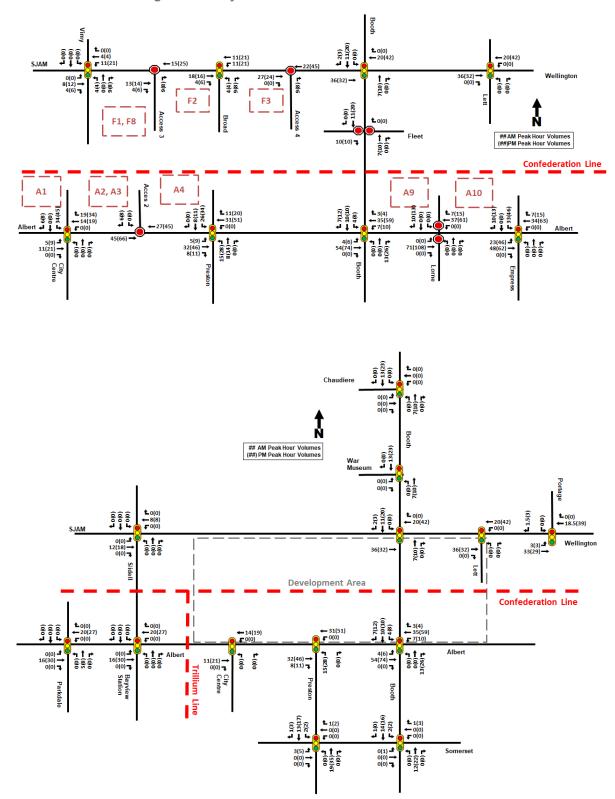


Figure 12: Projected Site-Generated Traffic - Phase 1

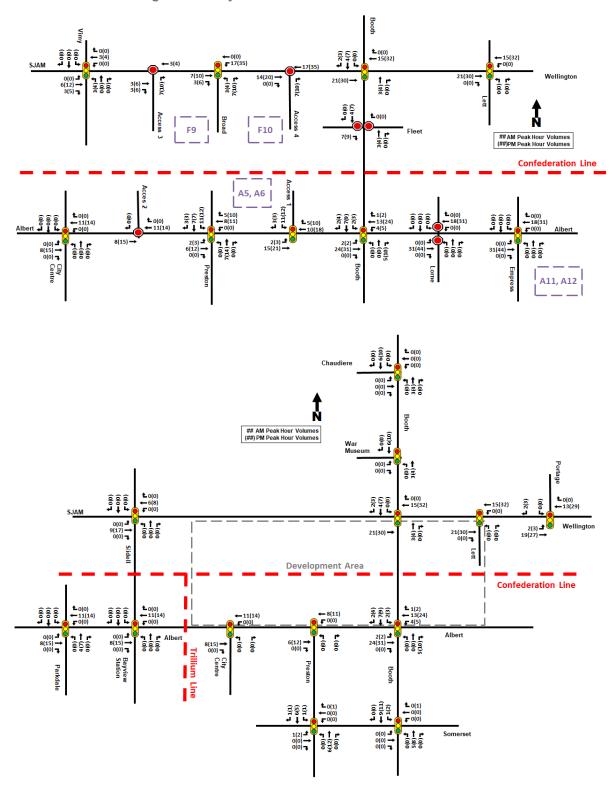


Figure 13: Projected Site-Generated Traffic - Phase 2

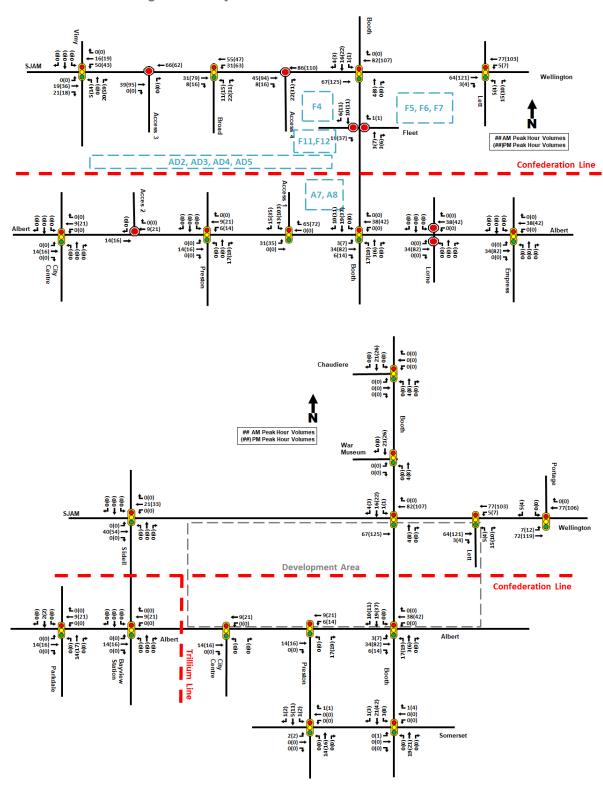


Figure 14: Projected Site-Generated Traffic - Phase 3

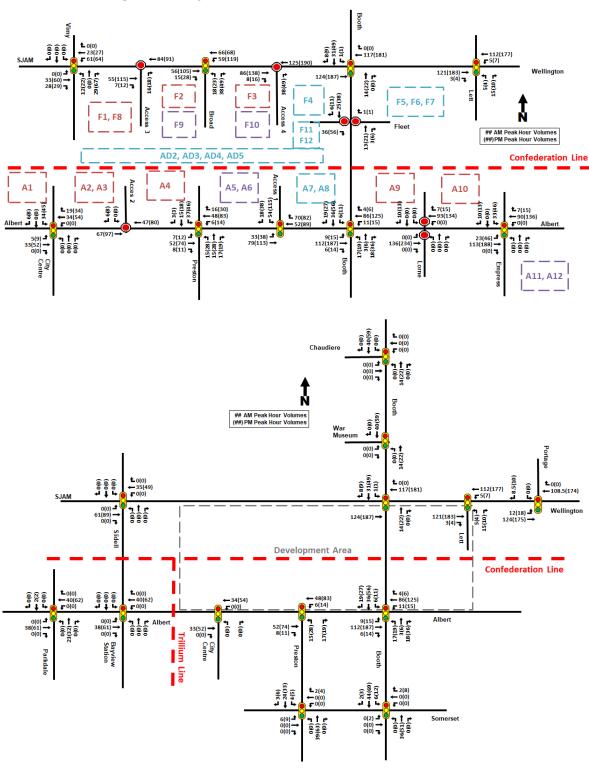


Figure 15: Projected Site-Generated Traffic - Full Build-Out

3.4 Exemptions Review

Given the size and nature of the proposed development lands, and following discussion with City Staff, the following TIA analysis modules are recommended to be exempted from this TIA analysis: Modules 4.1.2, 4.2, and 4.4. It is our understanding that the City will request that these modules be included in future development applications for individual parcels of land. The following **Table 12** summarizes the modules that were considered for exemption.

Table 12: Module Exemption Review

Module	Element	Exemption Criteria	Exemption Status
Design Review			
4.1 Development	4.1.2 Circulation and Access	Required for Site Plans	Exempt
Design	4.1.3 New Street Networks	Required for Plans of Subdivision	Not Exempt
4.2 Parking	4.2.1 Parking Supply	Required for Site Plans	Exempt
4.2 Faiking	4.2.2 Spillover Parking	Eliminated in 2023 TIA Update	N/A
4.4 Access Intersections	4.4.1 Location and Design of Access 4.4.2 Intersection Control 4.4.3 Intersection Design	Combined with 4.9 in 2023 TIA Update	N/A
Network Impact			
4.5 Transportation Demand Management	All Elements	Not required for non-residential Site Plans expected to have fewer than 60 employees and/or students on location at any given time	Not Exempt
4.6 Neighbourhood Traffic Calming	All Elements	Required when the development relies on local or collector streets for access and total volumes exceed ATM capacity thresholds	Not Exempt
4.8 Network Concept	All Elements	Required when development is projected to generate more than 200 person-trips during the peak hour, in excess of the equivalent volume permitted by the established zoning	Not Exempt



4. STEP 3 – ANALYSIS

4.1 Background Network Travel Demands

4.1.1 Transportation Network Plans

As previously mentioned in Section 3.1.3, the current transit-only lanes along Albert Street will be decommissioned and returned to general traffic use and/or active modes, as part of various projects between Holland Avenue in the west and Mackenzie King Bridge in the east. The roadway cross-section from Holland Avenue to Bayview Station Road will have a single through lane in each direction, while the cross-section from City Centre Avenue to Empress Avenue will have two through lanes in each direction.

As part of the Zibi development, the vehicular capacity of the Booth-Eddy Street corridor has been reduced and has been rededicated to cycling/pedestrian facilities. This has resulted in a single vehicular travel lane in each direction across the Chaudière Crossing.

As part of the LeBreton Flats Plan of Subdivision, it is proposed that a bridge dedicated to serving pedestrians and cyclists only be extended over the Confederation Line in the Preston Street corridor between Albert Street and KZM/Wellington Street. Although this link currently does not exist, it has been identified in the City's current and previous Transportation Master Plans as a new arterial roadway link to serve all travel modes.

As noted in Section 3.1.3, the City of Gatineau has released plans for a tramway connecting the growing area of Aylmer to downtown Ottawa, via the Portage Bridge. The closest the West Gatineau Tramway would be to LeBreton Flats is at the intersection of Wellington/Portage Bridge, which is approximately 270m from the northeast corner of the development site. Although there are currently no projections for OC Transpo and STO ridership changes, it can be expected that there may be fewer trips on bus routes crossing into Gatineau on Booth Street, such as OC Transpo Route 85.

These future transportation network plans have been included/assumed in the subsequent analysis, with the exception of a new interprovincial bridge between Ottawa and Gatineau with three potential corridors identified east of downtown. Further studies have been authorized for the Kettle Island corridor as of June 2024.

4.1.2 Background Growth and Traffic Volume Balancing

Due to certain data gaps (i.e., not every study area intersection was counted during the same year), a volume balancing exercise was conducted, which resulted in the following modifications to peak hour vehicular volumes at study area intersections (note, the following negative values indicate veh/h that were removed, and positive values indicate veh/h that were added):

- Booth/War Museum⁴: SB [-850(AM), -930(PM)]
- Booth/Wellington: SB [-120(AM), -70(PM)], WB [-50(PM)]
- Albert/Preston: EB [-110(AM), -50(PM)], WB [-50 (AM), -100 (PM)]
- Albert/City Centre: EB [-120(AM)]
- KZM/Slidell: WB [-50(AM), -120(PM)]

⁴ It is noted that the turning movement count at Booth Street / War Museum on July 18, 2013, was flagged as an anomaly in the Zibi development 2014 TIS. Because of this, the Booth Street corridor was balanced according to the counts at its intersections with Wellington Street and Albert Street. The discrepancy between Booth Street / Wellington Street and Booth Street / War Museum was fully addressed in the adjustments at the Booth Street / War Museum intersection







Wellington/Vimy: EB [+20(AM)]; WB [-90(PM)]

Wellington/Lett: EB [+180(AM)]; WB [-130(AM), -50(PM)]

Wellington/Portage: EB [-140 (AM), -240(PM)]

Booth/Somerset: NB [+130 (PM)]

Based on the foregoing volume balancing assumptions, **Figure 16** on the following page depicts the resulting baseline existing conditions.

As previously mentioned in **Section 3.1.2**, Ottawa's downtown arterial network is generally accepted to operate at capacity during peak hours; additionally, the City's TMP notes that the number of cars arriving downtown in the morning peak period has been decreasing since 1986. Therefore, background traffic volumes have exhibited negligible growth, and it can be argued that they are trending downwards.

In addition to negligible background traffic growth, study area roadways have been impacted by the extended LRT related construction which have prompted some travelers to forego tips altogether, make different mode choices, take different travel routes, or change trip times to avoid increased congestion brought by detours. Therefore, and as agreed to by City Staff, historical traffic count data from the year 2014 (where available) was used for analysis purposes, with more recent counts used where available, and zero background growth (i.e., background growth rate of 0%) was applied.

4.1.3 Current and Anticipated Area Developments

Using the City's online Development Application Tool, planned developments including 900 Albert, East Flats and Zibi were identified to have impacts on the study area. As such, the projected site-generated traffic from these developments was included in the subsequent analysis. Excerpts from the TIA study reports for 900 Albert, LeBreton East Flats and Zibi are included as **Appendix D**, depicting projected site-generated traffic for these developments. Trips generated by these developments were carried through all study area intersections for this report, regardless of where the study area terminated for each individual development.

Given that the TIA studies prepared for the identified area developments did not include some of the intersections located within the LeBreton study area, projected site-generated traffic from such area developments was appropriately distributed/assigned throughout the LeBreton study area as described in Step 2 - Scoping. The resulting assignment of projected site-generated traffic from other area developments is depicted in **Figure 17**, while **Figure 18** depicts the total background traffic volumes for this analysis, including existing conditions, background growth (0%) and traffic volumes from other area developments.





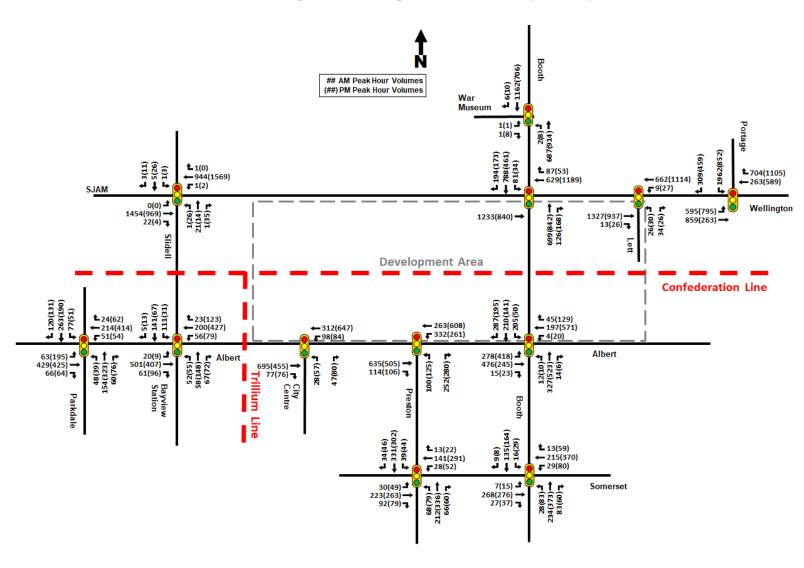


Figure 16: Existing Volumes, AM Peak (PM Peak)

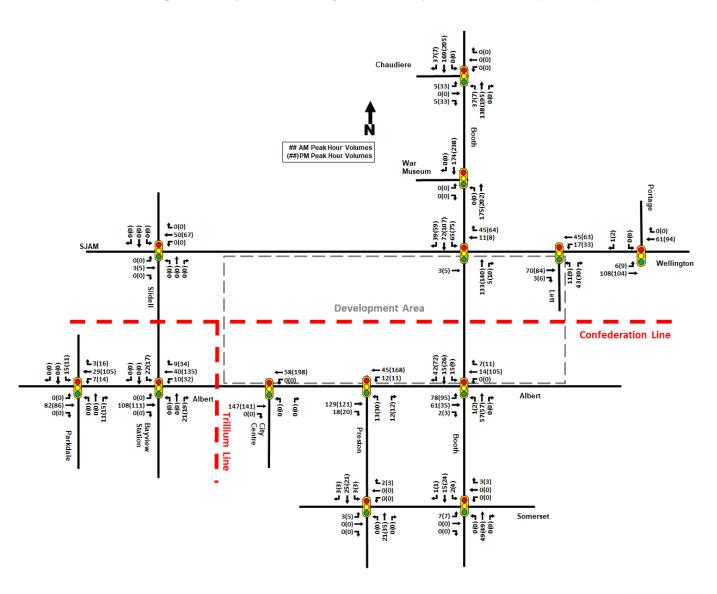


Figure 17: Trips Generated by Area Developments, AM Peak (PM Peak)

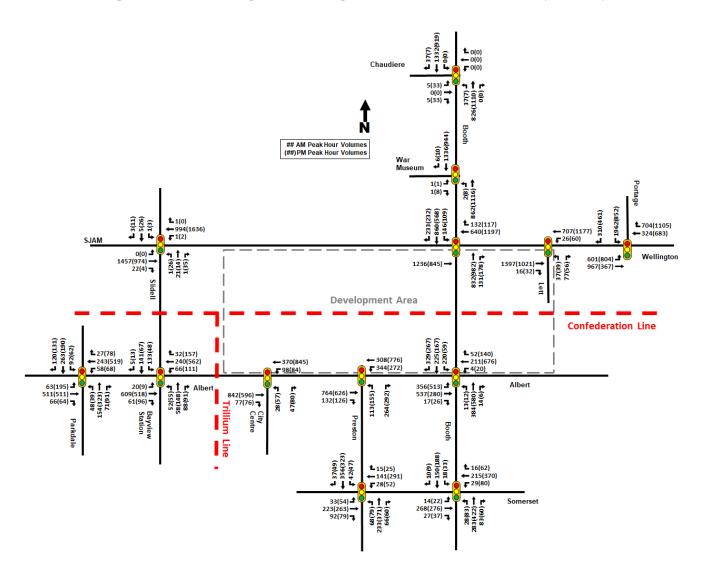


Figure 18: Future Background Turning Movement Volumes, AM Peak (PM Peak)

4.2 Demand Rationalization

The following section summarizes the study area intersection capacity analysis for Existing, Future Background and Future Total Volume scenarios. For analysis purposes, the Existing Conditions scenario is considered to be 2024, the Future Background scenario is considered to be 2030 and the Future Total Volume scenario is 2030 for Phase 1, 2040 for Phase 2 and 2050 for Phase 3.

Using the intersection capacity analysis software Synchro (v11), study area intersections were assessed in terms of vehicle delay, volume-to-capacity ratio (v/c) and the corresponding Level of Service (LOS). It should be noted that the overall performance of a signalized intersection is calculated as a weighted v/c ratio and assigned a corresponding LOS, with critical movements assigned a LOS based on their respective v/c ratio. The overall performance of an unsignalized intersection is a LOS output from Synchro, which is based on an Intersection Capacity Utilization (ICU) method, and critical movements are assigned a LOS based on delay. **Table 13** shows the vehicular level of service that corresponds to each v/c ratio.

Level of Service	Volume to Capacity Ratio
A	0 to 0.60
В	0.61 to 0.70
С	0.71 to 0.80
D	0.81 to 0.90
E	0.91 to 1.00
F	> 1.00

Table 13: Level of Service vs. V/C Ratio

Given the number of study area intersections, the general proximity between intersections/driveways within the study area, the level of existing network saturation, and the level of variability with respect to developing a Plan of Subdivision for a large area such as LeBreton Flats, estimated 95th percentile queues at study area intersections were not explicitly assessed as part of this TIA study report. For the purpose of this assessment, study area intersections with a LOS at, or over capacity (i.e., LOS 'E' or 'F') and long delays (i.e., delays greater than 35s), it is reasonable to conclude that 95th percentile queues are also problematic (e.g. problematic queues spill back and block driveways and/or adjacent intersections, extend beyond provided turn lane storage, etc.) and therefore, provide limited to no additional value for analysis/decision purposes.

The City of Ottawa follows a Multi-Modal Level of Service (MMLOS) policy, which evaluates all modes of transportation, including pedestrians, cyclists, transit, and vehicles. The MMLOS analysis allows for trade-offs between the different modes of transportation, prioritizing different modes depending on the location within the City. The City's MMLOS Guidelines define the LOS targets for each mode of transportation based on the Official Plan Designation / Policy Area, and are presented in **Table 14**.

Table 14: Minimum Desirable MMLOS Targets by Official Plan Policy/Designation

OP Designation /	Ped Bike LOS			Transit I	Auto	
Policy Area	LOS	Cross-Town	Elsewhere	TP – Isolated Measures	Mixed Traffic	LOS
within 600m of Rapid Transit Station	Α	А	В	D	Е	Е
Downtown Core Transect	Α	А	В	D	E	E



Stantec

Due to the central location of the study area, all roadways and intersections within the study area have a Pedestrian LOS (PLOS) target of LOS 'A', and an Auto LOS target of LOS 'E', indicating the focus on pedestrians. Any streets with cross-town bikeways (Albert St., Scott St., Wellington St. east of Portage Bridge) have a Bike LOS (BLOS) target of LOS 'A', while other streets have BLOS targets of LOS 'B'. There are no plans for transit priority above and beyond isolated measures on Somerset St., therefore the Transit LOS (TLOS) target is LOS 'D' for Somerset St. and LOS 'E' for all other locations where transit operates in mixed traffic.

4.2.1 Existing and Future Background Conditions

Based on existing volumes depicted in Figure 16 and existing signal timing plans provided by the City, the following **Table 15** summarizes the existing performance of study area intersections. Detailed Synchro output data for Existing and Future Background Conditions will be provided separately to City staff.

Table 4E. Childre	A	1 4 4	O	Escientia ec	Canditiana
Table 15: Study	Area	intersection	Operations	- Existing	Conditions

		Overall		Critical Movement				
Intersections	Delay (s)	v/c Ratio	v/c LOS	Mvmt	Delay (s)	v/c Ratio	v/c LOS	
Booth & Chaudière	2 (1)	0.68 (0.54)	B (A)	SBTR	3 (1)	0.68 (0.42)	B (A)	
Booth & War Museum	4 (5)	0.40 (0.31)	A (A)	SBTR	6 (5)	0.40 (0.25)	A (A)	
Booth & Wellington	32 (30)	0.86 (0.83)	D (D)	EBT	34 (28)	0.90 (0.62)	D (B)	
Booth & Albert	30 (34)	0.59 (0.70)	A (B)	EBL	21 (30)	0.55 (0.87)	A (D)	
Albert & Empress	3 (4)	0.25 (0.33)	A (A)	WBLT	2 (2)	0.13 (0.33)	A (A)	
Albert & Preston	17 (13)	0.66 (0.53)	B (A)	NBR	15 (14)	0.67 (0.67)	B (B)	
Albert & City Centre	7 (7)	0.45 (0.48)	A (A)	EBT	7 (5)	0.50 (0.34)	A (A)	
Albert/Scott & Bayview	16 (16)	0.45 (0.41)	A (A)	EBTR	6 (17)	0.49 (0.44)	A (A)	
Scott & Parkdale	21 (26)	0.55 (0.64)	A (B)	WBT	14 (26)	0.26 (0.58)	A (A)	
KZM & Slidell	3 (7)	0.50 (0.65)	A (B)	WBT	3 (8)	0.34 (0.65)	A (B)	
Wellington/KZM & Vimy	2 (3)	0.46 (0.51)	A (A)	WBT	2 (4)	0.30 (0.52)	A (A)	
Wellington & Lett	15 (4)	0.52 (0.41)	A (A)	EBTR	20 (2)	0.54 (0.36)	A (A)	
Wellington & Portage	111 (39)	1.21 (0.84)	F (D)	SBL	230 (53)	1.44 (0.88)	F (D)	
Somerset & Booth	20 (22)	0.50 (0.64)	A (B)	NBLTR	36 (30)	0.77 (0.82)	C (D)	
Somerset & Preston	30 (28)	0.63 (0.65)	B (B)	NBTR	32 (43)	0.63 (0.85)	B (D)	

As shown in Table 15, the intersection of Wellington Street at Portage Bridge is operating over capacity in the weekday morning peak hour, with a LOS 'F'. This is mainly driven by the southbound left turn volume, which has a v/c ratio of 1.44. It should be noted that the southbound left turn has three lanes, one of which is a bus/taxi/HOV lane. However, since HOV vehicle data was not available at this intersection, the southbound left turn approach was modelled with only two lanes, therefore this analysis can be considered conservative. This assumption will be carried forward to future analyses as well, and it should be noted that there will be only two vehicular lanes with the West Gatineau Tramway in the future. All other movements at this intersection operate with acceptable LOS. There is minimal





opportunity for improvement in LOS for the southbound left turn movement, as reassigning green time from other conflicting movements is not possible as it either violates the minimum green time (i.e., pedestrian crossing time) or it results in further deterioration in overall intersection operations. When the future West Gatineau Tramway is in place across the Portage Bridge it may encourage a shift in mode of transportation to transit, reducing the volume of vehicles crossing the bridge from Gatineau and improving the LOS of the intersection.

The only other notable intersection for Existing Conditions is Booth Street at Wellington Street, which operates with a LOS 'D' in both peak hours, with the heaviest movements being eastbound in the morning peak hour and westbound in the afternoon peak hour.

The following **Table 16** summarizes the projected study area intersection performance based on Future Background volumes, assuming no significant changes to existing signal timing plans (i.e., slight tweaks to optimize phases, but not cycle lengths). One exception is in the Albert Street corridor, where signal timing had to be adjusted to provide fully protected left and right turn phases depending on volumes, as required by the City of Ottawa's Protected Intersection Design Guidelines (PIDG). Future Background volumes were derived by summing together existing traffic volumes and projected sitegenerated traffic from the other area developments (i.e., summing volumes together from Figure 16 and Figure 17, resulting in Figure 18). Given an annual background traffic growth rate was assumed to be zero and assuming other area development will be fully built-out by the year 2030, Table 16 summarizes the study area intersection performance for all the Future Background scenarios.

Table 16: Study Area Intersection Operations – Future Background Conditions

to to make the make		Overall		Critical Movement				
Intersections	Delay (s)	v/c Ratio	v/c LOS	Mvmt	Delay (s)	v/c Ratio	v/c LOS	
Booth & Chaudière	9 (11)	0.83 (0.77)	D (C)	NBTR	4 (14)	0.51 (0.79)	A (C)	
Booth & War Museum	7 (8)	0.65 (0.54)	B (A)	SBTR	11 (8)	0.65 (0.46)	B (A)	
Booth & Wellington	46 (32)	0.93 (0.93)	E (E)	NBTR	<mark>89</mark> (36)	0.98 (1.00)	E (E)	
Booth & Albert	79 (<mark>93</mark>)	0.93 (1.08)	E(F)	EBL	81 (188)	0.99 (1.33)	E (F)	
Albert & Empress	2 (5)	0.31 (0.35)	A (A)	EBTR	2 (8)	0.32 (0.21)	A (A)	
Albert & Preston	35 (24)	0.70 (0.62)	B (B)	WBL	45 (21)	0.80 (0.54)	C (A)	
Albert & City Centre	15 (14)	0.46 (0.40)	A (A)	EBTR	14 (13)	0.46 (0.35)	A (A)	
Albert/Scott & Bayview	18 (16)	0.48 (0.48)	A (A)	EBTR	11 (15)	0.59 (0.54)	A (A)	
Scott & Parkdale	26 (35)	0.65 (0.80)	B (C)	WBT	24 (49)	0.40 (0.91)	A (E)	
KZM & Slidell	3 (7)	0.50 (0.68)	A (B)	WBT	3 (8)	0.36 (0.68)	A (B)	
Wellington/KZM & Vimy	2 (3)	0.46 (0.54)	A (A)	WBT	2 (4)	0.32 (0.55)	A (A)	
Wellington & Lett	16 (5)	0.55 (0.43)	A (A)	EBTR	20 (2)	0.57 (0.40)	A (A)	
Wellington & Portage	109 (40)	1.21 (0.87)	F (D)	SBL	232 (53)	1.45 (0.88)	F (D)	
Somerset & Booth	21 (25)	0.54 (0.69)	A (B)	NBLTR	36 (39)	0.80 (0.89)	C (D)	
Somerset & Preston	33 (29)	0.68 (0.69)	B (B)	NBTR	35 (46)	0.72 (0.88)	C (D)	



As expected, delays and v/c ratios increase within the study area due to an increase in future background traffic. The intersection of Wellington Street at Portage Bridge, which was over capacity in the morning peak hour for Existing Conditions, continues to be over capacity in the Future Background Conditions.

The current implementation of protected intersections and cycle tracks on Scott Street and Albert Street, along with the decommissioning of bus-only lanes into general traffic lanes will have an impact on traffic operations at many intersections:

- The westbound through movement at the intersection of Scott Street and Parkdale Avenue is approaching capacity in the PM peak hour, as the eastbound left turn movement is fully protected due to the westbound crossride. This results in less green time for the westbound through movement. It is possible to optimize the signal timing at this intersection to improve the westbound through at the expense of the northbound through, however that optimization has not been undertaken here.
- Despite having two eastbound and two westbound through lanes, the intersection of Albert Street and City Centre Avenue will have slightly worse operations in Future Background, as the fully protected westbound left turn phasing reduces the amount of green time available for the rest of the intersection. Additionally, the consolidation of the northbound approach into a single lane increases delays on this approach.
- The intersection of Albert Street and Preston Street will have increased delay, as the
 westbound left turn movement has to be fully protected due to the eastbound crossride. In
 addition, the northbound right turn movement can be on an overlap phase with the westbound
 left turn, with No Right Turn on Red (RTOR) restrictions in place, as per the PIDG.
- There will be a significant impact to traffic operations at Booth Street and Albert Street, as the protected intersection requires the eastbound left turn and southbound left turn be fully protected, and the southbound right turn to operate on an overlap phase with the eastbound left turn and No RTOR. The result will be long delays, and v/c ratios over 1.0 in the PM peak hour and over 0.90 in the AM peak hour. The eastbound left turn operates poorly in both peak hours, as does the southbound left and right turns in the AM peak hour. Other over or approaching capacity movements at this intersection include northbound through/right movement in both peak hours. Mitigation measures are explored on subsequent pages.

Potential Mitigation Measures

Notwithstanding the exemplary existing and planned measures to accommodate and promote active/sustainable modes of transportation within the study area, the following are potential measures to improve the performance of study area intersections operating at, or over capacity from a vehicular operations perspective only. In some cases, these potential mitigation measures may contradict with policy direction, decisions or investments in infrastructure, and should not be considered requirements as conditions of development approval unless otherwise stipulated by the City. Therefore, mitigation measures have been separated into two groups – a primary group of preferred measures that supports the City's TMP by improving conditions for all modes of transportations, and a secondary group of alternatives that improves operating conditions for vehicles only, with potential negative impacts on other modes of transportation.

It should be noted that although the network modifications listed below are all technically possible, they may not be feasible due to physical/economical constraints and/or they may not satisfy or support policy/political/planning objectives. Therefore, the possible measures to improve the performance of study area intersections are only provided for information/decision making purposes only. If any of





these possible measures are deemed to be desirable, further analysis may be required to support their justification.

Group A – Preferred Mitigation Measures

The following mitigation measures are the most preferred due to their prioritization for all modes of transportation, not just motorized modes. Further improvements to vehicular LOS may be observed as trips are shifted to alternative modes of transportation or alternative corridors as major projects within the National Capital Region are completed.

Transit Projects

- When the future West Gatineau Tramway is in place across the Portage Bridge in 2028, trips
 across the Portage Bridge may be shifted away from the vehicular mode and towards the transit
 mode. It is recommended that the City monitor traffic volumes at the intersection of Wellington
 Street and Portage Bridge and respond to a reduction in vehicular traffic accordingly.
- Confederation Line Stage 2 LRT (with improved reliability extension drawing additional trips when open in 2027).

Active Mobility Projects

- Improvements to cycling facilities throughout LeBreton Flats and along Albert Street into downtown (mode shift to cycling).
- The Chief William Commanda multi-use pathway interprovincial bridge (as the mitigation measures are based on older traffic count data, there may be mode shifts to cycling and walking since the construction of new infrastructure).
- These measures would improve operations at most intersections in the study area, with a specific benefit to Booth Street at Albert Street, Albert Street at Preston Street and Parkdale Avenue at Scott Street.

Group B – Alternative Mitigation Measures

The following mitigation measures are less preferred due to their prioritization for vehicular modes only, and not benefitting active transportation and transit modes.

Ottawa River Sixth Crossing

 The NCC recently completed a Long-Term Integrated Crossings Plan; a potential future additional crossing of the Ottawa River may result in a vehicular shift to alternative corridors; however, the decision rests with the Government of Canada to implement a Sixth Crossing.

Wellington Street at Portage Bridge

 Re-designate southbound through and westbound through HOV lanes for general purpose traffic. This would prioritize single occupancy vehicles over high occupancy vehicles, including buses and carpool vehicles, running contrary to the City's stated goals for reducing vehicular traffic.

Booth Street at Albert Street

Redesign the proposed Albert Street plans to accommodate dual eastbound left-turn lanes at Booth Street by converting an eastbound through lane to an eastbound left turn lane. The updated signal timing for the protected intersection already requires the eastbound left turn be a fully protected movement, which is consistent with what would be required if it were a double



eastbound left turn. **Table 17** outlines the intersection operations of Booth Street at Albert Street with a single eastbound left and with a double eastbound left.

Scenario	Mvmt	Volume (vph)	Delay (s)	v/c Ratio	v/c LOS	95th Queue (m)
	EBL	355 (515)	81 (188)	0.99 (1.33)	E (F)	#159 (#248)
Single EBL	EBTR	535 (280)	8 (16)	0.34 (0.18)	A (A)	26 (37)
	Overall	-	79 (93)	0.93 (1.08)	E (F)	-
	EBL	355 (515)	39 (36)	0.51 (0.77)	A (C)	45 (82)
Double EBL	EBTR	535 (280)	15 (20)	0.67 (0.35)	B (A)	161 (88)
	Overall	-	65 (58)	0.87 (0.90)	D (D)	-

- It is clear that the implementation of a double eastbound left would provide a significant improvement on eastbound left turn operations, which comes with the tradeoff of worse eastbound through operations.
- The overall intersection with a double eastbound left turn operates better both peak hours, with significant improvement to the operations of the eastbound approach. There remain issues in the northbound and southbound directions that exist in both scenarios (i.e., single EBL and double EBL). Given this, it is recommended that a double eastbound left turn lane be provided in the Albert Street proposed design. It should be noted that this analysis is based on turning movement counts from January 2024, reflecting the most up to date traffic information possible.

4.2.2 Total Projected Conditions

The following section summarizes the study area intersection capacity analysis for total projected volume scenarios for the 2030, 2040 and 2050 horizon years. Total projected volumes depicted in Figure 19, Figure 20 and Figure 21 were derived by superimposing LeBreton Flats site-generated traffic volumes onto projected background traffic volumes. It should be noted that given the size of the study area network and the number of study area intersections, each horizon year is subsequently depicted as two separate figures. The first figure for each horizon year depicts the total projected traffic volumes for site driveway connections / immediate road network surrounding the subject development lands and the second figure depicts the total projected traffic volumes for the greater study area network.



1.15(22) ←0(0) ₹2(5) **1** 41(7) ← 888(1526) **1** 11(21) **1**32(117) ← 660(1239) ←727(1219) **₽**26(60) 1433(1053) → 16(32) → Wellington 37(39) **4** 77(56) **4** 1272(877) -F2 F3 **1**0(0) F1, F8 £12(10) 862(1220) → 17(23) → ## AM Peak Hour Volumes (##)PM Peak Hour Volumes 10(10) **Confederation Line** A2, A3 Α1 A10 t 6(9) 1 0(0) 1 43(48) **1**11(20) ← 339(827) **ょ**344(272) **1** 55(144) ← 246(735) **1** 11(30) 360(519) **→**591(354) **→**17(26) **¬** 5(9) **→**796(672) **→**140(137) **→** 128(183) 4 8(14) → 264(292) 7 13(12) **4** 384(580) **→** 27(32) **→** # † r City Centre **L** 37(7) ← 1345(942) **F** 0(0) Chaudiere 5(33) 1 0(0) 1 5(33) 1 ## AM Peak Hour Volumes (##)PM Peak Hour Volumes 1(1) **1** ←727(1219) TE **t** 3(11) **t** 5(26) **t** 1(3) 132(117) ← 660(1239) 1272(877) -Lett **Development Area** Confederation Line **t** 5(13) **←** 141(67) **₹** 133(48) **1** 55(144) ← 246(735) **1** 1(30) **£**27(78) £32(157) **-384(864)** 853(617) → 77(76) ¬ 63(195) **→**527(541) **→**66(64) **→** 360(519) **4** 591(354) **4** 17(26) **7** Albert Bayview Station Parkdale Line **1** 11(9) ← 164(204) **7** 20(35) **t** 38(52) **←** 369(340) **t** 44(49) **1** 17(65) ← 215(370) **1** 29(80) **1**16(27) ← 141(291) **1**28(52) 36(59) **4** 223(263) **–** 92(79) **7** 14(23) **→**268(276) **→**27(37) **→**

Figure 19: Total Projected Traffic Volumes – 2030 (Phase One),

AM Peak (PM Peak)



←742(1251) **₽**26(60) Wellington **1**2(10) F9 F10 ## AM Peak Hour Volumes (##)PM Peak Hour Volumes **Confederation Line** A5, A6 | **1** 338(283) **4** 242(186) **5** 226(70) **₽**11(12) **t** 3(3) ←15(18) **t** 37(46) **1**7(15) ← 306(910) **-**5(11) 6(10) → 861(632) → 77(76) → City 7(12) → 802(684) → 140(137) → 2(3) **-**947(897) → 362(521) **→**615(385) **→**17(26) **→** 13(12) **1** 384(580) **→** 32(42) **7** A11, A12 **t** 37(7) ← 1351(952) **t** 0(0) ## AM Peak Hour Volumes (##)PM Peak Hour Volumes 1(1) **1** ←742(1251) EE ←742(1251) E ←742(1251) E ←742(1251) E ↑ 3(11) ↑ 5(26) **↑** 1(3) **1**(0) ← 1008(1652) **1**(2) **1** 704(1105) ← 355.5(751) 1(26) \$\frac{21(14)}{1(35)}\$\d 1293(907) Development Area **Confederation Line t** 5(13) **t** 141(67) **t** 133(48) ← 347(838) **F** 344(272) 861(632) → 177(76) 7 C C C C C Parkdale **t** 11(9) ← 173(215) **t** 21(37)

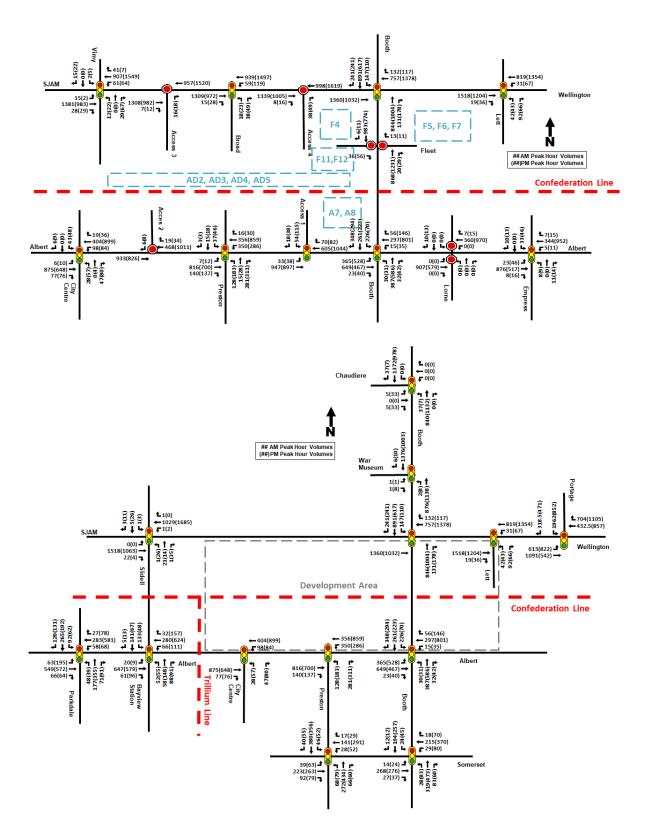
Figure 20: Total Projected Traffic Volumes – 2040 (Phase One & Two),

AM Peak (PM Peak)



Figure 21: Total Projected Traffic Volumes – 2050 (Phase One, Two & Three),

AM Peak (PM Peak)



Similar to existing baseline and background conditions, total projected conditions were assessed using the intersection capacity analysis software Synchro (v11) and using the same metrics such as v/c and delay. The following network modifications were included in the analysis (i.e., existing signal timing plans were not modified, unless otherwise specified below) for the three horizon scenarios, based on the changes to the road network shown in the Plan of Subdivision:

Network Modifications from Plan of Subdivision

Preston Street at Albert Street

• Modified to include eastbound left-turn lane with 30m of storage and southbound left turn lane with 15m of storage.

Albert Street at Lorne Avenue

 Modified to include north leg with stop control on the minor approach, permitting right-in/rightout movements only.

Albert Street at Empress Avenue

 Modified to include north leg and eastbound left-turn lane, actuated-coordinated signal control with a 120s signal cycle.

Booth Street at Fleet Street

 Modified to include west leg with stop control on the minor approach, permitting right-in/rightout movements only.

Wellington Street at Broad Street

 Modified existing traffic signal which currently serves major pedestrian pathway to Canadian War Museum (east of Vimy Place, west of Booth Street) to include a south leg, actuatedcoordinated signal control with a 95s AM, 120s PM signal cycles and a fully protected westbound left-turn phase.

New Intersections from Plan of Subdivision

Albert Street at Access 1

- Actuated-coordinated signal control with a 120s signal cycle during AM and PM peaks.
- It is noted that this proposed signal is located approximately 150m away from both the Albert Street / Booth Street traffic signal and the Albert Street / Preston Street traffic signal. Ideally signalized crossings and/or intersections would be located further apart, however the location of this signal is shown in the *City of Ottawa's Official Plan Schedule P Pimisi Station and LeBreton Flats District Mobility Network*. The location of this signal helps to prioritize active modes by enabling pedestrians and cyclists to cross Albert Street (in particular, to reach Pimisi O-Train Station) without travelling ~300m upstream or downstream to adjacent signals, as well as distribute vehicular trips to/from the development across numerous intersections. There is precedence elsewhere in the City in urbanized areas for traffic signals to be spaced closer than 150m apart (e.g., Elgin Street, Bank Street, Somerset Street, etc.).

Albert Street at Access 2

• Right-in/right-out with stop control on the minor approach only.

Wellington Street at Access 3

• Right-in/right-out with stop control on the minor approach only.

Wellington Street at Access 4

Right-in/right-out with stop control on the minor approach only.

Operational analysis for all key intersections was conducted based on total projected volumes depicted in Figures 19 to 21, existing signal timing plans and the previously described network modifications. **Tables 18 - 20** summarizes the projected performance of study area intersections for the 2030, 2040 and 2050 horizon years. Detailed Synchro output data for total projected conditions will be provided separately to City staff.



Table 18: Study Area Intersection Operations - 2030 Phase 1 Total Projected Conditions

		Overall		Critical Movement				
Intersections	Delay (s)	v/c Ratio	v/c LOS	Mvmt	Delay (s)	v/c Ratio	v/c LOS	
Booth & Chaudière	9 (12)	0.84 (0.78)	D (C)	SBTR	13 (9)	0.86 (0.68)	D (B)	
Booth & War Museum	2 (2)	0.62 (0.52)	B (A)	SBTR	3 (2)	0.62 (0.45)	B (A)	
Booth & Wellington	50 (36)	0.96 (0.95)	E (E)	NBTR	97 (50)	1.02 (1.05)	F (F)	
Booth & Albert	85 (<mark>111</mark>)	0.95 (1.16)	E(F)	EBL	99 (256)	1.02 (1.46)	F (F)	
Albert & Empress	5 (6)	0.29 (0.32)	A (A)	SBLTR	40 (44)	0.29 (0.39)	A (A)	
Albert & Preston	49 (32)	0.82 (0.72)	D (C)	NBTR	127 (63)	0.88 (0.84)	D (D)	
Albert & City Centre	13 (12)	0.46 (0.40)	A (A)	EBTR	15 (12)	0.53 (0.35)	A (A)	
Albert/Scott & Bayview Station	17 (16)	0.55 (0.50)	A (A)	EBTR	11 (16)	0.60 (0.56)	A (A)	
Scott & Parkdale	26 (38)	0.66 (0.84)	B (D)	WBT	25 (59)	0.43 (0.97)	A (E)	
KZM & Slidell	3 (7)	0.50 (0.68)	A (B)	WBT	2 (8)	0.36 (0.68)	A (B)	
Wellington/KZM & Vimy	3 (4)	0.45 (0.52)	A (A)	WBTR	3 (5)	0.32 (0.53)	A (A)	
Wellington & Lett	15 (5)	0.56 (0.45)	A (A)	EBTR	19 (2)	0.58 (0.41)	A (A)	
Wellington & Portage	109 (41)	1.21 (0.89)	F (D)	SBL	234 (53)	1.45 (0.88)	F (D)	
Wellington & Broad	4 (4)	0.41 (0.46)	A (A)	WBT	3 (3)	0.29 (0.46)	A (A)	
Somerset & Booth	21 (25)	0.55 (0.70)	A (B)	NBLTR	36 (35)	0.81 (0.87)	D (D)	
Somerset & Preston	34 (28)	0.69 (0.71)	B (C)	NBTR	36 (43)	0.75 (0.87)	C (D)	

As shown in Table 18, the Booth Street at Albert Street and Wellington Street at Portage Bridge intersections are projected to continue operating over capacity during weekday morning or afternoon peak hours.

The only other noticeable change to intersection operations from Future Background Conditions is the northbound through movement at the intersection of Booth Street at Wellington Street, which increases from a v/c ratio of 0.98 (AM) and 1.00 (PM) to 1.02 (AM) and 1.05 (PM), and the northbound through movement at the intersection of Booth Street at Albert Street, which increases from a v/c ratio of 0.99 (AM) and 1.33 (PM) to 1.02 (AM) and 1.46 (PM), due to growth from the LeBreton Flats development. All other study area intersections are projected to continue operating similar to future background conditions, with only minor increases in volumes and delays.



Table 19: Study Area Intersection Operations - 2040 Phase 2 Total Projected Conditions

	Overall			Critical Movement				
Intersections	Delay (s)	v/c Ratio	v/c LOS	Mvmt	Delay (s)	v/c Ratio	v/c LOS	
Booth & Chaudière	9 (12)	0.84 (0.78)	D (C)	SBTR	13 (9)	0.86 (0.68)	D (B)	
Booth & War Museum	2 (2)	0.62 (0.52)	B (A)	SBTR	3 (2)	0.62 (0.45)	B (A)	
Booth & Wellington	50 (36)	0.96 (0.95)	E (E)	NBTR	97 (50)	1.02 (1.05)	F (F)	
Booth & Albert	85 (<mark>111</mark>)	0.95 (1.16)	E(F)	EBL	99 (256)	1.02 (1.46)	F (F)	
Albert & Empress	5 (6)	0.29 (0.32)	A (A)	WBTR	3 (4)	0.11 (0.33)	A (A)	
Albert & Preston	49 (32)	0.82 (0.72)	D (C)	NBTR	127 (63)	0.88 (0.84)	D (D)	
Albert & City Centre	13 (12)	0.46 (0.40)	A (A)	EBTR	14 (12)	0.47 (0.35)	A (A)	
Albert/Scott & Bayview Station	17 (16)	0.55 (0.50)	A (A)	EBTR	11 (16)	0.60 (0.56)	A (A)	
Scott & Parkdale	26 (38)	0.66 (0.84)	B (D)	WBT	25 (59)	0.43 (0.97)	A (E)	
KZM & Slidell	3 (7)	0.50 (0.68)	A (B)	WBT	2 (8)	0.36 (0.68)	A (B)	
Wellington/KZM & Vimy	3 (4)	0.45 (0.52)	A (A)	WBTR	3 (5)	0.32 (0.53)	A (A)	
Wellington & Lett	15 (5)	0.56 (0.45)	A (A)	EBTR	19 (2)	0.58 (0.41)	A (A)	
Wellington & Portage	109 (41)	1.21 (0.89)	F (D)	SBL	234 (53)	1.45 (0.88)	F (D)	
Wellington & Broad	4 (4)	0.41 (0.46)	A (A)	EBTR	5 (4)	0.42 (0.32)	A (A)	
Albert & Access 1	5 (1)	0.40 (0.36)	A (A)	EBT	7 (2)	0.40 (0.36)	A (A)	
Somerset & Booth	21 (25)	0.56 (0.71)	A (C)	NBLTR	36 (36)	0.81 (0.89)	D (D)	
Somerset & Preston	35 (30)	0.70 (0.73)	B (C)	NBTR	37 (46)	0.75 (0.90)	C (D)	

As shown in Table 19, study area intersections are projected to continue operating similar in the year 2040 when compared to the projected conditions for the 2030 horizon year. With the exception of previously identified problematic intersections, all study area intersections are projected to operate acceptably, at LOS 'E' or better.



Table 20: Study Area Intersection Operations - 2050 Phase 3 Total Projected Conditions

	Overall			Critical Movement			
Intersections	Delay (s)	v/c Ratio	v/c LOS	Mvmt	Delay (s)	v/c Ratio	v/c LOS
Booth & Chaudière	10 (12)	0.86 (0.78)	D (C)	SBTR	14 (10)	0.88 (0.70)	D (B)
Booth & War Museum	4 (2)	0.63 (0.52)	B (A)	SBTR	4 (3)	0.63 (0.47)	B (A)
Booth & Wellington	67 (53)	1.01 (1.00)	F(E)	NBTR	94 (53)	1.09 (1.05)	F (F)
Booth & Albert	88 (<mark>115</mark>)	0.96 (1.17)	E(F)	EBL	111 (285)	1.08 (1.52)	F (F)
Albert & Empress	7 (5)	0.32 (0.37)	A (A)	WBTR	3 (7)	0.13 (0.39)	A (A)
Albert & Preston	50 (35)	0.87 (0.75)	D (C)	EBTR	71 (46)	0.94 (0.69)	E (B)
Albert & City Centre	13 (11)	0.47 (0.41)	A (A)	EBTR	14 (13)	0.48 (0.37)	A (A)
Albert/Scott & Bayview Station	17 (16)	0.56 (0.52)	A (A)	EBTR	11 (14)	0.62 (0.58)	B (A)
Scott & Parkdale	27 (33)	0.67 (0.82)	B (D)	NBTR	24 (47)	0.41 (0.85)	A (D)
KZM & Slidell	3 (7)	0.51 (0.70)	A (B)	WBT	1 (8)	0.37 (0.70)	A (B)
Wellington/KZM & Vimy	7 (6)	0.58 (0.58)	A (A)	EBTR	10 (8)	0.61 (0.43)	B (A)
Wellington & Lett	18 (10)	0.60 (0.49)	A (A)	EBTR	23 (13)	0.62 (0.52)	B (A)
Wellington & Portage	134 (54)	1.29 (0.92)	F(E)	SBL	304 (64)	1.60 (0.93)	F(E)
Wellington & Broad	6 (9)	0.55 (0.53)	A (A)	EBTR	5 (6)	0.58 (0.42)	A (A)
Albert & Access 1	15 (15)	0.36 (0.55)	A (A)	WBTR	21 (14)	0.30 (0.54)	A (A)
Somerset & Booth	22 (29)	0.57 (0.76)	A (C)	NBLTR	37 (46)	0.83 (0.94)	D (E)
Somerset & Preston	35 (31)	0.71 (0.74)	C (C)	NBTR	39 (50)	0.78 (0.92)	C (E)

As shown in Table 20, operational conditions at key study area intersections in the year 2050 are expected to be slightly worse than those in the 2040 horizon year. The following intersections operated acceptably in the 2040 horizon year and will continue to operate acceptably in the 2050 horizon year:

- Booth Street and Chaudière
- Booth Street and War Museum
- Booth Street and Wellington
- Albert Street and Empress Avenue
- Albert Street and City Centre Avenue
- Albert Street / Scott Street and Bayview Station Road
- Kichi Zibi Mikan and Slidell Street
- Wellington Street / Kichi Zibi Mikan and Vimy Place
- Wellington Street and Lett Street
- Wellington Street and Broad Street
- Albert Street and Access 1
- Somerset Street and Booth Street
- Somerset Street and Preston Street



The following intersections were over capacity in at least one peak hour in the 2040 horizon year, and continue to be over capacity in at least one peak hour in the 2050 horizon year, with minimal increase to the v/c ratio:

- Albert Street and Booth Street (both peak hours)
- Wellington Street and Portage Bridge (AM peak hour)

The following intersection was approaching capacity in at least one peak hour in the 2040 horizon year, and is now just over capacity in at least one peak hour in the 2050 horizon year, with minimal increase to the v/c ratio:

• Wellington Street and Booth Street (AM peak hour)

As previously noted, due to the implementation of a protected intersection at Booth Street and Albert Street as part of the Albert Street Cycling / Pedestrian Modifications, the intersection is projected to be over capacity in the Future Background Conditions in 2030. As noted in **Section 3.1.2**, one mitigation measure worth considering in the proposed design for Albert Street is the implementation of a double eastbound left turn in order to provide relief to one of the heaviest volume movements at the intersection, while still maintain the principles of a protected intersection. The intersection operations at Booth Street and Albert Street for the 2050 Phase 3 Horizon are shown in **Table 21** for a single eastbound left and a double eastbound left.

Scenario	Mvmt	Volume (vph)	Delay (s)	v/c Ratio	v/c LOS	95th Queue (m)
	EBL	365 (650)	111 (285)	1.08 (1.52)	F (F)	#169 (#276)
Single EBL	EBTR	530 (465)	16 (10)	0.42 (0.30)	A (A)	88 (37)
	Overall	-	88 (115)	0.96 (1.17)	E (F)	-
	EBL	365 (650)	41 (57)	0.54 (0.77)	A (C)	46 (90)
Double EBL	EBTR	530 (465)	80 (15)	0.82 (0.58)	D (A)	226 (96)
	Overall	-	85 (81)	0.95 (0.99)	E (E)	-

Table 21: Booth at Albert – 2050 Phase 3 Horizon Double EBL, AM Peak (PM Peak)

The results of the double eastbound left analysis indicate that the proposed configuration is preferred over the single eastbound left configuration in the Phase 3 horizon, as well as in the Future Background Conditions. Therefore, it is recommended that for the Albert Street Cycling / Pedestrian Modifications, the lane arrangement for the intersection of Albert Street at Booth Street be reconfigured in advance of construction, to accommodate a double eastbound left and a single eastbound through. It should be noted that since this mitigation measure is recommended in the Future Background Conditions as part of the Albert Street Cycling / Pedestrian Modifications, not the LeBreton Flats development, it is not expected that the cost of this upgrade be attributed to the LeBreton Flats development.

4.2.3 Adjustments to Travel Demand

Adjusting modal splits away from projected auto trips further is difficult to justify, as certain individuals will ultimately be required to travel by vehicle for one reason or another (e.g., distance between origin/destination is too great, travel is a requirement for employment, physical disabilities limit travel options, etc.). Additionally, adjusting the auto modal share for site-generated traffic much lower will have a negligible effect on the performance of study area network.



With the opening of the Confederation LRT line (which occurred after much of the traffic count data used in this analysis) and the coming expansion of both the Confederation LRT line and the Trillium LRT line, it is anticipated that there will be an increased number of transit users, which is likely to alleviate the vehicular demand on study area intersections. As noted above, there is also the future West Gatineau Tramway and downtown transit loop projects that have the potential to reduce interprovincial vehicular travel, including along the Booth Street corridor. Furthermore, with the planned and ongoing improvements to active transportation facilities as identified in **Section 3.1.3** and as proposed as part of the Plan of Subdivision, it is anticipated there will be a shift to more active modes in the study area in the future. In addition to a shift to alternative modes, peak network demand may also be further spread beyond peak hours with individuals able to modify their working hours (e.g., individuals choosing to leave for work earlier or later to avoid the most congested network conditions) or working remotely (or telecommuting) from their homes. The benefit of some of these can already be seen in more recent traffic counts (i.e., post-COVID) which show slightly lower vehicular volumes than pre-COVID.

Based on the foregoing, no adjustments to background or site-generated network demand were considered for the purposes of this TIA study. However, it should be noted that new traffic data will be collected for each development application related to LeBreton Flats to feed into TIA studies for each application. The updated data collected with each study should more accurately reflect the benefits of Ottawa's new LRT service, which may potentially alleviate vehicular demand on study area intersections.

Network Modifications to Support Removal of Preston Street Extension

The LeBreton Flats Master Concept Plan proposed a shift in function of the planned Preston Street extension and bridge between Albert Street and KZM/Wellington Street from a vehicular focus to an active transportation focus more in line with the City's new Transportation Master Plan. The Preston Street arterial extension had been previously identified in the City of Ottawa's Official Plan and Transportation Master Plan. The Master Concept Plan proposed to replace this planned roadway, including a vehicular bridge, with an active transportation bridge.

Due to the limited number of north-south connections between Wellington Street / KZM and Albert Street, there are limited opportunities for network modifications to improve north-south vehicular capacity while still prioritizing non-vehicular modes of transportation. An example of this is the potential for permitting northbound right turns at the intersection of Slidell Street at KZM, which would result in an increase of cut-through traffic through the residential section of Bayswater Avenue. Bayswater Avenue is classified as a local street from Carling Avenue to Gladstone Street. Furthermore, due to requests from residents, speed humps and flex posts were implemented in recent years as traffic calming measures. These two factors show that while allowing the northbound right turn at Slidell Street / KZM may improve traffic operations in the study area, there are other reasons that it wouldn't be an acceptable network modification solution. It should be noted that this shouldn't preclude transit from being permitted to make the movement.

The only modification that appears to have some merit is allowing the northbound left turn movement at the Booth Street and Wellington Street intersection, making it accessible to all traffic. This movement was previously allowed for transit only, but with the recent reconstruction of the intersection as a protected intersection, it has been removed. The City provided an EMME model for the scenario with the northbound left turn being implemented at the intersection of Booth Street and Wellington Street, which indicated that 112 vehicles would make a northbound left turn movement during the AM peak hour. Based on traffic patterns (i.e., heavier westbound flow in PM peak hour), it was estimated that this volume would be 204 vehicles in the PM peak hour. This has been modelled in Synchro software (assumed to operate with protected phasing due to crossing the southbound cycle track, and minimum





green time) for the Phase 3 horizon. This option is compared against the default Phase 3 scenario in the table below (i.e., with no northbound left turn movement).

Table 22: Booth Street at Wellington Street - Permitted Northbound Left Turn, Phase 3

Scenario	Movements	Delay (s)	v/c Ratio	v/c LOS
	EBT	103 (27)	0.97 (0.72)	E (C)
	WBT	28 (94)	0.54 (0.96)	A (E)
	WBR	22 (22)	0.21 (0.17)	A (A)
No Northbound Left Turn	NBTR	94 (53)	1.09 (1.05)	F (F)
No Northbourid Left Turri	SBL	145 (86)	0.92 (0.91)	E (E)
	SBT	26 (25)	0.69 (0.46)	B (A)
	SBR	14 (19)	0.36 (0.35)	A (A)
	Overall	67 (53)	1.01 (1.00)	F (E)
	EBT	103 (27)	0.97 (0.72)	E (C)
	WBT	28 (94)	0.54 (0.96)	A (E)
	WBR	22 (22)	0.21 (0.17)	A (A)
	NBL	219 (387)	1.27 (1.78)	F (F)
Northbound Left Turn Permitted	NBTR	94 (54)	1.09 (1.05)	F (F)
	SBL	138 (89)	0.92 (0.92)	E (E)
	SBT	56 (36)	0.98 (0.59)	E (A)
	SBR	18 (20)	0.47 (0.41)	A (A)
	Overall	77 (69)	0.99 (0.93)	E (E)

Implementing a northbound left turn movement at the intersection of Booth Street at Wellington Street increases the overall delay in both peak hours, as well as the delay and v/c ratio for numerous movements. Specifically, the delay for the southbound through movement increases by approximately 30 seconds in the AM peak hour, with the v/c ratio approaching LOS 'F'. The northbound left turn movement also operates with high levels of delay and v/c ratios, as the heavy movements on all approaches to the intersection do not allow for much green time to be assigned to this movement. In addition to operational concerns, implementing the northbound left turn would require a reconstruction of the recently built protected intersection to provide space for the additional lane. This indicates that a northbound left turn movement is not recommended at the intersection of Booth Street and Wellington Street.

4.3 Boundary Street Design

The LeBreton Flats site is bounded by arterial roadways on three sides, with Albert Street to the south, Booth Street to the east, and Wellington Street to the north. The Trillium Line forms the western boundary of the site. Of these roadways, Booth Street and Albert Street already meet (or are going to meet) the City's Complete Streets philosophy, while Wellington Street could see benefit from improved Complete Street elements.

4.3.1 Albert Street

As previously noted in this document, Albert Street has ongoing or planned construction that will transform it into a multi-modal corridor that supports all road users. As shown in **Figure 22**, this includes a four-lane cross-section, with cycle tracks and sidewalks on both sides of Albert Street adjacent to the LeBreton Flats site, which will support the multi-modal vision for LeBreton Flats. Some proposed changes to the design have already been identified in this report, including:





- Converting one of the eastbound through lanes at Albert Street / Booth Street into an eastbound left turn lane to accommodate the heavy eastbound left turn volumes.
- North legs at the protected signalized intersections of Albert Street / Preston Street and Albert Street / City Centre Avenue.
- Provision of a new protected signalized intersection at Albert Street / Access 1, between Booth Street and Preston Street.
- Provision of a right-in/right-out intersection at Albert Street / Access 2, between Preston Street and City Centre Avenue.

Figure 22: Proposed Design for Albert Street Adjacent to Site (Source: Robinson Consultants Inc, March 2019)



4.3.2 Booth Street

Booth Street through the site mainly consists of the bridge across the Confederation Line LRT tracks, which features a four-lane cross-section, sidewalks and cycle tracks. South of the site, Booth Street through the residential area features a two-lane cross-section and numerous traffic calming elements. North of the site, Booth Street narrows to a two-lane cross-section with sidewalks and cycle tracks on both sides of the street. The intersection of Booth Street / Wellington Street was recently reconstructed to feature protected intersection elements, while the intersection of Booth Street / Albert Street is proposed to be reconstructed as part of the improvements to the Albert Street corridor. The only proposed change to Booth Street as part of this project is a right-in/right-out access on the west side of Booth Street, across from the existing right-in/right-out access on the east side of Booth Street, south of Wellington Street and north of the Confederation Line LRT.

4.3.3 Wellington Street

Wellington Street adjacent to the site is a four-lane roadway with sidewalks and on-street parking on both sides of the street, with a speed limit of 60 km/h. The roadway cross-section has not been updated in some time, and reflects the previous purpose it served as part of the old Sir John A Macdonald Parkway, which was a scenic parkway focused on vehicular travel.

As part of the LeBreton Flats Plan of Subdivision, southern legs to the two signalized intersections (at Vimy Place and Broad Street) are proposed in order to provide access to the Flats District. In addition, two new right-in/right-out accesses are proposed between the signalized intersections. These changes will increase friction on the south side of Wellington Street, resulting in more turning conflicts between vehicles, pedestrians and cyclists.

West of Vimy Place, Wellington Street transitions into Kichi Zibi Mikan, which is governed by the National Capital Commission, who is reshaping their vision for parkways in the National Capital Region, focusing them more on active and sustainable transportation and less on vehicular movement. East of the LeBreton Flats site, Wellington Street is envisioned to be part of the West Gatineau Tramway



Stantec

project, which will see a median tramway along the Portage Bridge and Wellington Street. The size of the LeBreton Flats development and desire to focus on multi-modal transportation presents an opportunity for the City of Ottawa to capitalize on the adjacent projects and consider a redesign of the Wellington Street corridor between Vimy Place and the Portage Bridge.

Some considerations for a redesign of the corridor include:

- The removal of on-street parking on both sides of Wellington Street, especially with the
 potential for additional underground parking to be provided at the LeBreton Flats site. This
 would reduce the roadway cross-section, allowing for a lower speed limit and a shorter crossing
 distance for pedestrians and cyclists.
- Removal of the concrete median, which in combination with a lower speed limit should encourage a slower operating speed for vehicles, increasing safety for all roadway users.
- Provision of cycle tracks or multi-use pathways on both sides of the street to provide cyclists
 with a separated facility, protecting users from vehicular traffic. These facilities would tie into
 the Ottawa River Pathway at Vimy Place, as well as existing cycle tracks at Booth Street and
 any future cycling facilities provided as part of the LeBreton Flats development (e.g., in the
 Flats District).
- Reconstruction of the signalized intersections into protected intersections, including the intersections at Vimy Place, Broad Street and Lett Street.

Mobility

A Multi Modal Level of Service (MMLOS) analysis for Wellington Street from Vimy Place to Lett Street was undertaken for the future background conditions. MMLOS analysis was not undertaken for Booth Street as it is already designed as a complete street, nor Albert Street as it is currently part of a complete street renewal project. The results of this analysis are shown in **Table 23**. As there are no transit routes, and there is no truck route designation on this section of Wellington Street, the focus of this MMLOS analysis is only on pedestrians and cyclists. Public Realm LOS (PRLOS) is evaluated as well for Segment LOS, to support the consideration of Healthy Streets elements. The MMLOS targets are consistent with those shown in Table 19.

 Street
 Segment
 PLOS
 BLOS
 TLOS
 PRLOS

 Wellington
 Vimy - Lett
 B
 E
 C

 Target
 A
 B

Table 23: Segment MMLOS - Background LOS

Due to the existing wide sidewalks (~4.0m) and presence of a parking lane, the PLOS score is LOS 'B', which approaches the desired LOS 'A'. The lack of cycling facilities requires cyclists to operate in vehicular lanes, resulting in a LOS 'E' and not approaching the desired BLOS target of LOS 'B'. The quality of Public Realm LOS on this corridor can be described as good. While the pedestrian and boulevard width is acceptable, the high design speed of 70 km/h, the lack of a cycling facility, and the number of midblock traffic lanes result in room for improvement, with a PRLOS 'C'.

To improve the MMLOS for pedestrians and cyclists, the recommended improvements for Wellington Street are to remove on-street parking and replace it with a cycle track. This would allow cyclists to operate on their own segregated facility, while maintaining the offset from vehicular travel lanes for pedestrians. An additional consideration would be to remove the center concrete median, reduce the width of travelled lanes to the minimum required, and reduce the posted speed limit from 60 km/h to 50 km/h. The benefits of these changes on the MMLOS scoring are shown in the table below.





Table 24: Segment MMLOS - Conceptual LOS

Street	Segment	PLOS	BLOS	TLOS	PRLOS
Wellington	Vimy - Lett	Α	Α	-	В
	Target	Α	В	-	-

The removal of the parking lane and reduction to roadway cross-section, along with the implementation of separated cycling facilities, improves the LOS for both pedestrians and cyclists to LOS 'A', and the PRLOS to LOS 'B'. These proposed changes would have minimal impact on the vehicular LOS, and therefore should be considered by the City of Ottawa in the future.

Road Safety

As identified in **Section 3.1.2**, existing collision data was reviewed as part of this study. There were no concerning trends in collisions for this segment of Wellington Street, however it is worth noting that a lower speed limit and narrower travel lanes are generally associated with fewer collisions. In addition, the proposed changes to improve the cycling facilities will greatly improve safety for cyclists on Wellington Street.

Neighbourhood Traffic Management

As identified in **Section 4.2.2**, the projected intersection operations on this corridor are not anticipated to be overly impacted by the LeBreton Flats development. The recommendations for improvements to Wellington Street will result in slower travel speeds, and improved conditions for active transportation, potentially increasing the shift of users from vehicular modes to other modes of transportation, in line with the City's new TMP. No further changes are recommended for this section of Wellington Street as part of this TIA.

4.4 Development Design

4.4.1 New Street Networks

The proposed street network for the LeBreton Flats development, as shown in Figure 4, is designed with all modes of transportation in mind. All streets are designed to be low-speed, local streets that focus on providing safe connections for pedestrians and cyclists to pathways and sidewalks in the area, as well as to the nearby LRT stations. There are very few continuous streets in the development, as the focus of the development is on maximizing benefits for sustainable, alternative modes of transportation, while reducing the focus on personal vehicles. However, the planned street network does allow for emergency vehicles and maintenance operations (i.e. waste collection, snow removal) to operate efficiently.

4.5 Transportation Demand Management

4.5.1 Context for TDM

The proposed mode share of the development, as outlined in *Section 3.3.3*, is 15% auto driver, 5% auto passenger, 60% transit, and 20% walking and cycling. Comparatively, the mode share in the City's EMME model (based on the 2011 OD Travel Survey) for TAZ 300 which is mostly made up of the LeBreton Flats development, is 42% auto driver, 10% auto passenger, 39% transit, and 9% walking and cycling. Through previous discussions with the City, it was agreed that the model is underrepresenting the potential level of transit usage in TAZ 300, especially for trips arriving to TAZ 300, which are shown as only 28% transit in the model. It should be noted that the City is currently updating its EMME model to represent the results of the 2021 OD Travel Survey, which may already reflect this shift in mode share.





With the LeBreton Flats location just west of downtown, it falls under the "Downtown Core Transect" in the Official Plan, but with two LRT stations located within the site, it can also be considered a Design Priority Area (DPA). This allows the development to place a greater emphasis on non-auto modes, as there are no minimum parking requirements for the development. The ultimate decision for providing parking is up to each individual developer, however past studies for the lands make mention of a desire for minimal parking, and where required, implementing shared parking between land uses.

4.5.2 Need and Opportunity

It is clear that to meet the above noted mode share targets that an aggressive TDM program is required. The following are three key points to consider for the development of the TDM program for LeBreton Flats.

- 1. Other similar Transit-Oriented Developments in the City have had similar targets to what is being proposed for LeBreton Flats. Those developments are listed below along with a high-level summary of the proposed TDM measures for each development:
 - 900 Albert Street 25 to 30% auto driver, 5 to 10% auto passenger, 45 to 55% transit, 15% active.
 - Enhanced sidewalks and lighting, ride-sharing programs, carpool incentives, preferential parking for hybrid/electric vehicles, on-site transit information booth, subsidized transit passes; additional shelter area for transit users; on-site change rooms/shower facilities.
 - Zibi 25 to 30% auto driver, 5% auto passenger, 45 to 55% transit, 20% active.
 - Small development blocks with frequent intersections, pedestrian streets and woonerfs, secure bicycle parking, parking minimums with shared parking between buildings/land uses, car sharing programs/facilities, provide information/material to future residents and employees to educate them on sustainability objectives.
 - CFB Wateridge Development 45 to 50% auto driver, 10% auto passenger, 30 to 35% transit, 20% active.
 - Ride-sharing programs, carpool incentives, preferential parking for hybrid vehicles, on-site transit information booth, on-site change rooms/shower facilities
- 2. The City's continuous monitoring and interest of these types of developments as they are built confirms that the mode share targets are quite favorable compared to the rest of the City, but do fall short of the TOD targets.
- Committing to an aggressive TDM program is necessary and prudent, with the recognition and understanding that some TDM measures will be attractive and effective from the outset, while others will become more attractive as the development progresses and nears completion.

The main opportunity for the LeBreton Flats lands is that the NCC is a willing and committed landowner, willing to put forth an attractive and aggressive TDM plan that will help to create the vision for LeBreton Flats being presented in this and other reports. Other opportunities to be considered as part of the LeBreton Flats development are:

- The NCC is committed to working with OC Transpo to pursue strategies that boost transit mode share to and from LeBreton Flats, including methods to encourage/incentivize developers and future residents to use transit. This would provide a great jump-start to encourage transit usage and could be supported by transit fare incentives for non-residential developments at LeBreton Flats.
- According to Section 101 of the City's Zoning By-law, no off-street motor vehicle parking is required to be provided on the entire site, given the proximity of the development to LRT stations.
 - According to Section 103 of the City's Zoning By-law, there is a maximum number of motor vehicle parking permitted at the LeBreton Flats site, due to its proximity to LRT stations. These





numbers equivalent to 1.5 parking spaces per dwelling unit and 1.0 per 100m² of GFA for office land uses and retail stores. This would translate to a **maximum allowable number of parking spaces on-site of approximately 7,000**.

- This is significantly higher than the number of vehicular trips expected to be generated by the site (approximately 2170 entering and exiting during the AM and PM peak hours) indicating that it is important that maximum parking provisions on-site be more stringent than those outlined in the City's Zoning By-law.
- The minimum number of bicycle parking spaces as required by Section 111 of the City's Zoning By-law are 0.5 per dwelling unit and 1 per 250m2 GFA for an office or retail store. This would result in approximately 2,400 bike parking spaces on-site.
 - Given that 15% of trips are expected to be made by auto drivers, and 20% of trips are expected
 to be made by active modes, it would be worthwhile to provide an equivalent or greater
 number of bicycle parking spaces on-site when compared to vehicular parking spaces.

4.5.3 TDM Program

According to the City's TIA Guidelines, an analysis of Transportation Demand Management (TDM) measures is required when a proposed development is projected to have more than 60 employees onsite at any given time. It is understood that the City generally prefers a post-occupancy TDM program be in place ahead of site plan approval; however, with different parcels of land likely to have different owners or developers, it is difficult to project which TDM measures will be used by each owner. The proposed design of the LeBreton Flats site encourages active modes of transportation as much as possible, as outlined in detail in this TIA, by using design solutions such as filtered permeability, numerous multi-use pathways and sidewalks, and woonerf or slow streets.

It is expected that a TDM strategy will be established for each individual development application at the time of development approval. Given that this TIA is for the entire site, and that individual TIAs will be required for each individual development, it is recommended that the City take a closer review of TDM programs at that stage of the planning process. Many of the TDM programs are specifically related to operations of a specific company or developer, such as offering discounted transit passes or flexible working hours, which cannot be captured in this TIA. That being said, some potential TDM-supportive measures that can be considered for LeBreton Flats are listed below:

- TDM Program Coordinator Given the scale of the development, there could be a dedicated coordinator position to manage the development and implementation of the LeBreton Flats TDM program.
- Travel Surveys The NCC could commission travel surveys / monitoring programs to be
 undertaken at intervals throughout the development of LeBreton Flats in order to gauge the mode
 share and make adjustments to requirements accordingly. For example, such surveys could be
 undertaken at 20% completion intervals (i.e., a 20-year development would be undertaken every 4
 years).
- Enhanced Public Transit Service Given the existing presence of OC Transpo routes on Booth Street, Albert Street and Preston Street, as well as the Confederation and Trillium Lines, it is expected that OC Transpo will be monitoring transit usage in and around LeBreton Flats throughout the development process. Section 4.7 of this TIA provides additional discussion on transit capacity in and around LeBreton Flats.
- On-Site Amenities The mixed-use nature of the LeBreton Flats development suggests that a variety of amenities and services will be available on-site, which will reduce need for and dependency on personal vehicles.





- **Parking-Related Strategies** The following are some TDM measures specifically related to vehicular parking management.
 - A maximum limit on parking supply (either a per unit rate or maximum stalls per development) more aggressive than the City's Zoning By-law.
 - o **Charge for all parking** (i.e., short-term, and long-term parking), with short-term parking being charged at a higher parking rate.
 - Provide carpool and carshare vehicles with discounts on parking costs and/or provide more
 of them with more convenient parking locations.
 - Unbundle parking cost from commercial/office lease rates, residential purchase prices and monthly rent. Alternatively, the NCC (or another entity, such as a private company) could maintain control of all parking on-site.
- In addition to the above, there are numerous TDM measures that can be included as a requirement
 for each individual development as part of the procurement process. These measures tend to be
 physical measures that would have to be constructed / installed as part of each development. They
 include:
 - o **Displaying local area maps** with walking/cycling access routes, key destinations, transit schedules and route maps at major entrances.
 - Provide real-time transit arrival information display at entrances to buildings in LeBreton Flats
 - Install on-site bikeshare stations for use by commuters and visitors.
 - Generous provisions for secure bike parking.
 - Minimum sidewalk widths above and beyond City standards.
 - o **Curb management accommodation** (e.g., percentage of curb space dedicated to pick-up/drop-off activity).
 - o **Minimum bicycle parking provisions** that are higher than the City standard (e.g., 2+ bike parking stalls per residential unit)
 - Mandating bicycle maintenance and repair facilities and end-of-trip amenities (e.g., showers and change rooms).

The formal TDM Checklist, provided by the City, has been attached as **Appendix E** and is filled out for measures that may be applicable to the LeBreton Flats site. It is worth reiterating that it is difficult to project which specific measures will be utilized by individual developments.

4.6 Neighbourhood Traffic Calming

With respect to the City's TIA guidelines, this module reviews significant access routes to the development and identifies any required neighbourhood traffic management (NTM) measures to mitigate impacts on collector and local roads.

4.6.1 Adjacent Neighbourhoods

Given traffic volume on Wellington Street, Booth Street, Albert Street and KZM are currently, and are anticipated to continue to exceed the major arterial capacity thresholds (i.e. 600 veh/h per lane during peak hours), the City's TIA Guidelines requires a review of potential neighbourhood traffic management strategies for the adjacent neighbourhoods, including West Centretown (generally bounded by Albert Street to the north, Carling Avenue to the south, Bronson Avenue to the east and the Trillium Line to the west), Centretown (generally bounded by the Ottawa River to the north, Highway 417 to the south, the Rideau Canal to the east and Bronson Avenue to the west) and Hintonburg (generally bounded by the Ottawa River to the north, Highway 417 to the south, the Trillium Line to the east and Parkdale Avenue to the west).



The Plan of Subdivision carefully and deliberately minimizes the need for neighbourhood traffic management strategies within the LeBreton Flats site. The residential neighbourhoods south of the development site will feel some additional pressure from the additional traffic generated by vehicles to/from LeBreton Flats. These neighbourhoods already experience streets with long queues of traffic during peak hours and have existing area traffic management measures in place to reduce the potential for cut-through traffic. There is the potential for peak period spreading, which means that the queues of traffic will start earlier and/or finish later in the day, albeit with less pronounced peaks in traffic. Surrounding residential streets are for the most part already protected against cut-through traffic issues with traffic calming measures, as outlined in **Section 3.1.2**.

The arterial roads surrounding the development site, specifically Albert Street and Wellington Street, are the most likely to experience off peak speeding due to their alignment and width. Currently, the primary function of these roads is mobility, and therefore, the design elements prioritize the efficient movement of motor vehicles. For example, intersections need to facilitate truck turning, which can result in wider crossing distances for pedestrians. Some intersections require vehicle turning lanes, which increase the crossing distances for pedestrians. That being said, as identified in **Section 4.3.1**, Albert Street is currently being redesigned as a complete street, and there are improvements that can be made to Wellington Street, as identified in **Section 4.3.3**.

4.7 Transit

With respect to the City's TIA Guidelines, this module reviews the potential impacts on existing and planned transit networks and service to ensure that level of service is not unacceptably impacted.

4.7.1 Route Capacity

The transit routes that serve the subject site were previously summarized in Table 2. It is expected that 60 percent of the trips generated by the site will be accommodated by transit, and that the majority of transit usage for people accessing the development site will be completed by LRT (either Confederation Line or Trillium Line). It is expected that Bayview Station on the western edge of the development site will service the Park District and the western portion of the Albert District, including the major event centre (if constructed). The Flats District and Aqueduct District will be well served by Pimisi Station on Booth Street.

Based upon the analysis provided in Step 3, and summarized in the table below, it is expected that the number of transit trips generated from the three phases of the LeBreton Flats development will range from 3,350 to 5,330 additional transit trips in both peak hours. This will result in an approximate total of 8,680 additional transit passengers generated by the LeBreton Flats development during the peak hours.

Dist	F	AM Peak H	our	Pi	Total		
Block	ln	Out	Total	ln	Out	Total	Peak Hour
Phase 1 Total	493	696	1188	985	877	1860	3048
Phase 2 Total	243	381	624	561	494	1054	1678
Phase 3 Total	872	666	1539	1106	1313	2418	3957
Total 'New' Transit Trips	1608	1743	3351	2652	2684	5332	8683

Table 25: Peak Hour Transit Trips by Development Phase

Using information from the City of Ottawa's EMME model, the following breakdown was calculated for transit users around the study area in order to assume a distribution to various LRT or bus routes. It should be noted that the numbers in **Table 26** include all transit users, not just those from LeBreton Flats.



Table 26: EMME 2031 Transit Trip Distribution – AM Peak Hour

Transit Mode	Eastbo	und	Westbound						
Transit Woue	Volume	Percentage	Volume	Percentage					
LRT	28,146	97%	9,557	95%					
Bus	930	3%	543	5%					
Total	29,076	100%	10,100	100%					

The data provided in Table 26 indicates that of all eastbound transit trips in the AM peak hour, 97% are made by LRT and 3% are made by bus. 95% of all westbound transit trips are made by LRT and 5% are made by bus. Of all LRT trips, 67% are headed eastbound and 33% are headed westbound, while bus trips see 65% of trips headed eastbound and 35% of trips headed westbound. This information allows for the assignment of transit trips to stations and bus stops in the area as shown in **Table 27** and **Figure 23** below.



Table 27: Projected LeBreton Flats Transit Trip Distribution – Full Buildout

			AM Pea	ak Hour					PM Pea	ak Hour			
Block		In			Out			ln		Out			
	Total	EB	WB	Total	EB	WB	Total	EB	WB	Total	EB	WB	
A1-4 (Major Events Centre)	240	178	62	320	238	82	462	119	343	414	107	307	
LRT (Bayview)	232	173	59	309	231	78	441	115	326	396	104	292	
Bus	8	5	3	11	7	4	21	4	17	18	3	15	
A9-10	136	101	35	185	137	48	298	77	221	274	71	203	
LRT (Pimisi)	131	98	33	179	133	46	285	75	210	262	69	193	
Bus	5	3	2	6	4	2	13	2	11	12	2	10	
Flats District (F1-4, 8-12, AD 1-5)	664	493	171	679	504	175	1049	270	779	1080	278	802	
LRT (Pimisi)	640	478	162	655	489	166	1002	262	740	1032	270	762	
Bus	24	15	9	24	15	9	47	8	39	48	8	40	
A5-6	75	56	19	131	97	34	162	42	120	138	36	102	
LRT (Pimisi)	72	54	18	126	94	32	155	41	114	132	35	97	
Bus	3	2	1	5	3	2	7	1	6	6	1	5	
A11-12	90	67	23	129	96	33	214	55	159	194	50	144	
LRT (Pimisi)	87	65	22	124	93	31	204	53	151	186	49	137	
Bus	3	2	1	5	3	2	10	2	8	9	2	7	
A7-8	371	275	96	228	169	59	408	105	303	542	140	402	
LRT (Pimisi)	358	267	91	220	164	56	390	102	288	518	136	382	
Bus	13	8	5	8	5	3	18	3	15	24	4	20	
F5-7	32	24	8	71	53	18	59	15	44	42	11	31	
LRT (Pimisi)	31	23	8	68	51	17	57	15	42	40	11	29	
Bus	1	1	0	3	2	1	2	0	2	2	0	2	
LRT	1551	1158	393	1681	1255	426	2534	663	1871	2566	674	1892	
Bus	57	36	21	62	39	23	118	20	98	119	20	99	

Based on the City's EMME model, it is estimated that 12% of the eastbound LRT trips originate from the Trillium Line, and 12% of the westbound LRT trips are destined to the Trillium Line, transferring at Bayview Station. Based on the trips in the above table, approximately 140 trips would arrive from and 50 trips would depart to the Trillium Line in the AM peak hour, while in the PM peak hour approximately 80 trips would arrive from and 225 trips would depart to the Trillium Line.

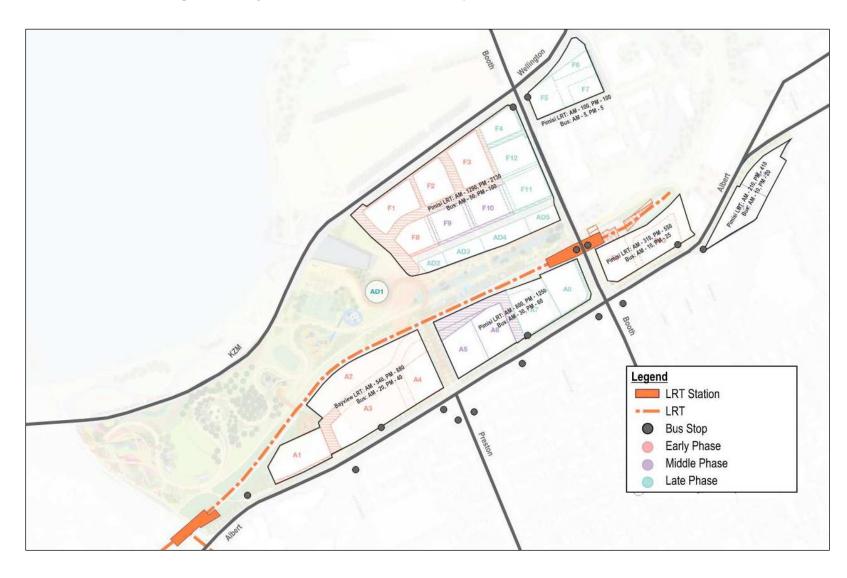


Figure 23: Projected LeBreton Flats Transit Trip Distribution – Full Buildout

The full build-out of the LeBreton Flats development is expected to generate approximately 3,230 LRT trips in the AM peak hour and 5,100 trips in the PM peak hour. These trips are weighted slightly more towards trips leaving LeBreton Flats than trips entering LeBreton Flats. It is important to note that not all new riders will be on the Confederation Line LRT at the same time. For example, in the morning peak hour at LeBreton Flats there will be 1,255 new eastbound riders boarding the LRT, and 1,160 new eastbound riders departing the LRT. Therefore, the net increase in LRT riders is not 2,415 riders, it is somewhere between 1158 and 1255 riders depending which section of the LRT is reviewed. With the current Confederation Line capacity of 10,700 passengers per hour one way, the trips generated by LeBreton Flats would represent approximately 11% of eastbound and 4% of westbound capacity in the morning, and 6% of eastbound and 17% of westbound capacity in the afternoon. It is worth noting the City is expecting an increase in planned capacity of the Confederation Line to 36,000 passengers per hour by 2031, and 48,000 passengers per hour at ultimate build out⁵, and that at the time of the development of the Confederation Line Environmental Assessment the LeBreton Flats redevelopment was a known entity and our understanding is that it was included in the development of the planned future Confederation Line capacity. The City's 2031 EMME model projects 28,146 eastbound passengers on the Confederation Line in the morning peak hour, which includes riders from LeBreton Flats. With a capacity of 36,000 passengers per hour, 28,146 passengers would be at 78% capacity, indicating the Confederation Line can comfortably accommodate the increases in passengers from the full build-out of the LeBreton Flats development.

The full build-out of the LeBreton Flats development is expected to generate approximately 140 northbound and 50 southbound Trillium Line trips in the AM peak hour, and 80 northbound and 225 southbound trips in the PM peak hour. With an estimated capacity of 2,100 passengers per hour per direction, the trips generated by LeBreton Flats would represent approximately 7% of northbound capacity and 2% of southbound capacity in the morning, and 4% of northbound capacity and 11% of southbound capacity in the afternoon.

The full build-out of the LeBreton Flats development is expected to generate approximately 120 bus trips in the AM peak hour and 240 in the PM peak hour. These trips are split between trips into LeBreton Flats and trips out of LeBreton Flats. Assuming a similar transit plan and bus routings to the existing plan shown in Table 2, it can be expected that the additional trips to buses will be distributed as follows:

- Eastbound AM (includes buses to Gatineau): 32 buses per hour = 1 new rider per bus.
- Westbound AM (includes buses from Gatineau): 47 buses per hour = 1 new rider per 2 buses.
- Eastbound PM: 47 buses per hour = 1 new rider per 2 buses.
- Westbound PM: 32 buses per hour = 3 new riders per bus.

4.7.2 Transit Priority

Given that the fully grade separated Confederation Line bisects the LeBreton Flats development lands transit travel times should be unimpeded. Additionally, both the Trillium Line and the proposed West Gatineau Tramway are approximately a 10-minute walk from the centre of the LeBreton Flats development lands. Therefore, additional bus transit priority measures are not required as part of this study.

⁵ https://www.octranspo.com/en/ready-for-rail/o_train_confederation_line_system_faqs





4.8 Review of Network Concept

With respect to the City's TIA Guidelines, this module determines if changes to the Transportation Master Plan (TMP) concepts for auto or transit networks are required to accommodate the development-generated travel demands.

The purpose of this section of the TIA is to outline any changes to the existing or planned transportation network that are required due to added traffic from a new development. It is important to recognize that the existing arterial road network, serving the area of LeBreton Flats, is generally approaching or over capacity during the peak periods. The LeBreton Plan of Subdivision proposes a plan that will rely heavily on active modes and the transit network to service the community's transportation needs. Nonetheless, there will be an additional automotive demand placed on the surrounding arterial network as a result of the proposed development.

Creating additional roadway capacity within the central area of Ottawa is not considered a priority for the Transportation Master Plan, nor is it practical in a constrained urban environment such as in the vicinity of LeBreton Flats. Therefore, the assumption is that additional roadway capacity will not be provided as part of this development. That being said, the addition of a vibrant central urban community as proposed in the Plan of Subdivision will increase the City's active and transit mode share, helping to achieve TMP mode share objectives. Further, the Plan of Subdivision supports the City's objectives of increasing the number of roadways that can be defined as "Complete Streets" (e.g. interior streets designed to prioritize active modes, recommended removal of on-street parking on Wellington Street). Providing a supportive environment for pedestrians and cyclists will improve the capacity of the active transportation network and help to improve active mode share.

The Plan of Subdivision does deviate from the TMP in that it has eliminated the proposed Preston Street extension between Albert Street and Wellington Street for auto modes. The link is proposed to remain for active modes only. This deviation is described in detail in past studies for the development.

4.9 Intersection Design

This module determines the design elements of study area intersections required to accommodate the proposed development, consistent with the City's Complete Streets philosophy and MMLOS practices.

4.9.1 Intersection Control

All study area intersections are currently traffic signal controlled and are more or less fully built out. Based on the City's policies, goals and objectives, additional road widenings or intersection control is not supported. However, several area intersections will continue to operate over capacity. The following are some possible measures, previously identified in **Section 4.2.2**. that may provide a reduction in vehicular demand at these intersections, without requiring additional roadway infrastructure:

Potential Mitigation Measures that Prioritize all Modes of Transportation

Transit Projects

- When the future West Gatineau Tramway is in place across the Portage Bridge in 2028, trips
 across the Portage Bridge may be shifted away from the vehicular mode and towards the transit
 mode. It is recommended that the City monitor traffic volumes at the intersection of Wellington
 Street and Portage Bridge and respond to a reduction in vehicular traffic accordingly.
- Confederation Line Stage 2 LRT (with improved reliability extension drawing additional trips when open in 2027).

Active Mobility Projects



Further improvements to vehicular LOS may be observed as trips are shifted to alternative modes of transportation or alternative corridors as major projects within the National Capital Region are completed. Projects that may reduce the vehicular demand in the study area include:

- Improvements to cycling facilities within LeBreton Flats and along Albert Street into downtown (mode shift to cycling). This would improve operations at most intersections in the study area, with a specific benefit to Booth Street at Albert Street, Albert Street at Preston Street and Parkdale Avenue at Scott Street.
- Construction of the **Chief William Commanda multi-use pathway interprovincial bridge** (mode shift to walking and cycling), has provided an attractive alternative route for pedestrians and cyclists to travel between Ottawa and Gatineau.

4.9.2 Intersection Design

Intersection details are typically not part of plans of subdivisions; however, it is expected that connections to the boundary road network will be designed to the latest standards/guidelines (e.g., adequate turning radii will be provided for trucks, sufficiently long driveway clear throat lengths will be provided, etc.). Intersections are shown to be located at appropriate distances from existing intersections, and signalization is suggested at a minimal number of locations to provide for protected movements to/from the LeBreton Flats development. The approximate location and design of new driveway connections will be refined during the development application process. Nevertheless, the following is a MMLOS analysis for the planned signalized access intersections to/from LeBreton Flats.

Intersection MMLOS Summary

A Multi-Modal Level of Service (MMLOS) assessment was conducted for the boundary intersections on Wellington Street (since Albert Street will be reconstructed separate from this project), to gauge the extent of risk, comfort and stress for active modes and gauge the extent of impedance, delay and reliability for buses and cars. **Table 28** provides an MMLOS summary for existing conditions for all modes, including Pedestrian (PLOS), Bike (BLOS), Transit (TLOS), and Auto (AutoLOS) at signalized intersections. Target MMLOS values were identified in Table 14 and are identified at the bottom of each street in the table. **Table 28** summarizes the projected background intersection MMLOS with planned network improvements, as outlined in **Section 3.1.3**. **Table 29** summarizes the intersection MMLOS with the full build-out of the LeBreton Flats development. This includes minimal changes to the roadway cross-sections, however it does involve the addition of new approaches to intersections on the south side of Wellington Street. The detailed assessment is included as **Appendix F**.

One important note regarding the PLOS and BLOS is that this review focuses on existing city streets, and planned improvements. Therefore, it does not accurately reflect the robust segregated pathway network that is included as part of the Plan of Subdivision. This pathway network will allow active transportation users to avoid travelling on busy vehicular corridors such as Wellington Street and Booth Street, providing them with a level of risk, comfort and stress that would be comparable to a LOS 'A'.

			_		
Major Street	Cross Street	PLOS	BLOS	TLOS	AutoLOS
	Vimy Place	С	С	-	А
Mallington	Booth	С	Α	С	С
Wellington	Lett	С	В	-	Α
	Target	Α	В	E	Е

Table 28: Intersection MMLOS – Existing LOS



Major Street Cross Street PLOS BLOS TLOS AutoLOS Vimy Place С С Α С Broad В _ Α С D Wellington Booth Α D Lett С В _ Α Target Α В Ε Ε

Table 29: Intersection MMLOS - Future LOS

As shown in Table 28 and Table 29, study area intersections on Wellington Street generally do not meet PLOS targets but meet BLOS, TLOS, and AutoOS targets. Takeaways regarding the Intersection MMLOS are noted below.

Pedestrian LOS

- The removal of the existing parking lanes on Wellington Street bas identified in **Section 4.3.3** would benefit pedestrians as it reduces their crossing distance.
- The only existing intersections without zebra stripe hi-visibility markings are Wellington Street at Vimy Place and Wellington Street at Broad Street. It is recommended that this be rectified once Vimy Place and Broad Street are extended to the south side of Wellington Street as part of the development.
- Any new intersections, such as Albert Street at Access 1, should implement zebra stripe hi-vis markings.
- The implementation of leading pedestrian intervals (LPIs) at intersections that operate well is recommended, such as at Booth Street at Chaudière, Wellington Street at Vimy Place, Albert Street / Scott Street at Bayview Station Road, Albert Street at City Centre Avenue and Wellington Street at Lett Street.
- The implementation of No Right-Turn-on-Red provisions at intersection that operate well is also recommended.
- As noted above, a robust network of multi-use pathways is proposed as part of the Plan of Subdivision, including a recently-built east-west pathway along the north side of the Confederation Line. This pathway provides pedestrians with a more comfortable, safer route through the area, and will ultimately connect to facilities further east on Wellington Street and Albert Street.

Bicycle LOS

- Where protected intersections are provided, and intersection operations allow for it, leading bike intervals should be provided alongside the LPIs. These features in addition to a cycle track, can raise the BLOS to LOS 'A' at Vimy Place, Broad Street, and Lett Street.
- As noted above, a robust network of multi-use pathways is proposed as part of the Plan of Subdivision, including a recently built east-west pathway along the north side of the Confederation Line. This pathway provides cyclists with a more comfortable, safer route through the area, and will ultimately connect to facilities further east on Wellington Street and Albert Street.

Transit LOS

- Transit LOS is not considered to be too concerning, as LRT access along this corridor should help supersede the need for improvements to increase transit LOS targets.
- Low TLOS is mainly attributed to vehicle movements experiencing long delays, which impact
 bus travel time/reliability. There is a slight decrease in TLOS and AutoLOS at Wellington /
 Booth in future conditions from LOS 'C' to 'D', which is still acceptable.



Auto LOS

 The Auto LOS exceeds the target at all intersections under existing and future conditions, operating with acceptable LOS during peak periods.

The impact of these suggestions on MMLOS scoring are shown in the table below.

Table 30: Intersection MMLOS, Conceptual LOS

Major Street	Cross Street	PLOS	BLOS	TLOS	AutoLOS
	Vimy Place	С	Α	-	Α
	Broad	С	Α	-	Α
Wellington	Booth	С	Α	D	D
	Lett	С	Α	-	Α
	Target	Α	В	Ε	Ε

There are minor improvements to the PLOS scoring that are not captured by the overall grade letters. The most significant improvements to PLOS will come with further reducing the number of vehicular lanes and reducing the signal cycle length, which may be challenging given the traffic volumes on this corridor. Protected intersections and crossrides, if implemented at Vimy Place, Broad, and Lett, are shown to benefit BLOS and should be considered by the City in the future.



5. CONCLUSION AND RECOMMENDATION

The future community of LeBreton Flats has the potential to be a showcase for future urban development in Canada. As with any urban development of this caliber, there is both enormous potential and significant challenges. It is important to understand the value of the site, as failure to do so may unreasonably deem some elements as challenges and miss the opportunity to undertake proper trade-off analysis, therefore unnecessarily compromising the full potential of the site.

This Transportation Impact Assessment followed the City of Ottawa TIA Guidelines to assess and evaluate the potential benefits and impacts that are anticipated to City of Ottawa roadways as part of the LeBreton Flats development. The full development is anticipated to generate approximately 5,600 person trips in the weekday morning peak hour, and 8,900 person trips in the weekday afternoon peak hour. The development is targeting aggressive modal splits for site generated traffic, including 15% auto driver trips, 5% auto passenger, 60% transit trips and 20% active transportation trips. This results in an expected increase in peak hour vehicle traffic onto adjacent roadways in the order of 840 vehicles per hour in the morning and 1,330 vehicles per hour in the afternoon.

Potential measures that may improve the performance of study area intersections while prioritizing active modes include the construction of the West Gatineau Tramway, completion of the Stage 2 LRT extension and improvements to cycling facilities on Albert Street / Scott Street. The proposed Preston Street extension from the City's Transportation Master Plan is proposed to remain for active modes of transportation only, as shown in past studies for the development.

It is important to note that not all decisions related to this development need to be made at this time due to the size of the LeBreton Flats development (e.g., "conditional approval" can be offered), as there will be ample opportunities for refinement to the transportation analysis as each parcel of land is developed and undergoes its own TIA process, including submission for approval. It should also be noted that given the significant timelines for the ultimate build-out of this project, it is important to recognize that travel patterns will change as projects like the Stage 2 Confederation Line LRT extension, West Gatineau Tramway, the downtown transit loop, and potentially other projects, such as a sixth crossing of the Ottawa River, are designed and constructed.

While it is difficult to provide a detailed TDM Implementation Program at this time given that this TIA is for the entire site, it is recommended that specific TDM initiatives be given further consideration as each development phase or site move forward. That being said, potential TDM measures that can be implemented across LeBreton Flats have been identified in **Section 4.5** and are recommended for consideration, which includes some physical measures, travel surveys, and monitoring programs.





APPENDIX A: City of Ottawa TIA – Screening Form



City of Ottawa 2017 TIA Guidelines Screening Form

1. Description of Proposed Development

Municipal Address	
Description of Location	LeBreton Flats
Land Use Classification	Residential, commercial, office, hotel
Development Size (units)	4,448 residential units
Development Size (m²)	19,756m² commercial, 47,263m² office, 14,346m² hotel
Number of Accesses and Locations	9 new vehicular roadway accesses
Phase of Development	Phases 1 - 3
Buildout Year	2030 (Phase 1), 2040 (Phase 2), 2050 (Phase 3)

If available, please attach a sketch of the development or site plan to this form.

2. Trip Generation Trigger

Considering the Development's Land Use type and Size (as filled out in the previous section), please refer to the Trip Generation Trigger checks below.

Land Use Type	Minimum Development Size (60 trips)
Single-Detached ¹	60 units
Multi-Use Family (Low-Rise) 1	90 units
Multi-Use Family (High-Rise) 1	150 units
Office ²	1,400 square meters (m²)
Industrial ²	7,000 m²
Fast-food restaurant or coffee shop ²	110 m²
Destination retail ²	1800 m²
Gas station or convenience market ²	90 m²

^{*} If the development has a land use type other than what is presented in the table above, estimates of person-trip generation may be made based on average trip generation characteristics represented in the current edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual.

If the proposed development size is greater than the sizes identified above, <u>the Trip Generation</u> <u>Trigger is satisfied.</u>

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3. Location Triggers

	Yes	No
Does the development propose a new driveway to a boundary street that is designated as part of the City's Transit Priority, Rapid Transit or Cross-Town Bikeways Networks?	X	
Is the development in a Design Priority Area (DPA), Transit-Oriented Development (TOD) zone, or Protected Major Transit Station Area (PMTSA)?*	X	

^{*}DPA and TOD are identified in the City of Ottawa Official Plan (DPA in Section 2.5.1 and Schedules A and B; TOD in Annex 6). See Chapter 4 for a list of City of Ottawa Planning and Engineering documents that support the completion of TIA). PMTSAs are identified in Schedule C1 - Protected Major Transit Station Areas (PMTSA).

If any of the above questions were answered with 'Yes,' the Location Trigger is satisfied.

4. Safety Triggers

	Yes	No
Are posted speed limits on a boundary street are 80 km/hr or greater?		X
Are there any horizontal/vertical curvatures on a boundary street limits sight lines at a proposed driveway?	X	
Is the proposed driveway within the area of influence of an adjacent traffic signal or roundabout (i.e. within 300 m of intersection in rural conditions, or within 150 m of intersection in urban/ suburban conditions)?	X	
Is the proposed driveway within auxiliary lanes of an intersection?	X	
Does the proposed driveway make use of an existing median break that serves an existing site?	X	
Is there is a documented history of traffic operations or safety concerns on the boundary streets within 500 m of the development?	X	
Does the development include a drive-thru facility?		X

If any of the above questions were answered with 'Yes,' the Safety Trigger is satisfied.

5. Summary

	Yes	No
Does the development satisfy the Trip Generation Trigger?	X	
Does the development satisfy the Location Trigger?	X	
Does the development satisfy the Safety Trigger?	X	

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If none of the triggers are satisfied, the TIA Study is complete. If one or more of the triggers is satisfied, the TIA Study must continue into the next stage (Screening and Scoping).

APPENDIX B: City of Ottawa - Traffic Count and Signal Timing Data

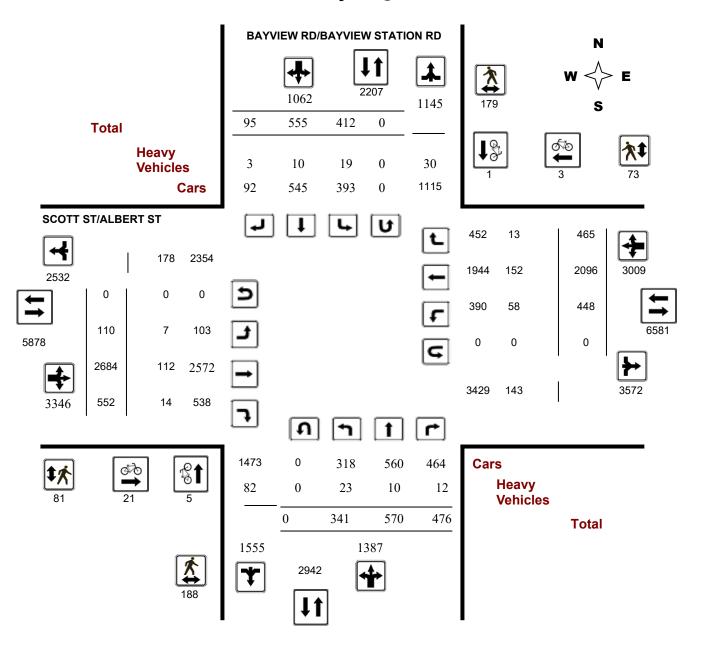


Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date:Wednesday, March 08, 2023WO No:40839Start Time:07:00Device:Miovision

Full Study Diagram



June 5, 2024 Page 1 of 11

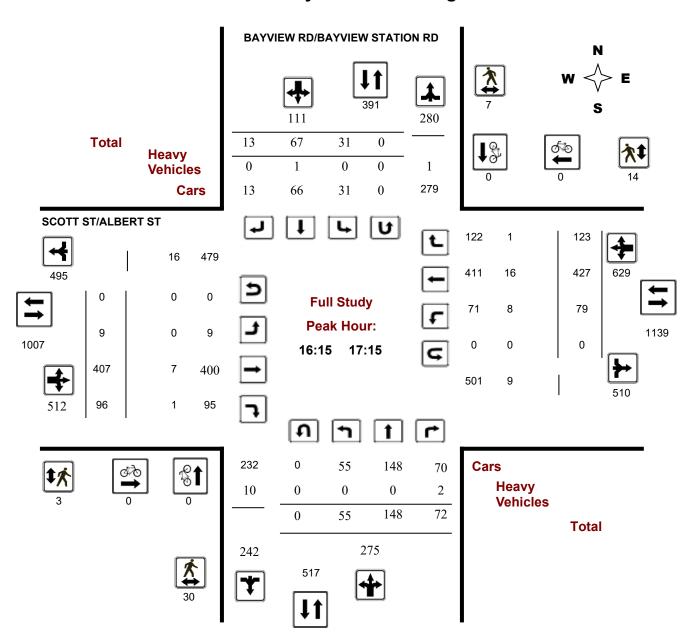


Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839
Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



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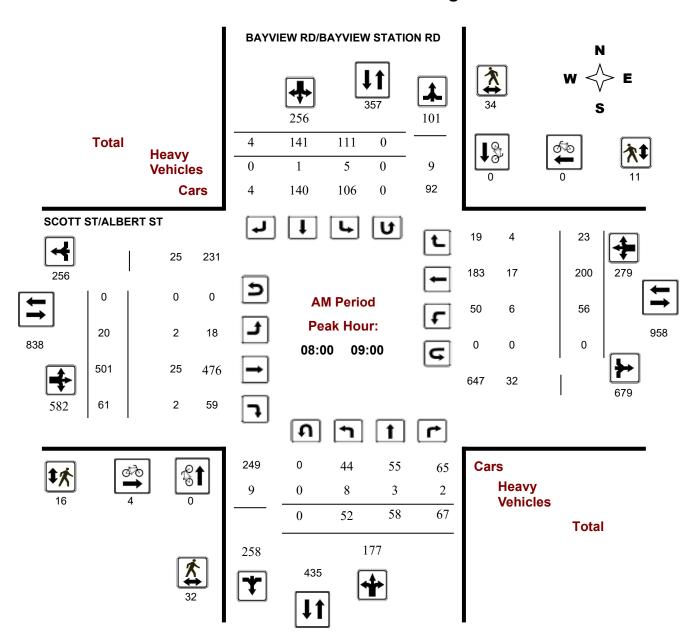


Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839
Start Time: 07:00 Device: Miovision

AM Period Peak Hour Diagram



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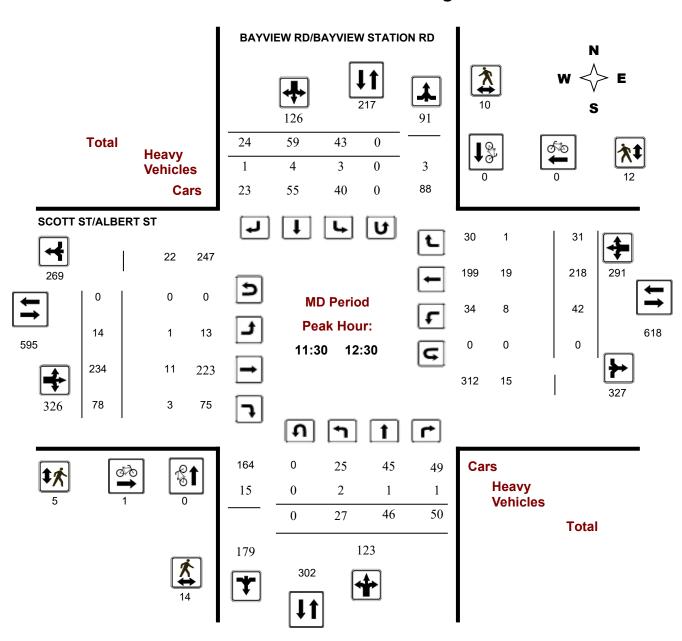


Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839
Start Time: 07:00 Device: Miovision

MD Period Peak Hour Diagram



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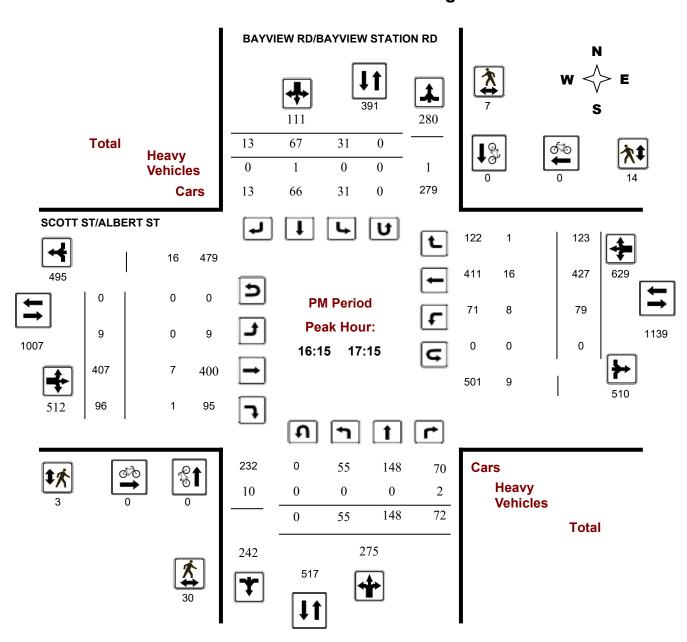


Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839
Start Time: 07:00 Device: Miovision

PM Period Peak Hour Diagram



June 5, 2024 Page 5 of 11



Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Wednesday, March 08, 2023 Total Observed U-Turns AADT Factor

Northbound: 0 Southbound: 0

Eastbound: 0 Westbound: 0

1.00

BAYVIEW RD/BAYVIEW STATION RD SCOTT ST/AI BERT ST

	BAY	VIEVV	KD/B	AYVIE	VV 517	ATION	ΚD				50	2011	51/AL	BEKI	51				
	No	rthbou	nd		So	uthbou	ınd			Е	astbou	ınd		٧	/estbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	25	24	49	98	66	86	6	158	256	12	314	38	364	35	144	20	199	563	819
08:00 09:00	52	58	67	177	111	141	4	256	433	20	501	61	582	56	200	23	279	861	1294
09:00 10:00	36	39	59	134	53	57	5	115	249	19	294	63	376	47	168	28	243	619	868
11:30 12:30	27	46	50	123	43	59	24	126	249	14	234	78	326	42	218	31	291	617	866
12:30 13:30	44	40	47	131	23	39	12	74	205	15	243	47	305	57	201	32	290	595	800
15:00 16:00	42	107	63	212	42	38	16	96	308	9	329	72	410	52	344	113	509	919	1227
16:00 17:00	55	156	76	287	29	70	10	109	396	13	369	89	471	85	427	125	637	1108	1504
17:00 18:00	60	100	65	225	45	65	18	128	353	8	400	104	512	74	394	93	561	1073	1426
Sub Total	341	570	476	1387	412	555	95	1062	2449	110	2684	552	3346	448	2096	465	3009	6355	8804
U Turns				0				0	0				0				0	0	0
Total	341	570	476	1387	412	555	95	1062	2449	110	2684	552	3346	448	2096	465	3009	6355	8804
EQ 12Hr	474	792	662	1928	573	771	132	1476	3404	153	3731	767	4651	623	2913	646	4183	8833	12238
Note: These v	alues a	re calcul	lated by	/ multiply	ying the	totals b	y the a _l	opropriate	e expans	ion fact	tor.			1.39					
AVG 12Hr	474	792	662	1928	573	1011	173	1476	3404	153	3731	767	4651	623	2913	646	4183	8833	12238
Note: These v	olumes	are calc	culated	by multi _l	plying th	ne Equiv	alent 1	2 hr. tota	ls by the	AADT	factor.			1.00					
AVG 24Hr	621	1038	867	2526	751	1324	227	1934	4459	200	4888	1005	6093	816	3816	846	5480	11571	16032
Note: These v	olumes	are calc	culated	by multi _l	plying th	ne Avera	ige Dai	ly 12 hr. 1	totals by	12 to 2	4 expan	sion fac	tor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

Footbound

BAYVIEW RD/BAYVIEW STATION RD

Couthbound

Morthbound

SCOTT ST/ALBERT ST

Moothound

Northbound So							uthbou	ound East					astbound We				ıd			
Time Pe	eriod	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 0	07:15	5	7	7	19	5	9	0	14	33	4	62	7	73	8	29	1	38	111	144
07:15 0	07:30	3	3	7	13	13	21	1	35	48	1	63	8	72	10	22	5	37	109	157
07:30 0	07:45	9	7	19	35	28	24	2	54	89	2	96	8	106	8	33	5	46	152	241
07:45 0	00:80	8	7	16	31	20	32	3	55	86	5	93	15	113	9	60	9	78	191	277
08:00 0	08:15	8	7	19	34	23	33	0	56	90	3	116	11	130	16	38	7	61	191	281
08:15 0	08:30	11	10	20	41	41	43	2	86	127	6	142	13	161	18	45	4	67	228	355
08:30 0	08:45	13	22	16	51	27	34	0	61	112	3	109	16	128	14	61	6	81	209	321
09:00 0	09:15	9	6	21	36	26	14	3	43	79	6	87	17	110	11	53	6	70	180	259
09:15 0	09:30	14	13	15	42	10	14	0	24	66	8	82	12	102	13	40	6	59	161	227
09:30 0	09:45	7	10	14	31	10	17	2	29	60	3	59	12	74	11	33	5	49	123	183
11:30 1	11:45	4	8	10	22	13	15	5	33	55	3	45	11	59	16	50	3	69	128	183
11:45 1	12:00	10	14	13	37	13	18	4	35	72	2	74	24	100	7	49	8	64	164	236
12:00 1	12:15	5	12	16	33	9	13	8	30	63	4	58	21	83	8	55	9	72	155	218
12:15 1	12:30	8	12	11	31	8	13	7	28	59	5	57	22	84	11	64	11	86	170	229
12:30 1	12:45	11	8	5	24	6	7	2	15	39	2	58	14	74	9	48	9	66	140	179
12:45 1	13:00	13	6	11	30	7	9	3	19	49	2	68	11	81	8	45	8	61	142	191
13:00 1	13:15	9	10	13	32	4	9	3	16	48	4	54	9	67	23	58	10	91	158	206
17:30 1	17:45	11	21	21	53	13	17	3	33	86	2	88	31	121	12	97	30	139	260	346
17:45 1	18:00	18	12	22	52	15	14	6	35	87	3	118	23	144	15	97	19	131	275	362
08:45 0	09:00	20	19	12	51	20	31	2	53	104	8	134	21	163	8	56	6	70	233	337
09:45 1	10:00	6	10	9	25	7	12	0	19	44	2	66	22	90	12	42	11	65	155	199
13:15 1	13:30	11	16	18	45	6	14	4	24	69	7	63	13	83	17	50	5	72	155	224
15:00 1	15:15	8	20	12	40	11	5	5	21	61	0	86	20	106	6	73	24	103	209	270
15:15 1	15:30	21	25	17	63	15	11	3	29	92	7	75	19	101	18	89	26	133	234	326
15:30 1	15:45	7	28	21	56	11	11	5	27	83	1	81	15	97	17	87	31	135	232	315
15:45 1	16:00	6	34	13	53	5	11	3	19	72	1	87	18	106	11	95	32	138	244	316
16:00 1	16:15	15	39	16	70	10	21	4	35	105	5	72	21	98	28	112	23	163	261	366
16:15 1	16:30	15	43	14	72	9	13	4	26	98	3	109	15	127	10	110	35	155	282	380
16:30 1	16:45	13	38	27	78	3	16	0	19	97	0	81	28	109	25	110	38	173	282	379
16:45 1	17:00	12	36	19	67	7	20	2	29	96	5	107	25	137	22	95	29	146	283	379
17:00 1	17:15	15	31	12	58	12	18	7	37	95	1	110	28	139	22	112	21	155	294	389
17:15 1	17:30	16	36	10	62	5	16	2	23	85	2	84	22	108	25	88	23	136	244	329
Total:		341	570	476	1387	412	555	95	1062	2449	110	2684	552	3346	448	2096	465	3009	6355	8,804

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

BAYVIEW RD/BAYVIEW STATION RD SCOTT ST/ALBERT ST

	DAIVILV	KU/DATVIEW 3	IATION KD	30	OII SI/ALDE	(131	
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	2	0	2	2
07:30 07:45	0	0	0	1	0	1	1
07:45 08:00	2	1	3	4	0	4	7
08:00 08:15	0	0	0	2	0	2	2
08:15 08:30	0	0	0	0	0	0	0
08:30 08:45	0	0	0	1	0	1	1
09:00 09:15	0	0	0	2	0	2	2
09:15 09:30	0	0	0	2	0	2	2
09:30 09:45	0	0	0	1	0	1	1
11:30 11:45	0	0	0	1	0	1	1
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	0	0	0	0
12:45 13:00	0	0	0	0	0	0	0
13:00 13:15	0	0	0	0	0	0	0
17:30 17:45	0	0	0	1	0	1	1
17:45 18:00	1	0	1	1	0	1	2
08:45 09:00	0	0	0	1	0	1	1
09:45 10:00	0	0	0	0	0	0	0
13:15 13:30	0	0	0	1	0	1	1
15:00 15:15	1	0	1	1	0	1	2
15:15 15:30	1	0	1	0	1	1	2
15:30 15:45	0	0	0	0	2	2	2
15:45 16:00	0	0	0	0	0	0	0
16:00 16:15	0	0	0	0	0	0	0
16:15 16:30	0	0	0	0	0	0	0
16:30 16:45	0	0	0	0	0	0	0
16:45 17:00	0	0	0	0	0	0	0
17:00 17:15	0	0	0	0	0	0	0
17:15 17:30	0	0	0	0	0	0	0
Total	5	1	6	21	3	24	30

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Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume

BAYVIEW RD/BAYVIEW STATION RD

SCOTT ST/ALBERT ST

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	1	1	2	1	0	1	3
07:15 07:30	4	6	10	0	0	0	10
07:30 07:45	5	3	8	1	2	3	11
07:45 08:00	8	9	17	3	1	4	21
08:00 08:15	6	9	15	6	1	7	22
08:15 08:30	13	12	25	4	4	8	33
08:30 08:45	10	6	16	2	4	6	22
09:00 09:15	4	5	9	1	1	2	11
09:15 09:30	2	6	8	1	1	2	10
09:30 09:45	1	1	2	1	0	1	3
11:30 11:45	4	3	7	1	1	2	9
11:45 12:00	1	2	3	1	2	3	6
12:00 12:15	6	4	10	1	6	7	17
12:15 12:30	3	1	4	2	3	5	9
12:30 12:45	1	9	10	3	2	5	15
12:45 13:00	2	6	8	4	0	4	12
13:00 13:15	1	1	2	1	1	2	4
17:30 17:45	12	11	23	5	6	11	34
17:45 18:00	18	14	32	7	2	9	41
08:45 09:00	3	7	10	4	2	6	16
09:45 10:00	7	5	12	2	2	4	16
13:15 13:30	0	5	5	4	4	8	13
15:00 15:15	2	7	9	7	0	7	16
15:15 15:30	6	11	17	6	1	7	24
15:30 15:45	1	5	6	1	1	2	8
15:45 16:00	9	16	25	5	1	6	31
16:00 16:15	14	2	16	2	4	6	22
16:15 16:30	5	3	8	1	2	3	11
16:30 16:45	9	1	10	1	2	3	13
16:45 17:00	10	0	10	0	7	7	17
17:00 17:15	6	3	9	1	3	4	13
17:15 17:30	14	5	19	2	7	9	28
Total	188	179	367	81	73	154	521

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Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

BAYVIEW RD/BAYVIEW STATION RD

SCOTT ST/ALBERT ST

	N	orthbo	und		Sc	uthbou	nd			Е	astbour	nd		We	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	0	1	1	0	0	0	0	1	0	4	0	4	2	6	1	9	13	14
07:15 07:30	0	0	0	0	0	1	0	1	1	0	2	0	2	2	1	0	3	5	6
07:30 07:45	0	2	0	2	0	0	0	0	2	1	3	0	4	3	3	0	6	10	12
07:45 08:00	0	0	0	0	1	0	0	1	1	1	6	1	8	0	8	3	11	19	20
08:00 08:15	1	0	1	2	0	0	0	0	2	0	6	0	6	2	7	2	11	17	19
08:15 08:30	0	1	0	1	0	0	0	0	1	0	4	0	4	1	6	0	7	11	12
08:30 08:45	0	2	1	3	2	0	0	2	5	1	9	0	10	1	1	2	4	14	19
09:00 09:15	2	0	0	2	0	0	0	0	2	0	5	0	5	2	2	0	4	9	11
09:15 09:30	6	2	0	8	0	0	0	0	8	1	5	0	6	3	8	0	11	17	25
09:30 09:45	2	2	0	4	3	0	0	3	7	0	6	0	6	3	5	1	9	15	22
11:30 11:45	0	0	1	1	1	1	1	3	4	0	1	1	2	2	3	0	5	7	11
11:45 12:00	0	0	0	0	1	2	0	3	3	1	4	1	6	3	7	1	11	17	20
12:00 12:15	1	1	0	2	1	0	0	1	3	0	3	1	4	1	5	0	6	10	13
12:15 12:30	1	0	0	1	0	1	0	1	2	0	3	0	3	2	4	0	6	9	11
12:30 12:45	0	0	0	0	0	0	0	0	0	0	4	1	5	0	6	0	6	11	11
12:45 13:00	1	0	1	2	0	0	0	0	2	0	5	0	5	2	3	1	6	11	13
13:00 13:15	0	0	0	0	1	0	0	1	1	0	3	1	4	1	5	0	6	10	11
17:30 17:45	0	0	1	1	0	0	0	0	1	0	3	0	3	1	2	0	3	6	7
17:45 18:00	0	0	0	0	1	0	0	1	1	0	3	0	3	2	5	1	8	11	12
08:45 09:00	7	0	0	7	3	1	0	4	11	1	6	2	9	2	3	0	5	14	25
09:45 10:00	1	0	0	1	0	1	0	1	2	1	7	2	10	2	7	0	9	19	21
13:15 13:30	0	0	0	0	0	0	0	0	0	0	2	1	3	1	4	0	5	8	8
15:00 15:15	0	0	1	1	0	1	1	2	3	0	1	1	2	1	10	0	11	13	16
15:15 15:30	0	0	0	0	4	1	0	5	5	0	2	0	2	2	5	0	7	9	14
15:30 15:45	1	0	1	2	0	0	0	0	2	0	3	1	4	4	6	0	10	14	16
15:45 16:00	0	0	0	0	0	0	0	0	0	0	2	0	2	1	5	0	6	8	8
16:00 16:15	0	0	2	2	0	0	0	0	2	0	2	0	2	3	7	0	10	12	14
16:15 16:30	0	0	0	0	0	0	0	0	0	0	0	1	1	1	4	0	5	6	6
16:30 16:45	0	0	1	1	0	1	0	1	2	0	2	0	2	2	5	1	8	10	12
16:45 17:00	0	0	0	0	0	0	0	0	0	0	3	0	3	2	3	0	5	8	8
17:00 17:15	0	0	1	1	0	0	0	0	1	0	2	0	2	3	4	0	7	9	10
17:15 17:30	0	0	0	0	1	0	1	2	2	0	1	0	1	1	2	0	3	4	6
Total: None	23	10	12	45	19	10	3	32	77	7	112	14	133	58	152	13	223	356	433

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Turning Movement Count - Study Results

BAYVIEW RD/BAYVIEW STATION RD @ SCOTT ST/ALBERT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40839

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total

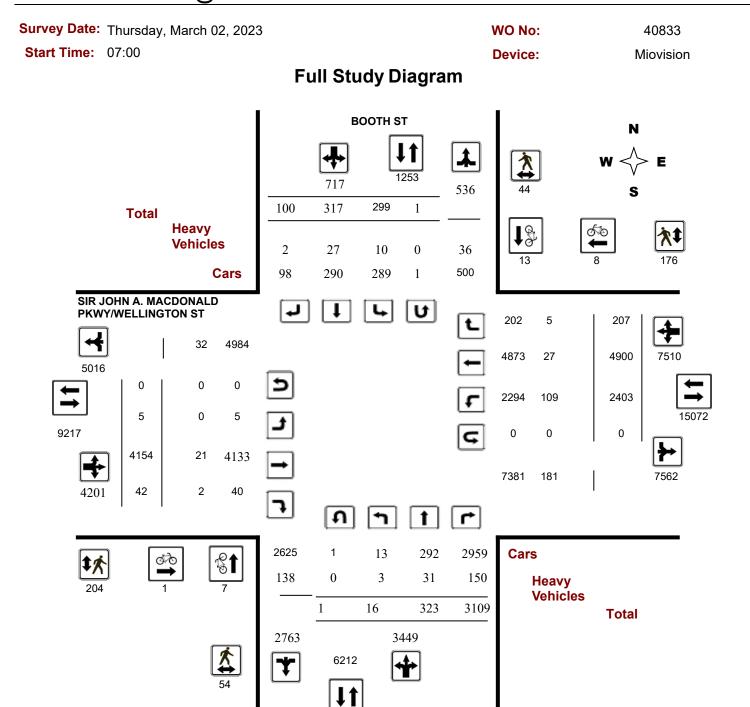
	ВА	YVIEW RD/BAYV	IEW STATION	SCOTT	ST/ALBERT ST	
Time I	Period	RD Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:45	10:00	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
To	otal	0	0	0	0	0

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Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST



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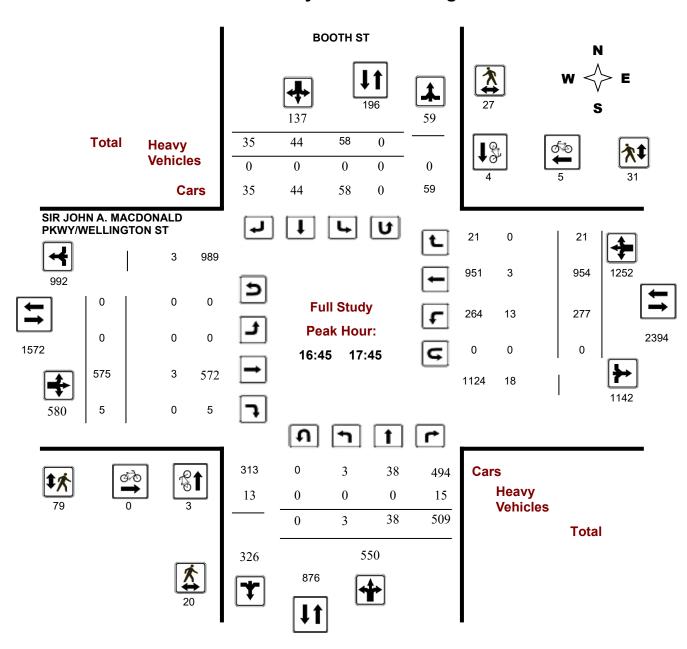


Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Survey Date: Thursday, March 02, 2023 WO No: 40833
Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram

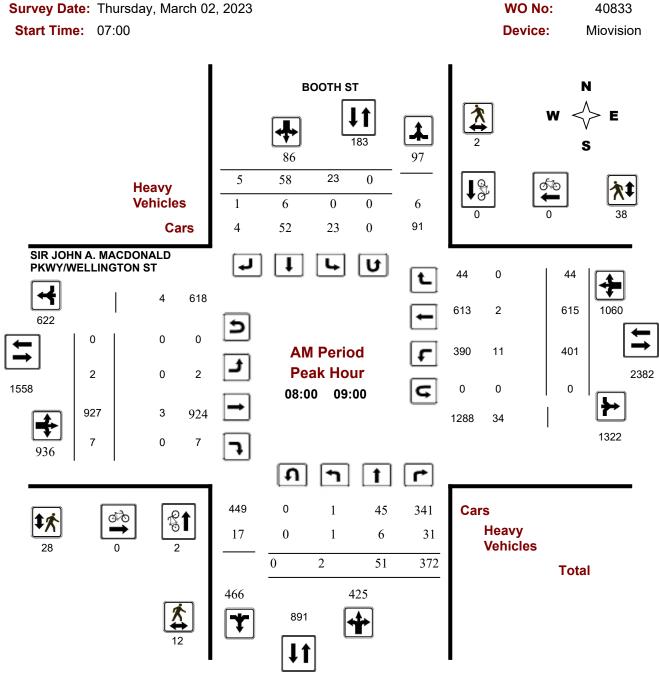


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Turning Movement Count - Peak Hour Diagram

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST



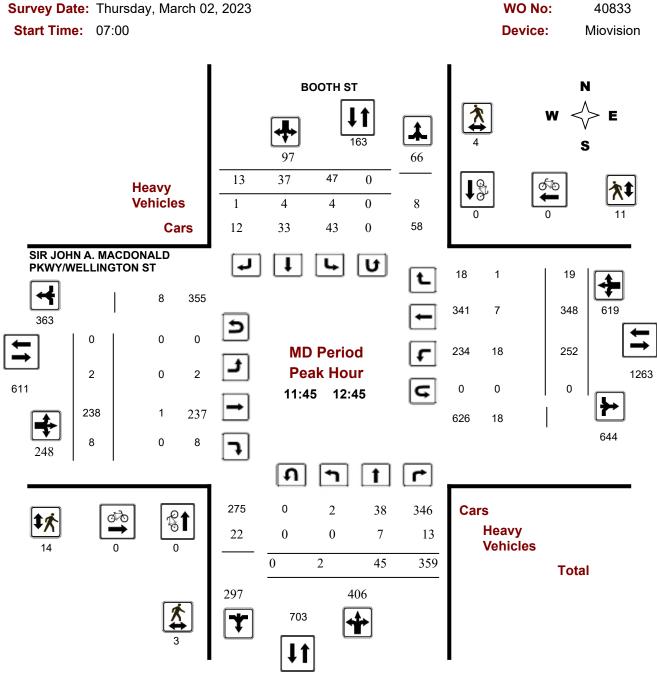
Comments

2023-Mar-20 Page 2 of 9



Turning Movement Count - Peak Hour Diagram

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST



Comments

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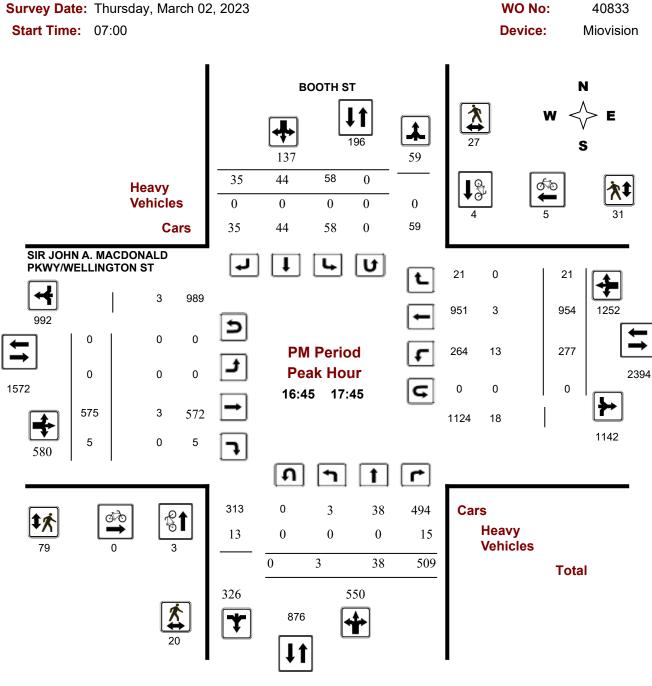


WO No:

40833

Turning Movement Count - Peak Hour Diagram

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST



Comments

2023-Mar-20 Page 3 of 9



Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Survey Date: Thursday, March 02, 2023 WO No: 40833

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Thursday, March 02, 2023 Total Observed U-Turns AADT Factor

Northbound: 1 Southbound: 1

1.00

1.31

Eastbound: () Westbound: ()

BOOTH ST SIR JOHN A. MACDONALD

			BC	OTH	51								/ELLIN						
	Nor	thbou	ınd		So	uthbou	ınd			Е	astbou	ınd		V	Vestbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	3	37	333	373	17	29	4	50	423	0	633	4	637	396	512	46	954	1591	2014
08:00 09:00	2	51	372	425	23	58	5	86	511	2	927	7	936	401	615	44	1060	1996	2507
09:00 10:00	2	49	357	408	26	21	2	49	457	0	552	8	560	319	382	23	724	1284	1741
11:30 12:30	2	48	371	421	38	33	12	83	504	2	239	4	245	262	343	16	621	866	1370
12:30 13:30	0	42	365	407	47	38	3	88	495	0	235	6	241	216	340	22	578	819	1314
15:00 16:00	2	29	422	453	50	57	24	131	584	0	530	5	535	239	832	11	1082	1617	2201
16:00 17:00	2	24	332	358	51	39	16	106	464	0	499	6	505	299	1051	28	1378	1883	2347
17:00 18:00	3	43	557	603	47	42	34	123	726	1	539	2	542	271	825	17	1113	1655	2381
Sub Total	16	323	3109	3448	299	317	100	716	4164	5	4154	42	4201	2403	4900	207	7510	11711	15875
U Turns				1				1	2				0				0	0	2
Total	16	323	3109	3449	299	317	100	717	4166	5	4154	42	4201	2403	4900	207	7510	11711	15877
EQ 12Hr	22	449	4322	4794	416	441	139	997	5791	7	5774	58	5839	3340	6811	288	10439	16278	22069
Note: These v	alues ar	re calcu	ılated by	/ multiply	ying the	totals b	y the a	opropriate	e expans	ion fact	tor.			1.39					
AVG 12Hr	22	449	4322	4794	416	577	182	997	5791	7	5774	58	5839	3340	6811	288	10439	16278	22069
Note: These v	olumes	are cal	culated	by multi _l	plying th	ne Equiv	/alent 1	2 hr. total	ls by the	AADT	factor.			1.00					
AVG 24Hr	29	588	5662	6280	545	756	238	1306	7586	9	7564	76	7649	4375	8922	377	13675	21324	28910

Note: These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor.

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Survey Date: Thursday, March 02, 2023 WO No: 40833

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

BOOTH ST

SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

		No	rthbou	und		Sc	uthbou	nd			Е	astbour	nd		We	estbour	nd			
Time Perio	d L	T	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:1	5 C)	9	69	78	5	8	1	14	92	0	92	1	93	103	117	13	233	326	418
07:15 07:3	0 1	1	6	85	92	6	8	2	16	108	0	134	3	137	96	132	9	237	374	482
07:30 07:4	5 C)	12	67	79	3	10	0	13	92	0	178	0	178	98	128	16	242	420	512
07:45 08:0	0 2	2	10	112	125	3	3	1	7	132	0	229	0	229	99	135	8	242	471	603
08:00 08:1	5 0)	8	79	87	5	12	2	19	106	1	224	0	225	91	137	15	243	468	574
08:15 08:3	0 1	1	13	96	110	7	16	3	26	136	0	237	3	240	108	168	8	284	524	660
08:30 08:4	5 1	1	20	105	126	6	15	0	21	147	0	234	1	235	106	170	9	285	520	667
08:45 09:0	0 0)	10	92	102	5	15	0	20	122	1	232	3	236	96	140	12	248	484	606
09:00 09:1	5 0)	13	78	91	9	11	0	20	111	0	170	0	170	89	125	10	224	394	505
09:15 09:3	0 0)	14	98	112	7	2	0	9	121	0	155	1	156	70	86	3	159	315	436
09:30 09:4	5 2	2	7	81	90	3	5	1	9	99	0	119	1	120	83	80	7	170	290	389
09:45 10:0	0 0)	15	100	115	7	3	1	11	126	0	108	6	114	77	91	3	171	285	411
11:30 11:4		_	13	89	102	6	6	1	13	115	0	59	2	61	62	76	2	140	201	316
11:45 12:0	0 1	1	13	84	98	13	11	5	29	127	1	64	0	65	77	86	5	168	233	360
12:00 12:1)	11	89	100	7	11	3	21	121	1	58	1	60	52	101	5	158	218	339
12:15 12:3	_	-	11	109	121	12	5	3	20	141	0	58	1	59	71	80	4	155	214	355
12:30 12:4	_	+	10	77	87	15	10	2	27	114	0	58	6	64	52	81	5	138	202	316
12:45 13:0			10	93	103	14	7	0	21	124	0	65	0	65	55	90	7	152	217	341
13:00 13:1	_		17	89	106	8	12	1	21	127	0	54	0	54	58	81	5	144	198	325
13:15 13:3	_	+	5	106	111	10	9	0	19	130	0	58	0	58	51	88	5	144	202	332
15:00 15:1	_	+	9	146	155	22	20	7	49	204	0	127	0	127	46	157	1	204	331	535
15:15 15:3		_	12	109	122	15	19	11	46	168	0	98	2	100	60	221	2	283	383	551
15:30 15:4		-	3	95	99	6	8	4	18	117	0	169	3	172	70	203	5	278	450	567
15:45 16:0			5	72	77	7	10	2	19	96	0	136	0	136	63	251	3	317	453	549
16:00 16:1		-	8	55	63	11	13	8	32	95	0	90	2	92	68	252	8	328	420	515
16:15 16:3			7	78	85	4	12	2	18	103	0	118	0	118	83	294	4	381	499	602
16:30 16:4	4-		4	80	86	19	6	1	26	112	0	159	1	160	70	227	9	306	466	578
16:45 17:0			5	119	124	17	8	5	30	154	0	132	3	135	78	278	7	363	498	652
17:00 17:1	4		7	111	118	11	16	8	35	153	0	164	2	166	69	254	9	332	498	651
17:15 17:3	_	+	16	159	178	13	9	17	39	217	0	135	0	135	65	208	3	276	411	628
17:30 17:4		_	10	120	130	17	11	5	33	163	0	144	0	144	65	214	2	281	425	588
17:45 18:0		_	10	167	177	6	6	4	16	193	1	96	0	97	72	149	3	224	321	514
Total:	1	b	323	3109	3449	299	317	100	717	4166	5	4154	42	4201	2403	4900	207	7510	11711	15,877

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Survey Date: Thursday, March 02, 2023 WO No: 40833

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

BOOTH ST

SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

					VV 1/VVLLLING I		_
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	0	0	0	0
07:30 07:45	0	0	0	0	0	0	0
07:45 08:00	0	1	1	0	0	0	1
08:00 08:15	0	0	0	0	0	0	0
08:15 08:30	1	0	1	0	0	0	1
08:30 08:45	1	0	1	0	0	0	1
08:45 09:00	0	0	0	0	0	0	0
09:00 09:15	0	0	0	0	0	0	0
09:15 09:30	0	0	0	0	0	0	0
09:30 09:45	0	0	0	0	0	0	0
09:45 10:00	0	0	0	0	0	0	0
11:30 11:45	0	0	0	0	0	0	0
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	0	0	0	0
12:45 13:00	0	0	0	0	0	0	0
13:00 13:15	0	0	0	0	1	1	1
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	0	1	1	1	1	2	3
15:15 15:30	0	1	1	0	0	0	1
15:30 15:45	0	3	3	0	0	0	3
15:45 16:00	0	2	2	0	0	0	2
16:00 16:15	0	0	0	0	0	0	0
16:15 16:30	2	0	2	0	0	0	2
16:30 16:45	0	0	0	0	0	0	0
16:45 17:00	0	1	1	0	2	2	3
17:00 17:15	1	1	2	0	1	1	3
17:15 17:30	1	0	1	0	0	0	1
17:30 17:45	1	2	3	0	2	2	5
17:45 18:00	0	1	1	0	1	1	2
Total	7	13	20	1	8	9	29

March 20, 2023 Page 5 of 8



Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Survey Date: Thursday, March 02, 2023 WO No: 40833

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume

BOOTH ST

SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	2	0	2	0	6	6	8
07:15 07:30	1	1	2	3	2	5	7
07:30 07:45	2	0	2	3	7	10	12
07:45 08:00	0	0	0	4	8	12	12
08:00 08:15	4	0	4	6	7	13	17
08:15 08:30	0	1	1	2	14	16	17
08:30 08:45	5	0	5	9	12	21	26
08:45 09:00	3	1	4	11	5	16	20
09:00 09:15	0	0	0	0	8	8	8
09:15 09:30	0	0	0	2	1	3	3
09:30 09:45	0	0	0	3	2	5	5
09:45 10:00	0	0	0	3	2	5	5
11:30 11:45	1	0	1	1	0	1	2
11:45 12:00	0	0	0	4	3	7	7
12:00 12:15	1	1	2	2	6	8	10
12:15 12:30	2	1	3	4	2	6	9
12:30 12:45	0	2	2	4	0	4	6
12:45 13:00	0	0	0	2	0	2	2
13:00 13:15	1	1	2	1	2	3	5
13:15 13:30	2	0	2	4	1	5	7
15:00 15:15	0	0	0	5	1	6	6
15:15 15:30	0	0	0	2	4	6	6
15:30 15:45	1	0	1	7	8	15	16
15:45 16:00	1	1	2	10	6	16	18
16:00 16:15	3	1	4	6	5	11	15
16:15 16:30	0	3	3	8	9	17	20
16:30 16:45	2	2	4	8	12	20	24
16:45 17:00	4	9	13	21	9	30	43
17:00 17:15	5	9	14	24	7	31	45
17:15 17:30	5	3	8	17	9	26	34
17:30 17:45	6	6	12	17	6	23	35
17:45 18:00	3	2	5	11	12	23	28
Total	54	44	98	204	176	380	478

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Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Survey Date: Thursday, March 02, 2023 WO No: 40833

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

BOOTH ST

SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

	N	orthbo	und		Sc	uthbou	ınd			E	astbour	nd		We	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	0	8	14	0	0	0	1	15	0	0	0	1	6	1	1	16	17	16
07:15 07:30	0	1	3	9	1	0	0	2	11	0	0	0	1	5	1	0	10	11	11
07:30 07:45	0	1	3	8	1	0	0	3	11	0	2	0	4	4	2	1	13	17	14
07:45 08:00	1	0	5	8	0	0	0	0	8	0	0	0	2	2	1	0	8	10	9
08:00 08:15	0	1	9	13	0	1	0	2	15	0	0	0	1	2	1	0	12	13	14
08:15 08:30	1	3	7	17	0	2	1	6	23	0	0	0	3	4	1	0	12	15	19
08:30 08:45	0	2	11	16	0	1	0	3	19	0	2	0	2	2	0	0	15	17	18
08:45 09:00	0	0	4	9	0	2	0	2	11	0	1	0	1	3	0	0	8	9	10
09:00 09:15	0	2	6	12	1	1	0	4	16	0	0	0	0	3	0	0	10	10	13
09:15 09:30	0	2	9	15	0	1	0	3	18	0	4	0	6	3	2	0	18	24	21
09:30 09:45	1	1	2	7	0	1	0	2	9	0	0	1	2	1	0	0	3	5	7
09:45 10:00	0	0	10	14	0	1	0	1	15	0	1	1	2	2	0	0	13	15	15
11:30 11:45	0	3	7	16	0	2	0	5	21	0	0	0	1	4	1	0	12	13	17
11:45 12:00	0	2	1	7	1	1	0	4	11	0	1	0	3	3	2	0	8	11	11
12:00 12:15	0	4	3	12	1	1	0	7	19	0	0	0	1	4	1	1	10	11	15
12:15 12:30	0	1	7	13	2	0	1	4	17	0	0	0	3	5	2	0	16	19	18
12:30 12:45	0	0	2	10	0	2	0	2	12	0	0	0	2	6	2	0	10	12	12
12:45 13:00	0	1	5	9	0	1	0	2	11	0	0	0	0	2	0	0	7	7	9
13:00 13:15	0	4	2	13	0	3	0	7	20	0	1	0	1	4	0	0	7	8	14
13:15 13:30	0	0	6	9	2	3	0	5	14	0	0	0	2	0	2	0	10	12	13
15:00 15:15	0	0	4	11	0	1	0	1	12	0	0	0	0	6	0	0	10	10	11
15:15 15:30	0	2	8	13	0	0	0	2	15	0	0	0	1	3	1	0	12	13	14
15:30 15:45	0	0	2	8	0	1	0	2	10	0	2	0	3	5	1	1	11	14	12
15:45 16:00	0	0	3	7	0	0	0	0	7	0	1	0	1	4	0	0	8	9	8
16:00 16:15	0	0	1	7	0	1	0	2	9	0	2	0	3	5	1	1	10	13	11
16:15 16:30	0	0	3	5	0	1	0	1	6	0	1	0	3	1	2	0	7	10	8
16:30 16:45	0	0	3	7	1	0	0	1	8	0	0	0	0	4	0	0	8	8	8
16:45 17:00	0	0	4	8	0	0	0	0	8	0	0	0	0	4	0	0	8	8	8
17:00 17:15	0	0	5	9	0	0	0	0	9	0	0	0	0	4	0	0	9	9	9
17:15 17:30	0	0	4	6	0	0	0	0	6	0	2	0	4	2	2	0	10	14	10
17:30 17:45	0	0	2	5	0	0	0	0	5	0	1	0	2	3	1	0	7	9	7
17:45 18:00	0	1	1	5	0	0	0	1	6	0	0	0	0	3	0	0	4	4	5
Total: None	3	31	150	322	10	27	2	75	397	0	21	2	55	109	27	5	322	377	387

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Turning Movement Count - Study Results

BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST

Survey Date: Thursday, March 02, 2023 WO No: 40833

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total

		воотн	ST	SIR JOHN A. MACDONALD				
Time	Period	Northbound U-Turn Total	Southbound U-Turn Total	PKWY/W Eastbound U-Turn Total	/ELLINGTON ST Westbound U-Turn Total	Total		
07:00	07:15	0	0	0	0	0		
07:15	07:30	0	0	0	0	0		
07:30	07:45	0	0	0	0	0		
07:45	08:00	1	0	0	0	1		
08:00	08:15	0	0	0	0	0		
08:15	08:30	0	0	0	0	0		
08:30	08:45	0	0	0	0	0		
08:45	09:00	0	0	0	0	0		
09:00	09:15	0	0	0	0	0		
09:15	09:30	0	0	0	0	0		
09:30	09:45	0	0	0	0	0		
09:45	10:00	0	0	0	0	0		
11:30	11:45	0	0	0	0	0		
11:45	12:00	0	0	0	0	0		
12:00	12:15	0	0	0	0	0		
12:15	12:30	0	0	0	0	0		
12:30	12:45	0	0	0	0	0		
12:45	13:00	0	0	0	0	0		
13:00	13:15	0	0	0	0	0		
13:15	13:30	0	0	0	0	0		
15:00	15:15	0	0	0	0	0		
15:15	15:30	0	1	0	0	1		
15:30	15:45	0	0	0	0	0		
15:45	16:00	0	0	0	0	0		
16:00	16:15	0	0	0	0	0		
16:15	16:30	0	0	0	0	0		
16:30	16:45	0	0	0	0	0		
16:45	17:00	0	0	0	0	0		
17:00	17:15	0	0	0	0	0		
17:15	17:30	0	0	0	0	0		
17:30	17:45	0	0	0	0	0		
17:45	18:00	0	0	0	0	0		
To	otal	1	1	0	0	2		

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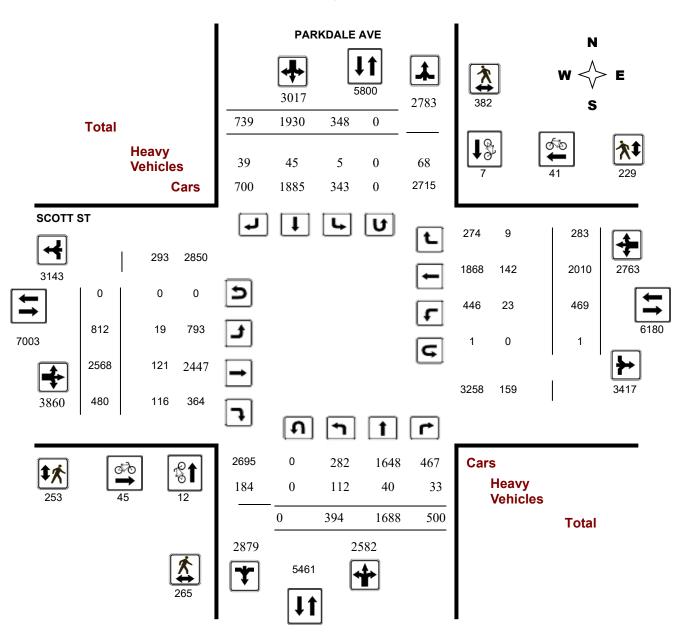
Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study Diagram



June 3, 2024 Page 1 of 11



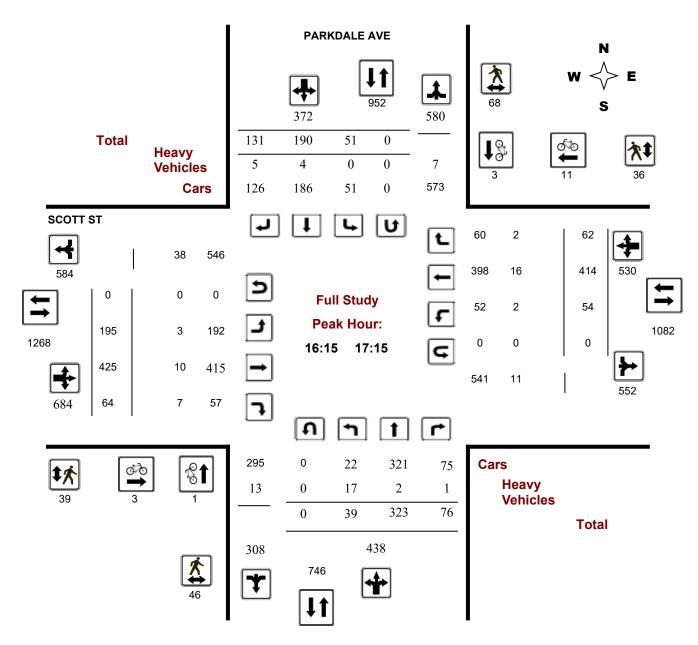
Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



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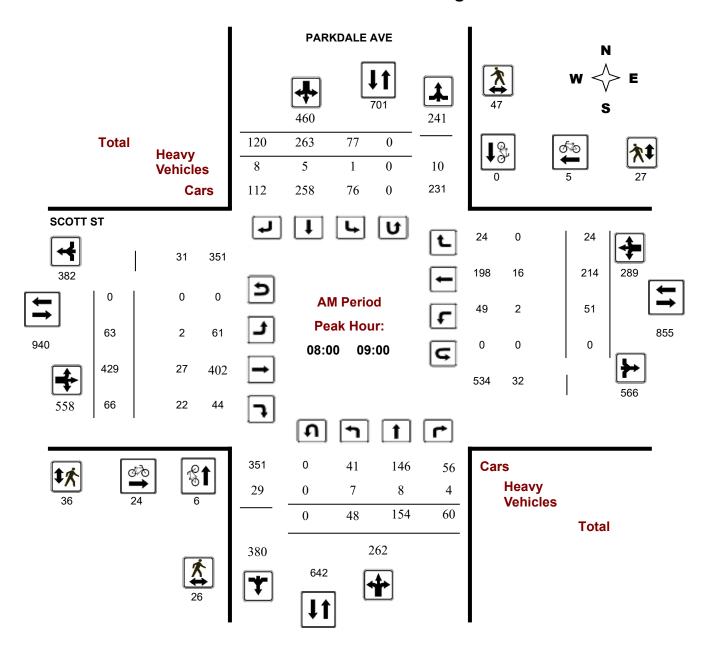
Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

AM Period Peak Hour Diagram



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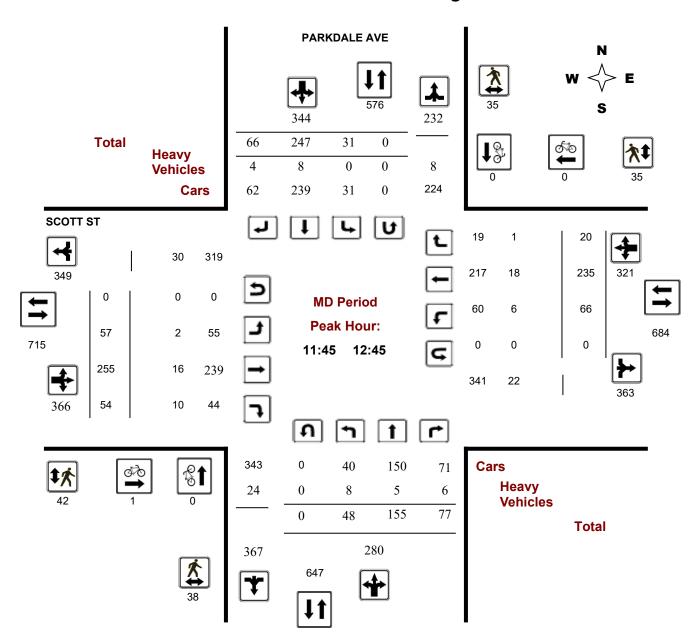
Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

MD Period Peak Hour Diagram



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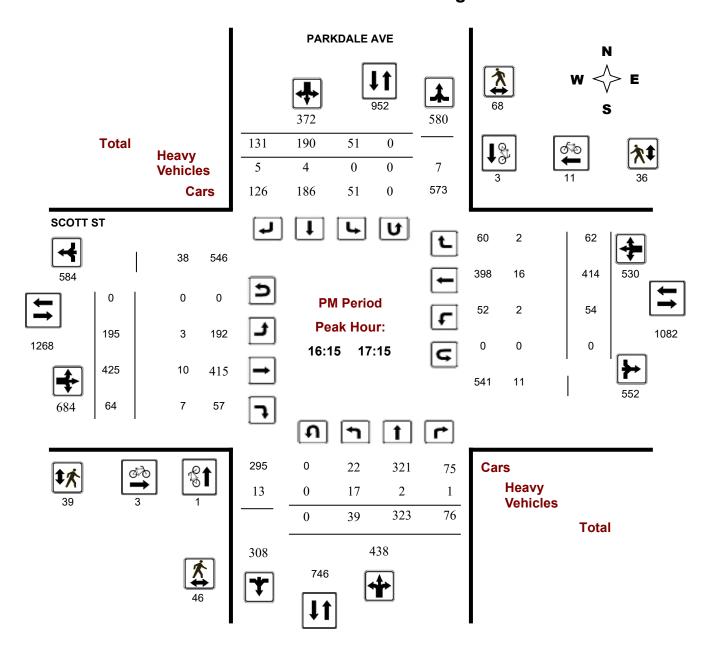
Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

PM Period Peak Hour Diagram



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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Wednesday, March 08, 2023 Total Observed U-Turns AADT Factor

Northbound: 0 Southbound: 0
Eastbound: 0 Westbound: 1

1.00

PARKDALE AVE SCOTT ST

			1 / 11 11	NUALL	\v_								COTT	01					
	No	rthbou	nd		So	uthbou	und			Е	astbou	ınd		٧	√estbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Tota
07:00 08:00	51	177	55	283	31	353	101	485	768	49	266	34	349	41	141	25	207	556	1324
08:00 09:00	48	154	60	262	77	263	120	460	722	63	429	66	558	51	214	24	289	847	1569
09:00 10:00	63	153	61	277	44	230	84	358	635	71	269	49	389	40	172	20	232	621	1256
11:30 12:30	47	156	72	275	31	238	65	334	609	52	236	51	339	69	213	19	301	640	1249
12:30 13:30	46	178	65	289	24	223	52	299	588	56	233	66	355	78	186	30	294	649	1237
15:00 16:00	53	205	60	318	45	221	87	353	671	154	323	70	547	74	310	54	438	985	1656
16:00 17:00	41	335	71	447	47	210	120	377	824	194	397	77	668	50	399	61	510	1178	2002
17:00 18:00	45	330	56	431	49	192	110	351	782	173	415	67	655	66	375	50	491	1146	1928
Sub Total	394	1688	500	2582	348	1930	739	3017	5599	812	2568	480	3860	469	2010	283	2762	6622	12221
U Turns				0				0	0				0				1	1	1
Total	394	1688	500	2582	348	1930	739	3017	5599	812	2568	480	3860	469	2010	283	2763	6623	12222
EQ 12Hr	548	2346	695	3589	484	2683	1027	4194	7783	1129	3570	667	5365	652	2794	393	3841	9206	16989
Note: These v	alues a	re calcu	lated by	y multiply	ying the	totals b	y the a	ppropriat	e expans	sion fac	tor.			1.39					
AVG 12Hr	548	2346	695	3589	484	3514	1346	4194	7783	1129	3570	667	5365	652	2794	393	3841	9206	16989
Note: These v	olumes	are calc	culated	by multi	plying tl	ne Equiv	alent 1	2 hr. tota	als by the	AADT	factor.			1.00					
AVG 24Hr	718	3073	910	4702	634	4603	1763	5494	10196	1479	4677	874	7028	854	3660	515	5032	12060	22256
Note: These v	olumes	are calc	culated	by multi _l	plying tl	ne Avera	age Dai	ly 12 hr.	totals by	12 to 2	4 expans	sion fac	tor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

PARKDALE AVE

SCOTT ST

	١	lorthbo	und		Sc	uthbou	nd			Е	astbour	nd		W	estboun	nd			
Time Period	l LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:1	5 13	53	19	85	7	80	19	106	191	11	45	10	66	7	25	7	39	105	296
07:15 07:3) 11	42	5	58	4	82	26	112	170	11	55	6	72	7	24	1	32	104	274
07:30 07:4	15	36	13	64	6	108	30	144	208	8	82	6	96	13	33	7	53	149	357
07:45 08:0) 12	46	18	76	14	83	26	123	199	19	84	12	115	14	59	10	83	198	397
08:00 08:1	5 10	44	11	65	28	74	28	130	195	12	90	15	117	12	47	0	59	176	371
08:15 08:3	9	42	15	66	19	78	30	127	193	19	122	20	161	14	45	11	70	231	424
08:30 08:4	5 16	27	11	54	19	58	31	108	162	15	100	13	128	16	60	8	84	212	374
08:45 09:0	13	41	23	77	11	53	31	95	172	17	117	18	152	9	62	5	76	228	400
09:00 09:1	19	50	16	85	16	50	31	97	182	18	71	15	104	11	58	10	79	183	365
09:15 09:3	23	36	18	77	12	56	21	89	166	17	74	13	104	11	44	3	58	162	328
09:30 09:4	5 11	42	11	64	5	61	20	86	150	16	55	10	81	9	35	4	48	129	279
09:45 10:0	10	25	16	51	11	63	12	86	137	20	69	11	100	9	35	3	47	147	284
11:30 11:4	5 11	40	16	67	4	65	16	85	152	12	39	14	65	23	36	6	65	130	282
11:45 12:0) 14	34	25	73	11	55	14	80	153	12	69	12	93	16	52	7	75	168	321
12:00 12:1	5 5	33	20	58	10	58	17	85	143	14	59	11	84	15	57	3	75	159	302
12:15 12:3) 17	49	11	77	6	60	18	84	161	14	69	14	97	15	68	3	86	183	344
12:30 12:4	5 12	39	21	72	4	74	17	95	167	17	58	17	92	20	58	7	85	177	344
12:45 13:0	8 (43	23	74	6	58	9	73	147	10	61	13	84	17	42	8	67	151	298
13:00 13:1	5 15	57	9	81	4	36	16	56	137	16	56	24	96	20	42	7	69	165	302
13:15 13:3	11	39	12	62	10	55	10	75	137	13	58	12	83	21	44	8	73	156	293
15:00 15:1	5 10	59	17	86	16	68	26	110	196	18	70	17	105	16	68	9	93	198	394
15:15 15:3) 22	39	14	75	10	45	17	72	147	51	80	13	144	22	89	8	119	263	410
15:30 15:4	12	75	18	105	8	47	20	75	180	46	86	21	153	21	78	20	119	272	452
15:45 16:0	9	32	11	52	11	61	24	96	148	39	87	19	145	15	75	17	107	252	400
16:00 16:1	5 13	85	17	115	12	63	22	97	212	50	83	31	164	14	88	14	116	280	492
16:15 16:3	12	86	18	116	15	55	26	96	212	49	95	15	159	9	108	17	134	293	505
16:30 16:4	5 9	77	24	110	8	41	38	87	197	49	107	14	170	13	113	13	139	309	506
16:45 17:0	7	87	12	106	12	51	34	97	203	46	112	17	175	14	90	17	121	296	499
17:00 17:1	5 11	73	22	106	16	43	33	92	198	51	111	18	180	18	103	15	136	316	514
17:30 17:4	5 10	79	7	96	11	48	31	90	186	33	99	20	152	11	83	15	110	262	448
17:45 18:0) 14	86	16	116	16	52	18	86	202	41	102	9	152	22	92	8	122	274	476
17:15 17:3	10	92	11	113	6	49	28	83	196	48	103	20	171	15	97	12	124	295	491
Total:	394	1688	500	2582	348	1930	739	3017	5599	812	2568	480	3860	469	2010	283	2763	6623	12,222

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

PARKDALE AVE SCOTT ST

		I AININDALL AV	_		3001131		
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	1	0	1	0	1	1	2
07:30 07:45	0	0	0	1	2	3	3
07:45 08:00	1	0	1	0	0	0	1
08:00 08:15	2	0	2	7	2	9	11
08:15 08:30	0	0	0	4	1	5	5
08:30 08:45	1	0	1	6	1	7	8
08:45 09:00	3	0	3	7	1	8	11
09:00 09:15	0	0	0	1	0	1	1
09:15 09:30	0	0	0	3	0	3	3
09:30 09:45	0	0	0	3	0	3	3
09:45 10:00	0	1	1	2	3	5	6
11:30 11:45	0	1	1	1	2	3	4
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	1	0	1	1
12:45 13:00	0	0	0	0	0	0	0
13:00 13:15	0	0	0	0	0	0	0
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	1	0	1	1	0	1	2
15:15 15:30	0	1	1	0	4	4	5
15:30 15:45	1	0	1	0	0	0	1
15:45 16:00	0	1	1	0	3	3	4
16:00 16:15	0	0	0	2	0	2	2
16:15 16:30	0	1	1	1	1	2	3
16:30 16:45	0	0	0	1	3	4	4
16:45 17:00	1	2	3	0	5	5	8
17:00 17:15	0	0	0	1	2	3	3
17:30 17:45	1	0	1	1	3	4	5
17:45 18:00	0	0	0	1	6	7	7
17:15 17:30	0	0	0	1	1	2	2
Total	12	7	19	45	41	86	105

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume

PARKDALE AVE SCOTT ST

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	6	3	9	1	10	11	20
07:15 07:30	1	12	13	0	3	3	16
07:30 07:45	9	11	20	4	6	10	30
07:45 08:00	16	17	33	14	8	22	55
08:00 08:15	8	17	25	13	8	21	46
08:15 08:30	6	10	16	7	4	11	27
08:30 08:45	7	12	19	10	9	19	38
08:45 09:00	5	8	13	6	6	12	25
09:00 09:15	4	4	8	2	3	5	13
09:15 09:30	2	4	6	2	4	6	12
09:30 09:45	4	6	10	4	3	7	17
09:45 10:00	2	4	6	6	2	8	14
11:30 11:45	2	6	8	4	5	9	17
11:45 12:00	9	11	20	7	5	12	32
12:00 12:15	12	6	18	12	9	21	39
12:15 12:30	8	8	16	14	9	23	39
12:30 12:45	9	10	19	9	12	21	40
12:45 13:00	8	11	19	12	13	25	44
13:00 13:15	4	9	13	9	7	16	29
13:15 13:30	7	10	17	10	6	16	33
15:00 15:15	0	16	16	9	2	11	27
15:15 15:30	3	13	16	8	3	11	27
15:30 15:45	4	13	17	8	6	14	31
15:45 16:00	6	19	25	9	7	16	41
16:00 16:15	10	19	29	10	14	24	53
16:15 16:30	17	18	35	12	8	20	55
16:30 16:45	7	24	31	10	11	21	52
16:45 17:00	14	12	26	8	13	21	47
17:00 17:15	8	14	22	9	4	13	35
17:30 17:45	36	17	53	10	10	20	73
17:45 18:00	19	23	42	7	9	16	58
17:15 17:30	12	15	27	7	10	17	44
Total	265	382	647	253	229	482	1129

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

PARKDALE AVE SCOTT ST

		No	orthbou	und		Sc	uthbou	ınd			Е	astbour	nd		We	estbour	nd			
Time Peri	iod	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:	7:15	4	1	1	6	0	1	2	3	9	2	0	5	7	2	5	1	8	15	24
07:15 07:	7:30	3	2	0	5	0	1	2	3	8	0	3	4	7	0	1	0	1	8	16
07:30 07:	7:45	1	2	2	5	0	2	2	4	9	0	3	2	5	0	2	0	2	7	16
07:45 08	3:00	3	0	6	9	1	0	1	2	11	1	10	5	16	1	7	1	9	25	36
08:00 08	3:15	3	2	1	6	0	2	2	4	10	0	6	3	9	0	7	0	7	16	26
08:15 08:	3:30	0	1	1	2	0	1	1	2	4	0	6	7	13	2	5	0	7	20	24
08:30 08	3:45	2	3	1	6	1	1	3	5	11	2	8	4	14	0	2	0	2	16	27
08:45 09	9:00	2	2	1	5	0	1	2	3	8	0	7	8	15	0	2	0	2	17	25
09:00 09:	9:15	4	2	0	6	0	1	2	3	9	0	3	10	13	1	1	0	2	15	24
09:15 09:	9:30	7	2	4	13	0	2	1	3	16	0	7	5	12	0	7	0	7	19	35
09:30 09:	9:45	2	4	1	7	0	4	3	7	14	1	5	8	14	1	4	0	5	19	33
09:45 10	0:00	2	2	3	7	0	2	1	3	10	1	10	2	13	2	8	1	11	24	34
11:30 11:	1:45	3	2	0	5	0	1	1	2	7	1	2	6	9	1	3	0	4	13	20
11:45 12:	2:00	3	3	3	9	0	2	1	3	12	0	5	2	7	2	2	0	4	11	23
12:00 12:	2:15	1	0	0	1	0	2	1	3	4	0	3	3	6	0	5	1	6	12	16
12:15 12:	2:30	1	2	1	4	0	1	0	1	5	0	3	2	5	2	4	0	6	11	16
12:30 12:	2:45	3	0	2	5	0	3	2	5	10	2	5	3	10	2	7	0	9	19	29
12:45 13	3:00	2	4	1	7	1	4	0	5	12	0	3	3	6	1	4	1	6	12	24
13:00 13	3:15	3	0	0	3	0	1	3	4	7	0	5	6	11	1	5	0	6	17	24
	3:30	3	0	1	4	0	2	0	2	6	1	2	2	5	0	5	0	5	10	16
15:00 15:	5:15	5	1	0	6	1	1	1	3	9	0	1	2	3	0	7	1	8	11	20
	5:30	6	2	0	8	0	1	0	1	9	1	1	1	3	0	8	0	8	11	20
15:30 15:	5:45	4	1	1	6	0	2	1	3	9	1	2	3	6	1	8	0	9	15	24
15:45 16:	6:00	8	0	0	8	0	2	0	2	10	0	2	2	4	0	4	0	4	8	18
16:00 16:	3:15	6	0	1	7	1	0	0	1	8	1	2	5	8	1	5	1	7	15	23
16:15 16:	5:30	3	0	0	3	0	3	0	3	6	0	2	3	5	0	4	1	5	10	16
16:30 16:	6:45	5	1	0	6	0	0	3	3	9	1	3	2	6	0	4	1	5	11	20
	7:00	4	0	1	5	0	1	0	1	6	0	3	2	5	1	5	0	6	11	17
17:00 17:	7:15	5	1	0	6	0	0	2	2	8	2	2	0	4	1	3	0	4	8	16
17:30 17:	7:45	6	0	0	6	0	0	1	1	7	0	3	3	6	1	1	0	2	8	15
17:45 18:	3:00	4	0	1	5	0	1	0	1	6	1	2	1	4	0	4	0	4	8	14
17:15 17:	7:30	4	0	0	4	0	0	1	1	5	1	2	2	5	0	3	0	3	8	13
Total: No	one	112	40	33	185	5	45	39	89	274	19	121	116	256	23	142	9	174	430	704

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Wednesday, March 08, 2023 WO No: 40838

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total PARKDALE AVE SCOTT ST

Time I	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:30	17:45	0	0	0	1	1
17:45	18:00	0	0	0	0	0
17:15	17:30	0	0	0	0	0
To	otal	0	0	0	1	1

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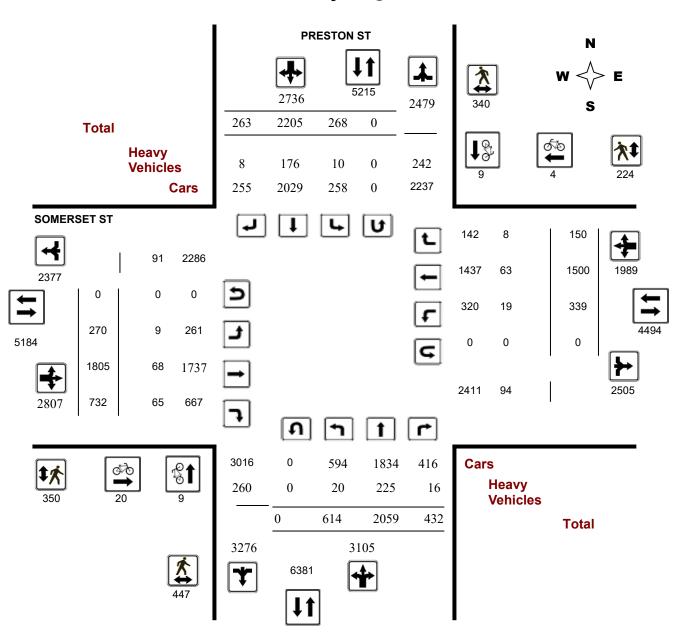


Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404
Start Time: 07:00 Device: Miovision

Full Study Diagram



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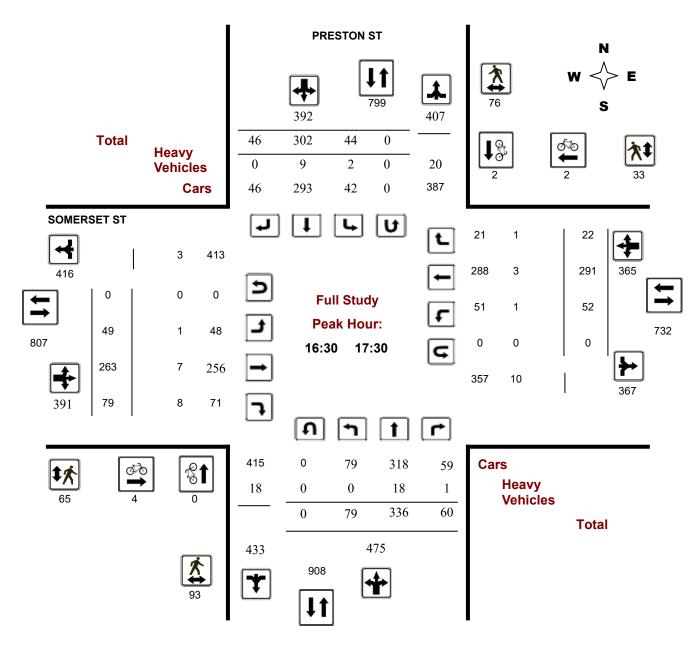
Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



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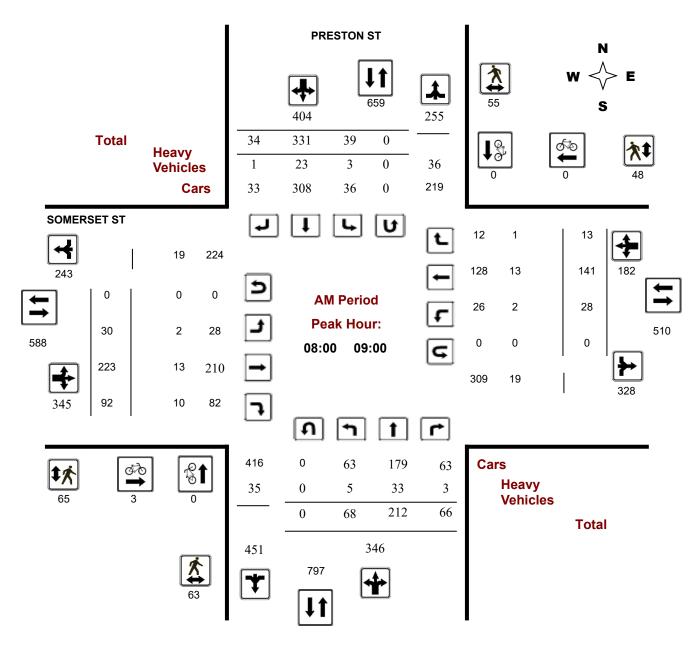
Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

AM Period Peak Hour Diagram



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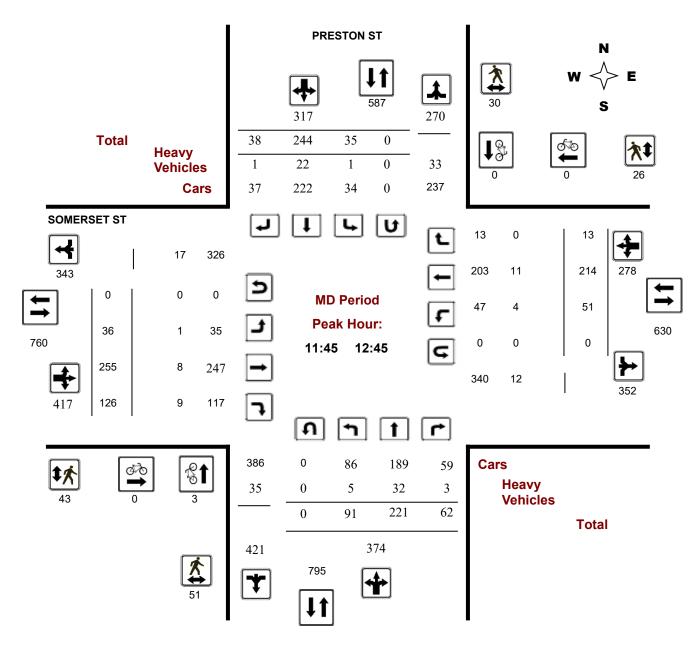
Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

MD Period Peak Hour Diagram



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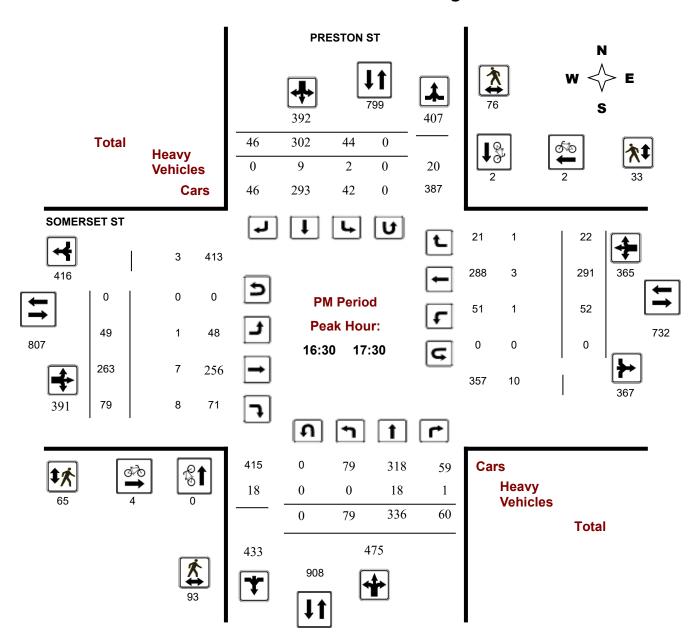
Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

PM Period Peak Hour Diagram



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Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Tuesday, December 19, 2023 Total Observed U-Turns AADT Factor

Northbound: 0 Southbound: 0

Eastbound: 0 Westbound: 0

1.30

PRESTON ST SOMERSET ST

	No	rthbou	nd		So	uthbou	ınd			Е	astboเ	ınd		V	∕estboı	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Tota
07:00 08:00	38	191	28	257	24	349	17	390	647	19	167	79	265	19	84	4	107	372	1019
08:00 09:00	68	212	66	346	39	331	34	404	750	30	223	92	345	28	141	13	182	527	1277
09:00 10:00	65	220	46	331	28	254	28	310	641	20	183	68	271	34	130	14	178	449	1090
11:30 12:30	84	207	59	350	31	245	41	317	667	35	261	135	431	44	219	14	277	708	1375
12:30 13:30	91	215	65	371	31	252	31	314	685	32	221	102	355	56	188	16	260	615	1300
15:00 16:00	98	348	51	497	35	245	34	314	811	43	267	107	417	50	217	32	299	716	1527
16:00 17:00	75	325	57	457	42	291	45	378	835	50	246	61	357	56	298	31	385	742	1577
17:00 18:00	95	341	60	496	38	238	33	309	805	41	237	88	366	52	223	26	301	667	1472
Sub Total	614	2059	432	3105	268	2205	263	2736	5841	270	1805	732	2807	339	1500	150	1989	4796	10637
U Turns				0				0	0				0				0	0	0
Total	614	2059	432	3105	268	2205	263	2736	5841	270	1805	732	2807	339	1500	150	1989	4796	10637
EQ 12Hr	853	2862	600	4316	373	3065	366	3803	8119	375	2509	1017	3902	471	2085	208	2765	6666	14785
Note: These	values a	re calcu	ılated b	y multiply	ying the	totals b	y the a	opropriat	e expans	ion fac	tor.			1.39					
AVG 12Hr	1109	3721	780	5611	485	5220	623	4944	10555	488	3262	1322	5073	612	2711	270	3595	8666	19221
Note: These	volumes	are cal	culated	by multip	plying t	he Equiv	alent 1	2 hr. tota	ls by the	AADT	factor.			1.30					
AVG 24Hr	1453	4875	1022	7350	635	6838	816	6477	13827	639	4273	1732	6646	802	3551	354	4709	11352	25180
Note: These	volumes	are cal	culated	by multip	plying tl	he Avera	age Dai	ly 12 hr.	totals by	12 to 2	4 expan	sion fac	ctor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

PRESTON ST

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments SOMERSET ST

		N	orthbou	und		Sc	uthbou	nd			Е	astbour	nd		We	estboun	ıd			
Time F	Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	07:15	7	42	5	54	4	102	1	107	161	9	37	22	68	1	15	2	18	86	247
07:15	07:30	9	47	5	61	4	71	3	78	139	3	37	17	57	3	14	0	17	74	213
07:30	07:45	10	52	10	72	9	87	5	101	173	0	42	18	60	10	22	1	33	93	266
07:45	08:00	12	50	8	70	7	89	8	104	174	7	51	22	80	5	33	1	39	119	293
08:00	08:15	8	61	18	87	15	89	12	116	203	5	55	19	79	5	36	2	43	122	325
08:15	08:30	16	61	17	94	4	77	10	91	185	12	56	24	92	5	33	4	42	134	319
08:30	08:45	19	44	12	75	11	93	9	113	188	5	60	29	94	7	34	1	42	136	324
08:45	09:00	25	46	19	90	9	72	3	84	174	8	52	20	80	11	38	6	55	135	309
09:00	09:15	11	62	14	87	11	69	3	83	170	4	43	21	68	10	39	1	50	118	288
09:15	09:30	16	56	16	88	5	68	8	81	169	7	47	15	69	8	34	9	51	120	289
09:30	09:45	19	55	11	85	4	58	8	70	155	6	49	18	73	9	21	2	32	105	260
09:45	10:00	19	47	5	71	8	59	9	76	147	3	44	14	61	7	36	2	45	106	253
11:30	11:45	16	31	14	61	2	66	12	80	141	5	58	35	98	11	55	6	72	170	311
17:45	18:00	22	70	18	110	10	46	8	64	174	14	64	23	101	15	40	7	62	163	337
16:30	16:45	14	75	12	101	14	83	12	109	210	16	63	12	91	15	83	4	102	193	403
11:45	12:00	20	62	16	98	8	63	10	81	179	12	73	41	126	14	64	2	80	206	385
12:00	12:15	27	54	15	96	13	58	10	81	177	13	58	30	101	10	52	4	66	167	344
12:15	12:30	21	60	14	95	8	58	9	75	170	5	72	29	106	9	48	2	59	165	335
12:30	12:45	23	45	17	85	6	65	9	80	165	6	52	26	84	18	50	5	73	157	322
12:45	13:00	22	71	20	113	8	59	8	75	188	12	47	26	85	11	48	1	60	145	333
13:00	13:15	28	43	8	79	11	59	5	75	154	8	62	25	95	14	35	3	52	147	301
13:15	13:30	18	56	20	94	6	69	9	84	178	6	60	25	91	13	55	7	75	166	344
15:00	15:15	22	88	13	123	8	53	11	72	195	16	72	30	118	15	52	7	74	192	387
15:15	15:30	23	81	18	122	7	76	9	92	214	7	50	28	85	13	50	8	71	156	370
15:30	15:45	28	96	9	133	10	57	6	73	206	12	69	24	105	16	55	7	78	183	389
15:45	16:00	25	83	11	119	10	59	8	77	196	8	76	25	109	6	60	10	76	185	381
16:00	16:15	24	95	15	134	5	63	11	79	213	10	45	15	70	11	68	12	91	161	374
16:15	16:30	17	82	14	113	9	72	10	91	204	10	60	17	87	18	70	8	96	183	387
16:45	17:00	20	73	16	109	14	73	12	99	208	14	78	17	109	12	77	7	96	205	413
17:00	17:15	29	89	16	134	8	62	15	85	219	11	64	22	97	14	67	6	87	184	403
17:15	17:30	16	99	16	131	8	84	7	99	230	8	58	28	94	11	64	5	80	174	404
17:30	17:45	28	83	10	121	12	46	3	61	182	8	51	15	74	12	52	8	72	146	328
Total:		614	2059	432	3105	268	2205	263	2736	5841	270	1805	732	2807	339	1500	150	1989	4796	10,637

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

PRESTON ST SOMERSET ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	0	0	0	0
07:30 07:45	0	0	0	0	0	0	0
07:45 08:00	0	0	0	1	0	1	1
08:00 08:15	0	0	0	0	0	0	0
08:15 08:30	0	0	0	2	0	2	2
08:30 08:45	0	0	0	0	0	0	0
08:45 09:00	0	0	0	1	0	1	1
9:00 09:15	0	0	0	2	0	2	2
9:15 09:30	0	0	0	0	0	0	0
09:30 09:45	0	1	1	2	0	2	3
9:45 10:00	0	0	0	1	0	1	1
11:30 11:45	0	3	3	1	0	1	4
7:45 18:00	0	0	0	0	0	0	0
6:30 16:45	0	0	0	0	1	1	1
1:45 12:00	0	0	0	0	0	0	0
2:00 12:15	1	0	1	0	0	0	1
2:15 12:30	0	0	0	0	0	0	0
2:30 12:45	2	0	2	0	0	0	2
2:45 13:00	5	0	5	1	0	1	6
3:00 13:15	0	1	1	3	0	3	4
3:15 13:30	0	1	1	0	0	0	1
5:00 15:15	0	0	0	0	0	0	0
5:15 15:30	0	0	0	0	0	0	0
5:30 15:45	1	0	1	0	1	1	2
5:45 16:00	0	1	1	0	0	0	1
16:00 16:15	0	0	0	0	1	1	1
6:15 16:30	0	0	0	0	0	0	0
6:45 17:00	0	0	0	1	0	1	1
17:00 17:15	0	0	0	1	1	2	2
17:15 17:30	0	2	2	2	0	2	4
7:30 17:45	0	0	0	2	0	2	2
Total	9	9	18	20	4	24	42

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Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume

PRESTON ST SOMERSET ST

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	9	3	12	4	5	9	21
07:15 07:30	4	4	8	3	1	4	12
07:30 07:45	8	3	11	4	5	9	20
07:45 08:00	5	6	11	7	4	11	22
08:00 08:15	11	12	23	19	12	31	54
08:15 08:30	25	20	45	21	18	39	84
08:30 08:45	19	17	36	19	15	34	70
08:45 09:00	8	6	14	6	3	9	23
9:00 09:15	3	11	14	7	1	8	22
9:15 09:30	5	4	9	9	3	12	21
9:30 09:45	2	6	8	4	2	6	14
9:45 10:00	7	8	15	10	4	14	29
1:30 11:45	6	5	11	6	4	10	21
7:45 18:00	18	8	26	10	10	20	46
6:30 16:45	25	18	43	18	6	24	67
1:45 12:00	13	14	27	12	7	19	46
2:00 12:15	7	4	11	7	8	15	26
2:15 12:30	12	7	19	8	5	13	32
2:30 12:45	19	5	24	16	6	22	46
2:45 13:00	8	11	19	7	0	7	26
3:00 13:15	10	13	23	12	5	17	40
3:15 13:30	14	3	17	6	5	11	28
5:00 15:15	28	10	38	13	7	20	58
5:15 15:30	30	13	43	6	11	17	60
5:30 15:45	10	11	21	8	8	16	37
5:45 16:00	19	18	37	12	5	17	54
6:00 16:15	16	14	30	23	12	35	65
6:15 16:30	20	14	34	13	13	26	60
6:45 17:00	24	20	44	16	9	25	69
7:00 17:15	26	16	42	13	12	25	67
7:15 17:30	18	22	40	18	6	24	64
7:30 17:45	18	14	32	13	12	25	57
Гotal	447	340	787	350	224	574	1361

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Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

PRESTON ST SOMERSET ST

	N	orthbou	und		Sc	uthbou	ınd			Е	astbour	nd		W	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	9	0	9	0	8	0	8	17	0	1	2	3	0	3	1	4	7	24
07:15 07:30	0	5	1	6	0	7	0	7	13	0	2	1	3	0	0	0	0	3	16
07:30 07:45	0	10	1	11	0	7	1	8	19	0	2	1	3	0	3	0	3	6	25
07:45 08:00	1	6	1	8	0	7	0	7	15	2	3	0	5	0	4	0	4	9	24
08:00 08:15	0	10	1	11	2	4	1	7	18	1	5	4	10	0	3	0	3	13	31
08:15 08:30	2	7	0	9	0	5	0	5	14	0	2	1	3	0	4	0	4	7	21
08:30 08:45	2	7	0	9	0	7	0	7	16	1	4	4	9	1	3	1	5	14	30
08:45 09:00	1	9	2	12	1	7	0	8	20	0	2	1	3	1	3	0	4	7	27
09:00 09:15	0	9	0	9	1	9	0	10	19	0	1	2	3	0	3	0	3	6	25
09:15 09:30	1	8	1	10	0	8	0	8	18	1	0	3	4	1	3	1	5	9	27
09:30 09:45	1	9	0	10	0	5	1	6	16	0	5	1	6	1	3	0	4	10	26
09:45 10:00	2	9	0	11	0	12	0	12	23	0	2	2	4	0	1	2	3	7	30
11:30 11:45	0	6	0	6	0	11	1	12	18	0	0	2	2	1	4	0	5	7	25
17:45 18:00	0	4	0	4	0	2	0	2	6	0	0	3	3	0	0	0	0	3	9
16:30 16:45	0	4	1	5	1	3	0	4	9	1	1	3	5	0	1	0	1	6	15
11:45 12:00	1	4	1	6	0	6	0	6	12	0	3	1	4	1	3	0	4	8	20
12:00 12:15	2	6	0	8	0	4	0	4	12	0	1	3	4	1	1	0	2	6	18
12:15 12:30	1	14	1	16	1	5	1	7	23	0	2	4	6	1	2	0	3	9	32
12:30 12:45	1	8	1	10	0	7	0	7	17	1	2	1	4	1	5	0	6	10	27
12:45 13:00	3	9	1	13	0	4	0	4	17	0	2	3	5	1	4	0	5	10	27
13:00 13:15	1	8	0	9	1	11	0	12	21	0	3	2	5	3	1	0	4	9	30
13:15 13:30	1	11	2	14	1	11	2	14	28	1	4	2	7	0	1	0	1	8	36
15:00 15:15	0	8	0	8	1	2	0	3	11	0	2	2	4	0	0	0	0	4	15
15:15 15:30	0	7	1	8	0	2	0	2	10	0	2	1	3	0	0	0	0	3	13
15:30 15:45	0	4	0	4	0	6	0	6	10	1	5	1	7	1	1	0	2	9	19
15:45 16:00	0	7	0	7	0	2	0	2	9	0	0	3	3	1	1	0	2	5	14
16:00 16:15	0	2	1	3	0	3	1	4	7	0	1	3	4	1	1	1	3	7	14
16:15 16:30	0	4	0	4	0	3	0	3	7	0	5	3	8	2	1	1	4	12	19
16:45 17:00	0	5	0	5	1	5	0	6	11	0	2	1	3	0	0	1	1	4	15
17:00 17:15	0	4	0	4	0	1	0	1	5	0	2	3	5	0	2	0	2	7	12
17:15 17:30	0	5	0	5	0	0	0	0	5	0	2	1	3	1	0	0	1	4	9
17:30 17:45	0	7	0	7	0	2	0	2	9	0	0	1	1	0	2	0	2	3	12
Total: None	20	225	16	261	10	176	8	194	455	9	68	65	142	19	63	8	90	232	687

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Turning Movement Count - Study Results

PRESTON ST @ SOMERSET ST

Survey Date: Tuesday, December 19, 2023 WO No: 41404

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total PRESTON ST SOMERSET ST

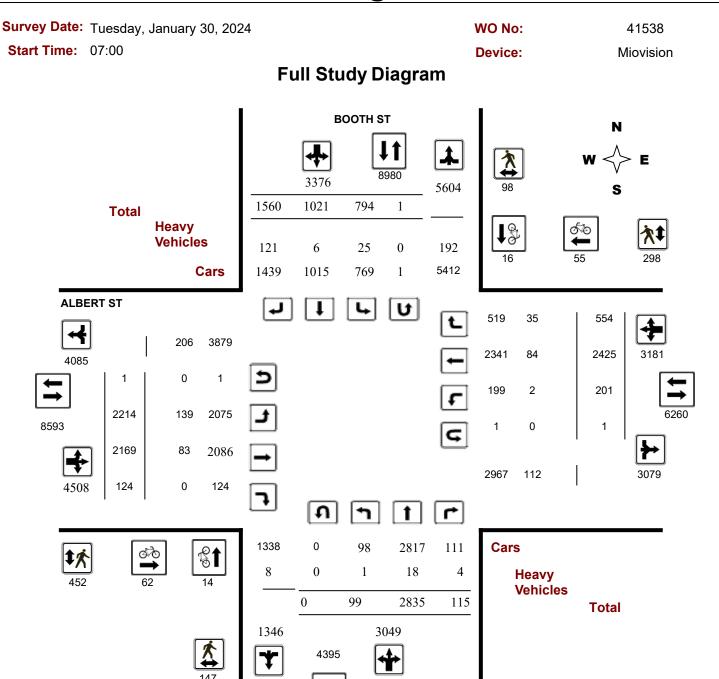
Time I	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
16:30	16:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
To	otal	0	0	0	0	0

May 14, 2024 Page 11 of 11



Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST



April 15, 2024 Page 1 of 8



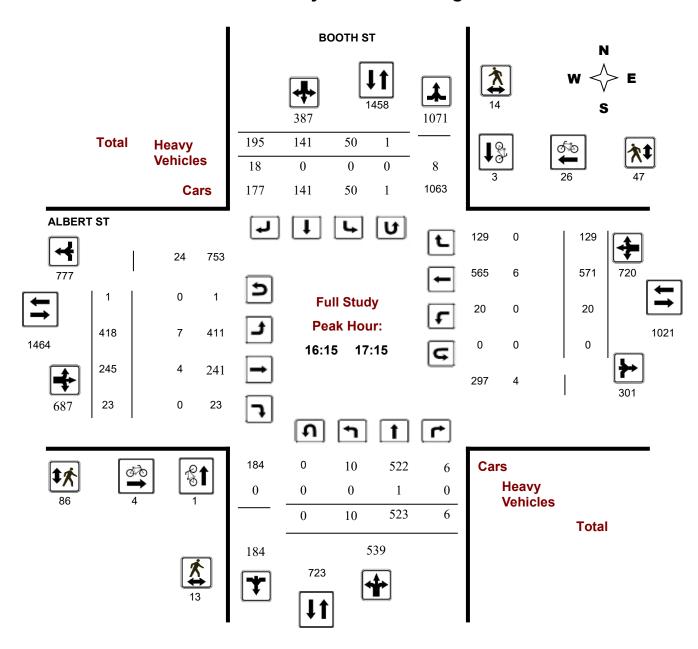
Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



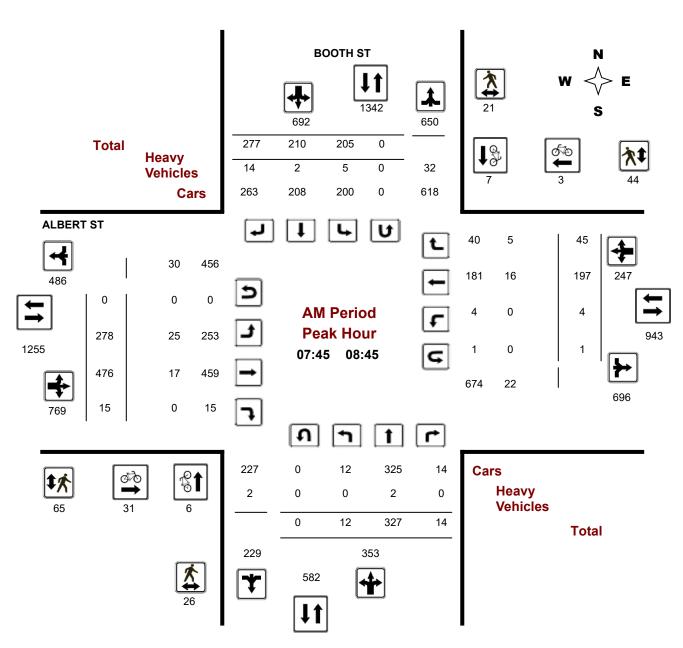
April 15, 2024 Page 2 of 8



Turning Movement Count - Peak Hour Diagram

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538
Start Time: 07:00 Device: Miovision



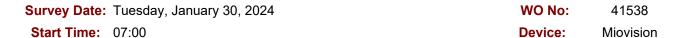
Comments:

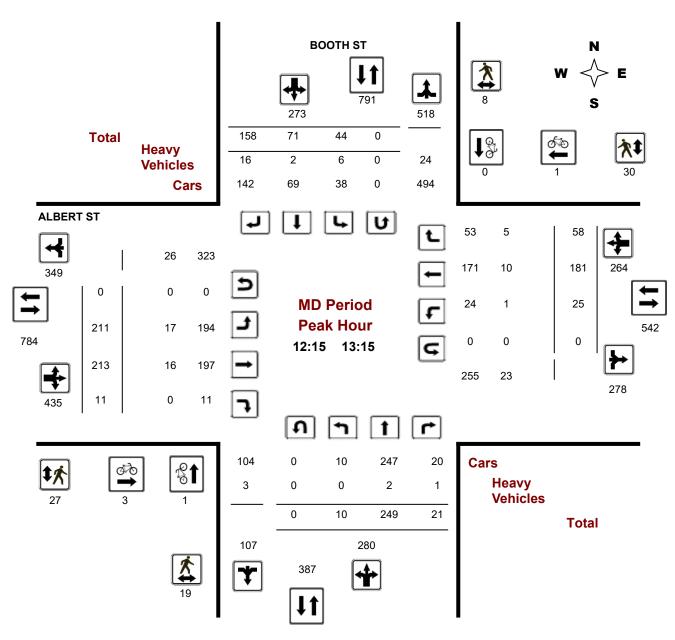
2024-Apr-15 Page 1 of 3



Turning Movement Count - Peak Hour Diagram

ALBERT ST @ BOOTH ST





Comments:

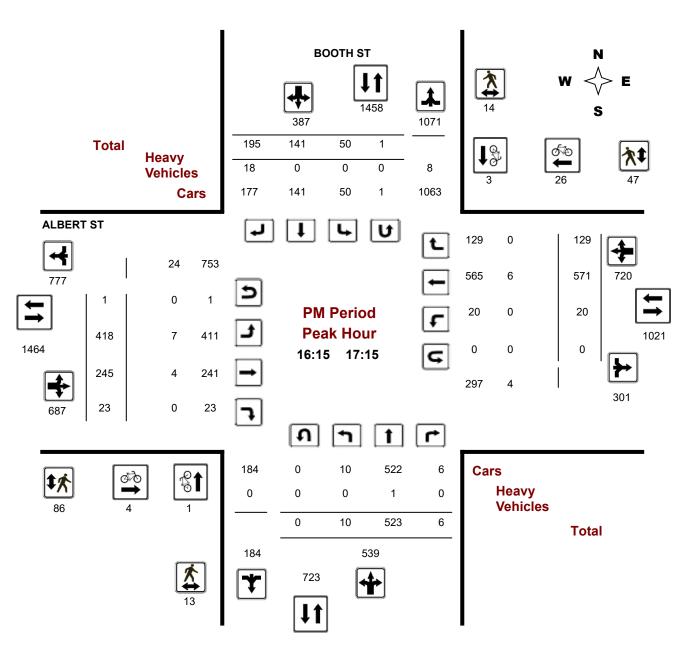
2024-Apr-15 Page 2 of 3



Turning Movement Count - Peak Hour Diagram

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538
Start Time: 07:00 Device: Miovision



Comments:

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Tuesday, January 30, 2024 Total Observed U-Turns AADT Factor

Northbound: 0 Sou

Southbound: 1 1.10

Eastbound: 1 Westbound: 1

BOOTH ST ALBERT ST Northbound Southbound Eastbound Westbound NB SB **STR** EΒ **WB** STR Grand RT Period LT ST RT LT ST RT LT ST LT ST RT TOT TOT TOT TOT TOT TOT Total 07:00 08:00 08:00 09:00 09:00 10:00 11:30 12:30 12:30 13:30 15:00 16:00 16:00 17:00 17:00 18:00 Sub Total **U Turns** Total EQ 12Hr Note: These values are calculated by multiplying the totals by the appropriate expansion factor. 1.39 AVG 12Hr Note: These volumes are calculated by multiplying the Equivalent 12 hr. totals by the AADT factor. 1.10 AVG 24Hr Note: These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor. 1.31

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

BOOTH ST ALBERT ST

		Northbound		Southbound				Eastbound			Westbound									
Time Po	eriod	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	07:15	2	78	1	81	32	34	82	148	229	55	43	1	99	0	22	9	31	130	359
07:15	07:30	0	100	0	100	32	37	72	141	241	47	42	0	89	0	25	8	33	122	363
07:30	07:45	0	105	1	106	38	41	69	148	254	58	84	0	142	0	39	3	42	184	438
07:45	08:00	1	100	0	101	49	66	65	180	281	60	92	0	152	0	27	6	34	186	467
08:00	08:15	5	65	5	75	41	51	72	164	239	53	121	8	182	1	50	14	65	247	486
08:15	08:30	4	88	6	98	64	51	74	189	287	73	140	3	216	2	62	10	74	290	577
08:30	08:45	2	74	3	79	51	42	66	159	238	92	123	4	219	1	58	15	74	293	531
08:45	09:00	1	56	3	60	58	60	57	175	235	51	109	6	166	0	40	8	48	214	449
09:00	09:15	1	81	2	84	25	41	60	126	210	63	114	10	187	5	50	8	63	250	460
09:15	09:30	3	75	3	81	25	30	36	91	172	39	66	4	109	7	40	10	57	166	338
09:30	09:45	3	82	5	90	24	22	55	101	191	51	52	2	105	4	38	9	51	156	347
09:45	10:00	4	64	12	80	13	22	47	82	162	36	49	4	89	8	34	9	51	140	302
11:30	11:45	3	67	1	71	9	17	25	51	122	40	46	4	90	9	44	13	66	156	278
11:45	12:00	5	65	3	73	10	21	41	72	145	42	45	3	90	6	50	17	73	163	308
12:00	12:15	6	58	11	75	9	17	27	53	128	49	51	6	106	8	44	16	68	174	302
12:15	12:30	4	54	5	63	8	23	37	68	131	56	51	3	110	6	60	16	82	192	323
12:30	12:45	3	69	3	75	14	21	44	79	154	43	60	3	106	7	44	8	59	165	319
12:45	13:00	2	60	4	66	9	13	35	57	123	52	51	0	103	4	42	22	68	171	294
13:00	13:15	1	66	9	76	13	14	42	69	145	60	51	5	116	8	35	12	55	171	316
13:15	13:30	4	73	4	81	7	18	29	54	135	49	42	2	93	5	42	11	58	151	286
15:00	15:15	7	102	1	110	19	24	25	68	178	113	62	4	179	24	75	24	123	302	480
15:15	15:30	5	110	4	119	38	38	42	118	237	85	58	5	148	32	148	34	214	362	599
15:30	15:45	8	126	8	142	31	34	34	99	241	107	60	3	170	4	129	27	160	330	571
15:45	16:00	4	82	1	87	29	28	36	93	180	109	54	4	167	9	142	32	183	350	530
16:00	16:15	3	141	1	145	22	35	56	113	258	66	67	4	137	6	135	32	173	310	568
16:15	16:30	4	133	3	140	16	35	46	97	237	107	48	5	160	1	171	44	216	376	613
	16:45	1	135	1	137	5	46	53	104	241	105	60	5	171	4	116	19	139	310	551
	17:00	0	128	1	129	12	43	54	110	239	97	60	3	160	5	162	29	196	356	595
	17:15	5	127	1	133	17	17	42	76	209	109	77	10	196	10	122	37	169	365	574
	17:30	1	84	6	91	29	26	45	100	191	94	68	4	166	9	158	23	190	356	547
	17:45	5	107	7	119	28	29	47	104	223	92	61	5	158	5	113	16	134	292	515
17:45	18:00	2	80	0	82	17	25	45	87	169	61	62	4	127	11	108	13	132	259	428
Total:		99	2835	115	3049	794	1021	1560	3376	6425	2214	2169	124	4508	201	2425	554	3181	7689	14,114

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

BOOTH ST ALBERT ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	_ Grand Total
07:00 07:15	0	0	0	3	1	4	4
07:15 07:30	0	2	2	1	0	1	3
07:30 07:45	0	0	0	1	1	2	2
07:45 08:00	1	1	2	3	2	5	7
08:00 08:15	1	3	4	6	0	6	10
08:15 08:30	3	1	4	7	1	8	12
08:30 08:45	1	2	3	15	0	15	18
08:45 09:00	0	1	1	5	0	5	6
09:00 09:15	0	0	0	2	0	2	2
09:15 09:30	0	1	1	5	0	5	6
09:30 09:45	0	0	0	2	0	2	2
09:45 10:00	0	0	0	0	0	0	0
11:30 11:45	1	0	1	0	0	0	1
11:45 12:00	0	1	1	0	2	2	3
12:00 12:15	1	0	1	0	0	0	1
12:15 12:30	1	0	1	0	0	0	1
12:30 12:45	0	0	0	2	0	2	2
12:45 13:00	0	0	0	0	0	0	0
13:00 13:15	0	0	0	1	1	2	2
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	1	0	1	0	2	2	3
15:15 15:30	0	1	1	0	2	2	3
15:30 15:45	1	0	1	1	1	2	3
15:45 16:00	1	0	1	1	0	1	2
16:00 16:15	0	0	0	3	4	7	7
16:15 16:30	1	3	4	3	3	6	10
16:30 16:45	0	0	0	0	4	4	4
16:45 17:00	0	0	0	0	13	13	13
17:00 17:15	0	0	0	1	6	7	7
17:15 17:30	0	0	0	0	3	3	3
17:30 17:45	1	0	1	0	5	5	6
17:45 18:00	0	0	0	0	4	4	4
Total	14	16	30	62	55	117	147

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume BOOTH ST ALBERT ST

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	0	5	5	5	6	11	16
07:15 07:30	0	3	3	13	6	19	22
07:30 07:45	0	2	2	12	5	17	19
07:45 08:00	0	5	5	22	10	32	37
08:00 08:15	6	8	14	17	14	31	45
08:15 08:30	8	6	14	14	12	26	40
08:30 08:45	12	2	14	12	8	20	34
08:45 09:00	4	2	6	21	9	30	36
09:00 09:15	5	4	9	9	11	20	29
09:15 09:30	5	1	6	6	13	19	25
09:30 09:45	7	1	8	12	4	16	24
09:45 10:00	4	3	7	9	4	13	20
11:30 11:45	2	0	2	11	5	16	18
11:45 12:00	2	1	3	11	1	12	15
12:00 12:15	6	2	8	6	10	16	24
12:15 12:30	7	1	8	7	13	20	28
12:30 12:45	4	2	6	5	3	8	14
12:45 13:00	5	0	5	10	7	17	22
13:00 13:15	3	5	8	5	7	12	20
13:15 13:30	4	1	5	8	4	12	17
15:00 15:15	5	0	5	13	2	15	20
15:15 15:30	6	6	12	25	15	40	52
15:30 15:45	3	0	3	15	12	27	30
15:45 16:00	9	1	10	28	16	44	54
16:00 16:15	3	7	10	12	11	23	33
16:15 16:30	0	8	8	22	13	35	43
16:30 16:45	0	3	3	19	15	34	37
16:45 17:00	1	1	2	26	7	33	35
17:00 17:15	12	2	14	19	12	31	45
17:15 17:30	11	10	21	21	15	36	57
17:30 17:45	8	0	8	21	16	37	45
17:45 18:00	5	6	11	16	12	28	39
Total	147	98	245	452	298	750	995

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

BOOTH ST ALBERT ST

	Northbound			ınd	Southbound					Eastbound					Westbound					
Time Perio	od l	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:	15	0	0	0	0	1	0	4	5	5	6	4	0	10	0	1	2	3	13	18
07:15 07:3	30	0	0	0	0	1	0	5	6	6	6	1	0	7	0	0	0	0	7	13
07:30 07:4	45	0	1	0	1	0	0	3	3	4	5	2	0	7	0	3	1	4	11	15
07:45 08:0	00	0	0	0	0	0	1	4	5	5	4	4	0	8	0	0	1	1	9	14
08:00 08:	15	0	2	0	2	3	0	3	6	8	3	4	0	7	0	9	1	10	17	25
08:15 08:3	30	0	0	0	0	0	1	4	5	5	10	8	0	18	0	3	1	4	22	27
08:30 08:4	45	0	0	0	0	2	0	3	5	5	8	1	0	9	0	4	2	6	15	20
08:45 09:0	00	0	0	0	0	1	0	7	8	8	4	3	0	7	0	2	1	3	10	18
09:00 09:	15	0	0	0	0	0	0	3	3	3	6	7	0	13	0	5	1	6	19	22
09:15 09:3	30	0	0	0	0	1	1	3	5	5	4	4	0	8	0	1	5	6	14	19
09:30 09:4	45	0	1	0	1	1	0	5	6	7	9	3	0	12	0	3	2	5	17	24
09:45 10:0	00	0	3	0	3	1	0	3	4	7	5	3	0	8	0	4	4	8	16	23
11:30 11:4	45	1	1	0	2	1	0	2	3	5	3	1	0	4	0	5	2	7	11	16
11:45 12:0	00	0	0	0	0	1	0	2	3	3	2	2	0	4	0	2	1	3	7	10
12:00 12:	15	0	0	0	0	1	0	2	3	3	3	4	0	7	0	4	2	6	13	16
12:15 12:3	30	0	0	0	0	1	0	5	6	6	6	4	0	10	0	3	1	4	14	20
12:30 12:4	45	0	0	0	0	2	2	5	9	9	4	2	0	6	0	2	0	2	8	17
12:45 13:0	00	0	1	1	2	1	0	2	3	5	4	5	0	9	0	2	4	6	15	20
13:00 13:	15	0	1	0	1	2	0	4	6	7	3	5	0	8	1	3	0	4	12	19
13:15 13:3	30	0	2	0	2	2	0	3	5	7	6	3	0	9	1	3	3	7	16	23
15:00 15:	15	0	0	0	0	1	1	4	6	6	9	2	0	11	0	5	0	5	16	22
15:15 15:3	30	0	2	1	3	0	0	5	5	8	4	2	0	6	0	6	0	6	12	20
15:30 15:4	45	0	0	0	0	0	0	6	6	6	4	0	0	4	0	2	1	3	7	13
15:45 16:0	00	0	2	1	3	0	0	3	3	6	2	2	0	4	0	2	0	2	6	12
16:00 16:	15	0	0	0	0	1	0	4	5	5	2	2	0	4	0	2	0	2	6	11
16:15 16:3	30	0	0	0	0	0	0	2	2	2	0	1	0	1	0	1	0	1	2	4
16:30 16:4	45	0	0	0	0	0	0	7	7	7	2	0	0	2	0	3	0	3	5	12
16:45 17:0	00	0	1	0	1	0	0	3	3	4	2	2	0	4	0	1	0	1	5	9
17:00 17:	15	0	0	0	0	0	0	6	6	6	3	1	0	4	0	1	0	1	5	11
17:15 17:3	30	0	0	0	0	0	0	1	1	1	4	1	0	5	0	1	0	1	6	7
17:30 17:4	45	0	0	1	1	1	0	5	6	7	4	0	0	4	0	1	0	1	5	12
17:45 18:0	00	0	1	0	1	0	0	3	3	4	2	0	0	2	0	0	0	0	2	6
Total: Nor	ne	1	18	4	23	25	6	121	152	175	139	83	0	222	2	84	35	121	343	518

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Tuesday, January 30, 2024 WO No: 41538

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total BOOTH ST ALBERT ST

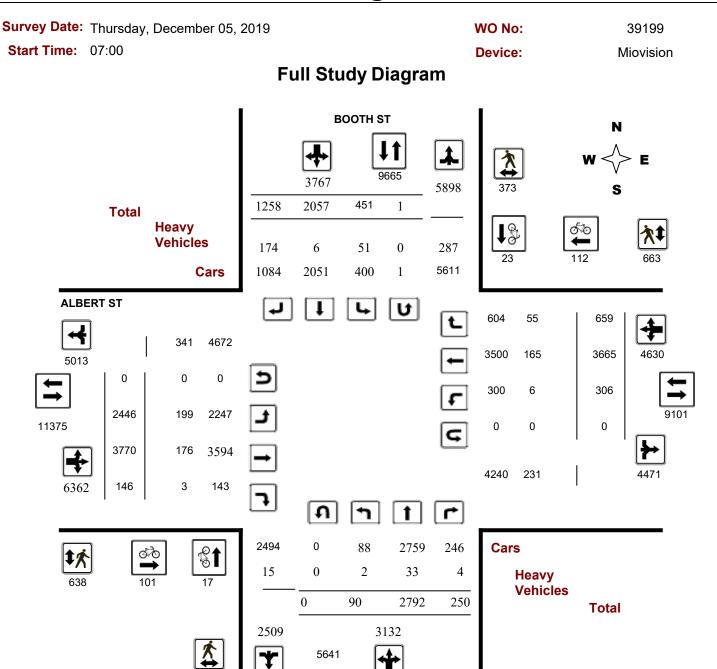
Time I	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	1	1
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	1	0	1
16:45	17:00	0	1	0	0	1
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
To	tal	0	1	1	1	3

April 15, 2024 Page 8 of 8



Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST



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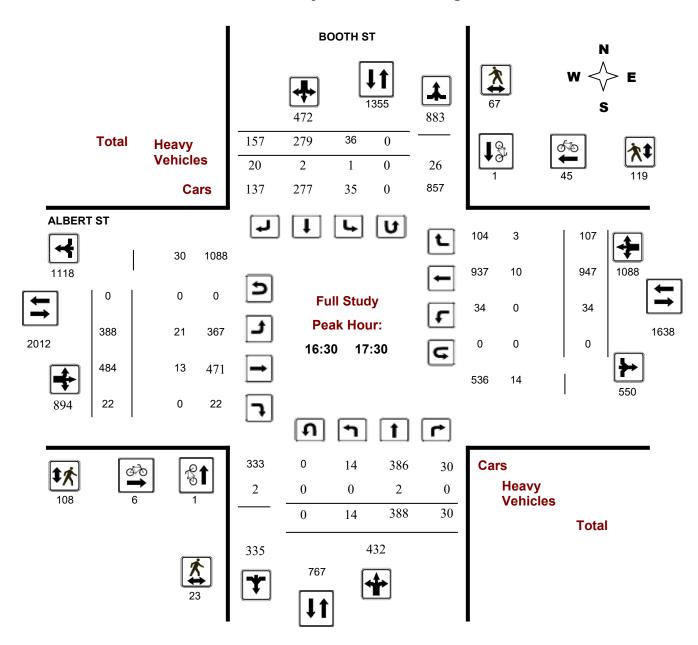
Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Thursday, December 05, 2019 WO No: 39199

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



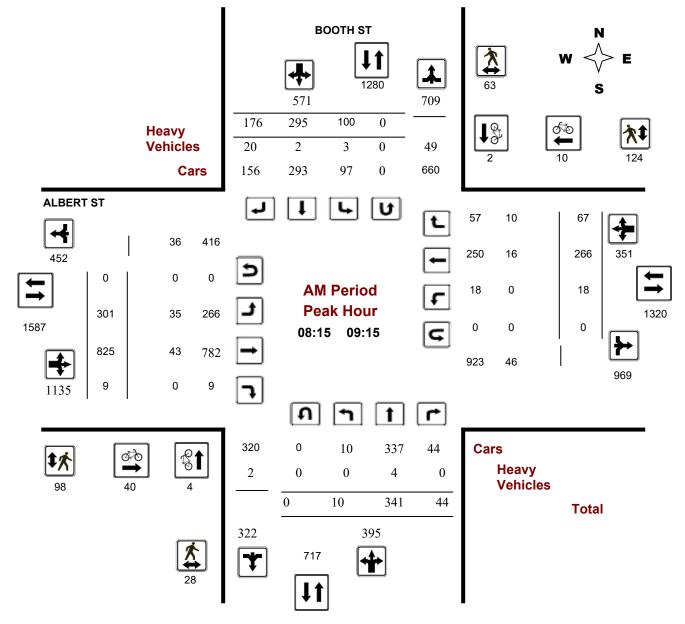
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Turning Movement Count - Peak Hour Diagram

ALBERT ST @ BOOTH ST





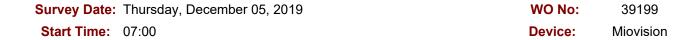
Comments

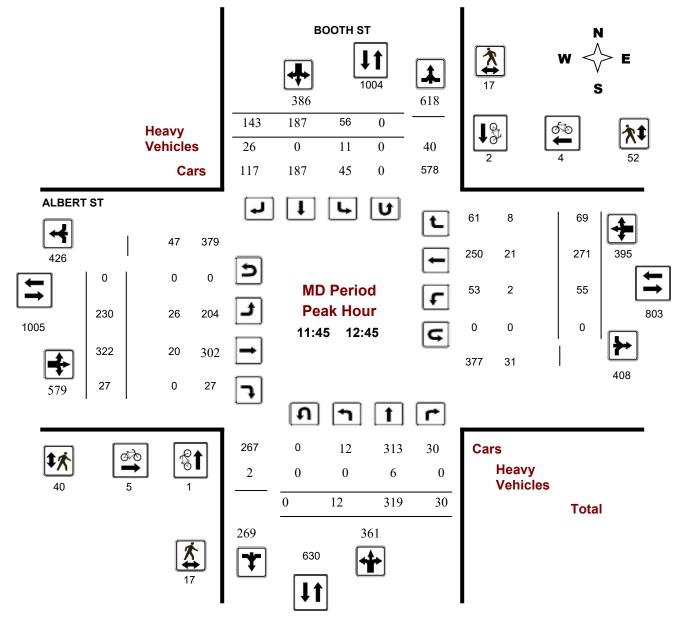
2020-Mar-27 Page 1 of 3



Turning Movement Count - Peak Hour Diagram

ALBERT ST @ BOOTH ST





Comments

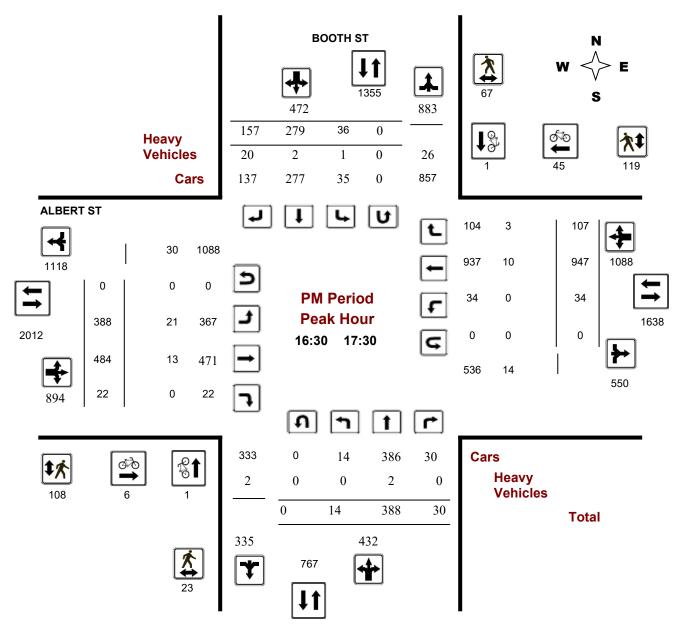
2020-Mar-27 Page 2 of 3



Turning Movement Count - Peak Hour Diagram

ALBERT ST @ BOOTH ST





Comments

2020-Mar-27 Page 3 of 3



Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Thursday, December 05, 2019 WO No: 39199

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Thursday, December 05, 2019 Total Observed U-Turns AADT Factor

Northbound: 0 Southbound: 1

Eastbound: 0 Westbound: 0

1.00

BOOTH ST ALBERT ST

			DC	יחוטכ	5 I							Al	_DEK I	SI					
	No	rthbou	nd		So	uthbou	und			Е	astbou	ınd		٧	/estbo	und	<u>.</u>		
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	9	323	24	356	71	334	173	578	934	234	484	6	724	6	213	51	270	994	1928
08:00 09:00	9	343	42	394	92	311	167	570	964	296	814	10	1120	16	265	53	334	1454	2418
09:00 10:00	7	284	48	339	75	277	176	528	867	268	653	15	936	31	233	60	324	1260	2127
11:30 12:30	10	311	27	348	46	182	154	382	730	229	315	26	570	58	290	67	415	985	1715
12:30 13:30	12	323	39	374	47	167	123	337	711	230	268	23	521	49	219	77	345	866	1577
15:00 16:00	12	447	16	475	37	240	160	437	912	421	355	18	794	67	704	129	900	1694	2606
16:00 17:00	15	367	31	413	44	282	143	469	882	381	409	27	817	44	949	121	1114	1931	2813
17:00 18:00	16	394	23	433	39	264	162	465	898	387	472	21	880	35	792	101	928	1808	2706
Sub Total	90	2792	250	3132	451	2057	1258	3766	6898	2446	3770	146	6362	306	3665	659	4630	10992	17890
U Turns				0				1	1				0				0	0	1
Total	90	2792	250	3132	451	2057	1258	3767	6899	2446	3770	146	6362	306	3665	659	4630	10992	17891
EQ 12Hr	125	3881	348	4353	627	2859	1749	5236	9590	3400	5240	203	8843	425	5094	916	6436	15279	24868
Note: These v	alues a	re calcu	lated by	y multiply	ying the	totals b	y the a	ppropriat	e expans	sion fac	tor.			1.39					
AVG 12Hr	118	3658	328	4103	591	2695	1648	4935	9590	3204	4939	191	8334	401	4801	863	6065	15279	24868
Note: These v	olumes	are cald	culated	by multi	plying t	he Equiv	valent 1	2 hr. tota	ls by the	AADT	factor.			1					
AVG 24Hr	154	4791	429	5375	774	3530	2159	6465	11840	4198	6470	251	10918	525	6290	1131	7946	18864	30704
Note: These v	olumes	are cal	culated	by multi	plying tl	he Avera	age Dai	ly 12 hr.	totals by	12 to 2	4 expans	sion fac	ctor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Thursday, December 05, 2019 WO No: 39199

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

BOOTH ST ALBERT ST

		N	orthbou	ınd		Sc	outhbou	nd			E	astbour	nd		We	estboun	ıd			
Time I	Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	07:15	3	79	5	87	13	92	57	162	8	58	78	2	138	3	43	10	56	8	443
07:15	07:30	1	73	5	79	17	79	38	134	11	54	106	2	162	2	53	13	68	11	443
07:30	07:45	4	93	6	103	20	91	39	150	8	55	119	0	174	0	50	11	61	8	488
07:45	08:00	1	78	8	87	21	72	39	132	7	67	181	2	250	1	67	17	85	7	554
08:00	08:15	1	86	11	98	15	88	38	141	6	69	187	1	257	4	54	11	69	6	565
08:15	08:30	2	69	9	80	28	81	46	155	4	71	218	3	292	5	60	12	77	4	604
08:30	08:45	5	103	12	120	25	68	45	138	7	80	206	3	289	3	73	13	89	7	636
08:45	09:00	1	85	10	96	24	74	38	136	9	76	203	3	282	4	78	17	99	9	613
09:00	09:15	2	84	13	99	23	72	47	142	9	74	198	0	272	6	55	25	86	9	599
09:15	09:30	2	75	13	90	18	67	39	124	13	49	166	1	216	8	58	14	80	13	510
09:30	09:45	1	74	9	84	16	72	49	138	13	65	147	7	219	10	68	11	89	13	530
09:45	10:00	2	51	13	66	18	66	41	125	13	80	142	7	229	7	52	10	69	13	489
11:30	11:45	0	89	8	97	8	42	39	89	7	60	69	5	134	11	68	18	97	7	417
11:45	12:00	4	64	7	75	17	51	46	114	12	50	81	12	143	13	88	15	116	12	448
12:00	12:15	4	85	5	94	15	46	35	96	15	64	83	8	155	11	67	14	92	15	437
12:15	12:30	2	73	7	82	6	43	34	83	8	55	82	1	138	23	67	20	110	8	413
12:30	12:45	2	97	11	110	18	47	28	93	8	61	76	6	143	8	49	20	77	8	423
12:45	13:00	3	79	8	90	8	42	28	78	7	58	64	6	128	13	51	20	84	7	380
13:00	13:15	5	81	8	94	11	36	34	81	9	58	63	6	127	15	71	21	107	9	409
13:15	13:30	2	66	12	80	10	42	33	85	9	53	65	5	123	13	48	16	77	9	365
15:00	15:15	6	117	3	126	10	52	39	101	10	108	68	4	180	31	127	31	189	10	596
15:15	15:30	4	108	5	117	7	56	38	101	12	112	85	3	200	11	161	31	203	12	621
15:30	15:45	0	110	4	114	10	79	43	132	8	96	106	6	208	15	198	37	250	8	704
15:45	16:00	2	112	4	118	10	53	40	103	11	105	96	5	206	10	218	30	258	11	685
16:00	16:15	6	96	4	106	11	75	40	126	10	89	93	7	189	10	207	32	249	10	670
16:15	16:30	5	88	3	96	10	70	23	103	4	99	101	8	208	16	247	33	296	4	703
16:30	16:45	3	90	14	107	13	76	41	130	6	91	98	5	194	6	249	27	282	6	713
16:45	17:00	1	93	10	104	10	61	39	110	10	102	117	7	226	12	246	29	287	10	727
17:00	17:15	4	105	2	111	7	77	38	122	5	92	136	6	234	11	225	21	257	5	724
17:15	17:30	6	100	4	110	6	65	39	110	4	103	133	4	240	5	227	30	262	4	722
17:30	17:45	1	102	6	109	13	65	45	123	4	92	90	6	188	10	177	24	211	4	631
17:45	18:00	5	87	11	103	13	57	40	110	3	100	113	5	218	9	163	26	198	3	629
Total:		90	2792	250	3132	451	2057	1258	3767	270	2446	3770	146	6362	306	3665	659	4630	270	17,891

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Thursday, December 05, 2019 WO No: 39199

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

BOOTH ST ALBERT ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	0	0	0	1	1	1
07:15 07:30	1	0	1	2	0	2	3
07:30 07:45	1	3	4	13	2	15	19
07:45 08:00	3	3	6	6	0	6	12
08:00 08:15	1	0	1	10	0	10	11
08:15 08:30	1	0	1	10	2	12	13
08:30 08:45	2	1	3	10	3	13	16
08:45 09:00	0	0	0	8	3	11	11
09:00 09:15	1	1	2	12	2	14	16
09:15 09:30	0	1	1	4	0	4	5
09:30 09:45	1	1	2	2	2	4	6
09:45 10:00	0	0	0	1	0	1	1
11:30 11:45	0	0	0	0	0	0	0
11:45 12:00	0	0	0	1	0	1	1
12:00 12:15	0	0	0	1	1	2	2
12:15 12:30	0	2	2	2	1	3	5
12:30 12:45	1	0	1	1	2	3	4
12:45 13:00	0	0	0	0	2	2	2
13:00 13:15	1	1	2	1	1	2	4
13:15 13:30	0	0	0	1	2	3	3
15:00 15:15	0	3	3	0	2	2	5
15:15 15:30	0	0	0	0	6	6	6
15:30 15:45	0	0	0	2	4	6	6
15:45 16:00	0	2	2	2	3	5	7
16:00 16:15	1	0	1	4	6	10	11
16:15 16:30	2	3	5	1	8	9	14
16:30 16:45	0	0	0	4	5	9	9
16:45 17:00	1	0	1	1	13	14	15
17:00 17:15	0	0	0	0	12	12	12
17:15 17:30	0	1	1	1	15	16	17
17:30 17:45	0	1	1	0	10	10	11
17:45 18:00	0	0	0	1	4	5	5
Total	17	23	40	101	112	213	253

March 27, 2020 Page 5 of 8



Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Thursday, December 05, 2019 WO No: 39199

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume BOOTH ST ALBERT ST

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	1	6	7	12	12	24	31
07:15 07:30	3	8	11	13	17	30	41
07:30 07:45	8	13	21	27	21	48	69
07:45 08:00	9	15	24	23	28	51	75
08:00 08:15	6	19	25	28	35	63	88
08:15 08:30	13	21	34	28	32	60	94
08:30 08:45	6	15	21	27	32	59	80
08:45 09:00	5	17	22	27	38	65	87
09:00 09:15	4	10	14	16	22	38	52
09:15 09:30	7	6	13	14	12	26	39
09:30 09:45	6	3	9	12	17	29	38
09:45 10:00	4	8	12	15	11	26	38
11:30 11:45	4	3	7	7	6	13	20
11:45 12:00	6	2	8	10	13	23	31
12:00 12:15	4	1	5	9	11	20	25
12:15 12:30	4	8	12	8	18	26	38
12:30 12:45	3	6	9	13	10	23	32
12:45 13:00	2	6	8	9	9	18	26
13:00 13:15	6	7	13	25	9	34	47
13:15 13:30	2	4	6	7	11	18	24
15:00 15:15	6	10	16	20	17	37	53
15:15 15:30	5	15	20	25	15	40	60
15:30 15:45	5	7	12	18	26	44	56
15:45 16:00	8	14	22	23	20	43	65
16:00 16:15	4	20	24	33	25	58	82
16:15 16:30	4	27	31	27	26	53	84
16:30 16:45	2	16	18	26	30	56	74
16:45 17:00	2	16	18	18	34	52	70
17:00 17:15	12	14	26	40	22	62	88
17:15 17:30	7	21	28	24	33	57	85
17:30 17:45	4	17	21	30	34	64	85
17:45 18:00	3	18	21	24	17	41	62
Total	165	373	538	638	663	1301	1839

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Thursday, December 05, 2019 WO No: 39199

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

BOOTH ST ALBERT ST

	N	orthbo	und		Sc	uthbou	nd			Е	astbour	nd		We	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	2	0	2	1	0	5	6	8	6	5	0	11	0	4	1	5	16	24
07:15 07:30	0	1	0	1	4	0	6	10	11	5	7	0	12	0	6	1	7	19	30
07:30 07:45	0	0	0	0	5	0	3	8	8	5	7	0	12	0	5	3	8	20	28
07:45 08:00	0	0	0	0	2	0	5	7	7	8	6	0	14	0	5	3	8	22	29
08:00 08:15	1	0	0	1	2	0	3	5	6	4	11	0	15	0	3	2	5	20	26
08:15 08:30	0	1	0	1	0	1	2	3	4	7	7	0	14	0	4	1	5	19	23
08:30 08:45	0	1	0	1	2	0	4	6	7	4	22	0	26	0	4	1	5	31	38
08:45 09:00	0	1	0	1	0	1	7	8	9	11	6	0	17	0	5	4	9	26	35
09:00 09:15	0	1	0	1	1	0	7	8	9	13	8	0	21	0	3	4	7	28	37
09:15 09:30	0	3	0	3	3	0	7	10	13	11	7	1	19	0	6	3	9	28	41
09:30 09:45	0	2	0	2	0	0	11	11	13	8	5	0	13	0	7	1	8	21	34
09:45 10:00	0	3	1	4	3	0	6	9	13	9	7	0	16	0	5	1	6	22	35
11:30 11:45	0	1	0	1	1	0	5	6	7	10	4	1	15	0	5	4	9	24	31
11:45 12:00	0	1	0	1	5	0	6	11	12	7	6	0	13	0	11	1	12	25	37
12:00 12:15	0	1	0	1	4	0	10	14	15	8	3	0	11	1	4	3	8	19	34
12:15 12:30	0	1	0	1	0	0	7	7	8	6	6	0	12	1	1	2	4	16	24
12:30 12:45	0	3	0	3	2	0	3	5	8	5	5	0	10	0	5	2	7	17	25
12:45 13:00	0	0	0	0	1	1	5	7	7	5	5	1	11	0	10	5	15	26	33
13:00 13:15	0	0	1	1	5	0	3	8	9	5	6	0	11	0	4	1	5	16	25
13:15 13:30	0	0	1	1	2	0	6	8	9	1	6	0	7	1	4	3	8	15	24
15:00 15:15	0	1	0	1	1	0	8	9	10	3	6	0	9	0	9	1	10	19	29
15:15 15:30	1	4	0	5	1	0	6	7	12	4	2	0	6	0	5	3	8	14	26
15:30 15:45	0	1	0	1	1	0	6	7	8	5	3	0	8	1	13	1	15	23	31
15:45 16:00	0	1	1	2	2	0	7	9	11	9	5	0	14	1	8	0	9	23	34
16:00 16:15	0	1	0	1	1	0	8	9	10	6	2	0	8	0	8	0	8	16	26
16:15 16:30	0	0	0	0	0	0	4	4	4	5	1	0	6	1	6	0	7	13	17
16:30 16:45	0	0	0	0	1	1	4	6	6	5	1	0	6	0	4	1	5	11	17
16:45 17:00	0	1	0	1	0	1	8	9	10	6	5	0	11	0	2	1	3	14	24
17:00 17:15	0	1	0	1	0	0	4	4	5	5	4	0	9	0	2	1	3	12	17
17:15 17:30	0	0	0	0	0	0	4	4	4	5	3	0	8	0	2	0	2	10	14
17:30 17:45	0	1	0	1	1	0	2	3	4	4	3	0	7	0	2	0	2	9	13
17:45 18:00	0	0	0	0	0	1	2	3	3	4	2	0	6	0	3	1	4	10	13
Total: None	2	33	4	39	51	6	174	231	270	199	176	3	378	6	165	55	226	604	874

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Turning Movement Count - Study Results

ALBERT ST @ BOOTH ST

Survey Date: Thursday, December 05, 2019 WO No: 39199

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total BOOTH ST ALBERT ST

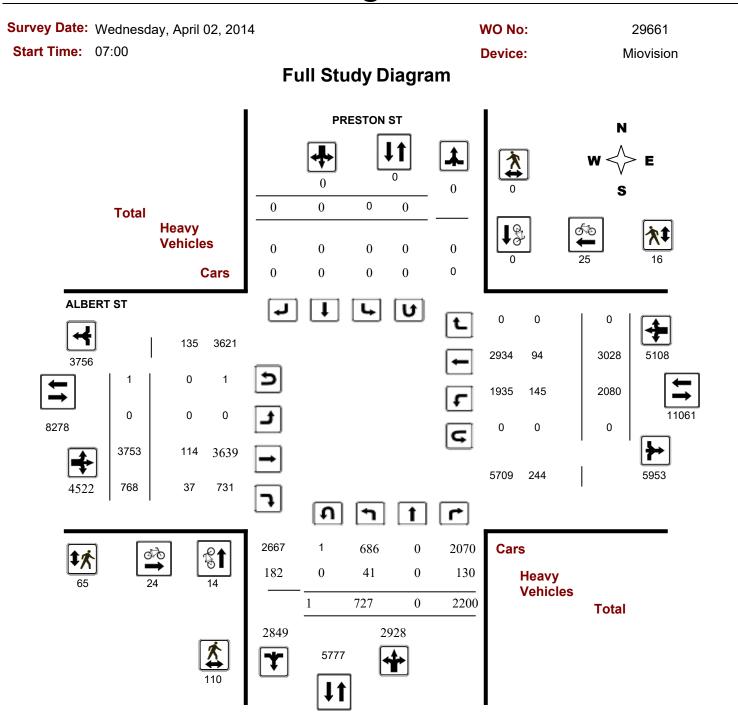
Time F	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	1	0	0	1
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
To	otal	0	1	0	0	1

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Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST



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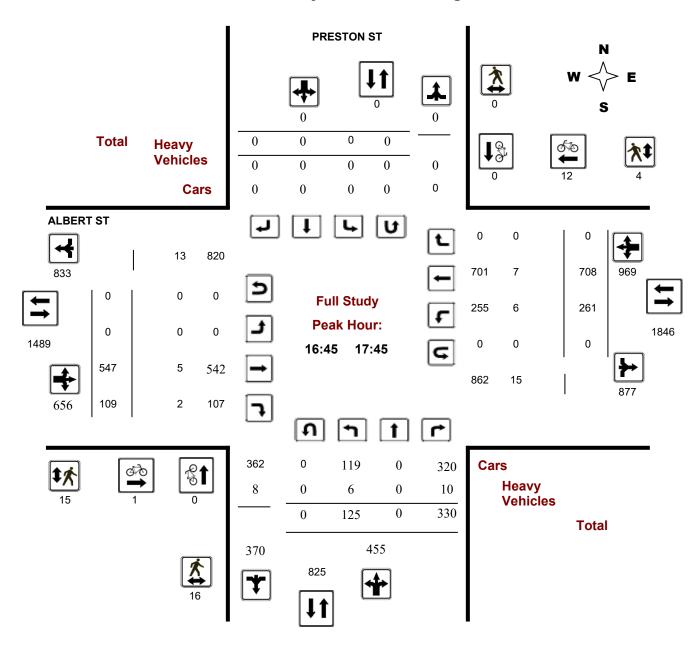
Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



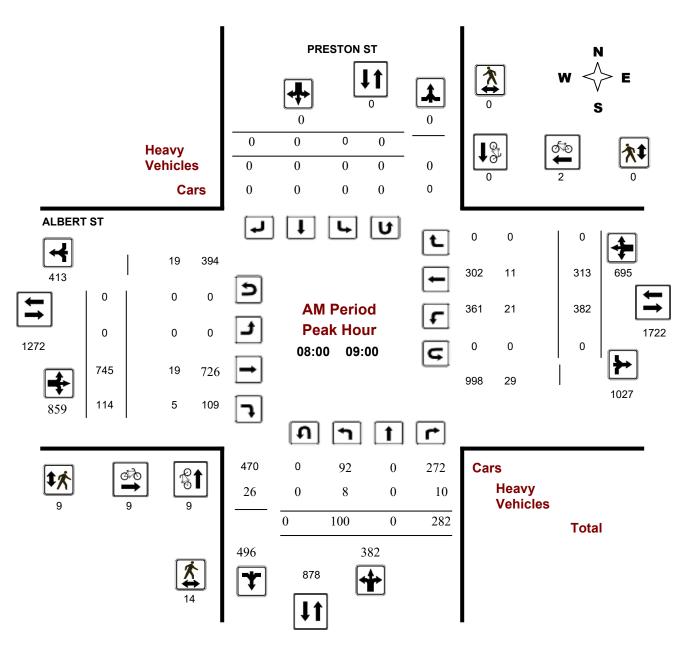
March 27, 2020 Page 2 of 8



Turning Movement Count - Peak Hour Diagram

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661
Start Time: 07:00 Device: Miovision



Comments

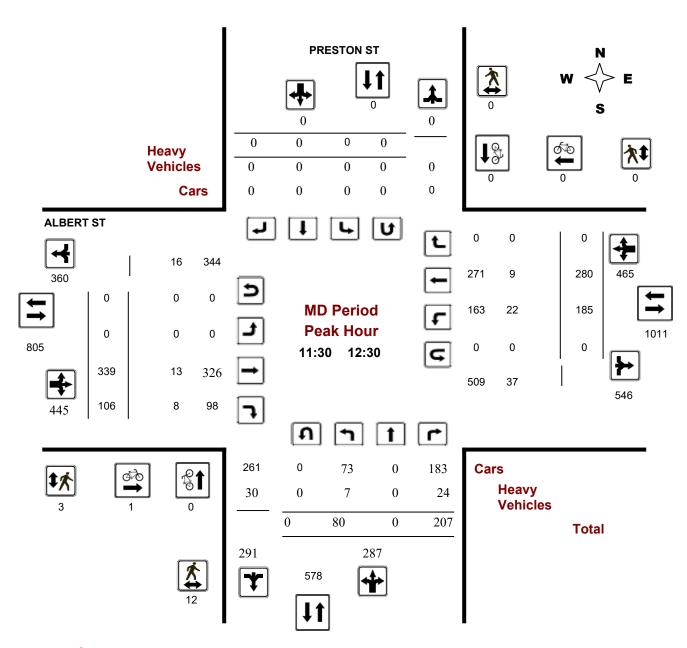
2020-Mar-27 Page 1 of 3



Turning Movement Count - Peak Hour Diagram

ALBERT ST @ PRESTON ST





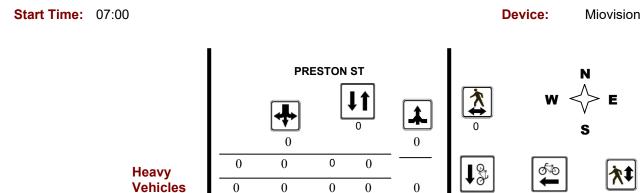
Comments

2020-Mar-27 Page 2 of 3



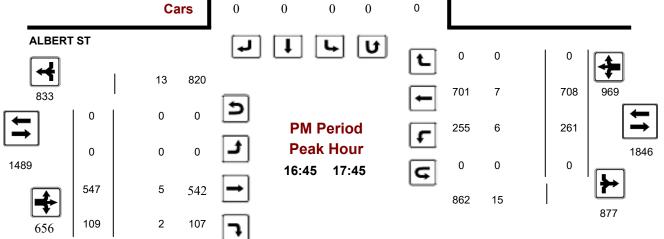
Turning Movement Count - Peak Hour Diagram

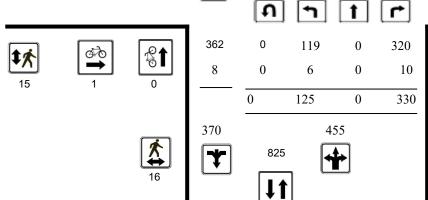
ALBERT ST @ PRESTON ST



Vehicles Cars

Survey Date: Wednesday, April 02, 2014





Cars Heavy **Vehicles Total**

WO No:

29661

Comments

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Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Wednesday, April 02, 2014 Total Observed U-Turns AADT Factor

Northbound: 1 Southbound: 0 .90

Eastbound: 1 Westbound: 0

			PRE	ESTON	ST							Al	BERT	ST					
	Nor	thbou	nd		Sou	uthbou	ınd			Е	astbou	und		٧	Vestbou	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	54	0	245	299	0	0	0	0	299	0	450	69	519	390	277	0	667	1186	1485
08:00 09:00	100	0	282	382	0	0	0	0	382	0	745	114	859	382	313	0	695	1554	1936
09:00 10:00	82	0	198	280	0	0	0	0	280	0	416	81	497	228	263	0	491	988	1268
11:30 12:30	80	0	207	287	0	0	0	0	287	0	339	106	445	185	280	0	465	910	1197
12:30 13:30	72	0	190	262	0	0	0	0	262	0	317	82	399	166	239	0	405	804	1066
15:00 16:00	113	0	377	490	0	0	0	0	490	0	458	97	555	223	406	0	629	1184	1674
16:00 17:00	112	0	370	482	0	0	0	0	482	0	548	104	652	247	639	0	886	1538	2020
17:00 18:00	114	0	331	445	0	0	0	0	445	0	480	115	595	259	611	0	870	1465	1910
Sub Total	727	0	2200	2927	0	0	0	0	2927	0	3753	768	4521	2080	3028	0	5108	9629	12556
U Turns				1				0	1				1				0	1	2
Total	727	0	2200	2928	0	0	0	0	2928	0	3753	768	4522	2080	3028	0	5108	9630	12558
EQ 12Hr	1011	0	3058	4070	0	0	0	0	4070	0	5217	1068	6286	2891	4209	0	7100	13386	17456
Note: These	values ar	e calcu	ılated by	y multiply	ing the	totals b	y the a _l	opropriate	e expans	ion fact	tor.			1.39					
AVG 12Hr	857	0	2594	3452	0	0	0	0	3663	0	4425	905	5331	2452	3570	0	6022	12047	15710
Note: These	volumes	are cal	culated	by multip	lying th	e Equiv	alent 1	2 hr. tota	ls by the	AADT	factor.			0.9					
AVG 24Hr	1123	0	3398	4522	0	0	0	0	4522	0	5796	1186	6984	3213	4677	0	7889	14873	19395
Note: These	volumes	are cal	culated	by multip	olying th	e Avera	ige Dai	ly 12 hr. 1	totals by	12 to 2	4 expan	sion fac	ctor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

PRESTON ST ALBERT ST

		No	orthbo	und		Sc	uthbou	nd			Е	astbour	nd		We	estbour	nd			
Time F	Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	07:15	15	0	56	71	0	0	0	0	5	0	69	15	84	90	51	0	141	5	296
07:15	07:30	12	0	48	60	0	0	0	0	3	0	88	13	101	113	67	0	180	3	341
07:30	07:45	12	0	78	90	0	0	0	0	7	0	137	15	152	100	88	0	188	7	430
07:45	08:00	15	0	63	78	0	0	0	0	5	0	156	26	182	87	71	0	158	5	418
08:00	08:15	26	0	76	102	0	0	0	0	2	0	176	20	196	111	78	0	189	2	487
08:15	08:30	20	0	68	88	0	0	0	0	6	0	218	28	246	101	64	0	165	6	499
08:30	08:45	30	0	74	104	0	0	0	0	6	0	177	30	207	94	73	0	167	6	478
08:45	09:00	24	0	64	88	0	0	0	0	4	0	174	36	210	76	98	0	174	4	472
09:00	09:15	27	0	52	79	0	0	0	0	4	0	129	18	147	80	82	0	162	4	388
09:15	09:30	24	0	58	82	0	0	0	0	2	0	120	29	149	57	70	0	127	2	358
09:30	09:45	13	0	45	58	0	0	0	0	6	0	91	18	109	48	58	0	106	6	273
09:45	10:00	18	0	43	61	0	0	0	0	4	0	76	16	92	43	53	0	96	4	249
11:30	11:45	28	0	50	78	0	0	0	0	11	0	94	19	113	40	76	0	116	11	307
11:45	12:00	18	0	64	82	0	0	0	0	10	0	74	39	113	53	64	0	117	10	312
12:00	12:15	18	0	47	65	0	0	0	0	3	0	88	27	115	39	69	0	108	3	288
12:15	12:30	16	0	46	62	0	0	0	0	7	0	83	21	104	53	71	0	124	7	290
12:30	12:45	19	0	42	61	0	0	0	0	10	0	70	23	93	37	64	0	101	10	255
12:45	13:00	21	0	49	71	0	0	0	0	4	0	66	21	87	49	63	0	112	4	270
13:00	13:15	15	0	58	73	0	0	0	0	5	0	84	19	103	42	54	0	96	5	272
13:15	13:30	17	0	41	58	0	0	0	0	6	0	97	19	116	38	58	0	96	6	270
15:00	15:15	27	0	99	126	0	0	0	0	8	0	97	21	118	52	95	0	147	8	391
15:15	15:30	20	0	96	116	0	0	0	0	8	0	102	25	128	51	100	0	151	8	395
15:30	15:45	22	0	93	115	0	0	0	0	3	0	129	18	147	50	103	0	153	3	415
15:45	16:00	44	0	89	133	0	0	0	0	7	0	130	33	163	70	108	0	178	7	474
16:00	16:15	29	0	89	118	0	0	0	0	5	0	134	33	167	57	133	0	190	5	475
16:15	16:30	22	0	117	139	0	0	0	0	7	0	137	30	167	71	157	0	228	7	534
16:30	16:45	33	0	89	122	0	0	0	0	4	0	117	23	140	56	162	0	218	4	480
16:45	17:00	28	0	75	103	0	0	0	0	4	0	160	18	178	63	187	0	250	4	531
17:00	17:15	37	0	96	133	0	0	0	0	4	0	134	41	175	66	155	0	221	4	529
17:15	17:30	34	0	72	106	0	0	0	0	5	0	129	22	151	71	190	0	261	5	518
17:30	17:45	26	0	87	113	0	0	0	0	3	0	124	28	152	61	176	0	237	3	502
17:45	18:00	17	0	76	93	0	0	0	0	3	0	93	24	117	61	90	0	151	3	361
Total:		727	0	2200	2928	0	0	0	0	171	0	3753	768	4522	2080	3028	0	5108	171	12,558

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

PRESTON ST ALBERT ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	 Grand Total
07:00 07:15	0	0	0	0	1	1	1
07:15 07:30	1	0	1	0	0	0	1
07:30 07:45	0	0	0	2	0	2	2
07:45 08:00	1	0	1	3	0	3	4
08:00 08:15	4	0	4	5	0	5	9
08:15 08:30	1	0	1	2	1	3	4
08:30 08:45	2	0	2	1	1	2	4
08:45 09:00	2	0	2	1	0	1	3
09:00 09:15	0	0	0	2	0	2	2
09:15 09:30	0	0	0	2	0	2	2
09:30 09:45	1	0	1	1	0	1	2
09:45 10:00	0	0	0	1	0	1	1
11:30 11:45	0	0	0	1	0	1	1
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	0	0	0	0
12:45 13:00	0	0	0	0	1	1	1
13:00 13:15	0	0	0	0	0	0	0
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	0	0	0	0	0	0	0
15:15 15:30	0	0	0	0	1	1	1
15:30 15:45	0	0	0	0	1	1	1
15:45 16:00	1	0	1	1	0	1	2
16:00 16:15	0	0	0	0	1	1	1
16:15 16:30	0	0	0	1	0	1	1
16:30 16:45	1	0	1	0	3	3	4
16:45 17:00	0	0	0	0	2	2	2
17:00 17:15	0	0	0	1	1	2	2
17:15 17:30	0	0	0	0	8	8	8
17:30 17:45	0	0	0	0	1	1	1
17:45 18:00	0	0	0	0	3	3	3
Total	14	0	14	24	25	49	63

March 27, 2020 Page 5 of 8



Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume

PRESTON ST ALBERT ST

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	1	0	1	1	0	1	2
07:15 07:30	3	0	3	4	0	4	7
07:30 07:45	3	0	3	5	0	5	8
07:45 08:00	3	0	3	1	0	1	4
08:00 08:15	4	0	4	2	0	2	6
08:15 08:30	3	0	3	3	0	3	6
08:30 08:45	5	0	5	4	0	4	9
08:45 09:00	2	0	2	0	0	0	2
09:00 09:15	7	0	7	0	0	0	7
09:15 09:30	4	0	4	1	0	1	5
09:30 09:45	3	0	3	2	0	2	5
09:45 10:00	5	0	5	2	0	2	7
11:30 11:45	5	0	5	0	0	0	5
11:45 12:00	3	0	3	1	0	1	4
12:00 12:15	2	0	2	2	0	2	4
12:15 12:30	2	0	2	0	0	0	2
12:30 12:45	2	0	2	0	0	0	2
12:45 13:00	2	0	2	5	0	5	7
13:00 13:15	2	0	2	1	2	3	5
13:15 13:30	0	0	0	0	2	2	2
15:00 15:15	4	0	4	2	0	2	6
15:15 15:30	3	0	3	5	0	5	8
15:30 15:45	3	0	3	2	1	3	6
15:45 16:00	0	0	0	4	1	5	5
16:00 16:15	3	0	3	0	2	2	5
16:15 16:30	12	0	12	0	3	3	15
16:30 16:45	6	0	6	0	1	1	7
16:45 17:00	8	0	8	0	1	1	9
17:00 17:15	3	0	3	6	0	6	9
17:15 17:30	3	0	3	2	1	3	6
17:30 17:45	2	0	2	7	2	9	11
17:45 18:00	2	0	2	3	0	3	5
Total	110	0	110	65	16	81	191

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Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

PRESTON ST ALBERT ST

	N	orthbo	und		Sc	uthbou	nd			Е	astbour	nd		We	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	2	0	3	5	0	0	0	0	5	0	2	0	2	2	2	0	4	6	11
07:15 07:30	0	0	3	3	0	0	0	0	3	0	1	2	3	7	2	0	9	12	15
07:30 07:45	2	0	5	7	0	0	0	0	7	0	6	0	6	4	6	0	10	16	23
07:45 08:00	1	0	4	5	0	0	0	0	5	0	9	2	11	5	3	0	8	19	24
08:00 08:15	1	0	1	2	0	0	0	0	2	0	6	0	6	5	3	0	8	14	16
08:15 08:30	1	0	5	6	0	0	0	0	6	0	3	3	6	6	2	0	8	14	20
08:30 08:45	5	0	1	6	0	0	0	0	6	0	3	0	3	6	2	0	8	11	17
08:45 09:00	1	0	3	4	0	0	0	0	4	0	7	2	9	4	4	0	8	17	21
09:00 09:15	1	0	3	4	0	0	0	0	4	0	6	3	9	8	3	0	11	20	24
09:15 09:30	0	0	2	2	0	0	0	0	2	0	9	3	12	7	7	0	14	26	28
09:30 09:45	1	0	5	6	0	0	0	0	6	0	2	1	3	7	3	0	10	13	19
09:45 10:00	0	0	4	4	0	0	0	0	4	0	5	0	5	3	6	0	9	14	18
11:30 11:45	2	0	9	11	0	0	0	0	11	0	3	1	4	5	1	0	6	10	21
11:45 12:00	2	0	8	10	0	0	0	0	10	0	1	4	5	6	5	0	11	16	26
12:00 12:15	2	0	1	3	0	0	0	0	3	0	5	1	6	4	1	0	5	11	14
12:15 12:30	1	0	6	7	0	0	0	0	7	0	4	2	6	7	2	0	9	15	22
12:30 12:45	4	0	6	10	0	0	0	0	10	0	3	2	5	5	3	0	8	13	23
12:45 13:00	0	0	4	4	0	0	0	0	4	0	2	1	3	9	4	0	13	16	20
13:00 13:15	0	0	5	5	0	0	0	0	5	0	2	3	5	8	4	0	12	17	22
13:15 13:30	0	0	6	6	0	0	0	0	6	0	7	1	8	4	3	0	7	15	21
15:00 15:15	2	0	6	8	0	0	0	0	8	0	2	0	2	2	3	0	5	7	15
15:15 15:30	2	0	6	8	0	0	0	0	8	0	5	0	5	4	2	0	6	11	19
15:30 15:45	1	0	2	3	0	0	0	0	3	0	3	0	3	3	5	0	8	11	14
15:45 16:00	3	0	4	7	0	0	0	0	7	0	5	0	5	6	4	0	10	15	22
16:00 16:15	0	0	5	5	0	0	0	0	5	0	2	0	2	4	0	0	4	6	11
16:15 16:30	0	0	7	7	0	0	0	0	7	0	2	2	4	5	4	0	9	13	20
16:30 16:45	1	0	3	4	0	0	0	0	4	0	1	2	3	1	2	0	3	6	10
16:45 17:00	3	0	1	4	0	0	0	0	4	0	2	1	3	2	3	0	5	8	12
17:00 17:15	1	0	3	4	0	0	0	0	4	0	1	1	2	2	2	0	4	6	10
17:15 17:30	1	0	4	5	0	0	0	0	5	0	1	0	1	1	1	0	2	3	8
17:30 17:45	1	0	2	3	0	0	0	0	3	0	1	0	1	1	1	0	2	3	6
17:45 18:00	0	0	3	3	0	0	0	0	3	0	3	0	3	2	1	0	3	6	9
Total: None	41	0	130	171	0	0	0	0	171	0	114	37	151	145	94	0	239	390	561

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Turning Movement Count - Study Results

ALBERT ST @ PRESTON ST

Survey Date: Wednesday, April 02, 2014 WO No: 29661

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total PRESTON ST ALBERT ST

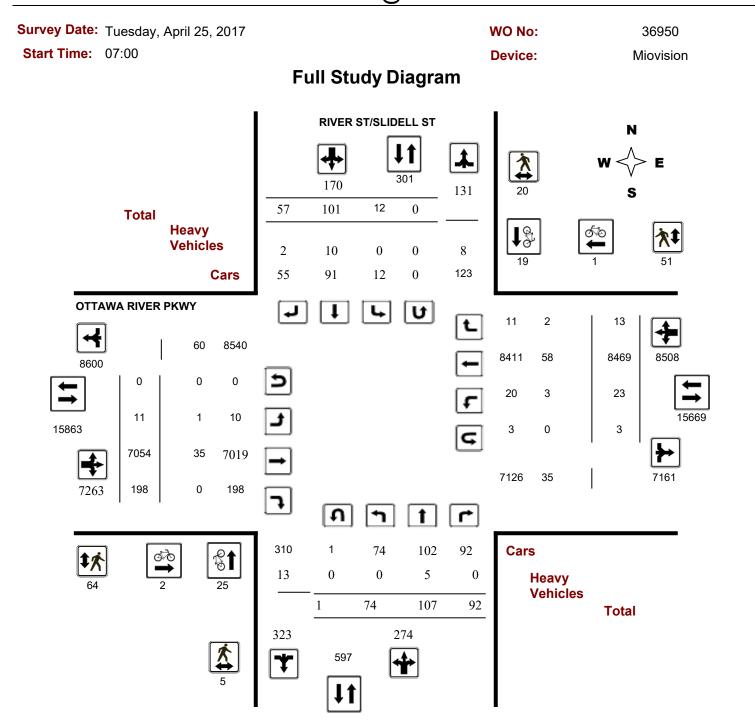
Time F	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	1	0	0	0	1
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	1	0	1
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
To	otal	1	0	1	0	2

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST



March 27, 2020 Page 1 of 8

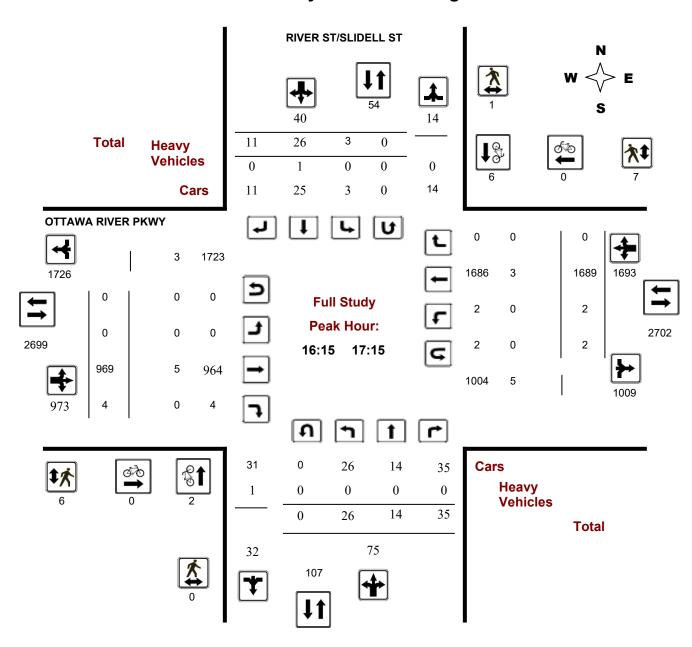


Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date: Tuesday, April 25, 2017 WO No: 36950
Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram

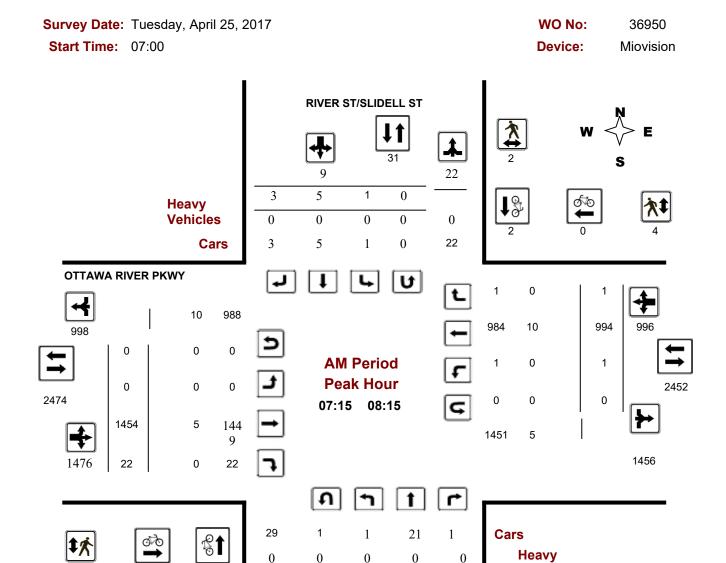


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Turning Movement Count - Peak Hour Diagram

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST



Vehicles

Total

Comments

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1

53

29

21

24

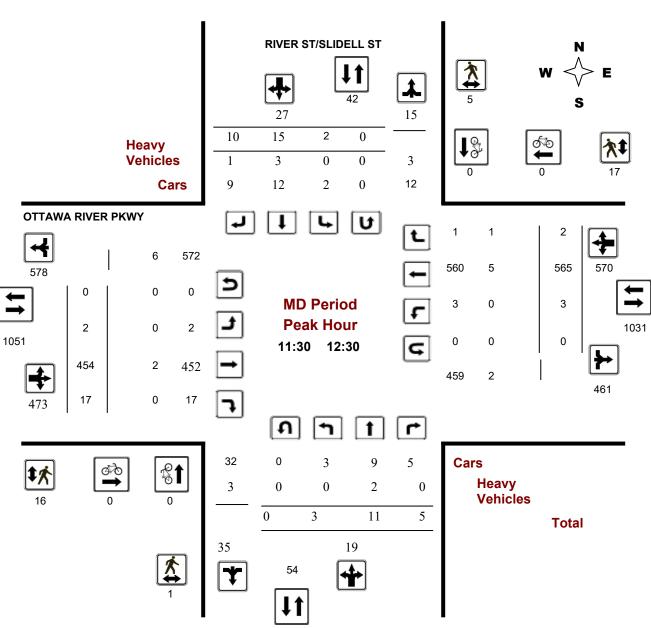
1



Turning Movement Count - Peak Hour Diagram

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date:Tuesday, April 25, 2017WO No:36950Start Time:07:00Device:Miovision



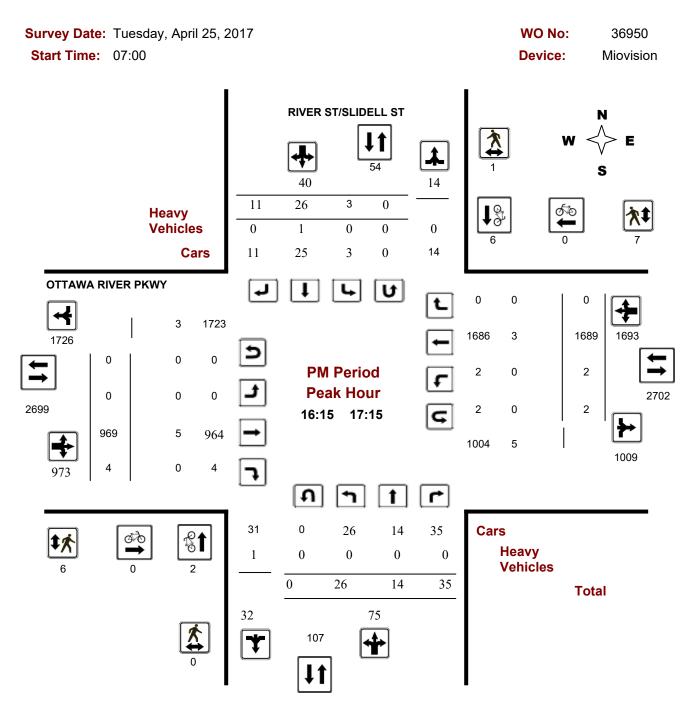
Comments

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Turning Movement Count - Peak Hour Diagram

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST



Comments

2020-Mar-27 Page 3 of 3



Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date: Tuesday, April 25, 2017 WO No: 36950

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Tuesday, April 25, 2017 Total Observed U-Turns AADT Factor

Northbound: 1 Southbound: 0 .90

Eastbound: 0 Westbound: 3

		RI	VER S	ST/SLID	ELL S	ST					0	ΓΤΑW	'A RIVI	ER Pk	(WY				
	Nor	thbou	nd		So	uthbou	nd			Е	astbou	ınd		٧	Vestbou	ınd			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	1	22	0	23	1	4	2	7	30	0	1315	21	1336	0	986	1	987	2323	2353
08:00 09:00	0	28	4	32	0	8	4	12	44	1	1401	39	1441	1	909	1	911	2352	2396
09:00 10:00	2	15	2	19	0	14	5	19	38	2	698	80	780	3	693	5	701	1481	1519
11:30 12:30	3	11	5	19	2	15	10	27	46	2	454	17	473	3	565	2	570	1043	1089
12:30 13:30	4	7	7	18	3	11	6	20	38	6	418	20	444	10	529	1	540	984	1022
15:00 16:00	10	2	22	34	3	9	10	22	56	0	993	12	1005	2	1502	0	1504	2509	2565
16:00 17:00	27	15	38	80	3	24	11	38	118	0	954	3	957	0	1684	0	1684	2641	2759
17:00 18:00	27	7	14	48	0	16	9	25	73	0	821	6	827	4	1601	3	1608	2435	2508
Sub Total	74	107	92	273	12	101	57	170	443	11	7054	198	7263	23	8469	13	8505	15768	16211
U Turns				1				0	1				0				3	3	4
Total	74	107	92	274	12	101	57	170	444	11	7054	198	7263	23	8469	13	8508	15771	16215
EQ 12Hr	103	149	128	381	17	140	79	236	617	15	9805	275	10096	32	11772	18	11826	21922	22539
Note: These \	/alues ar	e calcu	lated by	/ multiply	ing the	totals b	y the ap	opropriate	e expans	ion fac	tor.			1.39					
AVG 12Hr	87	126	108	323	14	119	67	200	555	13	8317	233	8563	27	9985	15	10031	19730	20285
Note: These \	olumes/	are calc	culated	by multip	olying th	ne Equiv	alent 1	2 hr. total	ls by the	AADT	factor.			0.9					
AVG 24Hr	114	165	142	423	19	156	88	263	686	17	10895	306	11218	36	13080	20	13141	24359	25045
Note: These \	olumes/	are calc	culated	by multip	olying th	ne Avera	ige Dail	y 12 hr. t	otals by	12 to 2	4 expan	sion fa	ctor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date: Tuesday, April 25, 2017 WO No: 36950

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

RIVER ST/SLIDELL ST

OTTAWA RIVER PKWY

		No	orthbou	ınd		Sc	uthbou	nd			Е	astbour	nd		W	estboun	nd			
Time Pe	eriod	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	07:15	0	10	0	10	0	0	0	0	1	0	268	8	276	0	246	0	246	1	532
07:15	07:30	1	2	0	3	1	0	1	2	0	0	360	3	363	0	234	1	235	0	603
07:30	07:45	0	2	0	3	0	1	1	2	0	0	312	8	320	0	271	0	271	0	596
07:45	08:00	0	8	0	8	0	3	0	3	0	0	375	2	377	0	235	0	235	0	623
08:00	08:15	0	9	1	10	0	1	1	2	0	0	407	9	416	1	254	0	255	0	683
08:15	08:30	0	11	1	12	0	3	1	4	0	0	338	8	346	0	221	0	221	0	583
08:30	08:45	0	2	0	2	0	2	2	4	0	0	351	9	360	0	193	0	193	0	559
08:45	09:00	0	6	2	8	0	2	0	2	2	1	305	13	319	0	241	1	242	2	571
09:00	09:15	1	3	1	5	0	4	2	6	0	0	249	27	276	1	241	1	243	0	530
09:15	09:30	0	5	0	5	0	2	1	3	1	0	170	24	194	2	171	2	175	1	377
09:30	09:45	0	4	1	5	0	4	1	5	0	1	154	17	172	0	135	0	135	0	317
09:45 1	10:00	1	3	0	4	0	4	1	5	2	1	125	12	138	0	146	2	148	2	295
11:30 1	11:45	1	4	2	7	0	4	3	7	1	0	120	5	125	1	126	0	127	1	266
11:45 1	12:00	0	0	0	0	0	3	5	8	0	2	117	3	122	0	138	0	138	0	268
12:00 1	12:15	1	4	1	6	0	6	1	7	4	0	121	5	126	2	149	2	153	4	292
12:15 1	12:30	1	3	2	6	2	2	1	5	1	0	96	4	100	0	152	0	152	1	263
	12:45	1	0	2	3	1	1	1	3	1	2	112	7	121	3	132	0	135	1	262
12:45 1	13:00	1	1	0	2	1	8	3	12	1	2	92	6	100	2	130	0	132	1	246
13:00 1	13:15	1	3	2	6	1	2	0	3	0	1	100	4	105	1	137	0	138	0	252
	13:30	1	3	3	7	0	0	2	2	0	1	114	3	118	4	130	1	136	0	263
_	15:15	1	1	4	6	3	3	2	8	1	0	262	5	267	1	309	0	310	1	591
	15:30	1	0	8	9	0	5	3	8	1	0	235	1	236	0	424	0	424	1	677
	15:45	4	0	6	10	0	1	1	2	0	0	241	3	244	0	370	0	370	0	626
	16:00	4	1	4	9	0	0	4	4	0	0	255	3	258	1	399	0	400	0	671
	16:15	9	5	9	23	0	1	2	3	0	0	213	0	213	0	450	0	450	0	689
_	16:30	6	3	9	18	3	6	4	13	1	0	255	2	257	0	412	0	412	1	700
	16:45	6	4	13	23	0	12	5	17	0	0	245	0	245	0	432	0	432	0	717
	17:00	6	3	7	16	0	5	0	5	0	0	241	1	242	0	390	0	391	0	654
	17:15	8	4	6	18	0	3	2	5	0	0	228	1	229	2	455	0	458	0	710
	17:30	11	1	4	16	0	8	2	10	0	0	221	4	225	1	388	1	390	0	641
_	17:45	4	0	1	5	0	4	4	8	0	0	209	0	209	0	420	1	421	0	643
	18:00	4	2	3	9	0	1	1	2	0	0	163	1	164	1	338	1	340	0	515
Total:		74	107	92	274	12	101	57	170	17	11	7054	198	7263	23	8469	13	8508	17	16,215

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date: Tuesday, April 25, 2017 WO No: 36950

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

RIVER ST/SLIDELL ST OTTAWA RIVER PKWY

	KIV	EK 31/3LIDEL	LJI	O i	IAWA KIVEK I	- LYAN I	
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 07:15	0	1	1	0	0	0	1
07:15 07:30	1	1	2	0	0	0	2
07:30 07:45	2	1	3	1	0	1	4
07:45 08:00	3	0	3	0	0	0	3
08:00 08:15	4	0	4	0	0	0	4
08:15 08:30	1	0	1	0	0	0	1
08:30 08:45	1	0	1	0	0	0	1
08:45 09:00	1	0	1	0	0	0	1
09:00 09:15	0	0	0	0	0	0	0
09:15 09:30	2	0	2	0	0	0	2
09:30 09:45	2	0	2	0	0	0	2
09:45 10:00	0	0	0	0	0	0	0
11:30 11:45	0	0	0	0	0	0	0
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	0	0	0	0
12:45 13:00	0	0	0	1	0	1	1
13:00 13:15	0	0	0	0	0	0	0
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	0	2	2	0	0	0	2
15:15 15:30	1	0	1	0	0	0	1
15:30 15:45	0	1	1	0	1	1	2
15:45 16:00	0	0	0	0	0	0	0
16:00 16:15	1	3	4	0	0	0	4
16:15 16:30	0	0	0	0	0	0	0
16:30 16:45	0	2	2	0	0	0	2
16:45 17:00	1	3	4	0	0	0	4
17:00 17:15	1	1	2	0	0	0	2
17:15 17:30	1	0	1	0	0	0	1
17:30 17:45	1	1	2	0	0	0	2
17:45 18:00	2	3	5	0	0	0	5
Total	25	19	44	2	1	3	47

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date: Tuesday, April 25, 2017 WO No: 36950

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume

RIVER ST/SLIDELL ST

OTTAWA RIVER PKWY

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	0	0	0	2	0	2	2
07:15 07:30	0	0	0	0	2	2	2
07:30 07:45	0	2	2	2	0	2	4
07:45 08:00	1	0	1	1	2	3	4
08:00 08:15	0	0	0	0	0	0	0
08:15 08:30	0	1	1	2	1	3	4
08:30 08:45	0	0	0	3	3	6	6
08:45 09:00	0	0	0	1	0	1	1
09:00 09:15	2	0	2	0	2	2	4
09:15 09:30	0	0	0	0	0	0	0
09:30 09:45	0	0	0	1	1	2	2
09:45 10:00	0	0	0	0	3	3	3
11:30 11:45	0	0	0	1	3	4	4
11:45 12:00	0	2	2	3	4	7	9
12:00 12:15	1	2	3	3	6	9	12
12:15 12:30	0	1	1	9	4	13	14
12:30 12:45	0	4	4	7	4	11	15
12:45 13:00	0	3	3	9	0	9	12
13:00 13:15	0	2	2	4	1	5	7
13:15 13:30	0	1	1	3	0	3	4
15:00 15:15	0	0	0	0	0	0	0
15:15 15:30	0	0	0	0	2	2	2
15:30 15:45	0	0	0	2	1	3	3
15:45 16:00	0	0	0	0	1	1	1
16:00 16:15	0	1	1	1	0	1	2
16:15 16:30	0	0	0	2	2	4	4
16:30 16:45	0	1	1	1	2	3	4
16:45 17:00	0	0	0	0	1	1	1
17:00 17:15	0	0	0	3	2	5	5
17:15 17:30	0	0	0	2	0	2	2
17:30 17:45	1	0	1	1	1	2	3
17:45 18:00	0	0	0	1	3	4	4
Total	5	20	25	64	51	115	140

March 27, 2020 Page 6 of 8



Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date: Tuesday, April 25, 2017 WO No: 36950

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

RIVER ST/SLIDELL ST

OTTAWA RIVER PKWY

	1	Northbo	und		Sc	uthbou	ınd			E	astbour	nd		We	estbour	nd			
Time Period	d LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:1	5 0	1	0	1	0	0	0	0	1	0	0	0	0	0	3	0	3	3	4
07:15 07:3	0 0	0	0	0	0	0	0	0	0	0	3	0	3	0	2	0	2	5	5
07:30 07:4	5 0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
07:45 08:0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3	3
08:00 08:1	5 0	0	0	0	0	0	0	0	0	0	1	0	1	0	4	0	4	5	5
08:15 08:3	0 0	0	0	0	0	0	0	0	0	0	2	0	2	0	3	0	3	5	5
08:30 08:4	5 0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
08:45 09:0	0 0	1	0	1	0	1	0	1	2	1	3	0	4	0	4	0	4	8	10
09:00 09:1	5 0	0	0	0	0	0	0	0	0	0	3	0	3	0	4	0	4	7	7
09:15 09:3	0 0	1	0	1	0	0	0	0	1	0	2	0	2	1	2	0	3	5	6
09:30 09:4	5 0	0	0	0	0	0	0	0	0	0	5	0	5	0	3	0	3	8	8
09:45 10:0	0 0	0	0	0	0	1	1	2	2	0	0	0	0	0	6	1	7	7	9
11:30 11:4	5 0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	1	1	2
11:45 12:0	0 0	0	0	0	0	0	0	0	0	0	2	0	2	0	2	0	2	4	4
12:00 12:1	5 0	2	0	2	0	2	0	2	4	0	0	0	0	0	2	1	3	3	7
12:15 12:3	0 0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1
12:30 12:4	5 0	0	0	0	0	1	0	1	1	0	1	0	1	1	2	0	3	4	5
12:45 13:0	0 0	0	0	0	0	1	0	1	1	0	1	0	1	0	0	0	0	1	2
13:00 13:1	5 0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
13:15 13:3	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 15:1	5 0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	1	1	2
15:15 15:3	0 0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0	1	1	2
15:30 15:4	5 0	0	0	0	0	0	0	0	0	0	2	0	2	0	4	0	4	6	6
15:45 16:0	0 0	0	0	0	0	0	0	0	0	0	2	0	2	0	4	0	4	6	6
16:00 16:1	5 0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
16:15 16:3	0 0	0	0	0	0	1	0	1	1	0	1	0	1	0	0	0	0	1	2
16:30 16:4	5 0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
16:45 17:0	0 0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0	1	3	3
17:00 17:1	5 0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	2	3	3
17:15 17:3	0 0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
17:30 17:4	5 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45 18:0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	2	2
Total: Non	e 0	5	0	5	0	10	2	12	17	1	35	0	36	3	58	2	63	99	116

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST

Survey Date: Tuesday, April 25, 2017 WO No: 36950

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total

RIVER ST/SLIDELL ST OTTAWA RIVER PKWY

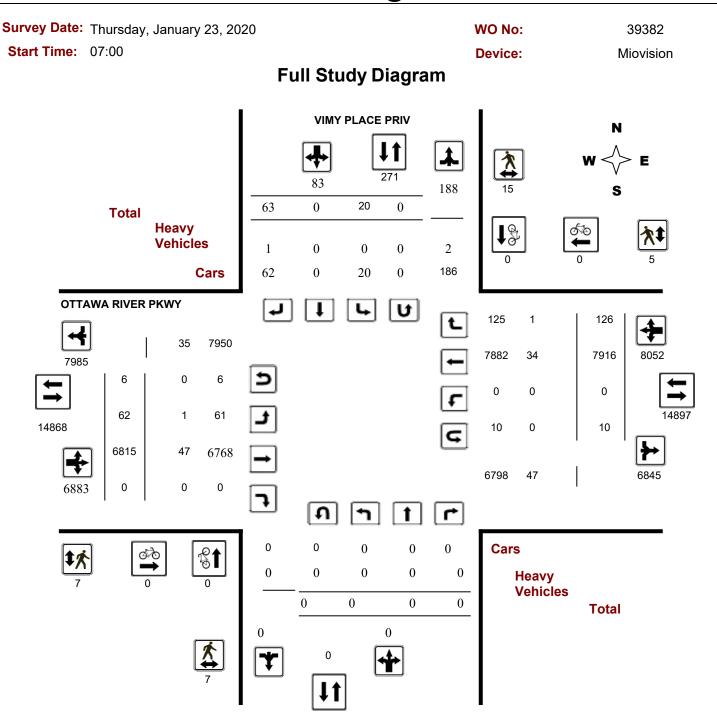
Time I	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	1	0	0	0	1
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	1	1
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	1	1
17:00	17:15	0	0	0	1	1
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
To	otal	1	0	0	3	4

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV



5472221 - THU JAN 23, 2020 - 8HRS - LORETTA

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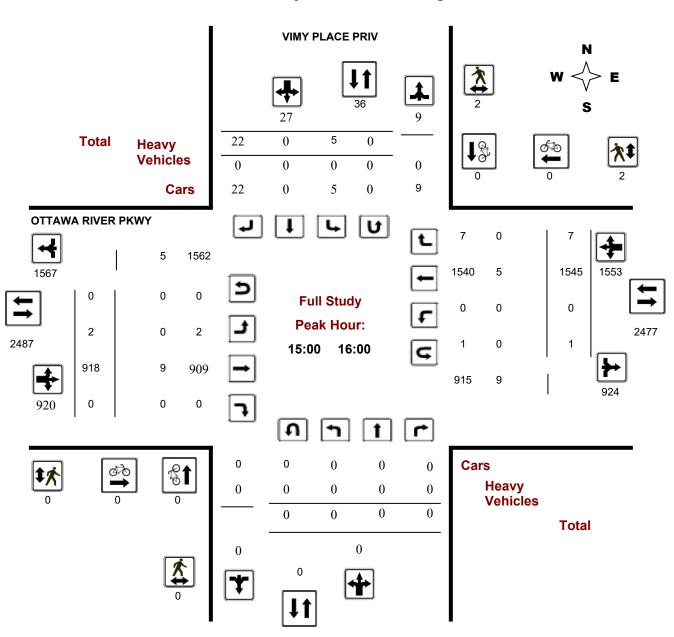
Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV

Survey Date: Thursday, January 23, 2020 WO No: 39382

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



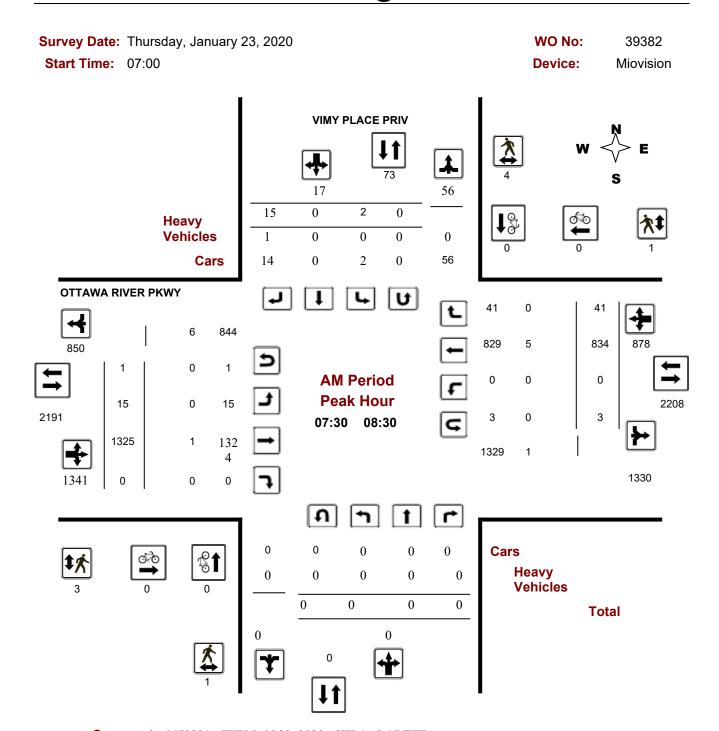
5472221 - THU JAN 23, 2020 - 8HRS - LORETTA

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Turning Movement Count - Peak Hour Diagram

OTTAWA RIVER PKWY @ VIMY PLACE PRIV



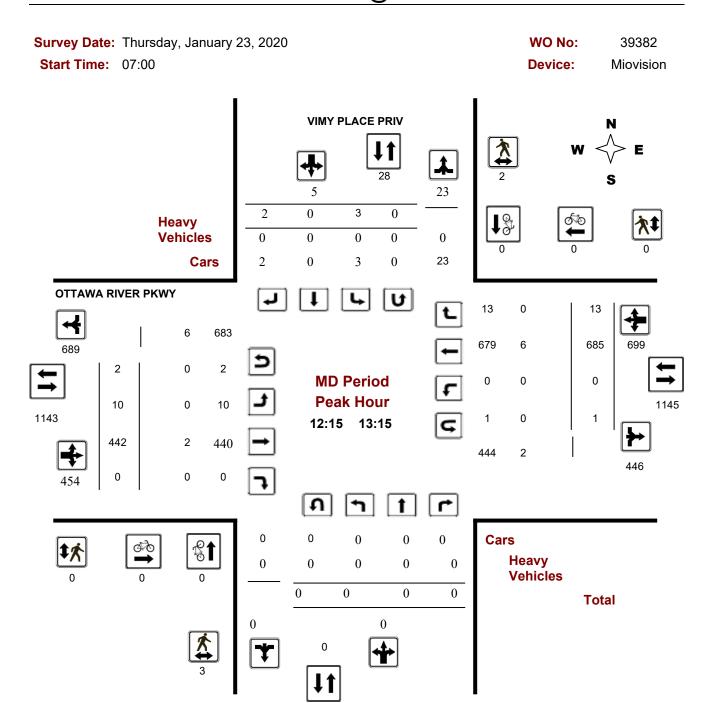
Comments 5472221 - THU JAN 23, 2020 - 8HRS - LORETTA

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Turning Movement Count - Peak Hour Diagram

OTTAWA RIVER PKWY @ VIMY PLACE PRIV



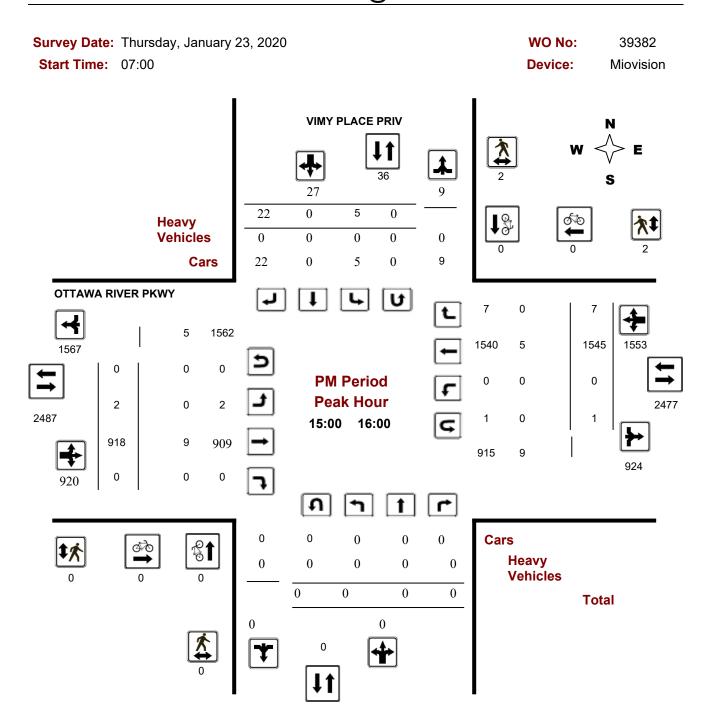
Comments 5472221 - THU JAN 23, 2020 - 8HRS - LORETTA

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Turning Movement Count - Peak Hour Diagram

OTTAWA RIVER PKWY @ VIMY PLACE PRIV



Comments 5472221 - THU JAN 23, 2020 - 8HRS - LORETTA

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV

Survey Date: Thursday, January 23, 2020 WO No: 39382

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Thursday, January 23, 2020 Total Observed U-Turns AADT Factor

Northbound: 0 Southbound: 0

1.00

Eastbound: 6 Westbound: 10

		\	/IMY I	PLACE	PRIV						07	ΓΤΑW	'A RIV	ER Pk	(WY				
	Nor	thbou	nd		Sou	uthbou	ınd		<u> </u>	E	astbou	ınd		٧	Vestbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	0	0	0	0	3	0	12	15	15	11	1280	0	1291	0	830	26	856	2147	2162
08:00 09:00	0	0	0	0	0	0	7	7	7	21	1338	0	1359	0	780	38	818	2177	2184
09:00 10:00	0	0	0	0	0	0	4	4	4	6	904	0	910	0	523	11	534	1444	1448
11:30 12:30	0	0	0	0	4	0	2	6	6	3	403	0	406	0	613	4	617	1023	1029
12:30 13:30	0	0	0	0	1	0	2	3	3	12	414	0	426	0	660	15	675	1101	1104
15:00 16:00	0	0	0	0	5	0	22	27	27	2	918	0	920	0	1545	7	1552	2472	2499
16:00 17:00	0	0	0	0	5	0	7	12	12	3	823	0	826	0	1637	6	1643	2469	2481
17:00 18:00	0	0	0	0	2	0	7	9	9	4	735	0	739	0	1328	19	1347	2086	2095
Sub Total	0	0	0	0	20	0	63	83	83	62	6815	0	6877	0	7916	126	8042	14919	15002
U Turns				0				0	0				6				10	16	16
Total	0	0	0	0	20	0	63	83	83	62	6815	0	6883	0	7916	126	8052	14935	15018
EQ 12Hr	0	0	0	0	28	0	88	115	115	86	9473	0	9567	0	11003	175	11192	20760	20875
Note: These v	alues ar	e calcu	lated by	/ multiply	ing the	totals b	y the a _l	opropriate	expans	ion fac	tor.			1.39					
AVG 12Hr	0	0	0	0	26	0	83	109	115	81	8928	0	9017	0	10370	165	10548	20760	20875
Note: These v	olumes	are calc	culated	by multip	lying th	e Equiv	alent 1	2 hr. total	s by the	AADT	factor.			1					
AVG 24Hr	0	0	0	0	34	0	108	142	142	106	11695	0	11812	0	13585	216	13818	25630	25772
Note: These v	olumes	are calc	culated	by multip	olying th	e Avera	ige Dai	ly 12 hr. t	otals by	12 to 2	4 expans	sion fac	ctor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV

Survey Date: Thursday, January 23, 2020 WO No: 39382

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

VIMY PLACE PRIV

OTTAWA RIVER PKWY

		No	orthbou	und		Sc	uthbou	ınd			Е	astbour	nd		W	estboun	d			
Time F	Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	07:15	0	0	0	0	0	0	0	0	0	0	308	0	308	0	194	5	199	0	507
07:15	07:30	0	0	0	0	1	0	1	2	0	3	321	0	325	0	215	5	221	0	548
07:30	07:45	0	0	0	0	1	0	4	5	1	4	330	0	334	0	216	9	226	1	565
07:45	08:00	0	0	0	0	1	0	7	8	0	4	321	0	326	0	205	7	212	0	546
08:00	08:15	0	0	0	0	0	0	4	4	0	2	337	0	339	0	214	11	226	0	569
08:15	08:30	0	0	0	0	0	0	0	0	0	5	337	0	342	0	199	14	214	0	556
08:30	08:45	0	0	0	0	0	0	1	1	0	8	348	0	356	0	195	8	203	0	560
08:45	09:00	0	0	0	0	0	0	2	2	0	6	316	0	322	0	172	5	177	0	501
09:00	09:15	0	0	0	0	0	0	2	2	0	3	291	0	294	0	142	4	146	0	442
09:15	09:30	0	0	0	0	0	0	1	1	0	1	258	0	259	0	117	2	120	0	380
09:30	09:45	0	0	0	0	0	0	0	0	0	0	178	0	178	0	150	3	154	0	332
09:45	10:00	0	0	0	0	0	0	1	1	0	2	177	0	179	0	114	2	117	0	297
11:30	11:45	0	0	0	0	1	0	1	2	0	1	94	0	95	0	123	0	123	0	220
11:45	12:00	0	0	0	0	0	0	0	0	0	0	107	0	108	0	150	1	152	0	260
12:00	12:15	0	0	0	0	1	0	1	2	0	1	96	0	97	0	148	3	151	0	250
12:15	12:30	0	0	0	0	2	0	0	2	0	1	106	0	107	0	192	0	192	0	301
12:30	12:45	0	0	0	0	0	0	1	1	0	5	119	0	125	0	152	1	153	0	279
12:45	13:00	0	0	0	0	1	0	1	2	0	2	103	0	106	0	145	2	147	0	255
13:00	13:15	0	0	0	0	0	0	0	0	0	2	114	0	116	0	196	10	207	0	323
13:15	13:30	0	0	0	0	0	0	0	0	0	3	78	0	81	0	167	2	169	0	250
15:00	15:15	0	0	0	0	2	0	5	7	0	0	250	0	250	0	392	2	395	0	652
15:15	15:30	0	0	0	0	3	0	9	12	0	1	221	0	222	0	459	1	460	0	694
15:30	15:45	0	0	0	0	0	0	6	6	0	1	222	0	223	0	318	1	319	0	548
15:45	16:00	0	0	0	0	0	0	2	2	0	0	225	0	225	0	376	3	379	0	606
16:00	16:15	0	0	0	0	1	0	0	1	0	0	191	0	192	0	399	2	401	0	594
16:15	16:30	0	0	0	0	3	0	4	7	0	0	212	0	212	0	438	2	440	0	659
16:30	16:45	0	0	0	0	1	0	2	3	0	0	193	0	193	0	400	1	401	0	597
16:45	17:00	0	0	0	0	0	0	1	1	0	3	227	0	230	0	400	1	401	0	632
17:00	17:15	0	0	0	0	1	0	4	5	0	1	209	0	210	0	389	7	396	0	611
17:15	17:30	0	0	0	0	1	0	1	2	0	1	195	0	196	0	361	6	367	0	565
17:30	17:45	0	0	0	0	0	0	1	1	0	1	169	0	170	0	324	3	327	0	498
17:45	18:00	0	0	0	0	0	0	1	1	0	1	162	0	163	0	254	3	257	0	421
Total:		0	0	0	0	20	0	63	83	1	62	6815	0	6883	0	7916	126	8052	1	15,018

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV

Survey Date: Thursday, January 23, 2020 WO No: 39382

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

VIMY PLACE PRIV OTTAWA RIVER PKWY

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	 Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	0	0	0	0
07:30 07:45	0	0	0	0	0	0	0
07:45 08:00	0	0	0	0	0	0	0
08:00 08:15	0	0	0	0	0	0	0
08:15 08:30	0	0	0	0	0	0	0
08:30 08:45	0	0	0	0	0	0	0
08:45 09:00	0	0	0	0	0	0	0
09:00 09:15	0	0	0	0	0	0	0
09:15 09:30	0	0	0	0	0	0	0
09:30 09:45	0	0	0	0	0	0	0
09:45 10:00	0	0	0	0	0	0	0
11:30 11:45	0	0	0	0	0	0	0
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	0	0	0	0
12:45 13:00	0	0	0	0	0	0	0
13:00 13:15	0	0	0	0	0	0	0
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	0	0	0	0	0	0	0
15:15 15:30	0	0	0	0	0	0	0
15:30 15:45	0	0	0	0	0	0	0
15:45 16:00	0	0	0	0	0	0	0
16:00 16:15	0	0	0	0	0	0	0
16:15 16:30	0	0	0	0	0	0	0
16:30 16:45	0	0	0	0	0	0	0
16:45 17:00	0	0	0	0	0	0	0
17:00 17:15	0	0	0	0	0	0	0
17:15 17:30	0	0	0	0	0	0	0
17:30 17:45	0	0	0	0	0	0	0
17:45 18:00	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV

Survey Date: Thursday, January 23, 2020 WO No: 39382

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume

VIMY PLACE PRIV

OTTAWA RIVER PKWY

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	0	0	0	0
07:30 07:45	0	0	0	0	0	0	0
07:45 08:00	0	0	0	0	0	0	0
08:00 08:15	1	3	4	3	1	4	8
08:15 08:30	0	1	1	0	0	0	1
08:30 08:45	0	2	2	0	0	0	2
08:45 09:00	0	1	1	0	0	0	1
09:00 09:15	0	0	0	0	0	0	0
09:15 09:30	0	1	1	0	0	0	1
09:30 09:45	0	0	0	0	0	0	0
09:45 10:00	0	0	0	0	0	0	0
11:30 11:45	0	0	0	0	0	0	0
11:45 12:00	0	0	0	0	1	1	1
12:00 12:15	2	2	4	2	0	2	6
12:15 12:30	0	1	1	0	0	0	1
12:30 12:45	0	0	0	0	0	0	0
12:45 13:00	2	0	2	0	0	0	2
13:00 13:15	1	1	2	0	0	0	2
13:15 13:30	0	0	0	1	1	2	2
15:00 15:15	0	1	1	0	0	0	1
15:15 15:30	0	1	1	0	2	2	3
15:30 15:45	0	0	0	0	0	0	0
15:45 16:00	0	0	0	0	0	0	0
16:00 16:15	0	0	0	0	0	0	0
16:15 16:30	0	0	0	0	0	0	0
16:30 16:45	0	0	0	0	0	0	0
16:45 17:00	0	0	0	0	0	0	0
17:00 17:15	0	0	0	0	0	0	0
17:15 17:30	1	0	1	1	0	1	2
17:30 17:45	0	1	1	0	0	0	1
17:45 18:00	0	0	0	0	0	0	0
Total	7	15	22	7	5	12	34

5472221 - THU JAN 23, 2020 - 8HRS - LORETTA

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV

Survey Date: Thursday, January 23, 2020 WO No: 39382

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

VIMY PLACE PRIV

OTTAWA RIVER PKWY

	N	orthbou	und		Sc	uthbou	ınd			E	astbour	nd		We	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
07:15 07:30	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	2	3	3
07:30 07:45	0	0	0	0	0	0	1	1	1	0	0	0	0	0	3	0	3	3	4
07:45 08:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
08:00 08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
08:15 08:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 08:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2
08:45 09:00	0	0	0	0	0	0	0	0	0	0	3	0	3	0	2	0	2	5	5
09:00 09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 09:30	0	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	5	5
09:30 09:45	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3	3
09:45 10:00	0	0	0	0	0	0	0	0	0	0	3	0	3	0	1	0	1	4	4
11:30 11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
11:45 12:00	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2	2
12:00 12:15	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	2	3	3
12:15 12:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	2
12:30 12:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3	3
12:45 13:00	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
13:00 13:15	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
13:15 13:30	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
15:00 15:15	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2	2
15:15 15:30	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0	1	3	3
15:30 15:45	0	0	0	0	0	0	0	0	0	0	3	0	3	0	2	0	2	5	5
15:45 16:00	0	0	0	0	0	0	0	0	0	0	2	0	2	0	2	0	2	4	4
16:00 16:15	0	0	0	0	0	0	0	0	0	0	3	0	3	0	2	0	2	5	5
16:15 16:30	0	0	0	0	0	0	0	0	0	0	3	0	3	0	1	0	1	4	4
16:30 16:45	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
16:45 17:00	0	0	0	0	0	0	0	0	0	0	3	0	3	0	3	0	3	6	6
17:00 17:15	0	0	0	0	0	0	0	0	0	0	3	0	3	0	1	0	1	4	4
17:15 17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:30 17:45	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	2
17:45 18:00	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2	2
Total: None	0	0	0	0	0	0	1	1	1	1	47	0	48	0	34	1	35	83	84

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Turning Movement Count - Study Results

OTTAWA RIVER PKWY @ VIMY PLACE PRIV

Survey Date: Thursday, January 23, 2020 WO No: 39382

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total

VIMY PLACE PRIV OTTAWA RIVER PKWY

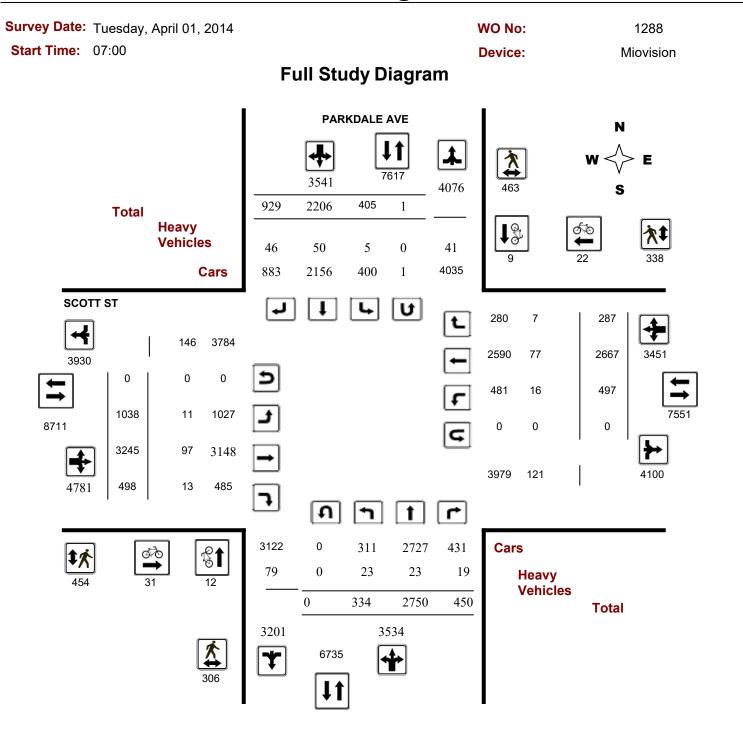
07.00	07:15			U-Turn Total	U-Turn Total	
07:00		0	0	0	0	0
07:15	07:30	0	0	1	1	2
07:30	07:45	0	0	0	1	1
07:45	08:00	0	0	1	0	1
08:00	08:15	0	0	0	1	1
08:15	08:30	0	0	0	1	1
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	1	1
09:30	09:45	0	0	0	1	1
09:45	10:00	0	0	0	1	1
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	1	1	2
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	1	0	1
12:45	13:00	0	0	1	0	1
13:00	13:15	0	0	0	1	1
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	1	1
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	1	0	1
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
Te	otal	0	0	6	10	16

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST



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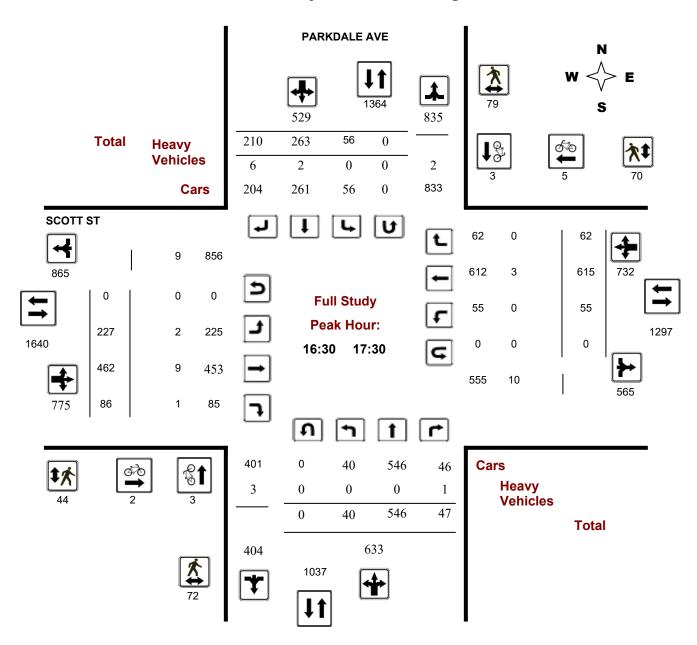
Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



March 27, 2020 Page 2 of 8

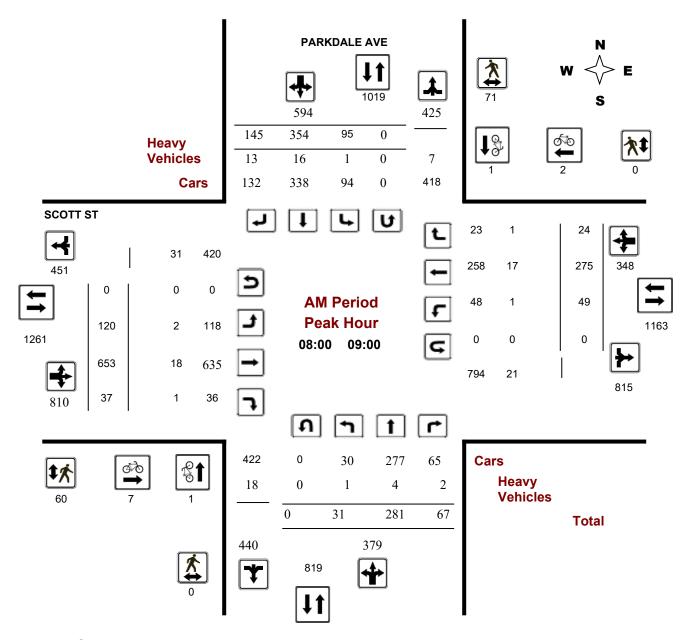


Turning Movement Count - Peak Hour Diagram

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision



Comments

2020-Mar-27 Page 1 of 3

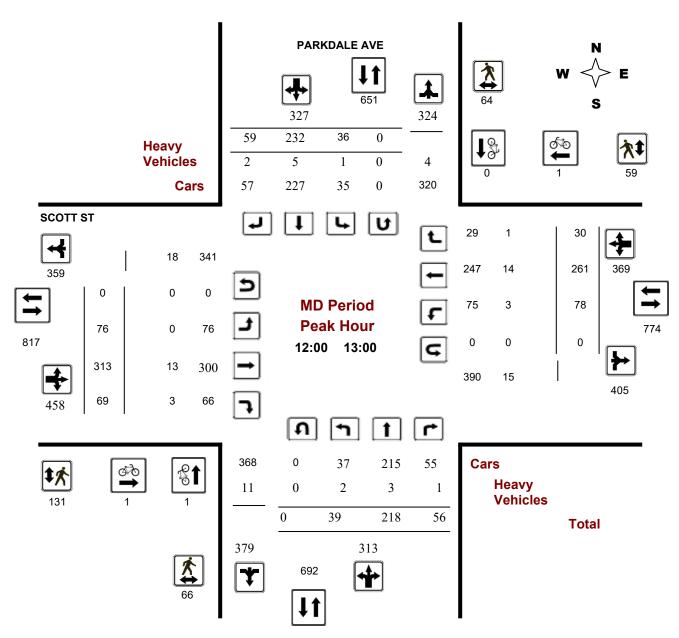


Turning Movement Count - Peak Hour Diagram

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision



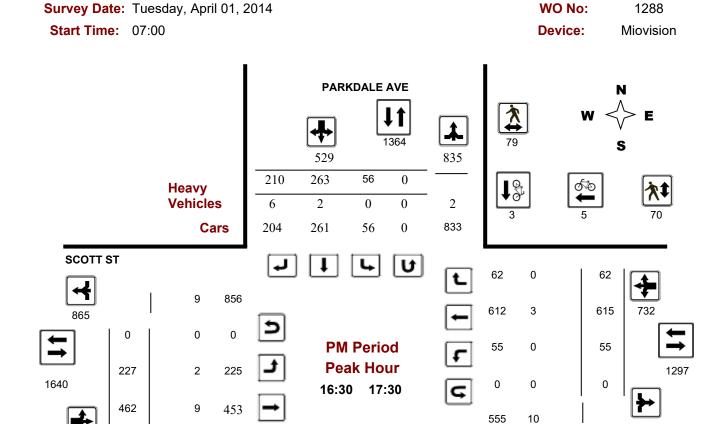
Comments

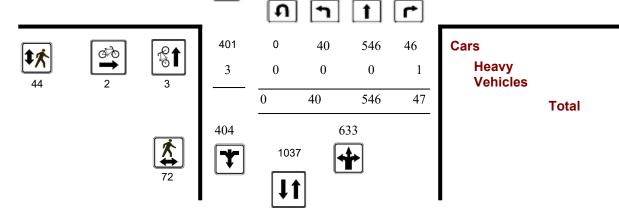
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Turning Movement Count - Peak Hour Diagram

PARKDALE AVE @ SCOTT ST





565

Comments

86

1

85

7

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Tuesday, April 01, 2014 Total Observed U-Turns AADT Factor

Northbound: 0 Southbound: 1 .90

Eastbound: 0 Westbound: 0

PARKDALE AVE

SCOT

			PAR	KDALE	AVE							S	COTT	ST					
	No	rthbou	nd		So	uthbou	und			Е	astbou	ınd		٧	Vestbo	und			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	30	227	47	304	63	381	139	583	887	79	356	44	479	59	198	21	278	757	1644
08:00 09:00	31	281	67	379	95	354	145	594	973	120	653	37	810	49	275	24	348	1158	2131
09:00 10:00	53	216	61	330	34	264	89	387	717	58	377	54	489	63	221	24	308	797	1514
11:30 12:30	41	194	60	295	43	240	75	358	653	66	316	68	450	55	240	33	328	778	1431
12:30 13:30	48	235	54	337	35	218	55	308	645	70	289	67	426	79	256	31	366	792	1437
15:00 16:00	53	508	63	624	34	244	106	384	1008	202	367	72	641	50	349	36	435	1076	2084
16:00 17:00	34	590	47	671	55	237	166	458	1129	238	461	65	764	52	550	65	667	1431	2560
17:00 18:00	44	499	51	594	46	268	154	468	1062	205	426	91	722	90	578	53	721	1443	2505
Sub Total	334	2750	450	3534	405	2206	929	3540	7074	1038	3245	498	4781	497	2667	287	3451	8232	15306
U Turns				0				1	1				0				0	0	1
Total	334	2750	450	3534	405	2206	929	3541	7075	1038	3245	498	4781	497	2667	287	3451	8232	15307
EQ 12Hr	464	3822	626	4912	563	3066	1291	4922	9834	1443	4511	692	6646	691	3707	399	4797	11442	21277
Note: These	values a	re calcul	lated by	/ multiply	ing the	totals b	y the ap	opropriat	e expans	sion fac	tor.			1.39					
AVG 12Hr	394	3242	531	4167	477	2601	1095	4175	8851	1224	3826	587	5637	586	3144	338	4069	10298	19149
Note: These	volumes	are calc	culated	by multip	olying t	he Equiv	valent 1	2 hr. tota	als by the	AADT	factor.			0.9					
AVG 24Hr	516	4247	695	5458	626	3407	1435	5469	10927	1603	5012	769	7384	768	4119	443	5330	12714	23641
Note: These	volumes	are calc	culated	by multip	olying t	he Avera	age Dail	ly 12 hr.	totals by	12 to 2	4 expan	sion fac	tor.	1.31					

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments

PARKDALE AVE

SCOTT ST

		N	orthbou	und		Sc	uthbou	nd			Е	astbour	nd		W	estbour	nd			
Time I	Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	07:15	2	75	6	83	14	94	30	138	3	13	58	8	79	11	43	4	58	3	358
07:15	07:30	9	49	11	69	11	102	31	144	7	16	76	11	103	17	41	4	62	7	378
07:30	07:45	4	52	12	68	16	93	36	145	4	25	97	12	134	15	58	9	82	4	429
07:45	08:00	15	51	18	84	22	92	42	156	4	25	125	13	163	16	56	4	76	4	479
08:00	08:15	11	77	11	99	31	80	27	138	7	30	171	5	206	14	72	6	92	7	535
08:15	08:30	9	67	12	88	16	92	36	144	5	29	166	7	202	7	61	4	72	5	506
08:30	08:45	6	63	23	92	23	96	38	157	13	37	149	11	197	12	65	7	84	13	530
08:45	09:00	5	74	21	100	25	86	44	155	12	24	167	14	205	16	77	7	100	12	560
09:00	09:15	15	72	14	101	12	69	28	109	5	19	132	13	164	13	67	11	91	5	465
09:15	09:30	16	65	22	103	7	78	31	116	13	18	92	9	119	12	59	6	77	13	415
09:30	09:45	12	28	9	49	10	77	17	104	3	13	94	19	126	22	47	3	72	3	351
09:45	10:00	10	51	16	77	5	40	13	58	5	8	59	13	80	16	48	4	68	5	283
11:30	11:45	16	43	16	75	10	60	24	95	5	15	84	14	113	14	58	5	77	5	360
11:45	12:00	10	54	13	77	17	60	20	97	5	14	78	13	105	10	58	17	85	5	364
12:00	12:15	11	47	13	71	11	61	11	83	4	13	93	21	127	17	64	6	87	4	368
12:15	12:30	4	50	18	72	5	59	20	84	3	24	61	20	105	14	60	5	79	3	340
12:30	12:45	12	64	12	88	10	52	16	78	5	20	67	11	98	26	67	11	104	5	368
12:45	13:00	12	57	13	82	10	60	12	82	2	19	92	17	128	21	70	8	99	2	391
13:00	13:15	11	63	11	85	6	54	12	72	5	11	70	19	100	18	64	8	90	5	347
13:15	13:30	13	51	18	82	9	52	15	76	8	20	60	20	100	14	55	4	73	8	331
15:00	15:15	14	109	12	135	7	72	20	99	5	31	76	19	126	12	64	5	81	5	441
15:15	15:30	14	130	14	158	5	59	28	92	9	61	96	27	184	15	73	10	98	9	532
15:30	15:45	14	138	18	170	12	61	31	104	5	48	97	9	154	9	100	9	118	5	546
15:45	16:00	11	131	19	161	10	52	27	89	6	62	98	17	177	14	112	12	138	6	565
16:00	16:15	10	149	11	170	15	55	23	93	2	63	123	13	199	22	130	12	164	2	626
16:15	16:30	7	156	13	176	7	56	35	98	4	59	108	14	181	13	137	25	175	4	630
16:30	16:45	7	158	15	180	16	63	49	128	2	58	131	20	209	6	134	17	157	2	674
16:45	17:00	10	127	8	145	17	63	59	139	3	58	99	18	175	11	149	11	171	3	630
17:00	17:15	13	125	16	154	13	79	53	145	3	50	138	23	211	19	169	22	210	3	720
17:15	17:30	10	136	8	154	10	58	49	117	1	61	94	25	180	19	163	12	194	1	645
17:30	17:45	15	127	12	154	12	77	30	119	6	46	93	24	163	32	122	6	160	6	596
17:45	18:00	6	111	15	132	11	54	22	87	2	48	101	19	168	20	124	13	157	2	544
Total:		334	2750	450	3534	405	2206	929	3541	166	1038	3245	498	4781	497	2667	287	3451	166	15,307

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

PARKDALE AVE SCOTT ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	 Grand Total
07:00 07:15	0	0	0	3	0	3	3
07:15 07:30	0	0	0	1	0	1	1
07:30 07:45	2	0	2	2	1	3	5
07:45 08:00	0	0	0	2	0	2	2
08:00 08:15	0	1	1	2	1	3	4
08:15 08:30	1	0	1	2	0	2	3
08:30 08:45	0	0	0	1	0	1	1
08:45 09:00	0	0	0	2	1	3	3
09:00 09:15	0	0	0	3	0	3	3
09:15 09:30	0	0	0	0	1	1	1
09:30 09:45	0	0	0	1	0	1	1
09:45 10:00	0	0	0	0	0	0	0
11:30 11:45	0	0	0	0	0	0	0
11:45 12:00	0	0	0	0	0	0	0
12:00 12:15	1	0	1	0	0	0	1
12:15 12:30	0	0	0	0	0	0	0
12:30 12:45	0	0	0	1	1	2	2
12:45 13:00	0	0	0	0	0	0	0
13:00 13:15	1	0	1	1	0	1	2
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	0	0	0	1	0	1	1
15:15 15:30	0	1	1	1	0	1	2
15:30 15:45	0	1	1	1	0	1	2
15:45 16:00	0	1	1	0	0	0	1
16:00 16:15	2	1	3	2	0	2	5
16:15 16:30	2	1	3	2	1	3	6
16:30 16:45	2	0	2	0	2	2	4
16:45 17:00	0	0	0	0	2	2	2
17:00 17:15	0	1	1	0	1	1	2
17:15 17:30	1	2	3	2	0	2	5
17:30 17:45	0	0	0	1	2	3	3
17:45 18:00	0	0	0	0	9	9	9
Total	12	9	21	31	22	53	74

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume SCOTT ST

PARKDALE AVE

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	7	13	20	12	6	18	38
07:15 07:30	4	14	18	8	12	20	38
07:30 07:45	8	18	26	9	12	21	47
07:45 08:00	18	17	35	20	10	30	65
08:00 08:15	0	23	23	11	0	11	34
08:15 08:30	0	10	10	16	0	16	26
08:30 08:45	0	18	18	19	0	19	37
08:45 09:00	0	20	20	14	0	14	34
09:00 09:15	1	1	2	8	0	8	10
09:15 09:30	2	6	8	11	0	11	19
09:30 09:45	2	4	6	11	9	20	26
09:45 10:00	3	2	5	8	6	14	19
11:30 11:45	6	14	20	8	13	21	41
11:45 12:00	9	11	20	12	13	25	45
12:00 12:15	15	28	43	32	22	54	97
12:15 12:30	19	17	36	33	15	48	84
12:30 12:45	15	12	27	29	12	41	68
12:45 13:00	17	7	24	37	10	47	71
13:00 13:15	6	11	17	10	8	18	35
13:15 13:30	9	6	15	16	10	26	41
15:00 15:15	1	4	5	10	9	19	24
15:15 15:30	12	13	25	15	11	26	51
15:30 15:45	13	21	34	15	23	38	72
15:45 16:00	9	18	27	10	15	25	52
16:00 16:15	15	16	31	12	15	27	58
16:15 16:30	17	21	38	14	10	24	62
16:30 16:45	16	17	33	14	18	32	65
16:45 17:00	16	22	38	10	22	32	70
17:00 17:15	18	21	39	14	15	29	68
17:15 17:30	22	19	41	6	15	21	62
17:30 17:45	7	14	21	5	10	15	36
17:45 18:00	19	25	44	5	17	22	66
Total	306	463	769	454	338	792	1561

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

PARKDALE AVE SCOTT ST

	N	lorthbo	und		Sc	uthbou	ınd			Е	astbour	nd		We	estbour	nd			
Time Period	i LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:1	5 0	1	0	1	0	0	2	2	3	1	3	1	5	0	2	0	2	7	10
07:15 07:3	0 1	0	0	1	1	1	4	6	7	0	3	1	4	0	3	0	3	7	14
07:30 07:4	5 0	1	0	1	1	1	1	3	4	2	3	0	5	1	5	0	6	11	15
07:45 08:0	0 1	0	1	2	0	1	1	2	4	0	2	0	2	0	2	0	2	4	8
08:00 08:1	5 1	2	0	3	0	0	4	4	7	1	6	0	7	1	6	0	7	14	21
08:15 08:3	0 0	1	0	1	0	1	3	4	5	0	2	0	2	0	3	0	3	5	10
08:30 08:4	5 0	1	2	3	0	7	3	10	13	1	4	0	5	0	4	0	4	9	22
08:45 09:0	0 0	0	0	0	1	8	3	12	12	0	6	1	7	0	4	1	5	12	24
09:00 09:1	5 0	1	1	2	0	2	1	3	5	1	3	0	4	0	2	0	2	6	11
09:15 09:3	0 0	1	4	5	0	8	0	8	13	0	4	0	4	1	1	2	4	8	21
09:30 09:4	5 0	1	0	1	0	2	0	2	3	0	6	1	7	3	3	0	6	13	16
09:45 10:0	0 2	1	2	5	0	0	0	0	5	0	2	1	3	0	2	0	2	5	10
11:30 11:4	5 0	3	0	3	0	1	1	2	5	0	1	1	2	2	2	0	4	6	11
11:45 12:0	0 0	1	2	3	0	2	0	2	5	1	2	0	3	1	2	0	3	6	11
12:00 12:1	5 0	0	0	0	0	3	1	4	4	0	3	1	4	0	3	0	3	7	11
12:15 12:3	0 0	1	1	2	0	1	0	1	3	0	3	1	4	1	6	0	7	11	14
12:30 12:4	5 2	1	0	3	0	1	1	2	5	0	4	1	5	0	3	1	4	9	14
12:45 13:0	0 0	1	0	1	1	0	0	1	2	0	3	0	3	2	2	0	4	7	9
13:00 13:1	5 1	0	1	2	1	1	1	3	5	0	4	1	5	1	1	0	2	7	12
13:15 13:3	0 1	2	1	4	0	4	0	4	8	0	2	0	2	1	2	1	4	6	14
15:00 15:1	5 4	0	0	4	0	0	1	1	5	0	3	0	3	0	5	0	5	8	13
15:15 15:3	0 3	2	0	5	0	1	3	4	9	2	3	0	5	0	3	2	5	10	19
15:30 15:4	5 2	0	1	3	0	1	1	2	5	0	3	0	3	0	2	0	2	5	10
15:45 16:0	0 3	0	1	4	0	0	2	2	6	0	5	2	7	1	3	0	4	11	17
16:00 16:1	_	0	0	1	0	1	0	1	2	0	3	0	3	1	0	0	1	4	6
16:15 16:3	_	0	0	1	0	0	3	3	4	0	1	0	1	0	0	0	0	1	5
16:30 16:4		0	0	0	0	1	1	2	2	1	3	1	5	0	0	0	0	5	7
16:45 17:0	0 0	0	0	0	0	1	2	3	3	0	2	0	2	0	0	0	0	2	5
17:00 17:1	_	0	1	1	0	0	2	2	3	1	3	0	4	0	0	0	0	4	7
17:15 17:3	_	0	0	0	0	0	1	1	1	0	1	0	1	0	3	0	3	4	5
17:30 17:4	5 0	2	1	3	0	1	2	3	6	0	3	0	3	0	2	0	2	5	11
17:45 18:0	0 0	0	0	0	0	0	2	2	2	0	1	0	1	0	1	0	1	2	4
Total: Non	e 23	23	19	65	5	50	46	101	166	11	97	13	121	16	77	7	100	221	387

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Turning Movement Count - Study Results

PARKDALE AVE @ SCOTT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1288

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total PARKDALE AVE SCOTT ST

Time F	eriod	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	1	0	0	1
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
То	tal	0	1	0	0	1

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Turning Movement Count - Study Results

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS

Survey Date: Wednesday, February 26, 2020 WO No: **Start Time:** 07:00 **Device:** Miovision **Full Study Diagram** PARKDALE AVE **Total** Heavy **Vehicles** Cars **SJAM RAMPS** U Ð Cars Heavy **Vehicles Total**

PARKDALE AVE @ SJAM RAMPS - FEB 26 2020 - 8HR

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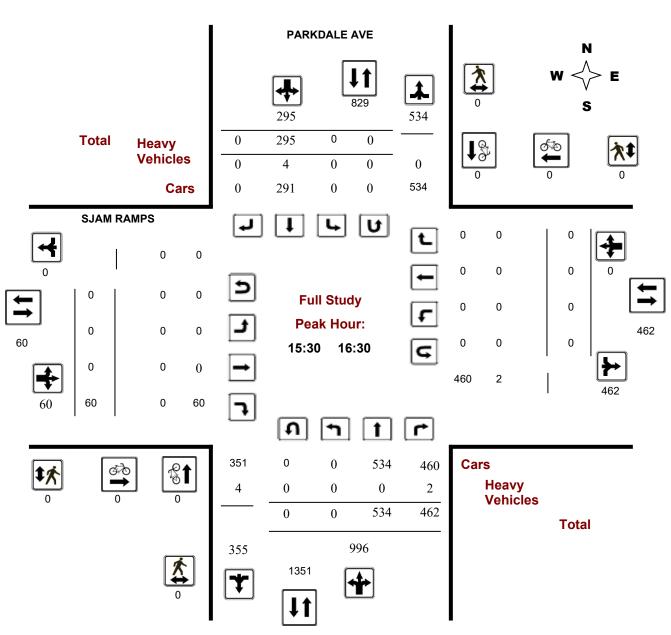
Turning Movement Count - Study Results

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS

Survey Date: Wednesday, February 26, 2020 WO No: 39635

Start Time: 07:00 Device: Miovision

Full Study Peak Hour Diagram



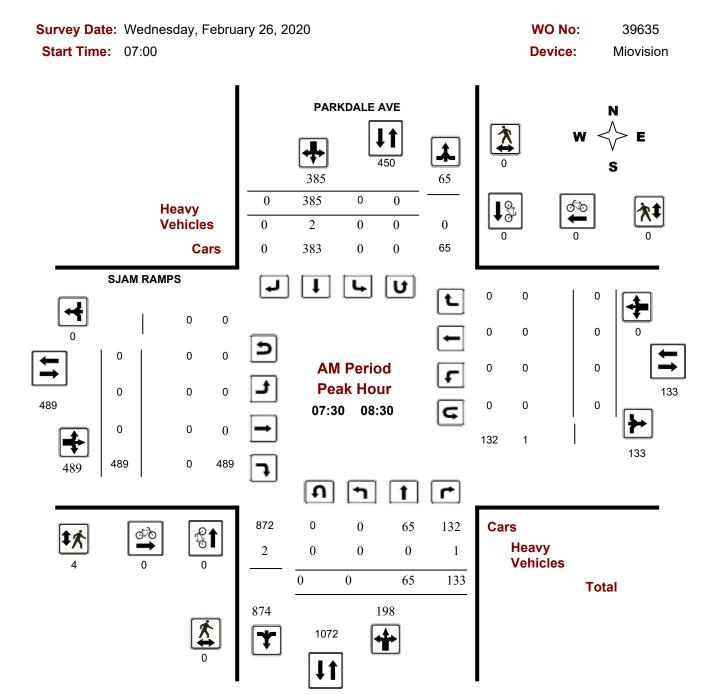
PARKDALE AVE @ SJAM RAMPS - FEB 26 2020 - 8HR

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Turning Movement Count - Peak Hour Diagram

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS



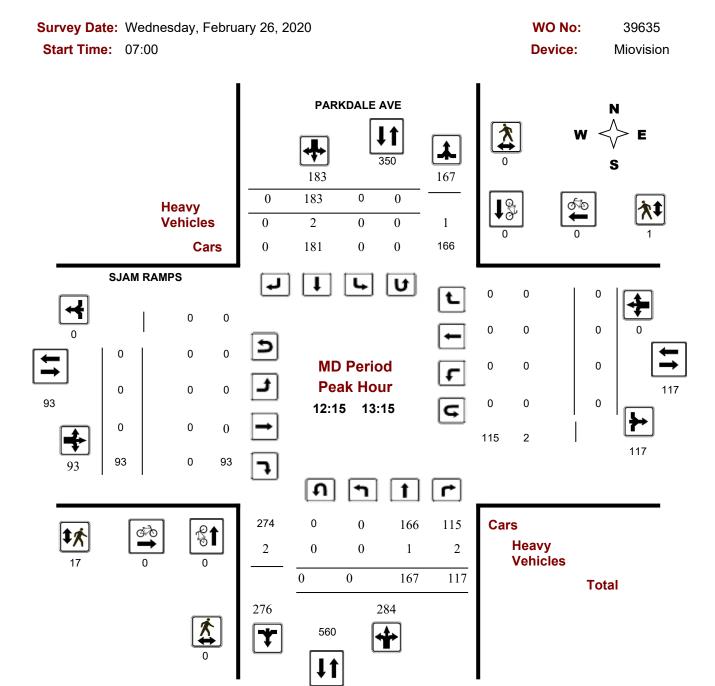
Comments PARKDALE AVE @ SJAM RAMPS - FEB 26 2020 - 8HR

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Turning Movement Count - Peak Hour Diagram

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS



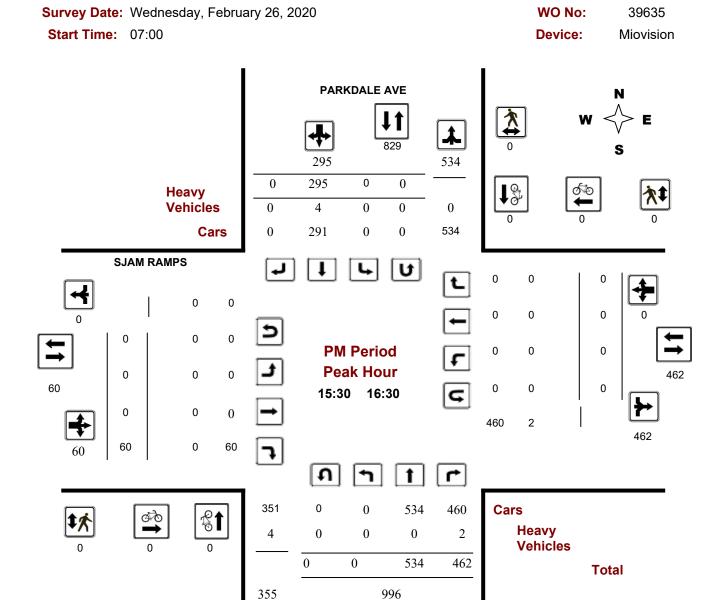
Comments PARKDALE AVE @ SJAM RAMPS - FEB 26 2020 - 8HR

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Turning Movement Count - Peak Hour Diagram

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS



Comments PARKDALE AVE @ SJAM RAMPS - FEB 26 2020 - 8HR

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Turning Movement Count - Study Results

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS

Survey Date: Wednesday, February 26, 2020 WO No: 39635

Start Time: 07:00 Device: Miovision

Full Study Summary (8 HR Standard)

Survey Date: Wednesday, February 26, Total Observed U-Turns AADT Factor

2020 Northbound: 0 Southbound: 0

Eastbound: 0 Westbound: 0 1.00

PARKDALE AVE SJAM RAMPS

	No	rthbou	ınd		So	uthbou	nd			Ea	astbou	ınd		W	estbou	ınd			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Tota
07:00 08:00	0	61	109	170	0	369	0	369	539	0	0	484	484	0	0	0	0	484	1023
08:00 09:00	0	74	131	205	0	385	0	385	590	0	0	415	415	0	0	0	0	415	1005
09:00 10:00	0	65	101	166	0	230	0	230	396	0	0	205	205	0	0	0	0	205	601
11:30 12:30	0	130	134	264	0	168	0	168	432	0	0	96	96	0	0	0	0	96	528
12:30 13:30	0	177	120	297	0	158	0	158	455	0	0	90	90	0	0	0	0	90	545
15:00 16:00	0	582	473	1055	0	212	0	212	1267	0	0	54	54	0	0	0	0	54	1321
16:00 17:00	0	480	420	900	0	347	0	347	1247	0	0	59	59	0	0	0	0	59	1306
17:00 18:00	0	416	264	680	0	224	0	224	904	0	0	73	73	0	0	0	0	73	977
Sub Total	0	1985	1752	3737	0	2093	0	2093	5830	0	0	1476	1476	0	0	0	0	1476	7306
U Turns				0				0	0				0				0	0	0
Total	0	1985	1752	3737	0	2093	0	2093	5830	0	0	1476	1476	0	0	0	0	1476	7306
EQ 12Hr	0	2759	2435	5194	0	2909	0	2909	8104	0	0	2052	2052	0	0	0	0	2052	10155
Note: These va	alues a	re calcu	ılated by	y multiply	ing the	totals b	y the ap	opropriat	e expansi	on facto	or.			1.39					
AVG 12Hr	0	2600	2295	4895	0	2742	0	2742	8104	0	0	1934	1934	0	0	0	0	2052	10155
Note: These vo	olumes	are cal	culated	by multip	lying t	he Equiv	alent 1	2 hr. tota	ls by the	AADT fa	actor.			1					
AVG 24Hr	0	3406	3007	6413	0	3592	0	3592	10005	0	0	2533	2533	0	0	0	0	2533	12538

Note: These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor. 1.31

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

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PARKDALE AVE

Transportation Services - Traffic Services

Turning Movement Count - Study Results

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS

Survey Date: Wednesday, February 26, 2020 WO No: 39635

Start Time: 07:00 Device: Miovision

Full Study 15 Minute Increments SJAM RAMPS

Northbound Eastbound Westbound Southbound s STR W **STR** Grand Ε **Time Period** LT ST LT ST RT LT ST RT LT ST RT TOT TOT TOT TOT TOT TOT **Total** 07:00 07:15 n 07:15 07:30 07:30 07:45 07:45 08:00 08:00 08:15 08:15 08:30 n 08:45 08:30 08:45 09:00 09:15 09:00 09:15 09:30 09:30 09:45 09:45 10:00 11:30 11:45 O n 11:45 12:00 12:00 12:15 12:15 12:30 12:30 12:45 12:45 13:00 13:00 13:15 O 13:15 13:30 15:00 15:15 15:15 15:30 15:30 15:45 15:45 16:00 16:00 16:15 n 16:15 16:30 16:30 16:45 16:45 17:00 17:00 17:15 17:30 17:15 n 17:30 17:45 n n 17:45 18:00 7,306 Total:

Note: U-Turns are included in Totals.

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Turning Movement Count - Study Results

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS

Survey Date: Wednesday, February 26, 2020 **WO No:** 39635

Start Time: 07:00 Device: Miovision

Full Study Cyclist Volume

PARKDALE AVE SJAM RAMPS

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total	
07:00 07:15	0	0	0	0	0	0	0	
07:15 07:30	0	1	1	0	0	0	1	
07:30 07:45	0	0	0	0	0	0	0	
07:45 08:00	0	0	0	0	0	0	0	
08:00 08:15	0	0	0	0	0	0	0	
08:15 08:30	0	0	0	0	0	0	0	
08:30 08:45	0	0	0	0	0	0	0	
08:45 09:00	0	0	0	0	0	0	0	
09:00 09:15	0	0	0	0	0	0	0	
09:15 09:30	0	0	0	0	0	0	0	
09:30 09:45	0	0	0	0	0	0	0	
09:45 10:00	0	0	0	0	0	0	0	
11:30 11:45	0	0	0	0	0	0	0	
11:45 12:00	0	0	0	0	0	0	0	
12:00 12:15	0	0	0	0	0	0	0	
12:15 12:30	0	0	0	0	0	0	0	
12:30 12:45	0	0	0	0	0	0	0	
12:45 13:00	0	0	0	0	0	0	0	
13:00 13:15	0	0	0	0	0	0	0	
13:15 13:30	0	0	0	0	0	0	0	
15:00 15:15	0	0	0	0	0	0	0	
15:15 15:30	0	0	0	0	0	0	0	
15:30 15:45	0	0	0	0	0	0	0	
15:45 16:00	0	0	0	0	0	0	0	
16:00 16:15	0	0	0	0	0	0	0	
16:15 16:30	0	0	0	0	0	0	0	
16:30 16:45	0	0	0	0	0	0	0	
16:45 17:00	0	0	0	0	0	0	0	
17:00 17:15	0	0	0	0	0	0	0	
17:15 17:30	0	0	0	0	0	0	0	
17:30 17:45	0	0	0	0	0	0	0	
17:45 18:00	0	0	0	0	0	0	0	
Total	0	1	1	0	0	0	1	

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Turning Movement Count - Study Results

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS

Survey Date: Wednesday, February 26, 2020 **WO No:** 39635

Start Time: 07:00 Device: Miovision

Full Study Pedestrian Volume PARKDALE AVE SJAM RAMPS

Time Period	NB Approach (E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	0	0	0	0	0	0	0
07:15 07:30	0	0	0	0	0	0	0
07:30 07:45	0	0	0	0	0	0	0
07:45 08:00	0	0	0	2	0	2	2
08:00 08:15	0	0	0	2	0	2	2
08:15 08:30	0	0	0	0	0	0	0
08:30 08:45	0	0	0	0	0	0	0
08:45 09:00	0	0	0	0	0	0	0
09:00 09:15	0	0	0	0	0	0	0
09:15 09:30	0	0	0	0	0	0	0
09:30 09:45	0	0	0	0	0	0	0
09:45 10:00	0	0	0	0	0	0	0
11:30 11:45	0	0	0	0	0	0	0
11:45 12:00	0	0	0	1	0	1	1
12:00 12:15	0	0	0	3	0	3	3
12:15 12:30	0	0	0	4	0	4	4
12:30 12:45	0	0	0	9	1	10	10
12:45 13:00	0	0	0	4	0	4	4
13:00 13:15	0	0	0	0	0	0	0
13:15 13:30	0	0	0	0	0	0	0
15:00 15:15	0	0	0	1	0	1	1
15:15 15:30	0	0	0	1	0	1	1
15:30 15:45	0	0	0	0	0	0	0
15:45 16:00	0	0	0	0	0	0	0
16:00 16:15	0	0	0	0	0	0	0
16:15 16:30	0	0	0	0	0	0	0
16:30 16:45	0	0	0	0	0	0	0
16:45 17:00	0	0	0	1	0	1	1
17:00 17:15	0	0	0	0	0	0	0
17:15 17:30	0	0	0	0	0	0	0
17:30 17:45	0	0	0	0	0	0	0
17:45 18:00	0	0	0	0	0	0	0
Total	0	0	0	28	1	29	29

PARKDALE AVE @ SJAM RAMPS - FEB 26 2020 - 8HR

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Turning Movement Count - Study Results

X 2 B Geo_ID DO NOT APPROVE @ X 2 B Geo_ID DO NOT APPROVE

Survey Date: Wednesday, February 26, 2020 WO No: 39635

Start Time: 07:00 Device: Miovision

Full Study Heavy Vehicles

PARKDALE AVE

SJAM RAMPS

	No	orthbou	und		Sc	uthbou	ınd			E	astbour	nd		We	estbour	nd			
Time Period	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:15	0	0	2	2	0	1	0	1	3	0	0	0	0	0	0	0	0	0	3
07:15 07:30	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
07:30 07:45	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
07:45 08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 08:15	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
08:15 08:30	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
08:30 08:45	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
08:45 09:00	0	0	0	0	0	2	0	2	2	0	0	2	2	0	0	0	0	2	4
09:00 09:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 09:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 09:45	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
09:45 10:00	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
11:30 11:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 12:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 12:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 12:30	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
12:30 12:45	0	1	0	1	0	1	0	1	2	0	0	0	0	0	0	0	0	0	2
12:45 13:00	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
13:00 13:15	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
13:15 13:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15:00 15:15	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
15:15 15:30	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
15:30 15:45	0	0	1	1	0	3	0	3	4	0	0	0	0	0	0	0	0	0	4
15:45 16:00	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
16:00 16:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16:15 16:30	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
16:30 16:45	0	1	1	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
16:45 17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:00 17:15	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1
17:15 17:30	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
17:30 17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17:45 18:00	0	0	1	1	0	1	0	1	2	0	0	0	0	0	0	0	0	0	2
Total: None	0	4	11	15	0	16	0	16	31	0	0	2	2	0	0	0	0	2	33

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Turning Movement Count - Study Results

PARKDALE AVE @ SIR JOHN A. MACDONALD PKWY RAMPS

Survey Date: Wednesday, February 26, 2020 WO No: 39635

Start Time: 07:00 Device: Miovision

Full Study 15 Minute U-Turn Total PARKDALE AVE SJAM RAMPS

Time P	eriod	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
То	tal	0	0	0	0	0

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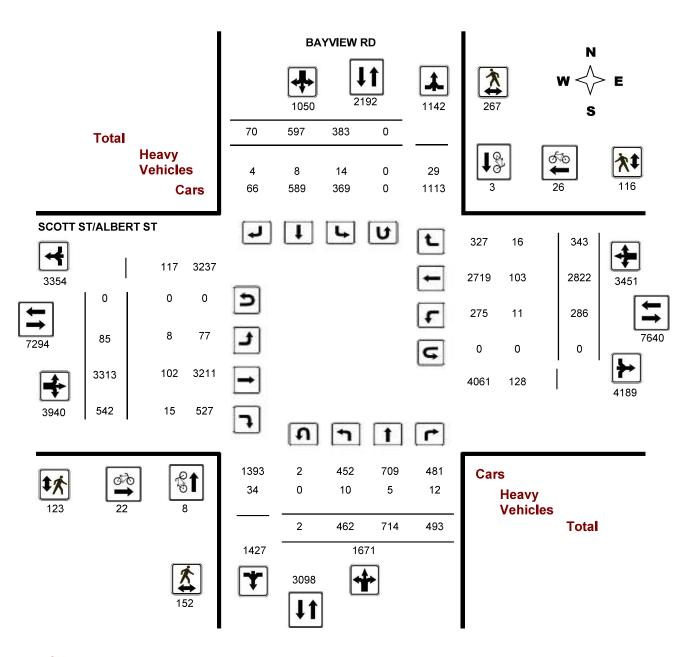


Turning Movement Count - Full Study Diagram

BAYVIEW RD @ SCOTT ST/ALBERT ST

Survey Date: Tuesday, April 01, 2014 WO#: 1292

Device: Miovision



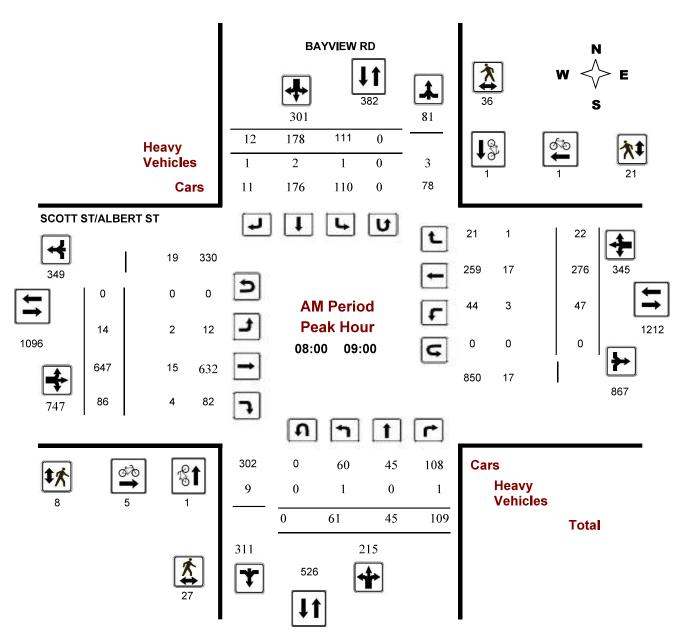
Comments



Turning Movement Count - Peak Hour Diagram

BAYVIEW RD @ SCOTT ST/ALBERT ST



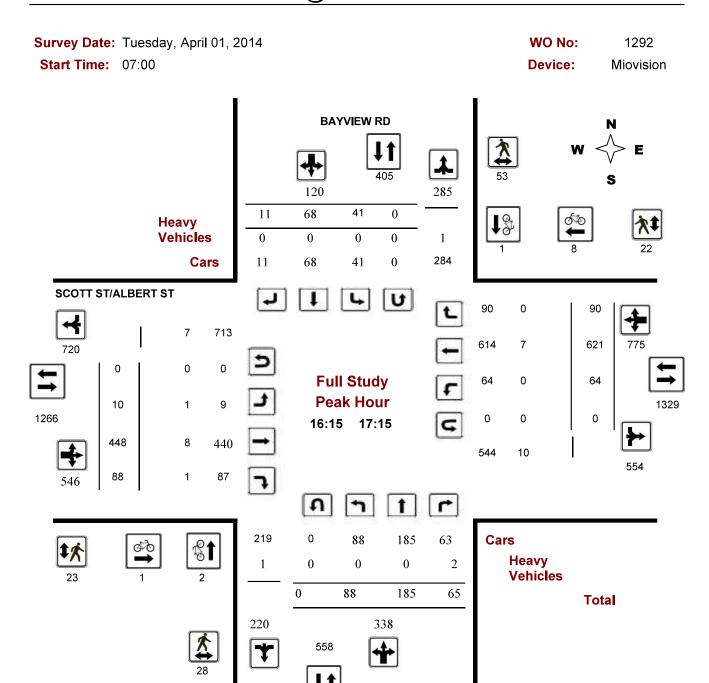


Comments



Turning Movement Count - Peak Hour Diagram

BAYVIEW RD @ SCOTT ST/ALBERT ST



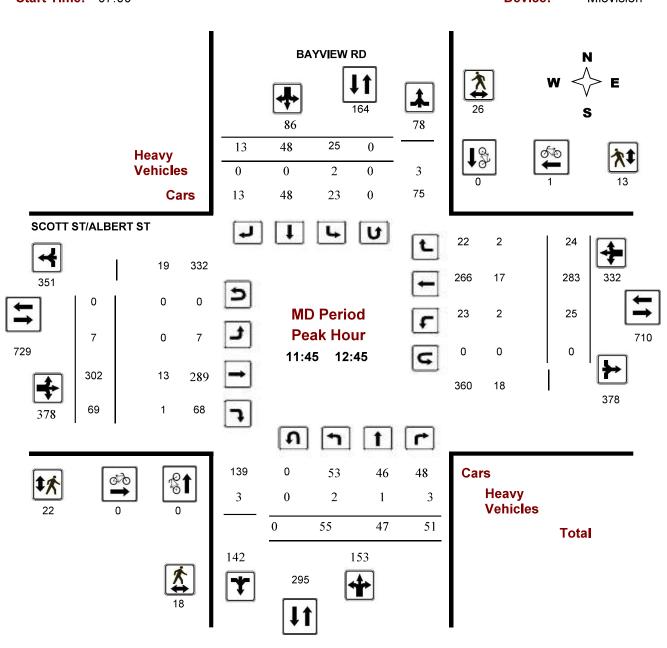
Comments



Turning Movement Count - Peak Hour Diagram

BAYVIEW RD @ SCOTT ST/ALBERT ST

Survey Date: Tuesday, April 01, 2014 WO No: 1292
Start Time: 07:00 Device: Miovision

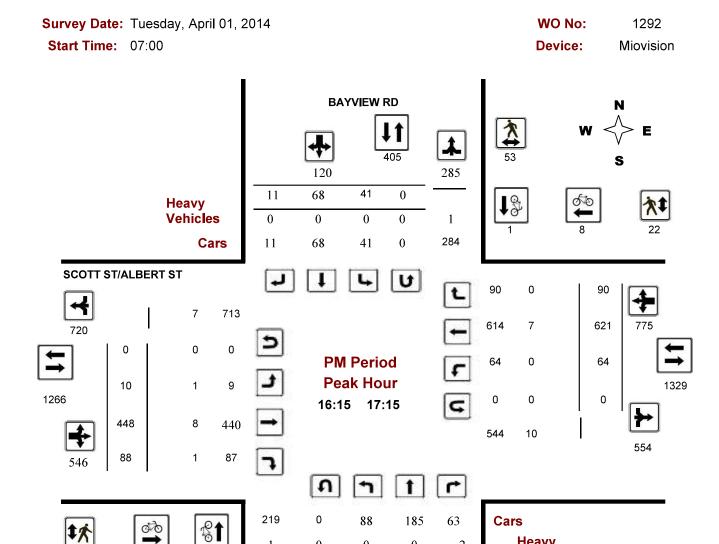


Comments



Turning Movement Count - Peak Hour Diagram

BAYVIEW RD @ SCOTT ST/ALBERT ST



0

88

558

1

220

0

185

338

2

65

Heavy

Vehicles

Total

Comments



Work Order

1292

Turning Movement Count - Full Study Summary Report

BAYVIEW RD @ SCOTT ST/ALBERT ST

Survey Date: Tuesday, April 01, 2014

Total Observed U-Turns

AADT Factor

 ${\bf Northbound:} \quad 2$

Southbound: 0

.90

Eastbound:

Westbound: 0

Full Study

			В	AYVIE	W RD						;	SCOT	T ST/A	LBER	TST				
-	١	Northbo	ound		5	Southb	ound				Eastbo	ound			Westb	ound			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	29	34	58	121	78	101	3	182	303	10	420	47	477	25	227	21	273	750	1053
08:00 09:00	61	45	109	215	111	178	12	301	516	14	647	86	747	47	276	22	345	1092	1608
09:00 10:00	34	28	50	112	48	64	9	121	233	12	384	45	441	36	222	29	287	728	961
11:30 12:30	49	43	54	146	32	53	11	96	242	7	318	72	397	20	268	17	305	702	944
12:30 13:30	55	37	48	140	28	40	14	82	222	19	278	64	361	23	269	24	316	677	899
15:00 16:00	72	185	45	302	20	54	6	80	382	6	391	71	468	22	364	76	462	930	1312
16:00 17:00	91	212	59	362	36	60	10	106	468	12	449	87	548	57	575	98	730	1278	1746
17:00 18:00	71	130	70	271	30	47	5	82	353	5	426	70	501	56	621	56	733	1234	1587
Sub Total	462	714	493	1669	383	597	70	1050	2719	85	3313	542	3940	286	2822	343	3451	7391	10110
U Turns				2				0	2				0				0	0	2
Total	462	714	493	1671	383	597	70	1050	2721	85	3313	542	3940	286	2822	343	3451	7391	10112
EQ 12Hr	642	992	685	2323	532	830	97	1460	3783	118	4605	753	5477	398	3923	477	4797	10274	14057
Note: These	values a	re ca l cul	lated by	/ multiply	ing the	totals b	y the ap	opropriat	e expans	ion fac	tor.		1	.39					
AVG 12Hr	578	893	617	2090	479	747	88	1314	3404	106	4145	678	4929	358	3530	429	4317	9246	12650
Note: These	volumes	are calc	culated	by mu l tip	olying th	ne Equiv	alent 12	2 hr. tota	Is by the	AADT	factor.			90					
AVG 24Hr	757	1170	808	2738	628	978	115	1721	4459	139	5429	888	6457	469	4625	562	5656	12113	16572
Note: These	volumes	are calc	culated	by multip	olying th	ne Avera	ige Dail	y 12 hr.	tota l s by	12 to 2	4 expan	sion fac	tor. 1	1.31					

Comments:

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.



W.O.

1292

Turning Movement Count - 15 Minute Summary Report

BAYVIEW RD @ SCOTT ST/ALBERT ST

Survey Date: Tuesday, April 01, 2014

Total Observed U-Turns

BAYVIEW RD

SCOTT ST/ALBERT ST

					VIEVV						_		113	I/ALD						
		N	orthbo	und	N	Soi	uthbour	nd	s	STR	Ea	stbound		E	vve	stbound	1	w	STR	Grand
Time F	Period	LT	ST	RT	TOT	LT	ST	RT	TOT	TOT	LT	ST	RT	TOT	LT	ST	RT	TOT	TOT	Total
07:00	07:15	5	5	6	16	11	12	0	23	39	1	71	9	81	3	43	7	53	134	173
07:15	07:30	8	6	13	27	21	32	0	53	80	4	78	15	97	8	56	3	67	164	244
07:30	07:45	9	11	25	47	23	32	1	56	103	1	119	13	133	9	51	6	66	199	302
07:45	08:00	7	12	14	33	23	25	2	50	83	4	152	10	166	5	77	5	87	253	336
08:00	08:15	14	10	33	57	32	40	3	75	132	3	149	22	174	15	65	7	87	261	393
08:15	08:30	10	10	35	55	27	55	1	83	138	3	155	29	187	7	48	5	60	247	385
08:30	08:45	15	10	24	49	29	47	3	79	128	3	175	13	191	11	78	7	96	287	415
08:45	09:00	22	15	17	54	23	36	5	64	118	5	168	22	195	14	85	3	102	297	415
09:00	09:15	13	12	15	40	8	24	3	35	75	3	130	11	144	13	70	7	90	234	309
09:15	09:30	11	7	16	34	18	15	0	33	67	4	102	10	116	8	54	9	71	187	254
09:30	09:45	4	6	11	21	12	11	2	25	46	3	76	14	93	7	51	9	67	160	206
09:45	10:00	6	3	8	17	10	14	4	28	45	2	76	10	88	8	47	4	59	147	192
11:30	11:45	10	6	19	35	15	10	2	27	62	2	89	19	110	2	65	3	70	180	242
11:45	12:00	13	12	18	43	6	15	5	26	69	2	82	25	109	7	65	5	77	186	255
12:00	12:15	11	12	10	33	5	15	2	22	55	2	81	20	103	4	77	8	89	192	247
12:15	12:30	15	13	7	35	6	13	2	21	56	1	66	8	75	7	61	1	69	144	200
12:30	12:45	16	10	16	42	8	5	4	17	59	2	73	16	91	7	80	10	97	188	247
12:45	13:00	10	14	12	36	4	9	2	15	51	7	75	22	104	6	72	4	82	186	237
13:00	13:15	13	8	9	30	8	13	3	24	54	6	65	15	86	3	62	6	71	157	211
13:15	13:30	16	5	11	32	8	13	5	26	58	4	65	11	80	7	55	4	66	146	204
15:00	15:15	16	37	11	64	3	19	2	24	88	0	81	17	98	6	66	12	84	182	270
15:15	15:30	12	44	4	60	4	11	1	16	76	1	102	17	120	5	81	15	101	221	297
15:30	15:45	30	50	15	95	5	13	2	20	115	3	99	25	127	8	94	14	116	243	358
15:45	16:00	14	54	15	83	8	11	1	20	103	2	109	12	123	3	123	35	161	284	387
16:00	16:15	24	69	13	106	9	13	2	24	130	3	122	21	146	10	127	25	162	308	438
16:15	16:30	20	50	16	86	7	13	3	23	109	6	101	25	132	11	151	36	198	330	439
16:30	16:45	23	44	14	81	10	17	2	29	110	3	113	23	139	19	130	15	164	303	413
16:45	17:00	24	49	16	89	10	17	3	30	119	0	113	18	131	17	167	22	206	337	456
17:00	17:15	21	42	19	82	14	21	3	38	120	1	121	22	144	17	173	17	207	351	471
17:15	17:30	22	41	13	76	6	10	0	16	92	0	95	21	116	12	163	18	193	309	401
17:30		15	29	21	65	5	8	1	14	79	1	103	16	120	13	152	11	176	296	375
17:45	18:00	13	18	17	48	5	8	1	14	62	3	107	11	121	14	133	10	157	278	340
TOTAL	.: 4	462	714	493	1671	383	597	70	1050	2721	85	3313	542	3940	286	2822	34	3 34 !	51 7391	10112

Note: U-Turns are included in Totals.

Comment:



Work Order 1292

Turning Movement Count - Pedestrian Volume Report

BAYVIEW RD @ SCOTT ST/ALBERT ST

Count Date	: Tuesday, Ap	ril 01, 2014				Start Time:	07:00
Time Period (NB Approach E or W Crossing)	SB Approach (E or W Crossing)	Total	EB Approach (N or S Crossing)	WB Approach (N or S Crossing)	Total	Grand Total
07:00 07:15	1	4	5	2	0	2	7
07:15 07:30	1	8	9	2	4	6	15
07:30 07:45	2	14	16	8	0	8	24
07:45 08:00	9	12	21	4	5	9	30
07:00 08:00	13	38	51	16	9	25	76
08:00 08:15	7	8	15	3	5	8	23
08:15 08:30	5	12	17	4	4	8	25
08:30 08:45	9	11	20	0	9	9	29
08:45 09:00	6	5	11	1	3	4	15
08:00 09:00	27	36	63	8	21	29	92
09:00 09:15	5	6	11	4	4	8	19
09:15 09:30	3	5	8	0	3	3	11
09:30 09:45	3	2	5	1	4	5	10
09:45 10:00	4	1	5	1	1	2	7
09:00 10:00	15	14	29	6	12	18	47
11:30 11:45	1	6	7	2	1	3	10
11:45 12:00	0	5	5	4	1	5	10
12:00 12:15	3	10	13	2	5	7	20
12:15 12:30	8	6	14	13	2	15	29
11:30 12:30	12	27	39	21	9	30	69
12:30 12:45	7	5	12	3	5	8	20
12:45 13:00	1	2	3	5	4	9	12
13:00 13:15	2	2	4	4	2	6	10
13:15 13:30	4	7	11	2	1	3	14
12:30 13:30	14	16	30	14	12	26	56
15:00 15:15	7	2	9	2	3	5	14
15:15 15:30	2	6	8	1	2	3	11
15:30 15:45	2	5	7	4	3	7	14
15:45 16:00	6	9	15	0	4	4	19
15:00 16:00	17	22	39	7	12	19	58
16:00 16:15	2	16	18	6	0	6	24
16:15 16:30	7	14	21	9	4	13	34
16:30 16:45	8	12	20	5	4	9	29
16:45 17:00	6	13	19	4	7	11	30
16:00 17:00	23	55	78	24	15	39	117
17:00 17:15	7	14	21	5	7	12	33
17:15 17:30	5	16	21	8	3	11	32
17:30 17:45	12	20	32	5	8	13	45
17:45 18:00	7	9	16	9	8	17	33
17:00 18:00	31	59	90	27	26	53	143
Total	152	267	419	123	116	239	658

Comment:



Turning Movement Count - Cyclist Volume Report

Work Order

1292

BAYVIEW RD @ SCOTT ST/ALBERT ST

Count Date: Tuesday, April 01, 2014 Start Time: 07:00

BAYVIEW RD

SCOTT ST/ALBERT ST

_							
Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 08:00	0	0	0	6	1	7	7
08:00 09:00	1	1	2	5	1	6	8
09:00 10:00	0	0	0	5	0	5	5
11:30 12:30	1	0	1	0	0	0	1
12:30 13:30	0	1	1	0	1	1	2
15:00 16:00	2	0	2	2	5	7	9
16:00 17:00	2	1	3	1	9	10	13
17:00 18:00	2	0	2	3	9	12	14
Total	8	3	11	22	26	48	59

Comment:

Note: These volumes consists of bicycles only (no mopeds or motorcycles) and ARE NOT included in the Turning Movement Count Summary.



W.O.

1292

Turning Movement Count - Heavy Vehicle Report

BAYVIEW RD @ SCOTT ST/ALBERT ST

Survey Date: Tuesday, April 01, 2014

BAYVIEW RD SCOTT ST/ALBERT ST

		Northb	ound			Southb	ound	_			Eastb	ound		1	Nestbo	ound	_			
Time Pe	eriod	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	08:00	1	1	1	3	2	1	0	3	6	1	12	3	16	1	14	5	20	36	42
08:00	09:00	1	0	1	2	1	2	1	4	6	2	15	4	21	3	17	1	21	42	48
09:00	10:00	2	0	2	4	6	0	1	7	11	1	18	2	21	1	12	4	17	38	49
11:30	12:30	3	2	4	9	2	1	0	3	12	1	10	1	12	1	17	0	18	30	42
12:30	13:30	1	2	2	5	3	2	2	7	12	2	15	2	19	1	16	4	21	40	52
15:00	16:00	2	0	0	2	0	1	0	1	3	0	16	2	18	1	14	2	17	35	38
16:00	17:00	0	0	2	2	0	0	0	0	2	1	10	0	11	0	4	0	4	15	17
17:00	18:00	0	0	0	0	0	1	0	1	1	0	6	1	7	3	9	0	12	19	20
Sub T	otal	10	5	12	27	14	8	4	26	53	8	102	15	125	11	103	16	130	255	308
U-Turns	(Heav	y Veh	icles)		0				0	0				0				0	0	0
Tota	al	10	5	12	0	14	8	4	26	53	8	102	15	125	11	103	16	130	255	308

Heavy Vehicles are vehicles having one rear axle with four or more wheels, or having two or more rear axles. These vehicles include most O.C. Transpo, school and inter-city buses. Further, they ARE included in the Turning Movement Count Summary.

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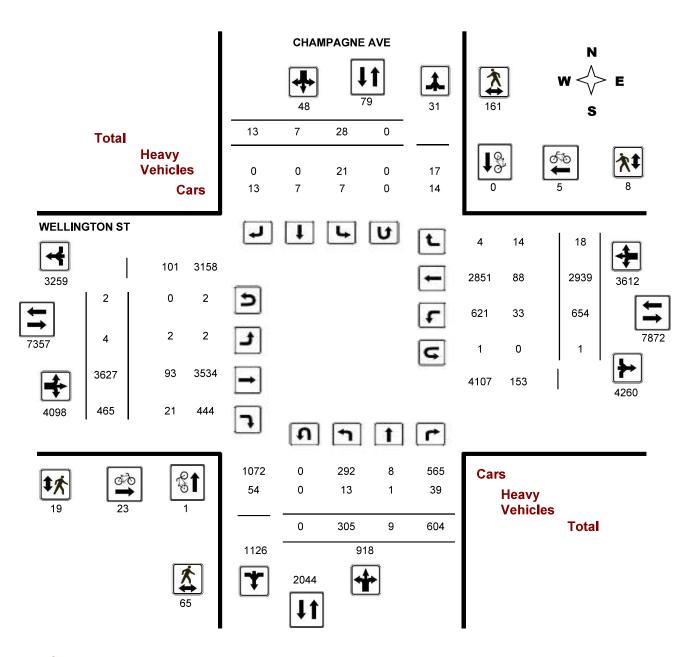


Turning Movement Count - Full Study Diagram

CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014 WO#: 29660

Device: Miovision



Comments

2016-Sep-13 Page 1 of 1



Turning Movement Count - Peak Hour Diagram

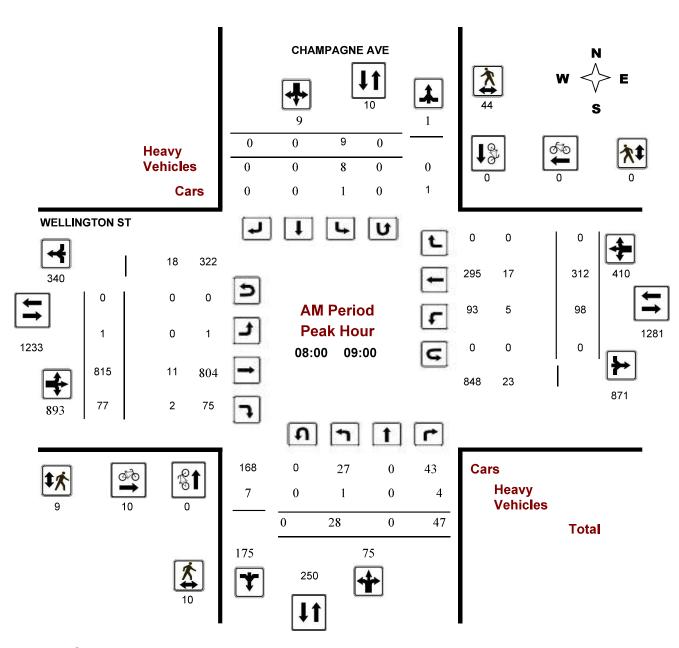
CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014

Start Time: 07:00

WO No: 29660

Device: Miovision



Comments

2016-Sep-13 Page 1 of 4



Turning Movement Count - Peak Hour Diagram

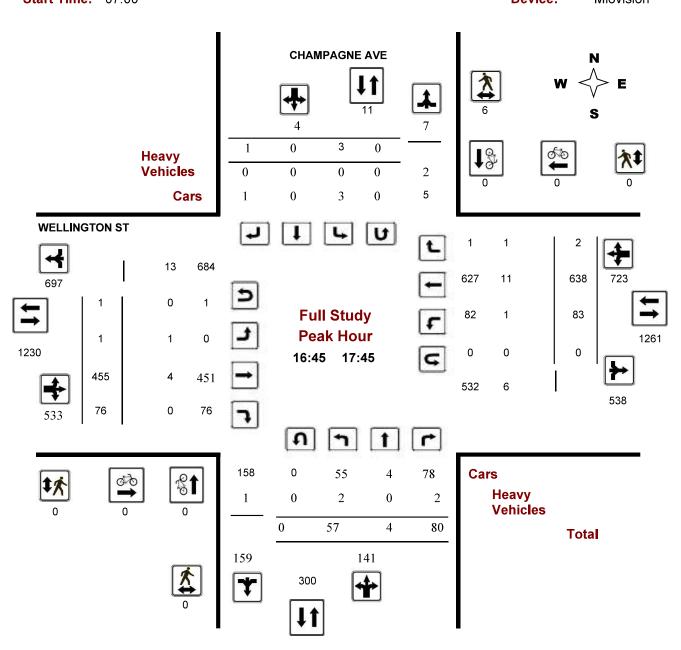
CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014

Start Time: 07:00

WO No: 29660

Device: Miovision



Comments

2016-Sep-13 Page 2 of 4



Turning Movement Count - Peak Hour Diagram

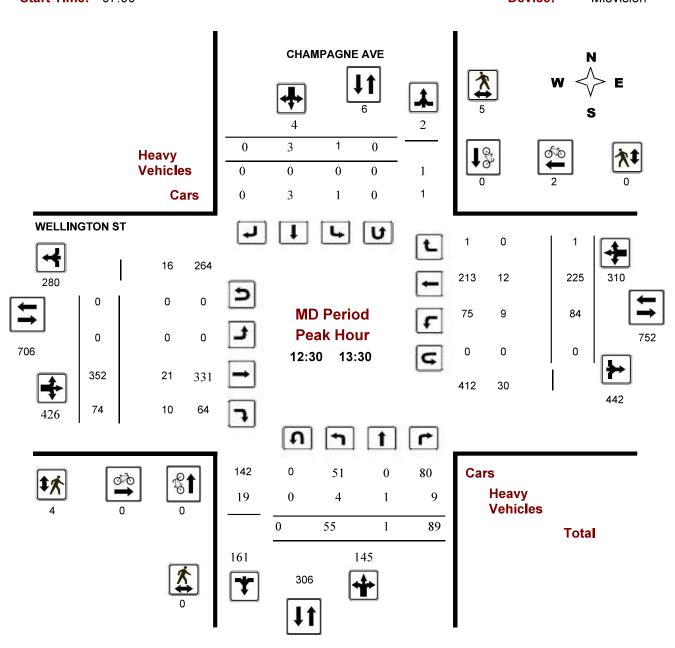
CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014

Start Time: 07:00

WO No: 29660

Device: Miovision



Comments

2016-Sep-13 Page 3 of 4



Turning Movement Count - Peak Hour Diagram

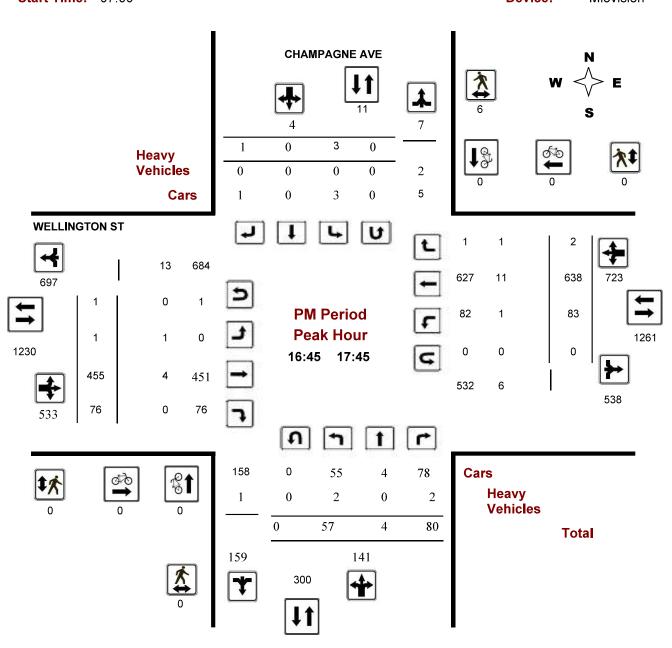
CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014

Start Time: 07:00

WO No: 29660

Device: Miovision



Comments

2016-Sep-13 Page 4 of 4



Work Order 29660

Turning Movement Count - Full Study Summary Report

CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014

Total Observed U-Turns

AADT Factor

Northbound: Eastbound: 2 Southbound: 0 Westbound: 1 .90

Full Study

								г	นแ อณ	ıay									
			CHA	MPAG	NE AV	Έ						WE	LLING	TON:	ST				
_	N	lorthb	ound		S	outhbo	ound				Eastbo	ound			Westbo	ound			
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	7	0	33	40	8	0	0	8	48	0	466	50	516	68	253	3	324	840	888
08:00 09:00	28	0	47	75	9	0	0	9	84	1	815	77	893	98	312	0	410	1303	1387
09:00 10:00	25	0	66	91	4	1	0	5	96	0	423	54	477	100	256	2	358	835	931
11:30 12:30	43	0	111	154	0	0	0	0	154	0	320	53	373	98	240	0	338	711	865
12:30 13:30	55	1	89	145	1	3	0	4	149	0	352	74	426	84	225	1	310	736	885
15:00 16:00	44	1	92	137	1	3	11	15	152	1	452	28	481	66	436	9	511	992	1144
16:00 17:00	57	4	90	151	2	0	1	3	154	1	347	52	400	48	647	2	697	1097	1251
17:00 18:00	46	3	76	125	3	0	1	4	129	1	452	77	530	92	570	1	663	1193	1322
Sub Total	305	9	604	918	28	7	13	48	966	4	3627	465	4096	654	2939	18	3611	7707	8673
U Turns				0				0	0				2				1	3	3
Total	305	9	604	918	28	7	13	48	966	4	3627	465	4098	654	2939	18	3612	7710	8676
EQ 12Hr	424	13	840	1276	39	10	18	67	1343	6	5042	646	5696	909	4085	25	5021	10717	12060
Note: These	va l ues ar	e calcu	lated by	y multiply	ing the	totals by	y the ap	opropriate	e expansi	on fac	tor.		•	1.39					
AVG 12Hr	382	11	756	1148	35	9	16	60	1208	5	4537	582	5127	818	3677	23	4519	9646	10854
Note: These	vo l umes	are cal	culated	by mu l tip	lying th	e Equiv	alent 1	2 hr. tota	ls by the	AADT	factor.		,	.90					
AVG 24Hr	500	15	990	1504	46	11	21	79	1583	7	5944	762	6716	1072	4816	29	5919	12635	14218
Note: These	volumes	are cal	culated	by mu l tip	lying th	e Avera	ge Dail	ly 12 hr. 1	ota l s by	12 to 2	4 expan	sion fac	ctor.	1.31					

Comments:

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

2016-Sep-13 Page 1 of 1



W.O.

29660

Turning Movement Count - 15 Minute Summary Report

CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014

Total Observed U-Turns

Northbound: 0 Southbound: 6 Eastbound: 2 Westbound:

CHAMPAGNE AVE

WELLINGTON ST

			C	HAII	PAGNI	EAV	E					VV	ELLII	NGIO	N S I					
		No	orthbou	und		So	uthbour													
Time Per	riod _	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07	7:15	2	0	8	10	1	0	0	1	11	0	67	10	77	12	50	2	64	141	152
07:15 07	7:30	3	0	4	7	2	0	0	2	9	0	95	13	108	21	55	0	76	184	193
07:30 07	7:45	1	0	9	10	2	0	0	2	12	0	144	14	158	18	75	1	94	252	264
07:45 08	8:00	1	0	12	13	3	0	0	3	16	0	160	13	173	17	73	0	90	263	279
08:00 08	8:15	6	0	12	18	2	0	0	2	20	1	196	14	211	21	78	0	99	310	330
08:15 08	8:30	6	0	5	11	1	0	0	1	12	0	225	20	245	27	72	0	99	344	356
08:30 08	8:45	11	0	16	27	2	0	0	2	29	0	190	22	212	24	66	0	90	302	331
08:45 09	9:00	5	0	14	19	4	0	0	4	23	0	204	21	225	26	96	0	122	347	370
09:00 09	9:15	11	0	19	30	2	0	0	2	32	0	125	21	146	31	77	1	109	255	287
09:15 09	9:30	5	0	17	22	2	0	0	2	24	0	128	14	142	27	73	1	101	243	267
09:30 09	9:45	4	0	17	21	0	0	0	0	21	0	90	6	96	22	57	0	79	175	196
09:45 10	0:00	5	0	13	18	0	1	0	1	19	0	80	13	93	20	49	0	69	162	181
11:30 1	1:45	11	0	22	33	0	0	0	0	33	0	77	7	84	30	70	0	101	185	218
11:45 12	2:00	11	0	32	43	0	0	0	0	43	0	85	20	105	30	51	0	81	186	229
12:00 12	2:15	13	0	34	47	0	0	0	0	47	0	73	10	83	19	60	0	79	162	209
12:15 12	2:30	8	0	23	31	0	0	0	0	31	0	85	16	101	19	59	0	78	179	210
12:30 12	2:45	20	0	21	41	0	3	0	3	44	0	75	14	89	22	59	0	81	170	214
12:45 13	3:00	12	0	21	33	0	0	0	0	33	0	62	32	94	23	60	0	83	177	210
13:00 13	3:15	11	0	23	34	0	0	0	0	34	0	78	15	93	17	42	1	60	153	187
13:15 13	3:30	12	1	24	37	1	0	0	1	38	0	137	13	150	22	64	0	86	236	274
15:00 1	5:15	14	1	27	42	0	3	5	8	50	0	108	5	113	26	94	1	121	234	284
15:15 1	5:30	13	0	16	29	0	0	2	2	31	0	94	9	103	15	94	2	111	214	245
15:30 1	5:45	9	0	29	38	0	0	4	4	42	0	117	7	124	9	117	3	129	253	295
15:45 16	6:00	8	0	20	28	1	0	0	1	29	1	133	7	141	16	131	3	150	291	320
16:00 16	6:15	9	0	22	31	0	0	0	0	31	0	99	13	113	7	135	0	142	255	286
16:15 16	6:30	15	2	23	40	2	0	0	2	42	0	87	14	101	16	161	0	177	278	320
16:30 16	6:45	19	1	26	46	0	0	1	1	47	1	68	11	80	9	167	1	177	257	304
16:45 17	7:00	14	1	19	34	0	0	0	0	34	0	93	14	107	16	184	1	201	308	342
17:00 17	7:15	19	3	28	50	2	0	1	3	53	1	131	24	157	16	159	0	175	332	385
17:15 17	7:30	13	0	19	32	0	0	0	0	32	0	108	18	126	25	152	0	177	303	335
17:30 17		11	0	14	25	1	0	0	1	26	0	123	20	143	26	143	1	170	313	339
17:45 18	8:00	3	0	15	18	0	0	0	0	18	0	90	15	105	25	116	0	141	246	264
TOTAL:	3	05	9	604	918	28	7	13	48	966	4	3627	465	4098	654	2939	18	36	12 7710	8676

Note: U-Turns are included in Totals.

Comment:

2016-Sep-13 Page 1 of 1



Work Order

Turning Movement Count - Pedestrian Volume Report

CHAMPAGNE AVE @ WELLINGTON ST Count Date: Wednesday, April 02, 2014 **Start Time:** 07:00 **NB** Approach SB Approach EB Approach WB Approach Time Period Total **Grand Total Total** (E or W Crossing) (E or W Crossing) (N or S Crossing) (N or S Crossing) 07:00 07:15 07:15 07:30 07:30 07:45 07:45 08:00 07:00 08:00 08:00 08:15 08:15 08:30 08:30 08:45 08:45 09:00 08:00 09:00 09:00 09:15 09:15 09:30 09:30 09:45 09:45 10:00 09:00 10:00 11:30 11:45 11:45 12:00 12:00 12:15 12:15 12:30 11:30 12:30 12:30 12:45 12:45 13:00 13:00 13:15 13:15 13:30 12:30 13:30 15:00 15:15 15:15 15:30 15:30 15:45 15:45 16:00 15:00 16:00 16:00 16:15 16:15 16:30 16:30 16:45 16:45 17:00 16:00 17:00 17:00 17:15 17:15 17:30 17:30 17:45 17:45 18:00

Comment:

17:00 18:00

Total

2016-Sep-13 Page 1 of 1



Turning Movement Count - Cyclist Volume Report

Work Order 29660

CHAMPAGNE AVE @ WELLINGTON ST

Count Date: Wednesday, April 02, 2014

Start Time: 07:00

CHAMPAGNE AVE

WELLINGTON ST

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 08:00	0	0	0	7	1	8	8
08:00 09:00	0	0	0	10	0	10	10
09:00 10:00	1	0	1	5	0	5	6
11:30 12:30	0	0	0	1	0	1	1
12:30 13:30	0	0	0	0	2	2	2
15:00 16:00	0	0	0	0	2	2	2
16:00 17:00	0	0	0	0	0	0	0
17:00 18:00	0	0	0	0	0	0	0
Total	1	0	1	23	5	28	29

Comment:



W.O. 29660

Turning Movement Count - Heavy Vehicle Report

CHAMPAGNE AVE @ WELLINGTON ST

Survey Date: Wednesday, April 02, 2014

CHAMPAGNE AVE WELLINGTON ST

		Northb	ound			Southb	ound				Eastb	ound		1	Vestbo	ound				
Time P	eriod	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00	08:00	0	0	6	6	7	0	0	7	13	0	6	1	7	3	11	2	16	23	36
08:00	09:00	1	0	4	5	8	0	0	8	13	0	11	2	13	5	17	0	22	35	48
09:00	10:00	2	0	5	7	4	0	0	4	11	0	21	1	22	4	15	2	21	43	54
11:30	12:30	1	0	9	10	0	0	0	0	10	0	9	4	13	7	7	0	14	27	37
12:30	13:30	4	1	9	14	0	0	0	0	14	0	21	10	31	9	12	0	21	52	66
15:00	16:00	1	0	2	3	1	0	0	1	4	1	14	2	17	4	11	8	23	40	44
16:00	17:00	2	0	2	4	1	0	0	1	5	0	6	1	7	1	4	1	6	13	18
17:00	18:00	2	0	2	4	0	0	0	0	4	1	5	0	6	0	11	1	12	18	22
Sub T	otal	13	1	39	53	21	0	0	21	74	2	93	21	116	33	88	14	135	251	325
U-Turns	(Heav	y Veh	icles)		0				0	0				0				0	0	0
Tota	al	13	1	39	0	21	0	0	21	74	2	93	21	116	33	88	14	135	251	325

Heavy Vehicles are vehicles having one rear axle with four or more wheels, or having two or more rear axles. These vehicles include most O.C. Transpo, school and inter-city buses. Further, they ARE included in the Turning Movement Count Summary.

2016-Sep-1 Page 1 of 1



BOOTH ST and WAR MUSEUM

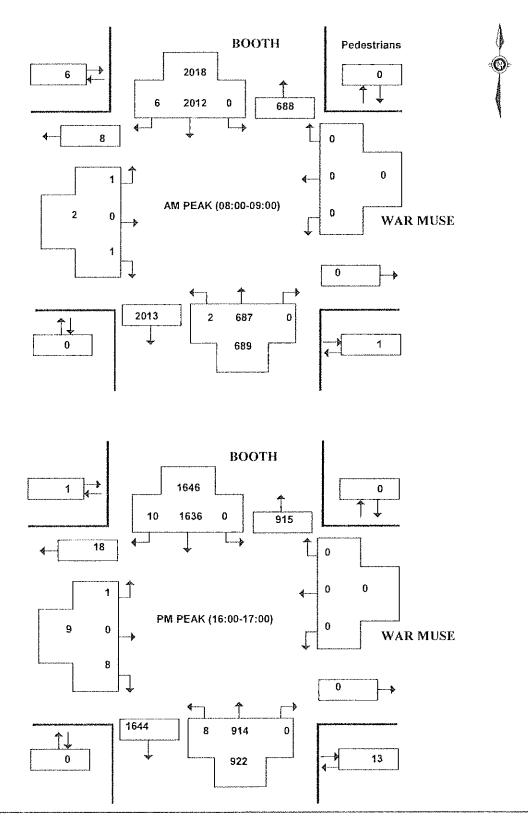
(ULRS Listing BOOTH & WAR MUSE)

Survey Date: Thursday 18 July 2013

Conditions: DRY Start Time: 0700 **Total Observed U-Turns**

Northbound: 0 Southbound: 0 Eastbound:

0 Westbound: 0 AADT Factor Thursday in July is



Approved by: MO Printed on: 06/08/2013





BOOTH ST and WELLINGTON ST /OT. R.

(ULRS Listing BOOTH & WELLINGT)

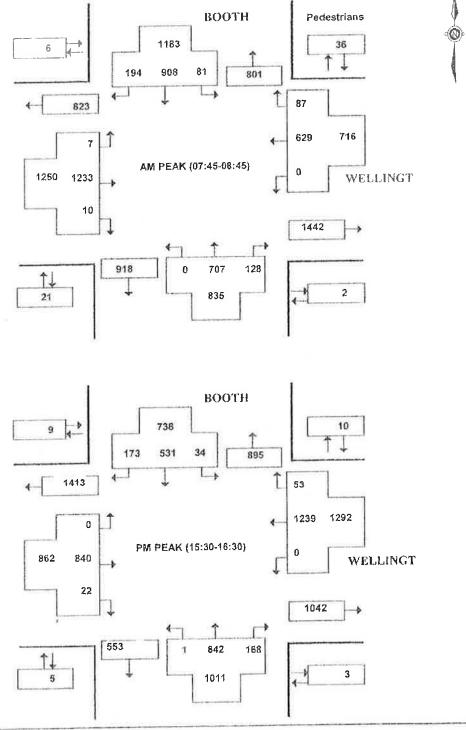
Survey Date: Friday 10 May 2013

dry Conditions: 0700 Start Time:

Total Observed U-Turns

Northbound: Eastbound:

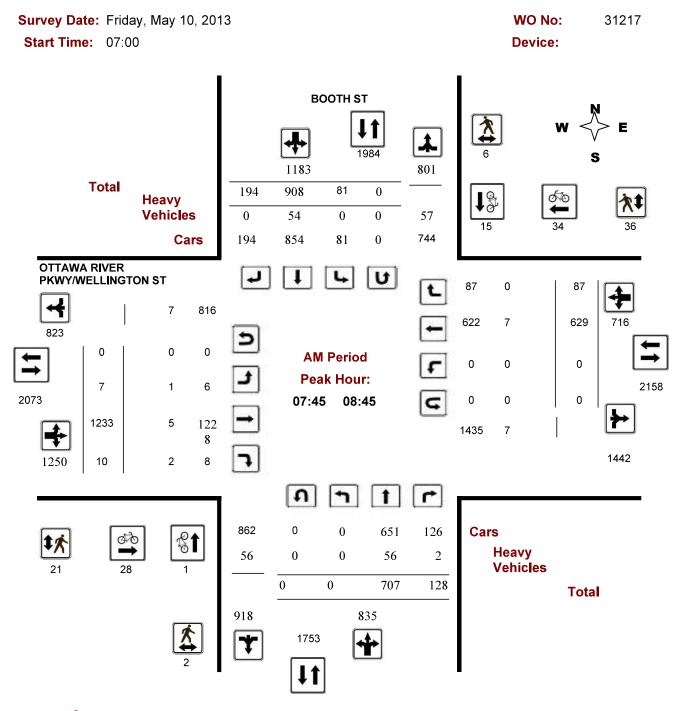
O Southbound: 0 Westbound: 0 AADT Factor Priday in May is





Turning Movement Count - Full Study Peak Hour Diagram

BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST



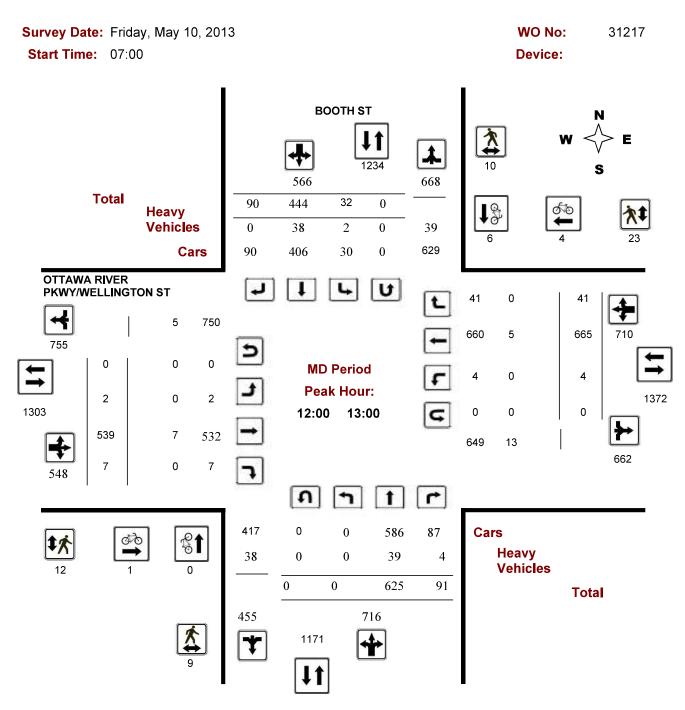
Comments

2016-Jan-29 Page 1 of 3



Turning Movement Count - Full Study Peak Hour Diagram

BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST



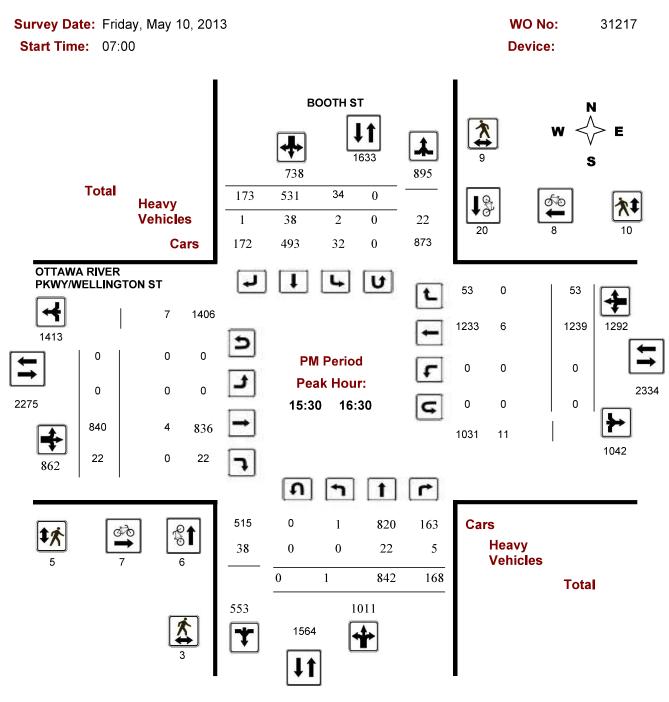
Comments

2016-Jan-29 Page 2 of 3



Turning Movement Count - Full Study Peak Hour Diagram

BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST



Comments

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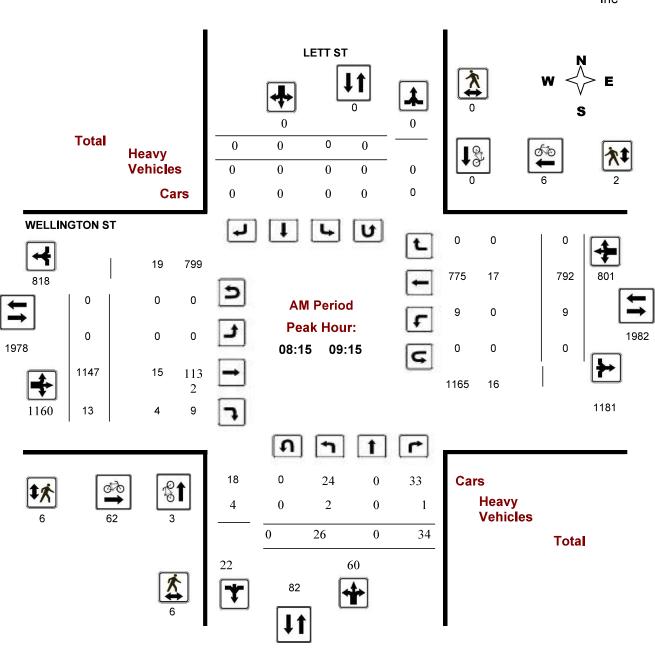


Turning Movement Count - Full Study Peak Hour Diagram

WELLINGTON ST @ LETT ST

Survey Date: Monday, August 17, 2015 WO No: 35251
Start Time: 07:00 Device: Jamar

Technologies, Inc



Comments

2016-Feb-03 Page 1 of 3

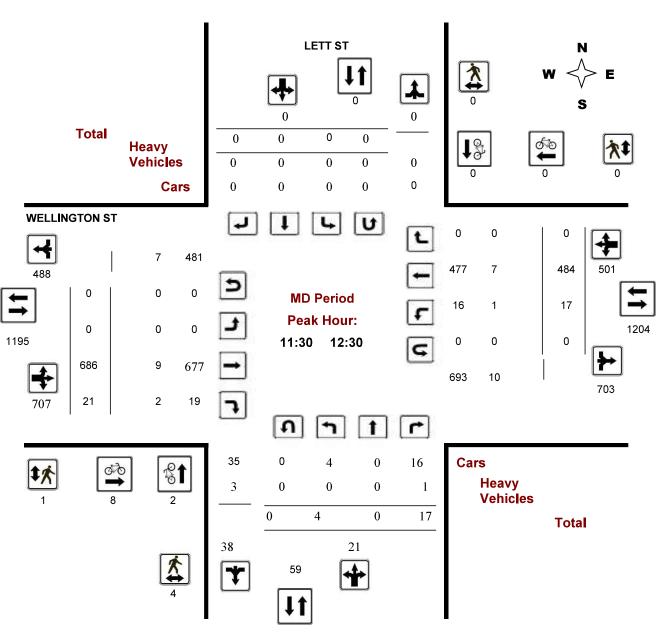


Turning Movement Count - Full Study Peak Hour Diagram

WELLINGTON ST @ LETT ST

Survey Date: Monday, August 17, 2015 WO No: 35251
Start Time: 07:00 Device: Jamar

Technologies, Inc



Comments

2016-Feb-03 Page 2 of 3



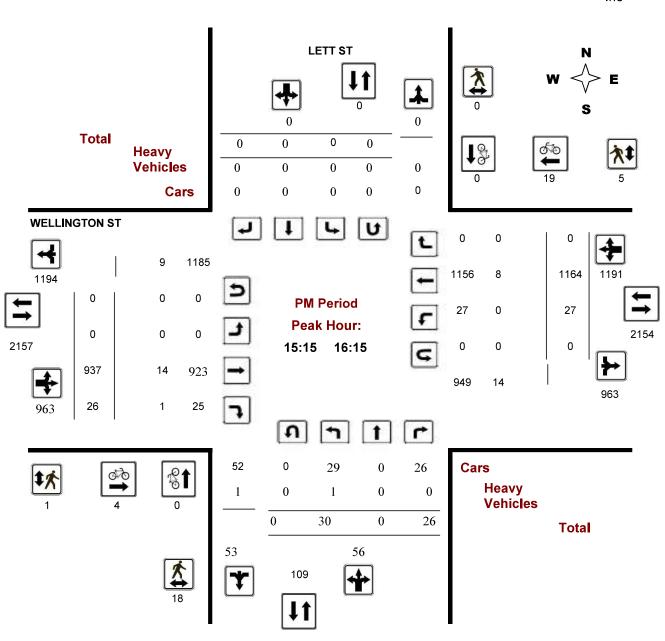
Turning Movement Count - Full Study Peak Hour Diagram

WELLINGTON ST @ LETT ST

Survey Date: Monday, August 17, 2015 WO No: 35251 **Start Time:** 07:00

Jamar Device: Technologies,

Inc



Comments

2016-Feb-03 Page 3 of 3



Turning Movement Count - Full Study Peak Hour Diagram

OTTAWA RIVER PKWY @ PORTAGE BRIDGE

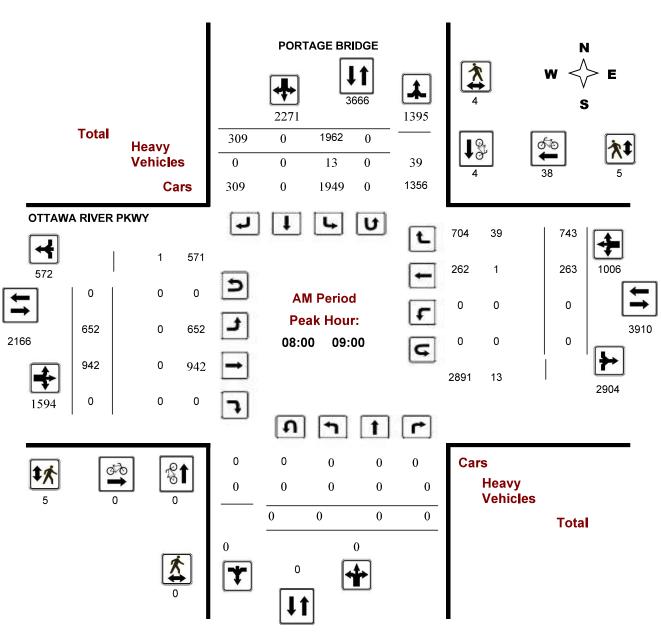
Survey Date: Wednesday, June 11, 2014

Start Time: 07:00

WO No: 29831

Device: Jamar

Technologies, Inc



Comments

2016-Feb-03 Page 1 of 3



Turning Movement Count - Full Study Peak Hour Diagram

OTTAWA RIVER PKWY @ PORTAGE BRIDGE

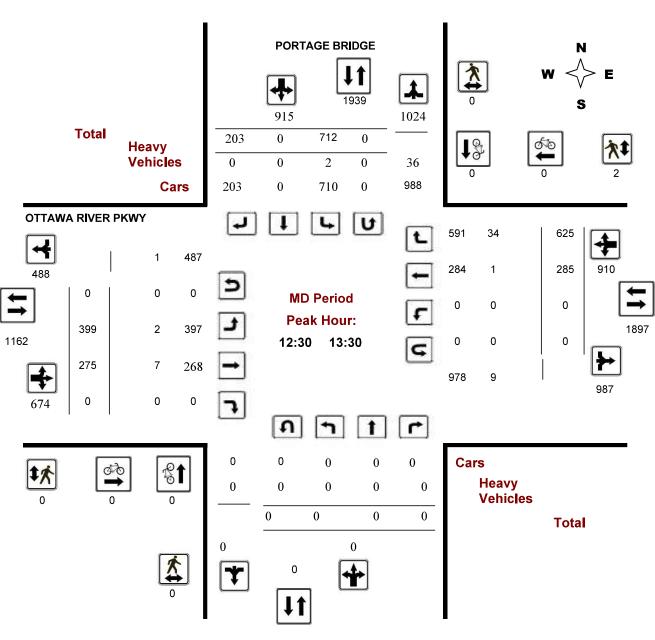
Survey Date: Wednesday, June 11, 2014

Start Time: 07:00

WO No: 29831

Device: Jamar

Technologies, Inc



Comments

2016-Feb-03 Page 2 of 3



Turning Movement Count - Full Study Peak Hour Diagram

OTTAWA RIVER PKWY @ PORTAGE BRIDGE

Survey Date: Wednesday, June 11, 2014

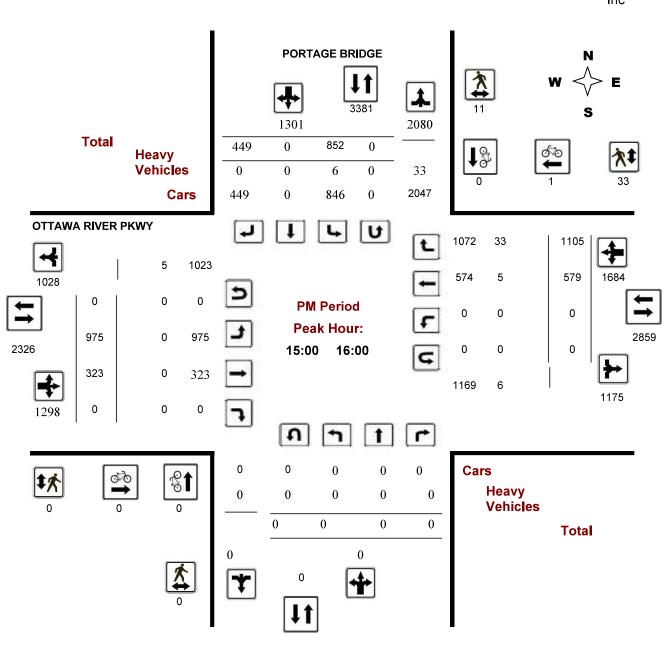
Start Time: 07:00

WO No: 29831

Device:

Jamar Technologies,

nnologies Inc



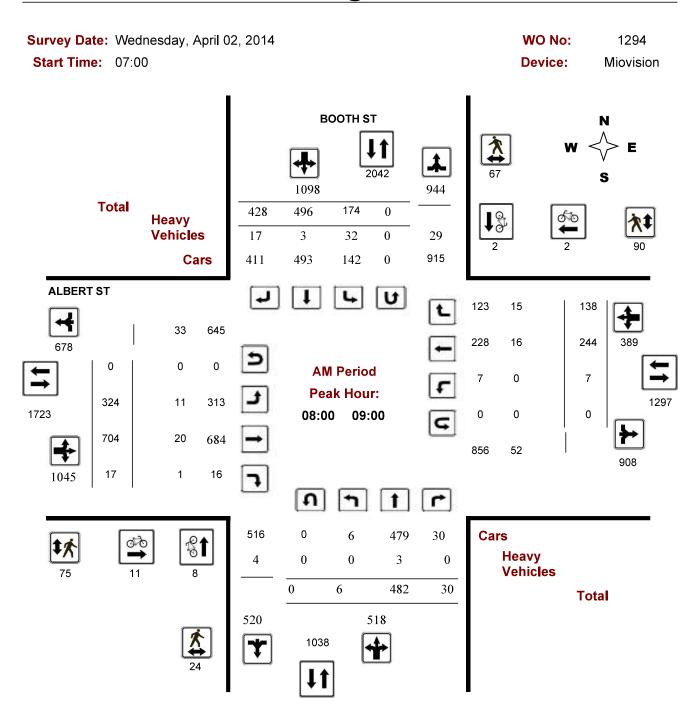
Comments

2016-Feb-03 Page 3 of 3



Turning Movement Count - Full Study Peak Hour Diagram

ALBERT ST @ BOOTH ST



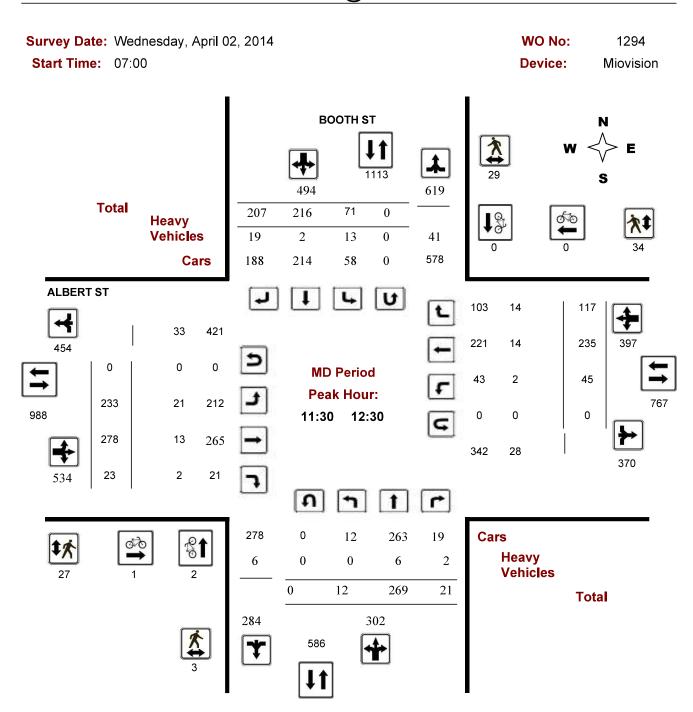
Comments

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Turning Movement Count - Full Study Peak Hour Diagram

ALBERT ST @ BOOTH ST



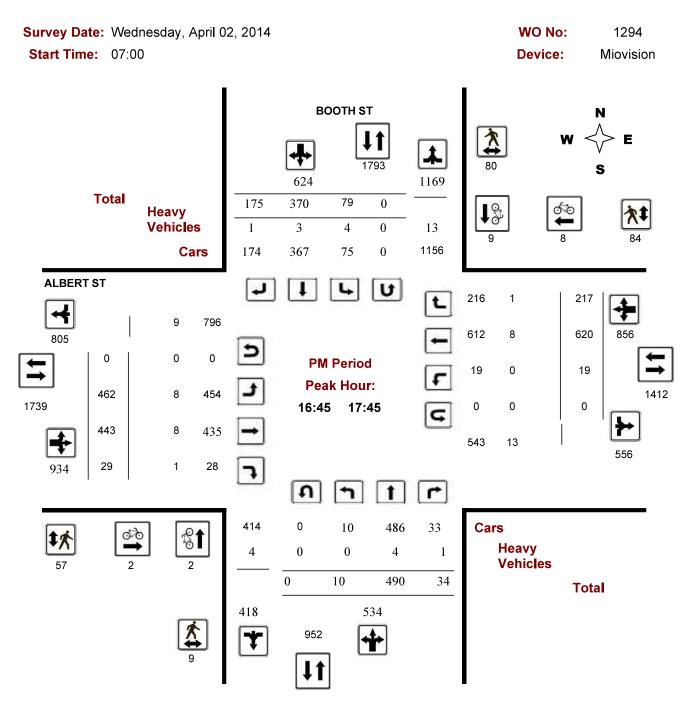
Comments

2016-Jan-29 Page 2 of 3



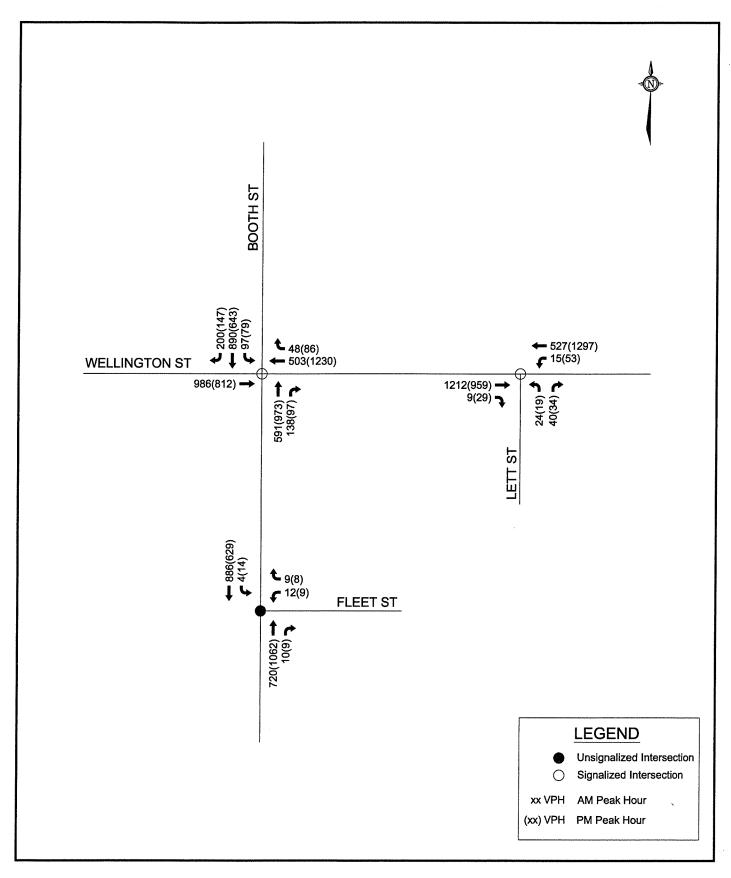
Turning Movement Count - Full Study Peak Hour Diagram

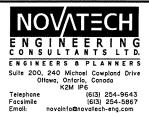
ALBERT ST @ BOOTH ST



Comments

2016-Jan-29 Page 3 of 3





LEBRETON PHASE III, 300 LETT STREET

2013 TOTAL TRAFFIC

105006

APRIL 2011 **F**

FIGURE 7

City of Ottawa, Transportation Services Department

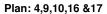
Traffic Signal Operations Unit

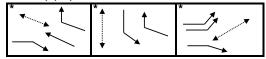
Intersection:	Main:	Wellington	Side:	Portage Bridge
Controller:	MS-320	0	TSD:	5474
Author:	Matthew	Anderson	Date:	06-May-2020

Existing Timing Plans[†]

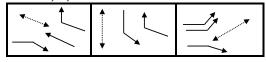
	Plan								Ped Min	imum Ti	me
	Night 4	Evening 9	Weekend AM 10	Morning 16	Weekend 17	AM Peak	Off Peak	PM Peak	Walk	DW	A+R
Cycle	Free	Free	Free	Free	Free	Free	Free	Free			
Offset	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ			
EB Thru	max=26.5	max=27.5	max=36.5	max=27.5	max=36.5	max=27.5	max=36.5	max=36.5	-	-	3.3+3.2
WB Thru	max=26.5	max=27.5	max=36.5	max=27.5	max=36.5	max=27.5	max=36.5	max=36.5	7	13	3.3+3.2
WB Right (fp)	max=26.1	max=31.1	max=41.1	max=51.1	max=31.1	max=51.1	44.1	44.1	-		3.3+2.8
SB Thru	max=26.1	max=31.1	max=41.1	max=58.1	max=31.1	max=51.1	44.1	44.1	26	12	3.3+2.8
EB Left (fp)	max=20.8	max=26.8	max=33.8	max=40.8	max=45.8	42.8	42.8	max=55.8	25	12	3.3+2.5

Phasing Sequence[‡]





Plan: 28,29,30



Notes:

- 1) For all plans except 28,29,30, the EW thru movements have minimum recalls of 10 seconds green. There are no ped recalls
 2) For all plans except 28,29,30 the maximum splits provided will be extended if the pedestrian phases are actuated
- to satisfy the walk and flashing-don't-walk intervals.

Schedule

Weekday

Time	Plan
0:00	4
6:30	16
7:00	28
9:30	29
14:30	30
17:00	9
22:30	4

Weekend

Time	Plan
0:15	4
7:00	10
10:00	17
22:00	4

Notes

Asterisk (*) Indicates actuated phase (fp): Fully Protected Left Turn

←······►

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

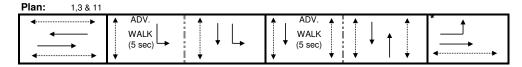
Traffic Signal Operations Unit

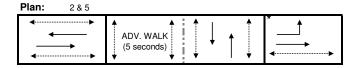
Intersection:	Main:	Albert	Side:	Booth
Controller:	ATC-3		TSD:	5465
Author:	Matthew	Anderson	Date:	09-Aug-2021

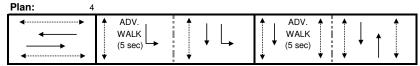
Existing Timing Plans[†]

	Plan						Ped Mir	nimum T	ime
	AM Peak	Off Peak	PM Peak	Night	Weekend	AM Heavy	Walk	DW	A+R
	1	2	3	4	5	11			
Cycle	120	85	120	85	85	120			
Offset	104	38	9	3	38	104			
EB Thru	55	50	70	37	50	67	7	23	3.3+3.2
WB Thru	37	37	41	37	37	36	7	23	3.3+3.2
SB Left	25	-	12	13	-	15	-	-	3.3+3.2
NB Thru	40	35	38	35	35	38	7	21	3.3+3.2
SB Thru	65	35	50	48	35	53	7	21	3.3+3.2
EB Left	18	13	29	1	13	31	1	1	3.3+3.2

Phasing Sequence[‡]







Notes:

- 1) Plans 1, 3, and 11, have an alternative walk time of 10 seconds for the NS thru movements.
- 2) The SB thru movement is prohibited from 11:00pm to 6:00am.
- 3) The SB and WB right turn on red is prohibited on weekdays from 7:00am to 9:00pm.
 4) The WB left turn is prohibited on weekdays from 7:00am to 9:00am, and 3:30pm to 5:30pm with bicycles excepted

Schedule

weekaay	
Time	Plan
0:15	4
6:00	1
8:00	11
9:30	2
15:00	3
18:30	2

Saturday						
Time	Plan					
0:15	4					
6:00	2					
12:00	5					
18:00	2					
23:00	4					

Sunday	
Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
23:00	4

Notes

23:00

- †: Time for each direction includes amber and all red intervals
- ‡: Start of first phase should be used as reference point for offset Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

Pedestrian signal

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection: Main: Albert / Slater Side: Empress

Controller: ATC3 TSD: 5658

Author: Matthew Anderson Date: 09-Aug-2021

Existing Timing Plans[†]

Plan

Ped Minimum Time

	AM Peak	Off Peak	PM Peak	Night 4	Weekend 5	Walk	DW	A+R
Cycle	120	75	120	70	75			
Offset	87	6	87	Х	6			
EB Thru	81	36	81	31	36	7	15	3.3+3.8
WB Thru	81	36	81	31	36	7	15	3.3+3.8
NB Thru	39	39	39	39	39	10	23	3.3+3.0
SB Thru	39	39	39	39	39	10	23	3.3+3.0

Phasing Sequence[‡]

Plan: 1, 2, 3, 5



Plan: 4



Schedule

Weekday

Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:30	2
22:30	4

Weekend

Time	Plan
0:15	4
8:00	2
22:00	4

Notes

- †: Time for each direction includes amber and all red intervals
- ‡: Start of first phase should be used as reference point for offset

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection: Main: **SJAM** Side: Vimy

Controller: ATC 3 TSD: 6570

Author: Matthew Anderson Date: 11-Aug-2021

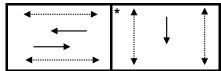
Existing Timing Plans[†]

Ped Minimum Time Plan

	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	95	80	120	80	80			
Offset	59	10	37	64	10			
EB Thru	62	47	87	47	47	-	-	3.7+2.3
WB Thru	62	47	87	47	47	20	11	3.7+2.3
SB Thru	33	33	33	33	33	7	19	3.3+3.0

Phasing Sequence[‡]

Plan: All



Schedule

Weekday

Time	Plan
Tillle	гап
0:15	4
6:00	1
9:30	2
15:00	3
18:00	2
22:00	4

Weekend

Time	Plan		
0:15	4		
8:00	2		
12:00	5		
18:00	2		
22:00	4		

Notes

†: Time for each direction includes amber and all red intervals

‡: Start of first phase should be used as reference point for offset

Asterisk (*) Indicates actuated phase (fp): Fully Protected Left Turn

◄······

Pedestrian signal

Cost is \$59.96 (\$53.06 + HST)

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection: Main: Wellington Side: Lett

Controller: MS-3200 TSD: 6565

Author: Matthew Anderson Date: 11-Aug-2021

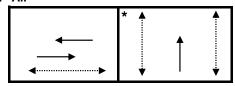
Existing Timing Plans[†]

Plan Ped Minimum Time

	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	95	80	120	70	80			
Offset	60	Χ	27	Χ	Χ			
EB Thru	61	46	86	36	46	15	9	3.7+2.1
WB Thru	61	46	86	36	46	-	-	3.7+2.1
NB Thru	34	34	34	34	34	7	21	3.3+2.6

Phasing Sequence[‡]

Plan: All



Schedule

Weekday

,	
Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:00	2
22:00	4

Weekend

Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
22:00	4

Notes

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection: Main: Albert Side: City Centre

Controller: ATC 3 TSD: 5661

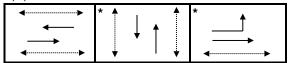
Author: Matthew Anderson Date: 11-Aug-2021

Existing Timing Plans[†]

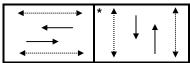
	Plan		Ped Minimum Time					
	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	120	85	120	65	85			
Offset	80	55	80	Х	55			
EB Thru	84	56	84	35	56	7	14	3.3+3.0
WB Thru	67	45	67	35	45	7	14	3.3+3.0
NB Thru	36	29	36	30	29	7	16	3.3+3.0
SB Thru	36	29	36	30	29	7	16	3.3+3.0
EB Left	17	11	17	-	11	-	-	3.3+3.0

Phasing Sequence[‡]

Plan: 1, 2, 3 & 5



Plan: 4



Schedule

Weekday

,	
Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:30	2
22:00	4

Weekend

Notes

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

Pedestrian signal

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection: Perley Booth Side: Main: TSD: Controller: ATC3 5461 Author: Matthew Anderson Date: 09-Aug-2021

Existing Timing Plans[†]

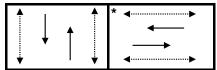
Plan

Ped Minimum Time

	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	75	80	75	70	80			
Offset	47	X	10	Χ	X			
NB Thru	53	58	53	48	58	15	15	3.3+2.6
SB Thru	53	58	53	48	58	15	15	3.3+2.6
EB Thru	22	22	22	22	22	7	9	3.0+3.2
WB Thru	22	22	22	22	22	7	9	3.0+3.2

Phasing Sequence[‡]





Schedule

Weekday

Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:00	2
22:00	4

Weekend

Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
22:00	4

Notes

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

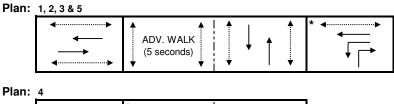
Traffic Signal Operations Unit

Intersection:	Main:	Albert	Side:	Preston	
Controller:	Ms 3200	1	TSD: 5009		
Author:	Matthew Anderson		Date:	11-Aug-2021	

Existing Timing Plans[†]

	Plan				Ped Minimum Time				
	AM Peak	Off Peak	PM Peak	Night	Walk	DW	A+R		
	1	2	3	4	5				
Cycle	120	80	120	70	80				
Offset	55	75	65	Х	75				
EB Thru	65	35	61	41	35	7	18	3.3+3.5	
WB Thru	90	48	77	41	48	7	18	3.3+3.5	
NB Thru	30	32	43	29	32	7	16	3.3+3.0	
NB Thru	30	32	43	29	32	7	16	3.3+3.0	
WB Left	25	13	16	-	13	-	-	3.3+2.9	
NB Right	25	13	16	-	13	-	-	3.3+2.9	

Phasing Sequence[‡]



ADV. WALK (5 seconds)

Notes: 1) The NB right turn is prohibited on red, weekdays between 700-1900

Schedule

Weekd	ay
Time	

Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:30	2
22:00	4

Weekend

Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
22:00	4

Notes

Asterisk (*) Indicates actuated phase (fp): Fully Protected Left Turn

Pedestrian signal

Cost is \$59.96 (\$53.06 + HST)

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection:Main:Albert / ScottSide:Bayview StationController:MS 3200TSD:5613

Author: Matthew Anderson Date: 11-Aug-2021

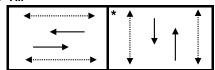
Existing Timing Plans[†]

Plan Ped Minimum Time

	Early AM	Off Peak	PM Peak	Night	Weekend	AM Peak	Walk	DW	A+R
	1	2	3	4	5	21			
Cycle	95	65	100	70	65	100			
Offset	40	54	65	Х	54	40			
EB Thru	63	33	68	38	33	68	7	19	3.3+3.2
WB Thru	63	33	68	38	33	68	7	19	3.3+3.2
NB Thru	32	32	32	32	32	32	7	19	3.3+3.1
SB Thru	32	32	32	32	32	32	7	19	3.3+3.1

Phasing Sequence[‡]

Plan: All



Schedule

Weekday

Time	Plan
0:15	4
6:30	1
7:45	21
9:30	2
15:00	3
18:30	2
22:30	4

Saturday

outu. uu,					
Time	Plan				
0:15	4				
6:30	2				
9:00	5				
18:30	2				
22:30	4				

Sunday

j					
Plan					
4					
2					
5					
2					
4					

Notes

- †: Time for each direction includes amber and all red intervals
- ‡: Start of first phase should be used as reference point for offset

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

City of Ottawa, Transportation Services Department

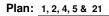
Traffic Signal Operations Unit

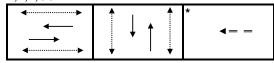
Intersection:	Main: Scott	Side: Parkdale
Controller:	ATC 3	TSD: 5310
Author:	Matthew Anderson	Date: 11-Aug-2021

Existing Timing Plans[†]

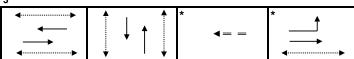
	Plan	Plan					Ped Minimum Time		
	AM Peak	Off Peak	PM Peak	Night	Weekend	AM Heavy	Walk	DW	A+R
	1	2	3	4	5	21			
Cycle	95	75	100	70	75	100			
Offset	91	33	8	61	33	91			
EB Thru	46	34	49	29	34	51	7	15	3.3+2.8
WB Thru	46	34	34	29	34	51	7	15	3.3+2.8
NB Thru	43	35	45	35	35	43	10	19	3.0+3.3
SB Thru	43	35	45	35	35	43	10	19	3.0+3.3
WB Bus	6	6	6	6	6	6	-	-	0.0+2.0
EB Left	-	-	15	-	-	-	-	-	3.3+2.3

Phasing Sequence[‡]





Plan: 3



Schedule

Weekday

Time	Plan
0:15	4
6:30	1
7:45	21
9:30	2
15:00	3
18:30	2
22:30	4

Saturday

Time	Plan		
0:15	4		
6:30	2		
9:00	5		
18:30	2		
22:30	4		

Sunday

Time	Plan
0:15	4
6:30	2
9:00	5
18:00	2
22:30	4

Notes

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

Pedestrian signal

Transit signal

Cost is \$59.96 (\$53.06 + HST)

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

 Intersection:
 Main:
 SJAM
 side:
 Slidell

 Controller:
 ATC 3
 TSD:
 5890

 Author:
 Matthew Anderson
 Date:
 11-Aug-2021

Existing Timing Plans[†]

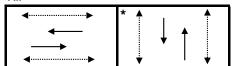
Plan

Ped Minimum Time

	AM Peak	Off Peak	PM Peak	Night	Walk	DW	A+R
	1	2	3	4			
Cycle	95	Free	95	Free			
Offset	0	X	0	Х			
ED TI	0.4	50.5	0.4	54.5	4.5	40	07.40
EB Thru	61	max = 53.5	61	max = 54.5	15	10	3.7+1.8
WB Thru	61	max = 53.5	61	max = 54.5	15	10	3.7+1.8
NB Thru	34	max = 31.3	34	max = 31.3	7	20	3.3+3.0
SB Thru	34	max = 31.3	34	max = 31.3	7	20	3.3+3.0

Phasing Sequence[‡]

Plan: All



Notes: 1) Plans 2 & 4, have a max and ped recall on the EW movements

2) Plans 1 & 3, have a ped recall on the EW movements

Schedule

Weekday

Time	Plan
0:15	4
6:30	1
9:00	2
15:00	3
18:30	2
21:00	4

Weekend

Time	Plan
0:10	4
7:00	2
19:00	4

Notes

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

→ Pedestrian signal

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection: SJAM / Wellington Booth Side: Main: Controller: MS 3200 TSD: 6567

Author: Matthew Anderson Date: 09-Aug-2021

Existing Timing Plans[†]

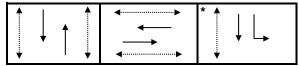
Plan

Ped Minimum Time

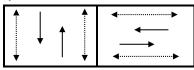
	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	95	85	120	75	85			
Offset	31	58	3	23	58			
NB Thru	35	35	48	35	35	10	15	3.3+3.5
SB Thru	35	35	48	35	35	10	15	3.3+3.6
EB Thru	48	38	60	40	38	10	19	3.7+3.1
WB Thru	48	38	60	40	38	10	19	3.7+3.1
SB Left	12	12	12	-	12	-	•	3.3+3.5

Phasing Sequence[‡]

Plan: 1,2,3,5



Plan: 4



Schedule

Weekday

Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:00	2
23:45	4

Weekend

Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
22:00	4

Notes

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

Pedestrian signal

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Transportation Services Department

Traffic Signal Operations Unit

Intersection: Main: Booth Side: War museum

Controller: MS 3200 TSD: 6564

Author: Matthew Anderson Date: 09-Aug-2021

Existing Timing Plans[†]

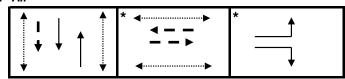
Plan

Ped Minimum Time

	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	95	85	95	85	95			
Offset	47	Х	10	X	Х			
NB Thru	49	39	49	39	49	20	5	3.3+2.6
SB Thru	49	39	49	39	49	20	5	3.3+2.6
EW Bike	29	29	29	29	29	7	15	3.0+4.0
EB Exit (fp)	17	17	17	17	17	-	-	3.3+2.9

Phasing Sequence[‡]

Plan: All



Schedule

Weekday

Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:00	2
22:00	4

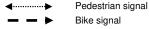
Weekend

Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
22:00	4

notes

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn



Cost is \$58.78 (\$52.02 + HST)

^{†:} Time for each direction includes amber and all red intervals

^{‡:} Start of first phase should be used as reference point for offset

City of Ottawa, Public Works Department

Traffic Signal Operations Unit

Intersection: Main: Somerset Side: Booth

Controller: TSD: MS3200 5017

Author: Date: 07-Mar-2024 Hamadoun Issabre

Existing Timing Plans[†]

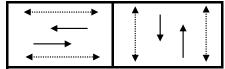
Plan

Ped Minimum Time

	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	80	75	75	55	65			
Offset	0	16	1	42	42			
EB Thru	42	43	38	27	35	7	8	3.3+2.1
WB Thru	42	43	38	27	35	7	8	3.3+2.1
NB Thru	38	32	37	28	30	7	11	3.3+2.3
SB Thru	38	32	37	28	30	7	11	3.3+2.3

Phasing Sequence[‡]





Schedule

Weekday

Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:00	2
22:00	4

Weekend

	-
Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
22:00	4

Notes

- †: Time for each direction includes amber and all red intervals
- ‡: Start of first phase should be used as reference point for offset

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

Pedestrian signal

Cost is \$62.38 (\$55.20 + HST)

City of Ottawa, Public Works Department

Traffic Signal Operations Unit

 Intersection:
 Main:
 Somerset
 side:
 Preston

 Controller:
 ATC3
 TSD:
 5079

 Author:
 Hamadoun Issabre
 Date:
 07-May-2024

Existing Timing Plans[†]

Plan Ped Minimum Time

	AM Peak	Off Peak	PM Peak	Night	Weekend	Walk	DW	A+R
	1	2	3	4	5			
Cycle	80	75	75	60	65			
Offset	58	73	32	28	28			
EB Thru	43	42	41	30	31	7	12	3.3+2.3
WB Thru	43	42	41	30	31	7	12	3.3+2.3
NB Thru	37	33	34	30	34	7	14	3.3+2.4
SB Thru	37	33	34	30	34	7	14	3.3+2.4

Phasing Sequence[‡]





Notes: 1) All movements have a No Right-turn on Red restriction between 7:00 - 19:00, Mon to Fri

Schedule

Weekday

Time	Plan
0:15	4
6:00	1
9:30	2
15:00	3
18:00	2
22:00	4

Saturday

Time	Plan
0:15	4
8:00	2
12:00	5
18:00	2
22:00	4

Notes

- †: Time for each direction includes amber and all red intervals
- ‡: Start of first phase should be used as reference point for offset

Asterisk (*) Indicates actuated phase

(fp): Fully Protected Left Turn

Pedestrian signal

Cost is \$62.38 (\$55.20 + HST)

APPENDIX C: City of Ottawa - Collision Data

STUDY AREA YE	AR DATE TIME COLLISION II	D. LOCATION	X Y LONGITUDE LATITUDE EN	RONMENT LIGHT	SURFACE CONDITION	TRAFFIC CONTROL TRAFFIC CONTROL CONDITION	ON COLLISION CLASSIFICATIO	N IMPACT TYPE	NO OF PEDESTRIANS FID
Y Y	2015 2015/07/05 04:00:00+00 1899/12/31 22:34:00+00 15-7406	ALBERT ST @ BRONSON AVE	366739.7188 5031015 -75.70859528 45.41632843 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	02 - Angle	0 7191
Υ	2015 2015/12/14 05:00:00+00 1900/01/01 01:55:00+00 15-12926	ALBERT ST @ BRONSON AVE	366738.9688 5031017.5 -75.70861053 45.41635132 02		02 - Wet	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	02 - Angle	0 12464
Y	2015 2015/12/08 05:00:00+00 1899/12/31 20:16:00+00 15-12682 2015 2015/01/05 05:00:00+00 1899/12/31 13:33:00+00 15-134	ALBERT ST @ COMMISSIONER ST ALBERT ST @ FMPRESS AVE	366713.6875 5030970 -75.7089386 45.41592789 02 366577.125 5030722 -75.71071625 45.41370773 06	Rain 01 - Daylight Strong wind 01 - Daylight	t 02 - Wet	02 - Stop sign 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 02 - Non-fatal injury	02 - Angle 03 - Rear end	0 12980 0 234
Y	2015 2015/01/05 05:00:00+00 1899/12/31 19:29:00+00 15:154	ALBERT ST @ EMPRESS AVE	366576.6563 5030720.5 -75.71071625 45.41369629 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	99 - Other	0 653
Υ	2015 2015/02/20 05:00:00+00 1899/12/31 11:16:00+00 15-2852	ALBERT ST @ EMPRESS AVE	366573.8125 5030720 -75.71075439 45.41368866 01	Clear 07 - Dark	02 - Wet	01 - Traffic signal 01 - Functioning	03 - P.D. only	07 - SMV other	0 2656
Y	2015 2015/01/29 05:00:00+00 1899/12/31 13:55:00+00 15-1510 2015 2015/02/04 05:00:00+00 1899/12/31 15:00:00+00 15-1958	ALBERT ST @ PRESTON ST ALBERT ST @ PRESTON ST	366160.375 5030465.5 -75.71607208 45.41143799 01 366158 6875 5030466 5 -75.71608734 45.41144562 03		t 06 - Ice	01 - Traffic signal 01 - Functioning	03 - P.D. only 02 - Non-fatal injury	03 - Rear end 03 - Rear end	0 1329 0 1693
Y	2015 2015/02/04 05:00:00+00 1899/12/31 15:00:00+00 15-1958 2015 2015/02/17 05:00:00+00 1899/12/31 13:52:00+00 15-2700	ALBERT ST @ PRESTON ST	366160.375 5030466.5 -75.71608734 45.41144562 03 366160.375 5030465.5 -75.71607208 45.41143799 01			01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-ratal injury 03 - P.D. only	03 - Rear end	0 1693
Y	2015 2015/03/03 05:00:00+00 1899/12/31 21:15:00+00 15-3451	ALBERT ST @ PRESTON ST	366158.6875 5030465 -75.71608734 45.41143036 03	Snow 01 - Daylight	t 05 - Packed snow	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 3949
Y	2015 2015/07/19 04:00:00+00 1899/12/31 22:55:00+00 15-7872 2015 2015/07/10 04:00:00+00 1899/12/31 23:30:00+00 15-7596	ALBERT ST @ PRESTON ST ALBERT ST @ PRESTON ST	366160.0625 5030465 -75.71607208 45.41143036 02 366161.4063 5030463 -75.71605682 45.41141129 01		02 - Wet	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 03 - P.D. only	02 - Angle 03 - Rear end	0 7320 0 7443
Y	2015 2015/07/10 04:00:00+00 1899/12/31 23:30:00+00 15-7596 2015 2015/10/29 04:00:00+00 1899/12/31 21:25:00+00 15-11234	ALBERT ST @ PRESTON ST	366161.4063 5030464 -75.71605682 45.41141129 01			01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	05 - Kear end 05 - Turning movement	0 7443
Y	2015 2015/12/21 05:00:00+00 1899/12/31 12:20:00+00 15-13146	ALBERT ST @ PRESTON ST	366160.6875 5030464 -75.71606445 45.41141891 01	Clear 03 - Dawn	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	01 - Approaching	0 13292
Υ	2015 2015/05/27 04:00:00+00 1899/12/31 21:30:00+00 15-13635	ALBERT ST @ PRESTON ST	366161.4375 5030463 -75.71605682 45.41141129 00		t 00 - Unknown	01 - Traffic signal 00 - Unknown	03 - P.D. only	04 - Sideswipe	0 13643
Y	2015 2015/07/09 04:00:00+00 1899/12/31 19:32:00+00 15-7540 2015 2015/07/05 04:00:00+00 1899/12/31 05:44:00+00 15-7394	ALBERT ST btwn Continuation of ALBERT ST & BOOTH ST ALBERT ST btwn PRESTON ST & Continuation of ALBERT ST	366342.2188 5030573.5 -75.71372986 45.41239166 01 366289 5030545.5 -75.7144165 45.41214371 01		t 01 - Dry 01 - Dry	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	04 - Sideswipe 07 - SMV other	0 7384 0 7100
Ý	2015 2015/08/23 04:00:00+00 1900/01/01 02:16:00+00 15-7594	ALBERT ST btwn PRESTON ST & Continuation of ALBERT ST	366179.375 5030476 -75.71582794 45.41152954 01	Clear 07 - Dark	01 - Dry	10 - No control	02 - Non-fatal injury	05 - Turning movement	0 8691
Υ	2015 2015/10/20 04:00:00+00 1899/12/31 21:56:00+00 15-10904	ALBERT ST btwn PRESTON ST & Continuation of ALBERT ST	366178.4063 5030476 -75.71583557 45.41152573 01	Clear 01 - Daylight		10 - No control	03 - P.D. only	04 - Sideswipe	0 10122
Y	2015 2015/12/29 05:00:00+00 1899/12/31 19:54:00+00 15-13391 2015 2015/01/07 05:00:00+00 1899/12/31 22:20:00+00 15-305	ALBERT ST btwn SCOTT ST & CITY CENTRE AVE (2) BAYVIEW RD @ SCOTT ST/ALBERT ST	365862.9688 5030304 -75.71988678 45.41001129 03 365519.0313 5030071 -75.72431183 45.40794373 01		t 03 - Loose snow 05 - Packed snow	10 - No control 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	07 - SMV other 05 - Turning movement	0 13989 0 407
Y	2015 2015/02/13 05:00:00+00 1899/12/31 14:25:00+00 15-303	BAYVIEW RD @ SCOTT ST/ALBERT ST	365520 5030071 -75.72431163 45.40794373 01			01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 2575
Υ	2015 2015/03/15 04:00:00+00 1899/12/31 21:49:00+00 15-3848	BAYVIEW RD @ SCOTT ST/ALBERT ST	365518.0625 5030071 -75.72431946 45.40794373 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 3757
Y	2015 2015/07/02 04:00:00+00 1900/01/01 00:46:00+00 15-7334 2015 2015/06/29 04:00:00+00 1899/12/31 15:53:00+00 15-7184	BAYVIEW RD @ SCOTT ST/ALBERT ST BAYVIEW RD @ SCOTT ST/ALBERT ST	365520.4688 5030070 -75.72428894 45.40793228 01 365519.75 5030070.5 -75.7243042 45.4079361 01			01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 02 - Non-fatal injury	07 - SMV other	1 7040 0 7618
Y	2015 2015/08/29 04:00:00+00 1899/12/31 15:53:00+00 15-7184 2015 2015/08/28 04:00:00+00 1899/12/31 12:30:00+00 15-9120	BAYVIEW RD @ SCOTT ST/ALBERT ST BAYVIEW RD @ SCOTT ST/ALBERT ST	365519.75 5030070.5 -75.7243042 45.4079361 01 365519.0313 5030072 -75.72431183 45.40795135 01			01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only	02 - Angle 05 - Turning movement	0 7618
Υ	2015 2015/03/21 04:00:00+00 1899/12/31 22:51:00+00 15-4000	BOOTH ST @ 148 N OF MIDDLE ST/E.B.EDDY S	366035.5313 5031415 -75.71754456 45.41999054 06	Strong wind 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 3698
Υ	2015 2015/07/21 04:00:00+00 1899/12/31 22:45:00+00 15-7932	BOOTH ST @ 148 N OF MIDDLE ST/E.B.EDDY S	366036.25 5031415.5 -75.71753693 45.41999435 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	03 - Rear end	0 7463
Y	2015 2015/01/05 05:00:00+00 1899/12/31 19:08:00+00 15-157 2015 2015/01/21 05:00:00+00 1900/01/01 00:19:00+00 15-1129	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.25 5031006 -75.7146759 45.41629028 01 366263.2813 5031005 -75.71468353 45.41628265 01		t 02 - Wet	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	03 - Rear end 07 - SMV other	0 257 0 1450
Y	2015 2015/01/28 05:00:00+00 1899/12/31 15:07:00+00 15-1437	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366262.9375 5031007.5 -75.71469116 45.41630554 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 1937
Υ	2015 2015/02/12 05:00:00+00 1899/12/31 15:10:00+00 15-2422	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.9063 5031007.5 -75.7146759 45.41630554 01	Clear 01 - Daylight	t 04 - Slush	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 2521
Y	2015 2015/02/13 05:00:00+00 1899/12/31 18:13:00+00 15:2490 2015 2015/03/22 04:00:00+00 1899/12/31 13:52:00+00 15:4013	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366265.2188 5031006 -75.71466064 45.41629028 01 366264.0313 5031005.5 -75.7146759 45.41628265 03		t 01 - Dry t 03 - Loose snow	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	0 2589 0 4642
Y	2015 2015/03/22 04:00:00+00 1899/12/31 13:52:00+00 15-4013 2015 2015/05/28 04:00:00+00 1899/12/31 21:14:00+00 15-6074	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.5938 5031008 -75.71468353 45.41630936 01			01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	05 - Turning movement	0 4642
Y	2015 2015/07/20 04:00:00+00 1899/12/31 21:15:00+00 15-7895	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.3125 5031006.5 -75.7146759 45.41629791 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 7343
Y	2015 2015/08/01 04:00:00+00 1899/12/31 06:38:00+00 15-8276	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.5938 5031007.5 -75.71468353 45.41630173 01		01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 8085
Y	2015 2015/08/18 04:00:00+00 1899/12/31 13:20:00+00 15-8819 2015 2015/09/03 04:00:00+00 1899/12/31 14:48:00+00 15-9297	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.5313 5031005 -75.71468353 45.41627884 01 366264.25 5031006.5 -75.7146759 45.4162941 01			01 - Traffic signal 00 - Unknown 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 03 - P.D. only	03 - Rear end 04 - Sideswipe	0 8917 0 9571
Y	2015 2015/11/05 05:00:00+00 1899/12/31 21:51:00+00 15-11488	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.25 5031005 -75.7146759 45.41628265 01		01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 11202
Υ	2015 2015/11/17 05:00:00+00 1900/01/01 01:00:00+00 15-11922	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.25 5031006 -75.7146759 45.41629028 01	Clear 07 - Dark	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 11685
Y	2015 2015/11/26 05:00:00+00 1900/01/01 04:43:00+00 15-12279 2015 2015/12/01 05:00:00+00 1899/12/31 10:40:00+00 15-12432	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366262.8125 5031006 -75.71469116 45.41629028 01 366264.25 5031005 -75.7146759 45.41628265 01		01 - Dry 01 - Dry	01 - Traffic signal 00 - Unknown 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	04 - Sideswipe 04 - Sideswipe	0 12414 0 12490
Y	2015 2015/10/14 04:00:00+00 1899/12/31 22:09:00+00 15-12432	BOOTH ST @ OTTAWA RIVER PKWT/WELLINGTON ST	366265.7813 5031010 -75.71465302 45.41632843 01		t 01 - Dry	01 - Traffic signal 00 - Unknown	02 - Non-fatal injury	03 - Rear end	0 13724
Υ	2015 2015/10/02 04:00:00+00 1899/12/31 13:00:00+00 15-13734	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.0625 5031004 -75.71469116 45.41627121 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 13737
Y	2015 2015/02/20 05:00:00+00 1899/12/31 23:15:00+00 15-2913	BOOTH ST btwn 148 N OF MIDDLE ST/E.B. EDDY S & MIDDLE ST	366078.25 5031346.5 -75.7170105 45.41937256 01		02 - Wet	10 - No control	03 - P.D. only	07 - SMV other	0 2717
Y	2015 2015/08/27 04:00:00+00 1899/12/31 14:09:00+00 15:9081 2015 2015/05/12 04:00:00+00 1899/12/31 13:19:00+00 15:5527	BOOTH ST btwn 148 N OF MIDDLE ST/E.B. EDDY S & MIDDLE ST BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV	366104.0625 5031304.5 -75.71668243 45.41899109 01 366177.3438 5031202.5 -75.71575928 45.41806412 02			10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	04 - Sideswipe 07 - SMV other	0 9733 0 5589
Ý	2015 2015/09/17 04:00:00+00 1899/12/31 18:55:00+00 15:9802	BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV	366157.9375 5031233 -75.71600342 45.41834259 01		01 - Dry	10 - No control	03 - P.D. only	03 - Rear end	0 9668
Υ	2015 2015/12/15 05:00:00+00 1899/12/31 13:40:00+00 15-13769	BOOTH ST btwn PROVINCIAL BOUNDARY & 208 N OF MIDDLE ST/E.B. EDDY N	365991.7813 5031517.5 -75.71809387 45.4209137 02	Rain 01 - Daylight	t 02 - Wet	10 - No control	03 - P.D. only	03 - Rear end	0 13771
Y	2015 2015/02/23 05:00:00+00 1900/01/01 04:34:00+00 15-3101 2015 2015/06/24 04:00:00+00 1899/12/31 12:40:00+00 15-7014	BOOTH ST btwn VIMY PLACE PRIV & OTTAWA RIVER PKWY BOOTH ST btwn VIMY PLACE PRIV & OTTAWA RIVER PKWY	366249.4375 5031044 -75.71485901 45.41663361 01 366246.9688 5031048 -75.71488953 45.41667175 01		06 - Ice	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	0 3499 0 7244
Y	2015 2015/06/24 04:00:00+00 1899/12/31 12:40:00+00 15-7014 2015 2015/09/14 04:00:00+00 1899/12/31 21:26:00+00 15-9672	BOOTH ST BOWN VIMY PLACE PRIV & OTTAWA RIVER PAWY BOOTH ST bown VIMY PLACE PRIV & OTTAWA RIVER PAWY	366249.125 5031049.5 -75.71488953 45.41667175 01 366249.125 5031049.5 -75.71485901 45.4166832 01		01-Dry	10 - No control	03 - P.D. only	03 - Rear end	0 7244
Y	2015 2015/01/20 05:00:00+00 1899/12/31 15:15:00+00 15-1023	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366768.5938 5030952.5 -75.70823669 45.41576385 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	02 - Angle	0 1243
Y	2015 2015/03/08 05:00:00+00 1899/12/31 22:47:00+00 15-3607 2015 2015/03/23 04:00:00+00 1899/12/31 14:58:00+00 15-4035	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366767.75 5030946 -75.70825195 45.41570663 01 366769.6563 5030949 -75.70822144 45.41573334 01			01 - Traffic signal 01 - Functioning	03 - P.D. only 02 - Non-fatal injury	04 - Sideswipe	0 3110 0 4765
Y	2015 2015/03/23 04:00:00+00 1899/12/31 14:58:00+00 15-4035 2015 2015/03/23 04:00:00+00 1899/12/31 23:37:00+00 15-4062	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366768.625 5030949 -75.70822144 45.41573334 01 366768.625 5030948 -75.70823669 45.41572571 01		01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 03 - P.D. only	05 - Turning movement 05 - Turning movement	0 4765
Y	2015 2015/06/19 04:00:00+00 1899/12/31 13:05:00+00 15-6828	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366768.7188 5030949 -75.70823669 45.41573334 01	Clear 01 - Daylight		01 - Traffic signal 00 - Unknown	02 - Non-fatal injury	04 - Sideswipe	0 6027
Υ	2015 2015/06/19 04:00:00+00 1899/12/31 22:47:00+00 15-6867	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366768 5030949.5 -75.70824432 45.41573715 01			01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	05 - Turning movement	0 6066
Y	2015 2015/07/14 04:00:00+00 1900/01/01 03:04:00+00 15-7715 2015 2015/10/28 04:00:00+00 1899/12/31 19:50:00+00 15-11179	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.4375 5030948 -75.70822906 45.41572571 01 366769.4375 5030947.5 -75.70822906 45.41571808 02	Clear 07 - Dark Rain 01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	04 - Sideswipe 05 - Turning movement	0 7226 0 11538
Y	2015 2015/10/28 04:00:00+00 1899/12/31 19:50:00+00 15-111/9 2015 2015/11/27 05:00:00+00 1899/12/31 11:24:00+00 15-12282	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.4375 5030947.5 -75.70822906 45.41571808 02 366769.4375 5030948.5 -75.70822906 45.41572952 01	Clear 03 - Daysignt	01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 02 - Non-fatal injury	05 - Turning movement	0 11538
Υ	2015 2015/12/06 05:00:00+00 1899/12/31 23:10:00+00 15-12626	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.3125 5030949.5 -75.70822906 45.41573715 01		01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	03 - Rear end	0 12741
Y	2015 2015/02/04 05:00:00+00 1899/12/31 20:16:00+00 15-1998	OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366515.2188 5031315 -75.71142578 45.41904831 03		t 03 - Loose snow	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 1733
Y	2015 2015/02/25 05:00:00+00 1899/12/31 19:29:00+00 15-3221 2015 2015/06/07 04:00:00+00 1899/12/31 08:55:00+00 15-13641	OTTAWA RIVER PKWY @ PORTAGE BRIDGE OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366515.9375 5031315 -75.71141815 45.41904831 01 366516.7813 5031316.5 -75.71141052 45.41906357 01	Clear 01 - Daylight Clear 07 - Dark	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	04 - Sideswipe 07 - SMV other	0 3219 0 13649
Ý	2015 2015/12/30 05:00:00+00 1900/01/01 03:06:00+00 15-13442	OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366516.2188 5031314.5 -75.71141815 45.41904449 03	Snow 07 - Dark	04 - Slush	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	03 - Rear end	0 13851
Y	2015 2015/01/26 05:00:00+00 1899/12/31 13:52:00+00 15-13516	OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST	365157.6563 5030377 -75.72888947 45.41072845 01			01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 13018
Y	2015 2015/02/21 05:00:00+00 1899/12/31 18:26:00+00 15-13561 2015 2015/04/28 04:00:00+00 1899/12/31 20:55:00+00 15-13618	OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST	365157.625 5030376 -75.72888947 45.41071701 00 365158.4375 5030379.5 -75.72888184 45.41075134 01	Unknown 01 - Daylight Clear 01 - Daylight	t 03 - Loose snow	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	02 - Angle 02 - Angle	0 13061 0 13542
Y	2015 2015/10/28 04:00:00+00 1899/12/31 12:00:00+00 15-13156	OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365974.8438 5030797.5 -75.71839905 45.41444016 01	Clear 03 - Dawn	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 11515
Υ	2015 2015/12/11 05:00:00+00 1899/12/31 21:16:00+00 15-12813	OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365974.8125 5030797.5 -75.71839905 45.41444016 02	Rain 05 - Dusk	02 - Wet	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 12285
Y	2015 2015/01/14 05:00:00+00 1899/12/31 14:22:00+00 15-13507 2015 2015/12/22 05:00:00+00 1899/12/31 21:45:00+00 15-13216	OTTAWA RIVER PKWY @ VIMY PLACE PRIV OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365974.0625 5030797.5 -75.71840668 45.41444016 01 365975.125 5030798 -75.71839142 45.41444397 02		02 - Wet	01 - Traffic signal 01 - Functioning 01 - Traffic signal 00 - Unknown	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	0 13007 0 13358
Y	2015 2015/01/15 05:00:00+00 1899/12/31 16:15:00+00 15-13503	OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365971.9688 5030801.5 -75.71843719 45.4144783 01	Clear 01 - Daylight		01 - Traffic signal 01 - Functioning	03 - P.D. only	99 - Other	0 13338
Υ	2015 2015/01/16 05:00:00+00 1899/12/31 11:45:00+00 15-906	OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV	365947.7188 5030781.5 -75.71874237 45.4142952 03	Snow 07 - Dark	05 - Packed snow	10 - No control	03 - P.D. only	04 - Sideswipe	0 906
Y	2015 2015/03/12 04:00:00+00 1900/01/01 00:59:00+00 15-3739	OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV	365940.0625 5030779 -75.71884155 45.41427612 01 365953.8125 5030784 -75.71866608 45.4143219 03		01 - Dry	10 - No control	02 - Non-fatal injury 03 - P.D. only	03 - Rear end	0 3845
Y	2015 2015/01/13 05:00:00+00 1899/12/31 23:20:00+00 15-13523 2015 2015/02/14 05:00:00+00 1899/12/31 14:15:00+00 15-13551	OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV	365953.8125 5030784 -75.71866608 45.4143219 03 365907.0938 5030729.5 -75.7192688 45.41383362 03		05 - Packed snow t 03 - Loose snow	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	07 - SMV other 99 - Other	0 13025 0 13052
Ý	2015 2015/01/28 05:00:00+00 1899/12/31 15:15:00+00 15-1441	OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST	366254.0625 5030999.5 -75.7148056 45.41623306 01	Clear 01 - Daylight	t 01 - Dry	10 - No control	02 - Non-fatal injury	03 - Rear end	0 1941
Υ	2015 2015/02/13 05:00:00+00 1899/12/31 11:43:00+00 15-2458	OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST	366177.4375 5030945 -75.71578979 45.4157486 03		06 - Ice	10 - No control	03 - P.D. only	07 - SMV other	0 2557
Y	2015 2015/06/02 04:00:00+00 1899/12/31 19:17:00+00 15-13637 2015 2015/10/15 04:00:00+00 1899/12/31 05:00:00+00 15-13725	OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & ROOTH ST	366194.0625 5030956 -75.71557617 45.41584396 01 366234 2188 5030985 5 -75.71505737 45.41610718 01	Clear 01 - Daylight Clear 00 - Unknow	t 01 - Dry	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	04 - Sideswipe 04 - Sideswipe	0 13645 0 13728
Y	2015 2015/06/26 04:00:00+00 1899/12/31 18:34:00+00 15-7099	OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE	364682.75 5030333 -75.73496246 45.41036987 01	Clear 01 - Daylight	t 01 - Dry	03 - Yield sign 01 - Functioning	02 - Non-fatal injury	03 - Rear end	0 7724
Υ	2015 2015/02/12 05:00:00+00 1899/12/31 11:31:00+00 15-13550	OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE	364683.5 5030331.5 -75.73495483 45.41035843 03	Snow 03 - Dawn	02 - Wet	03 - Yield sign 01 - Functioning	03 - P.D. only	03 - Rear end	0 13051
Y	2015 2015/10/26 04:00:00+00 1899/12/31 13:49:00+00 15-13728 2015 2015/09/28 04:00:00+00 1899/12/31 20:40:00+00 15-13731	OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE OTTAWA RIVER PKWY WB @ PARKDALE AVE WB ON RAMP	364683 5030332 -75.73495483 45.41036224 01 364637.8438 5030468.5 -75.73551941 45.41159439 02		t 01 - Dry	03 - Yield sign 01 - Functioning 03 - Yield sign 00 - Unknown	03 - P.D. only 03 - P.D. only	03 - Rear end 07 - SMV other	0 13731 0 13734
Y	2015 2015/09/28 04:00:00+00 1899/12/31 20:40:00+00 15-13/31 2015 2015/03/14 04:00:00+00 1899/12/31 07:05:00+00 15-13751	OTTAWA RIVER PKWY WB @ PARKDALE AVE WB ON RAMP OTTAWA RIVER PKWY WB btwn RAMP & RIVER ST	364637.8438 5030468.5 -75.73551941 45.41159439 02 365052.3438 5030362.5 -75.73023987 45.41060257 01		02 - Wet 00 - Unknown	10 - No control	03 - P.D. only 03 - P.D. only	07 - SMV other 04 - Sideswipe	0 13734 0 13753
Y	2015 2015/09/23 04:00:00+00 1899/12/31 20:49:00+00 15-9963	PARKDALE AVE @ BURNSIDE AVE	364788.375 5030097.5 -75.73364258 45.40824127 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 9397
Y	2015 2015/02/27 05:00:00+00 1899/12/31 13:42:00+00 15-3277	PARKDALE AVE @ SCOTT ST	364949.7188 5029726 -75.73162842 45.40488815 01		t 01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	07 - SMV other	1 3275
Y	2015 2015/05/21 04:00:00+00 1899/12/31 13:35:00+00 15-5807 2015 2015/07/05 04:00:00+00 1899/12/31 22:47:00+00 15-7407	PARKDALE AVE @ SCOTT ST PARKDALE AVE @ SCOTT ST	364949.7188 5029725 -75.73162842 45.40488052 01 364950.4375 5029725 -75.73161316 45.40487671 01		t U1 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 03 - P.D. only	02 - Angle 03 - Rear end	0 5128 0 7206
Y	2015 2015/11/03 05:00:00+00 1899/12/31 20:00:00+00 15-11402	PARKDALE AVE @ SCOTT ST	364949.9375 5029726.5 -75.73162079 45.40488815 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 11858
Υ	2015 2015/11/26 05:00:00+00 1900/01/01 03:35:00+00 15-12278	PARKDALE AVE @ SCOTT ST	364949.1875 5029726.5 -75.73162842 45.40488815 01	Clear 07 - Dark	02 - Wet	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 12413
Y	2015 2015/07/17 04:00:00+00 1899/12/31 22:42:00+00 15-13670 2015 2015/06/12 04:00:00+00 1899/12/31 20:30:00+00 15-13647	PARKDALE AVE EB ON RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PAR PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PA	364731.5938 5030390.5 -75.73432922 45.41088486 02 364656.6563 5030588 -75.73526001 45.41266632 02		t 02 - Wet	10 - No control 10 - No control	02 - Non-fatal injury 02 - Non-fatal injury	07 - SMV other 01 - Approaching	0 13676 0 13654
Y	2015 2015/06/12 04:00:00+00 1899/12/31 20:30:00+00 15-13647 2015 2015/07/12 04:00:00+00 1899/12/31 20:00:00+00 15-13669	PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY blwn OTTAWA RIVER PKWY & PA PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY blwn OTTAWA RIVER PKWY & PA	364659.2188 5030386.5 -75.73526001 45.41266632 02 364659.2188 5030386.5 -75.73525238 45.41085434 01			10 - No control 10 - No control	02 - Non-tatal injury 03 - P.D. only	01 - Approaching 03 - Rear end	0 13654 0 13675
Υ	2015 2015/09/12 04:00:00+00 1899/12/31 19:10:00+00 15-13694	PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PA	364645.5625 5030398.5 -75.73542786 45.41096115 02	Rain 01 - Daylight	t 02 - Wet	10 - No control	03 - P.D. only	07 - SMV other	0 13700
Y	2015 2015/07/17 04:00:00+00 1899/12/31 20:00:00+00 15-13590 2015 2015/01/08 05:00:00+00 1900/01/01 02:15:00+00 15-13499	PARKDALE AVE WB ON RAMP/OTTAWA RIVER PKWY btwn PARKDALE AVE & OTTAWA R PARKDALE AVE WB ON RAMP/OTTAWA RIVER PKWY btwn PARKDALE AVE & OTTAWA R	364613.8125 5030524.5 -75.73581696 45.41210175 02 364648.9375 5030474 -75.73537445 45.41164398 03	Rain 01 - Daylight	t 02 - Wet	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	07 - SMV other 07 - SMV other	0 13089 0 13907
Y Y	2015 2015/01/08 05:00:00+00 1900/01/01 02:15:00+00 15-13499 2015 2015/11/23 05:00:00+00 1899/12/31 20:42:00+00 15-12151	PARKDALE AVE WB ON RAMP/OTTAWA RIVER PKWY blwn PARKDALE AVE & OTTAWA R SCOTT ST blwn HINCHEY AVE & CARRUTHERS AVE	364648.9375 5030474 -75.73537445 45.41164398 03 365093.0938 5029812.5 -75.7297821 45.40565109 01			10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	07 - SMV other 02 - Angle	0 13907 0 12214
Υ	2015 2015/05/18 04:00:00+00 1900/01/01 00:34:00+00 15-5722	SCOTT ST btwn PARKDALE AVE & PINEHURST AVE	364963.4063 5029732 -75.73145294 45.40493774 01	Clear 01 - Daylight	t 01 - Dry	10 - No control	02 - Non-fatal injury	02 - Angle	0 5247
Y	2015 2015/01/14 05:00:00+00 1899/12/31 20:28:00+00 15-725	WELLINGTON ST @ LETT ST	366355.4375 5031110 -75.71349335 45.41721725 01	Clear 01 - Daylight	t 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 525
Y	2015 2015/01/29 05:00:00+00 1899/12/31 16:15:00+00 15-1498 2015 2015/10/05 04:00:00+00 1899/12/31 13:50:00+00 15-10363	WELLINGTON ST @ LETT ST WELLINGTON ST @ LETT ST	366353.4375 5031110.5 -75.71352386 45.41722488 01 366355.0625 5031112 -75.71350098 45.41723251 01		t u1 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	03 - Rear end 02 - Angle	0 1998 0 10484
			43741444	- Salagin	,				0404

STUDY ARE	YEAR DATE TIME COLLISION_I 2016 2016/08/04 04:00:00+00 1899/12/31 22:03:00+00 16:7298	ID LOCATION 105 S OF COMMISSIONER ST @ ALBERT ST	X Y LONGITUDE LATITUDE ENVIRONMENT 366666.2813 5030879.5 -75.70955658 45.41511536 01 - Clear	LIGHT 01 - Daylight	SURFACE_CONDITION 01 - Dry	TRAFFIC_CONTROL TRAFFIC_CONTROL_CONDIT 01 - Traffic signal 01 - Functioning	ION COLLISION_CLASSIFICATI 03 - P.D. only	ON IMPACT_TYPE 04 - Sideswipe	NO_OF_PEDESTRIANS FID 0 7990
Y	2016 2016/01/15 05:00:00+00 1899/12/31 21:30:00+00 16-631	ALBERT ST @ BOOTH ST	366428.0313 5030626.5 -75.71263123 45.41286087 01 - Clear	01 - Daylight	02 - Wet	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 831
Y	2016 2016/02/17 05:00:00+00 1900/01/01 00:31:00+00 16:1906 2016 2016/02/25 05:00:00+00 1900/01/01 00:28:00+00 16:2363	ALBERT ST @ BOOTH ST ALBERT ST @ BOOTH ST	366429.0938 5030626.5 -75.71261597 45.41286087 01 - Clear 366427.5938 5030626.5 -75.71263123 45.41286087 01 - Clear	07 - Dark 07 - Dark	03 - Loose snow 02 - Wet	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	02 - Angle 03 - Rear end	0 1711 0 2800
Y	2016 2016/07/16 04:00:00+00 1899/12/31 15:21:00+00 16:6736	ALBERT ST @ BOOTH ST	366428 5030626 5 -75 71263123 45 41286087 01 - Clear	01 - Daylight	02 - Wet 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswine	0 6133
Υ	2016 2016/07/06 04:00:00+00 1899/12/31 12:25:00+00 16-6429 2016 2016/07/10 04:00:00+00 1899/12/31 16:59:00+00 16-6550	ALBERT ST @ BOOTH ST	366428.2813 5030625 -75.7126236 45.41284943 01 - Clear 366429.6563 5030625.5 -75.71260834 45.41285324 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 02 - Non-fatal injury	05 - Turning movement 04 - Sideswipe	0 6483 0 6943
Y	2016 2016/07/10 04:00:00+00 1899/12/31 16:59:00+00 16:6550 2016 2016/08/17 04:00:00+00 1899/12/31 06:56:00+00 16:7633	ALBERT ST @ BOOTH ST ALBERT ST @ BOOTH ST	366429.6563 5030625.5 -75.71260834 45.41285324 01 - Clear 366428.6875 5030628.5 -75.7126236 45.41287994 01 - Clear	01 - Daylight 07 - Dark	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 03 - P.D. only	04 - Sideswipe 07 - SMV other	0 6943 0 7337
Y	2016 2016/09/18 04:00:00+00 1899/12/31 15:29:00+00 16-8585	ALBERT ST @ BOOTH ST	366429.25 5030627 -75.71261597 45.41286469 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 8398
Y	2016 2016/11/16 05:00:00+00 1900/01/01 04:30:00+00 16-10577	ALBERT ST @ BOOTH ST	366427.5938 5030627.5 -75.71263123 45.41287231 01 - Clear	07 - Dark	01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	02 - Angle	0 10639
Y	2016 2016/12/17 05:00:00+00 1899/12/31 17:20:00+00 16-11948 2016 2016/11/29 05:00:00+00 1899/12/31 11:39:00+00 16-11077	ALBERT ST @ BOOTH ST ALBERT ST @ BOOTH ST	366428.4688 5030626.5 -75.7126236 45.41286087 03 - Snow 366429.5313 5030625.5 -75.71260834 45.41284943 03 - Snow	01 - Daylight 07 - Dark	03 - Loose snow 02 - Wet	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	02 - Angle 02 - Angle	0 11265 0 11691
Y	2016 2016/02/16 05:00:00+00 1899/12/31 19:53:00+00 16-1782	ALBERT ST @ BRONSON AVE	366741.0938 5031017.5 -75.70858002 45.41635513 03 - Snow	01 - Daylight	03 - Loose snow	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	01 - Approaching	0 1982
Y	2016 2016/07/31 04:00:00+00 1899/12/31 19:55:00+00 16:7187 2016 2016/09/03 04:00:00+00 1900/01/01 02:47:00+00 16:8161	ALBERT ST @ BRONSON AVE ALBERT ST @ BRONSON AVE	366739.4375 5031017 -75.70860291 45.4163475 01 - Clear 366739.0313 5031016.5 -75.70861053 45.41633987 01 - Clear	01 - Daylight 07 - Dark	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	02 - Angle 02 - Angle	0 7473 0 8175
Y	2016 2016/10/11 04:00:00+00 1899/12/31 19:34:00+00 16-8161	ALBERT ST @ BRONSON AVE	366739.0313 5031016.5 -/5.70861053 45.41633987 01 - Clear 366739.0313 5031017 -75.70861053 45.41634369 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 9787
Y	2016 2016/10/05 04:00:00+00 1899/12/31 12:47:00+00 16-9098	ALBERT ST @ COMMISSIONER ST	366713.9063 5030971.5 -75.70893097 45.41593933 01 - Clear	01 - Daylight	01 - Dry	02 - Stop sign 01 - Functioning	02 - Non-fatal injury	05 - Turning movement	0 9297
Y	2016 2016/06/14 04:00:00+00 1899/12/31 23:41:00+00 16:5718 2016 2016/06/30 04:00:00+00 1899/12/31 15:45:00+00 16:6251	ALBERT ST @ EMPRESS AVE ALBERT ST @ PERKINS ST	366577.375 5030720.5 -75.71070862 45.41369247 01 - Clear 366534.5625 5030695 -75.71125793 45.41346741 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 02 - Stop sign 01 - Functioning	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	0 5479 0 6045
Y	2016 2016/01/04 05:00:00+00 1899/12/31 23:13:00+00 16:95	ALBERT ST @ PRESTON ST	366161.0625 5030464.5 -75.71605682 45.41142654 01 - Clear	07 - Dark	03 - Loose snow	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 95
Y	2016 2016/02/15 05:00:00+00 1899/12/31 17:15:00+00 16:1731 2016 2016/02/19 05:00:00+00 1899/12/31 15:51:00+00 16:2077	ALBERT ST @ PRESTON ST ALBERT ST @ PRESTON ST	366160.3438 5030464.5 -75.71607208 45.41142654 01 - Clear 366161.1875 5030464.5 -75.71605682 45.41142654 01 - Clear	01 - Daylight 01 - Daylight	06 - Ice 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	0 1931 0 2877
Y	2016 2016/03/21 04:00:00+00 1899/12/31 14:00:00+00 16:3140	ALBERT ST @ PRESTON ST	366160.3125 5030464.5 -75.71607208 45.41142654 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	05 - Turning movement	0 3039
Y	2016 2016/06/10 04:00:00+00 1899/12/31 15:44:00+00 16-5596	ALBERT ST @ PRESTON ST	366161 5030464.5 -75.71606445 45.41142654 01 - Clear 366159.9063 5030465 -75.71607208 45.41143036 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 5213
Y	2016 2016/07/07 04:00:00+00 1899/12/31 20:46:00+00 16:6478 2016 2016/08/24 04:00:00+00 1899/12/31 09:54:00+00 16:7834	ALBERT ST @ PRESTON ST ALBERT ST @ PRESTON ST	366159.9063 5030465 -75.71607208 45.41143036 01 - Clear 366161.0625 5030464.5 -75.71605682 45.41142654 01 - Clear	01 - Daylight 07 - Dark	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 02 - Non-fatal injury	03 - Rear end 02 - Angle	0 6533 0 7305
Υ	2016 2016/08/01 04:00:00+00 1899/12/31 15:37:00+00 16-7196	ALBERT ST @ PRESTON ST	366160.1875 5030464.5 -75.71607208 45.41142654 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	04 - Sideswipe	0 7482
Y	2016 2016/09/23 04:00:00+00 1899/12/31 12:36:00+00 16:8760 2016 2016/09/14 04:00:00+00 1899/12/31 17:24:00+00 16:8460	ALBERT ST @ PRESTON ST ALBERT ST @ PRESTON ST	366160.7813 5030464.5 -75.71606445 45.41142654 02 - Rain 366161.0625 5030465 -75.71605682 45.41143036 01 - Clear	01 - Daylight 01 - Daylight	02 - Wet 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	05 - Turning movement 04 - Sideswipe	0 8761 0 8950
Y	2016 2016/05/13 04:00:00+00 1900/01/01 02:33:00+00 16-4717	ALBERT ST btwn CITY CENTRE AVE & PRESTON ST	366116.4063 5030437.5 -75.71663666 45.41119003 01 - Clear	07 - Dark	01 - Dry	10 - No control	02 - Non-fatal injury	05 - Turning movement	0 4262
Y	2016 2016/08/05 04:00:00+00 1899/12/31 16:40:00+00 16:7318	ALBERT ST htmp PERKINS ST & TRANSIT	366556 4063 5030707 5 -75 71097565 45 41357803 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry	10 - No control 10 - No control	03 - P.D. only	04 - Sideswipe	0 7200 0 6709
Y	2016 2016/07/21 04:00:00+00 1899/12/31 12:05:00+00 16:6864 2016 2016/10/21 04:00:00+00 1899/12/31 16:49:00+00 16:9657	ALBERT ST btwn SCOTT ST & CITY CENTRE AVE (2) ALBERT ST btwn SCOTT ST & CITY CENTRE AVE (2)	365873.8125 5030307.5 -75.71974945 45.41003799 01 - Clear 365944.5938 5030340 -75.71884155 45.4103241 02 - Rain	01 - Daylight 01 - Daylight	01 - Dry 02 - Wet	10 - No control 10 - No control	03 - P.D. only 02 - Non-fatal injury	04 - Sideswipe 01 - Approaching	0 6709 0 9460
Y	2016 2016/02/10 05:00:00+00 1899/12/31 13:11:00+00 16-1493	BAYVIEW RD @ SCOTT ST/ALBERT ST	365518.8438 5030072 -75.72431183 45.40794754 03 - Snow	01 - Daylight	04 - Slush	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	05 - Turning movement	0 1893
Y	2016 2016/03/02 05:00:00+00 1899/12/31 23:24:00+00 16-2609 2016 2016/06/16 04:00:00+00 1899/12/31 13:38:00+00 16-5760	BAYVIEW RD @ SCOTT ST/ALBERT ST BAYVIEW RD @ SCOTT ST/ALBERT ST	365520.5313 5030072 -75.72428894 45.40795135 01 - Clear 365519.0313 5030071 5 -75.72431183 45.40794754 01 - Clear	05 - Dusk 01 - Daylight	02 - Wet 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 02 - Non-fatal injury	07 - SMV other	1 2234 0 5868
Y	2016 2016/08/18 04:00:00+00 1899/12/31 13:38:00+00 16-5760 2016 2016/08/18 04:00:00+00 1899/12/31 12:50:00+00 16-7677	BAYVIEW RD @ SCOTT ST/ALBERT ST BAYVIEW RD @ SCOTT ST/ALBERT ST	365518.125 5030072 -75.7243183 45.40794754 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement 04 - Sideswipe	0 7389
Υ	2016 2016/08/02 04:00:00+00 1900/01/01 00:13:00+00 16-7236	BAYVIEW RD @ SCOTT ST/ALBERT ST	365519.1563 5030071.5 -75.72431183 45.40794754 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	05 - Turning movement	0 7588
Y	2016 2016/09/15 04:00:00+00 1899/12/31 18:14:00+00 16:8487 2016 2016/12/15 05:00:00+00 1899/12/31 22:07:00+00 16:11845	BAYVIEW RD @ SCOTT ST/ALBERT ST BAYVIEW RD @ SCOTT ST/ALBERT ST	365518.8125 5030072 -75.72431183 45.40794754 01 - Clear 365518.8125 5030071.5 -75.72431183 45.40794373 01 - Clear	01 - Daylight 07 - Dark	01 - Dry 03 - Loose snow	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	05 - Turning movement 05 - Turning movement	0 8977 0 11466
Y	2016 2016/12/20 05:00:00+00 1899/12/31 14:07:00+00 16:12093	BAYVIEW RD @ SCOTT ST/ALBERT ST	365519.875 5030071 -75.72429657 45.40794373 01 - Clear	01 - Daylight	04 - Slush	01 - Traffic signal 01 - Functioning	03 - P.D. only	02 - Angle	0 12809
Y	2016 2016/04/04 04:00:00+00 1899/12/31 14:18:00+00 16:3501 2016 2016/07/07 04:00:00+00 1899/12/31 20:05:00+00 16:6477	BOOTH ST @ 148 N OF MIDDLE ST/E.B.EDDY S	366034.5 5031417 -75.71755981 45.4200058 01 - Clear 366010.4063 5031471.5 -75.71785736 45.42050171 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 3915
Y	2016 2016/07/07 04:00:00+00 1899/12/31 20:05:00+00 16-6477 2016 2016/09/15 04:00:00+00 1899/12/31 14:10:00+00 16-8481	BOOTH ST @ 208 N OF MIDDLE ST/E.B. EDDY N BOOTH ST @ FLEET ST	366010.4063 5031471.5 -75.71785736 45.42050171 01 - Clear 366296.4688 5030935 -75.71427155 45.41564941 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 02 - Stop sign 01 - Functioning	03 - P.D. only 03 - P.D. only	04 - Sideswipe 05 - Turning movement	0 6532 0 8971
Y	2016 2016/04/07 04:00:00+00 1899/12/31 18:44:00+00 16:3669	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366265.375 5031006.5 -75.71466064 45.4162941 03 - Snow	01 - Daylight	03 - Loose snow	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 3182
Y	2016 2016/03/25 04:00:00+00 1900/01/01 03:21:00+00 16:3288 2016 2016/05/13 04:00:00+00 1899/12/31 23:03:00+00 16:4706	BOOTH ST ⊕ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST ⊕ OTTAWA RIVER PKWY/WELLINGTON ST	366262.8438 5031006 -75.71469116 45.41629028 01 - Clear 366264.5 5031007.5 -75.71466827 45.41630173 01 - Clear	07 - Dark 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	0 3805 0 4127
Y	2016 2016/05/13 04:00:00+00 1899/12/31 23:03:00+00 16-4706 2016 2016/06/24 04:00:00+00 1899/12/31 18:42:00+00 16-6061	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.1875 5031007 -75.7146759 45.41630173 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 6412
Υ	2016 2016/09/04 04:00:00+00 1899/12/31 18:30:00+00 16:8170	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.8125 5031007 -75.71466827 45.41629791 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 8183
Y	2016 2016/10/03 04:00:00+00 1899/12/31 17:15:00+00 16:9042 2016 2016/12/06 05:00:00+00 1899/12/31 13:45:00+00 16:11362	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.4375 5031008 -75.71466827 45.41630554 01 - Clear 366264.0313 5031006 -75.7146759 45.41679028 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 02 - Wet	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	02 - Angle 04 - Sideswine	0 9239
Y	2016 2016/01/15 05:00:00+00 1899/12/31 23:43:00+00 16-12663	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.9375 5031005 -75.7146759 45.41628265 01 - Clear	07 - Dark	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 12047
Y	2016 2016/09/04 04:00:00+00 1899/12/31 18:30:00+00 16:12537 2016 2016/08/19 04:00:00+00 1899/12/31 22:11:00+00 16:12550	BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.7188 5031008 -75.71468353 45.41630554 01 - Clear 366264.4063 5031007 -75.7146759 45.41629791 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	02 - Non-fatal injury 03 - P.D. only	03 - Rear end 03 - Rear end	0 12651 0 12664
Y	2016 2016/08/19 04:00:00+00 1899/12/31 22:11:00+00 16-12:50 2016 2016/01/19 05:00:00+00 1899/12/31 13:05:00+00 16-754	BOOTH ST (# OTTAWA RIVER PRWY/WELLINGTON ST BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV	366129.8438 5031271.5 -75.716362 45.41868973 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 02 - Wet	10 - No control	03 - P.D. only	07 - SMV other	0 12664
Υ	2016 2016/02/15 04:00:00±00 1999/12/21 20:10:00±00 16:2091	BOOTH ST bown MIDDLE ST & VIMY PLACE PRIV	366228.7813 5031102 -75.71511841 45.41715622 02 - Rain 366267.5 5030999 -75.71463013 45.41622925 01 - Clear	01 - Daylight 01 - Daylight	02 - Wet	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	03 - Rear end	0 2990 0 5872
Y	2016 2016/06/16 04:00:00+00 1899/12/31 16:45:00+00 16:5764 2016 2016/08/22 04:00:00+00 1899/12/31 20:37:00+00 16:7790	BOOTH ST btwn OTTAWA RIVER PKWY & FLEET ST BOOTH ST btwn PROVINCIAL BOUNDARY & 208 N OF MIDDLE ST/E.B. EDDY N	366267.5 5030999 -75.71463013 45.41622925 01 - Clear 365990.5 5031513.5 -75.71810913 45.42087936 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	10 - No control 10 - No control	03 - P.D. only 02 - Non-fatal injury	03 - Rear end 05 - Turning movement	0 5872 0 7083
Y	2016 2016/11/04 04:00:00+00 1899/12/31 11:22:00+00 16:10138	BOOTH ST btwn PROVINCIAL BOUNDARY & 208 N OF MIDDLE ST/E,B, EDDY N	366006.6563 5031480 -75.71790314 45.420578 01 - Clear	07 - Dark	01 - Dry	10 - No control	03 - P.D. only	04 - Sideswipe	0 10777
Y	2016 2016/12/24 05:00:00+00 1899/12/31 12:03:00+00 16:12594 2016 2016/02/01 05:00:00+00 1899/12/31 18:35:00+00 16:1238	BOOTH ST btwn PROVINCIAL BOUNDARY & 208 N OF MIDDLE ST/E.B. EDDY N BRONSON AVE & COMMISSIONER ST/S) ATER ST	365983.9375 5031527.5 -75.71819305 45.42100906 03 - Snow 366768.9375 5030949 -75.70823669 45.41572952 01 - Clear	07 - Dark 01 - Daylight	02 - Wet	10 - No control 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	07 - SMV other	0 12709 0 1447
Y	2016 2016/02/21 05:00:00+00 1899/12/31 18:35:00+00 16-1238 2016 2016/02/22 05:00:00+00 1899/12/31 13:02:00+00 16-2185	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.8125 5030949 -75.70823669 45.41572952 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only	02 - Angle 04 - Sideswipe	0 1447
Υ	2016 2016/04/12 04:00:00+00 1899/12/31 15:16:00+00 16:3804	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366768.4063 5030949 -75.70824432 45.41572952 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 3450
Y	2016 2016/05/23 04:00:00+00 1899/12/31 20:22:00+00 16-4988 2016 2016/05/26 04:00:00+00 1899/12/31 19:39:00+00 16-5105	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366767.7813 5030949.5 -75.70825195 45.41573334 01 - Clear 366768.5 5030949 -75.70823669 45.41573334 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 02 - Non-fatal injury	05 - Turning movement 05 - Turning movement	0 4910 0 5292
Ÿ	2016 2016/06/05 04:00:00+00 1899/12/31 21:22:00+00 16-5456	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.0938 5030948 -75.70822906 45.41572189 01 - Clear	01 - Daylight	02 - Wet	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 5705
Y	2016 2016/06/07 04:00:00+00 1899/12/31 21:16:00+00 16:5504 2016 2016/06/16 04:00:00+00 1899/12/31 18:20:00+00 16:5769	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.0938 5030948.5 -75.70822906 45.41572952 01 - Clear 366768.3125 5030948 -75.70824432 45.41572189 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	02 - Angle 05 - Turning movement	0 5752 0 5877
Y	2016 2016/07/22 04:00:00+00 1899/12/31 17:31:00+00 16-6911	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.3438 5030949.5 -75.70822906 45.41573334 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 6225
Υ	2016 2016/07/20 04:00:00+00 1899/12/31 19:29:00+00 16-6847	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.3438 5030948 -75.70822906 45.41572571 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	02 - Angle	0 6692
Y	2016 2016/09/18 04:00:00+00 1899/12/31 16:44:00+00 16:8587 2016 2016/09/15 04:00:00+00 1899/12/31 23:50:00+00 16:8503	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366767.5938 5030948 -75.70825195 45.41572189 01 - Clear 366767.5938 5030949 -75.70825195 45.41572952 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	05 - Turning movement 04 - Sideswipe	0 8400 0 8993
Y	2016 2016/10/11 04:00:00+00 1899/12/31 15:07:00+00 16-9280	BRONSON AVE @ COMMISSIONER ST/SLATER ST	366770.125 5030948.5 -75.70822144 45.41572571 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	05 - Turning movement	0 9779
Y	2016 2016/10/06 04:00:00+00 1899/12/31 19:01:00+00 16:9164 2016 2016/11/21 05:00:00+00 1900/01/01 03:01:00+00 16:10795	BRONSON AVE @ COMMISSIONER ST/SLATER ST BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.375 5030949 -75.70822906 45.41572952 01 - Clear 366769.4063 5030947.5 -75.70822906 45.41571808 03 - Snow	01 - Daylight 07 - Dark	01 - Dry 03 - Loose snow	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	05 - Turning movement 07 - SMV other	0 9953 0 10752
Y	2016 2016/01/04 05:00:00+00 1900/01/01 00:48:00+00 16-96	OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366516.75 5031315 -75.71141052 45.41904831 03 - Snow	07 - Dark	03 - Loose snow	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 96
Y	2016 2016/07/09 04:00:00+00 1899/12/31 22:39:00+00 16:6536 2016 2016/08/25 04:00:00+00 1899/12/31 17:10:00+00 16:12568	OTTAWA RIVER PKWY @ PORTAGE BRIDGE OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366515.7188 5031314.5 -75.71142578 45.41904449 02 - Rain 366516.2188 5031314.5 -75.71141815 45.41904449 01 - Clear	01 - Daylight	02 - Wet	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 6929
Y	2016 2016/08/25 04:00:00+00 1899/12/31 17:10:00+00 16-12568 2016 2016/12/29 05:00:00+00 1899/12/31 18:32:00+00 16-12729	OTTAWA RIVER PKWY @ PORTAGE BRIDGE OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST	36515.2188 5031314.5 -/5.71141815 45.41904449 01 - Clear 365159.2188 5030375.5 -75.72886658 45.4107132 03 - Snow	01 - Daylight 01 - Daylight	01 - Dry 03 - Loose snow	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 01 - Fatal injury	04 - Sideswipe 03 - Rear end	0 12683 0 12114
Υ	2016 2016/07/17 04:00:00+00 1899/12/31 19:55:00+00 16-12578	OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST	365153.4688 5030375 -75.72894287 45.41070938 01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal 01 - Functioning	02 - Non-fatal injury	02 - Angle	0 12693
Y	2016 2016/10/30 04:00:00+00 1899/12/31 21:00:00+00 16-12602 2016 2016/06/25 04:00:00+00 1899/12/31 15:56:00+00 16-6090	OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365156.9063 5030377.5 -75.72889709 45.41073227 01 - Clear 365975.2188 5030800 -75.71839142 45.41445923 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	02 - Angle 03 - Rear end	0 12717 0 6442
Y	2016 2016/09/01 04:00:00+00 1899/12/31 10:36:00+00 16:8059	OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365973.8125 5030797.5 -75.71841431 45.41443634 01 - Clear	07 - Dark	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	04 - Sideswipe	0 8568
Y	2016 2016/01/13 05:00:00+00 1899/12/31 21:09:00+00 16-12656 2016 2016/12/31 05:00:00+00 1899/12/31 18:50:00+00 16-12470	OTTAWA RIVER PKWY @ VIMY PLACE PRIV OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365975.9063 5030797.5 -75.71838379 45.41444016 01 - Clear 365975.1875 5030798 -75.71839142 45.41444397 03 - Snow	01 - Daylight	02 - Wet	01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	03 - Rear end	0 12041 0 12956
Y	2016 2016/12/31 05:00:00+00 1899/12/31 18:50:00+00 16-124/0 2016 2016/03/02 05:00:00+00 1899/12/31 16:05:00+00 16-12683	OTTAWA RIVER PRWY (I) VIMY PLACE PRIV OTTAWA RIVER PRWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV	36575.1875 5030/98 -75.71839142 45.41444397 03 - Snow 365723.8438 5030498.5 -75.72164154 45.41176987 03 - Snow	01 - Daylight 01 - Daylight	03 - Loose snow 06 - Ice	01 - Traffic signal 01 - Functioning 10 - No control	03 - P.D. only	05 - Turning movement 07 - SMV other	0 12956
Υ	2016 2016/04/20 04:00:00+00 1899/12/31 21:17:00+00 16-12714	OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV	365949.8438 5030780 -75.71871948 45.41428375 01 - Clear	01 - Daylight	01 - Dry	10 - No control	02 - Non-fatal injury	07 - SMV other	0 12097
Y	2016 2016/09/26 04:00:00+00 1899/12/31 22:10:00+00 16:12512 2016 2016/06/13 04:00:00+00 1899/12/31 20:20:00+00 16:5683	OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST	365934.4063 5030778.5 -75.71891785 45.41426849 01 - Clear 366250.2813 5030996 -75.71485138 45.41620255 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	0 12998 0 5417
Y	2016 2016/07/13 04:00:00+00 1899/12/31 20:00:00+00 16-6640	OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST	366260.1875 5031004 -75.71472931 45.41627502 01 - Clear	01 - Daylight	01 - Dry	10 - No control	02 - Non-fatal injury	03 - Rear end	0 6270
Y	2016 2016/04/27 04:00:00+00 1899/12/31 08:20:00+00 16:12754	OTTAWA RIVER PKWY WB btwn RAMP & RIVER ST	365064.125 5030356 -75.73008728 45.41054916 01 - Clear	07 - Dark	01 - Dry	10 - No control	03 - P.D. only	07 - SMV other	0 12139
Y Y	2016 2016/07/06 04:00:00+00 1899/12/31 21:03:00+00 16:6444 2016 2016/07/23 04:00:00+00 1899/12/31 15:33:00+00 16:6942	PARKDALE AVE @ SCOTT ST PARKDALE AVE @ SCOTT ST	364949.3125 5029726.5 -75.73162842 45.40489197 01 - Clear 364949.3125 5029726 -75.73162842 45.40488434 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	07 - SMV other 05 - Turning movement	0 6498 0 6573
Υ	2016 2016/11/14 05:00:00+00 1899/12/31 22:31:00+00 16-10483	PARKDALE AVE @ SCOTT ST	364951.375 5029726 -75.73160553 45.40488815 01 - Clear	07 - Dark	01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only	03 - Rear end	0 10523
Y	2016 2016/12/06 05:00:00+00 1899/12/31 23:22:00+00 16:11387 2016 2016/03/16 04:00:00+00 1899/12/31 15:00:00+00 16:3007	PARKDALE AVE @ SCOTT ST PARKDALE AVE btwn BURNSIDE AVE & LYNDALE AVE	364948.5938 5029726.5 -75.73163605 45.40489197 01 - Clear 364825 1875 5030016.5 -75.73317719 45.60750885 01 - Clear	07 - Dark 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 10 - No control	02 - Non-fatal injury 03 - P.D. only	05 - Turning movement 02 - Angle	0 11601 0 3321
Y	2016 2016/04/14 04:00:00+00 1899/12/31 13:34:00+00 16:3855	PARKDALE AVE bown LYNDALE AVE & SCOTT ST	364918.5 5029798.5 -75.73201752 45.40554428 01 - Clear	01 - Daylight	01 - Dry	10 - No control	03 - P.D. only	02 - Angle	0 3582
Y	2016 2016/06/22 04:00:00+00 1899/12/31 23:37:00+00 16:6008 2016 2016/12/06 05:00:00+00 1899/12/31 13:19:00+00 16:11360	PARKDALE AVE blwn LYNDALE AVE & SCOTT ST PARKDALE AVE blwn LYNDALE AVE & SCOTT ST	364928.7188 5029773.5 -75.73188782 45.40531921 01 - Clear 364936.1563 5029753 -75.73179626 45.40513229 01 - Clear	01 - Daylight	01 - Dry	10 - No control	03 - P.D. only	02 - Angle	0 6143
Y	2016 2016/12/06 05:00:00+00 1899/12/31 13:19:00+00 16:11360 2016 2016/06/14 04:00:00+00 1899/12/31 21:36:00+00 16:5712	PARKDALE AVE btwn LYNDALE AVE & SCOTT ST PARKDALE AVE btwn TO BE DETERMINED & EMMERSON AVE	364936.1563 5029753 -75.73179626 45.40513229 01 - Clear 364706.875 5030289 -75.73465729 45.40997314 01 - Clear	01 - Daylight 01 - Daylight	02 - Wet 01 - Dry	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	02 - Angle 03 - Rear end	0 11574 0 5352
Υ	2016 2016/06/01 04:00:00+00 1899/12/31 19:45:00+00 16:5357	PARKDALE AVE btwn TO BE DETERMINED & EMMERSON AVE	364706.5313 5030288 -75.73466492 45.40996552 01 - Clear	01 - Daylight	01 - Dry	10 - No control	03 - P.D. only	06 - SMV unattended vehicle	e 0 5781
Y	2016 2016/07/30 04:00:00+00 1899/12/31 15:10:00+00 16:12730 2016 2016/01/04 05:00:00+00 1899/12/31 16:00:00+00 16:12658	PARKDALE AVE EB OFF RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PA PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PA	364585.125 5030405.5 -75.73619843 45.41103363 01 - Clear 364830.9375 5030402.5 -75.73306274 45.41098404 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	10 - No control 10 - No control	03 - P.D. only 03 - P.D. only	03 - Rear end 07 - SMV other	0 12115 0 12042
Y	2016 2016/06/06 04:00:00+00 1899/12/31 12:20:00+00 16-12726	PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PA	364818.4375 5030412 -75.73321533 45.41107178 01 - Clear	01 - Daylight	01 - Dry	10 - No control	03 - P.D. only	04 - Sideswipe	0 12111
Y	2016 2016/12/09 05:00:00+00 1899/12/31 13:30:00+00 16:12589 2016 2016/05/20 04:00:00+00 1899/12/31 22:05:00+00 16:4215	PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PA	364688.3438 5030584 -75.73485565 45.41262817 01 - Clear 366737 6875 5030913 -75.70864105 45.41540909 01 - Clear	01 - Daylight	06 - Ice	10 - No control	03 - P.D. only	03 - Rear end 04 - Sideswine	0 12704 0 4358
Y	2016 2016/04/04 04:00:00+00 1899/12/31 17:24:00+00 16:3505	SLATER ST blwn ALBERT ST & COMMISSIONER ST WELLINGTON ST @ LETT ST	366354.5 5031111 -75.71350861 45.41722488 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	0 3114
Y	2016 2016/04/06 04:00:00+00 1899/12/31 22:37:00+00 16:3595	WELLINGTON ST @ LETT ST	366355.6563 5031111 -75.71349335 45.4172287 03 - Snow	01 - Daylight	04 - Slush	01 - Traffic signal 01 - Functioning	03 - P.D. only	02 - Angle	0 3725
Y Y	2016 2016/08/10 04:00:00+00 1899/12/31 12:41:00+00 16-7423 2016 2016/09/19 04:00:00+00 1899/12/31 20:51:00+00 16-8627	WELLINGTON ST @ LETT ST WELLINGTON ST @ LETT ST	366354.8125 5031111 -75.71350098 45.41722488 01 - Clear 366355.2188 5031111.5 -75.71350098 45.41723251 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry 01 - Dry	01 - Traffic signal 01 - Functioning 01 - Traffic signal 01 - Functioning	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	0 7199 0 8017
Y	2016 2016/06/13 04:00:00+00 1899/12/31 20:00:00+00 16-5680	WELLINGTON ST btwn OTTAWA RIVER PKWY & TO BE DETERMINED	366275.3438 5031015 -75.71453094 45.41637039 01 - Clear	01 - Daylight	01 - Dry	10 - No control	03 - P.D. only	04 - Sideswipe	0 5414

Study A	rea Year R	ecord Location	х ү	Longitude	Latitude	Date T	ime Environment	Road Surface	Traffic Control	Collision Location	Light	Collision Classification	Impact type	FID
Y	2017	150 ALBERT ST @ BOOTH ST	366428.3438 5030626	-75.7126236	45.41285706	1.49638E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only	07 - SMV other	51
Y	2017	151 ALBERT ST @ BOOTH ST	366429.0313 5030626.5				-2.20902E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related		03 - P.D. only	04 - Sideswipe	52
Y	2017 2017	152 ALBERT ST @ BOOTH ST 153 ALBERT ST @ BOOTH ST	366427.6875 5030626 366429.1563 5030625.5			1.49975E+12 1.50381E+12	-2.209E+12 01 - Clear -2.20897E+12 01 - Clear	02 - Wet 01 - Dry	01 - Traffic signal 01 - Traffic signal	03 - At intersection 03 - At intersection	01 - Daylight 07 - Dark	02 - Non-fatal injury 03 - P.D. only	05 - Turning movement 05 - Turning movement	53 54
Y	2017	154 ALBERT ST @ BOOTH ST	366430.375 5030626.5				-2.20897E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	07 - Dark	03 - P.D. only	05 - Turning movement	55
Y	2017	155 ALBERT ST @ BOOTH ST	366427.7813 5030627				-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	56
Y	2017	156 ALBERT ST @ BOOTH ST	366429.625 5030627.5 366429.6875 5030626.5	-75.71260834	45.4128685	1.50536E+12 1.50942E+12	-2.20903E+12 01 - Clear -2.209E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 01 - Traffic signal	03 - At intersection 02 - Intersection related	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	02 - Angle 04 - Sideswipe	57
Y	2017	158 ALBERT ST @ BOOTH ST	366428.6875 5030627				-2.209E+12 01 - Clear -2.20902E+12 03 - Snow	05 - Packed snow	01 - Traffic signal	02 - Intersection related	01 - Daylight 01 - Daylight	03 - P.D. only	03 - Rear end	58 59
Y	2017	159 ALBERT ST @ BOOTH ST	366427.6875 5030628	-75.71263123	45.41287231	1.51089E+12	-2.20898E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	07 - Dark	03 - P.D. only	03 - Rear end	60
Y	2017	160 ALBERT ST @ BOOTH ST	366429.1563 5030625.5			1.51262E+12	-2.20898E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	07 - Dark	02 - Non-fatal injury	05 - Turning movement	61
Y	2017	161 ALBERT ST @ BOOTH ST 162 ALBERT ST @ BOOTH ST	366429.4375 5030627.5 366428.6875 5030626.5			1.4861E+12	-2.209E+12 01 - Clear -2.20902E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 03 - At intersection	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	62 63
Ÿ	2017	163 ALBERT ST @ BOOTH ST	366429.4375 5030625.5	-75.71260834	45.41284943		-2.20902E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	64
Y	2017	164 ALBERT ST @ BOOTH ST	366427.6875 5030627				-2.20902E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	65
Y	2017 2017	165 ALBERT ST @ BOOTH ST 166 ALBERT ST @ BOOTH ST	366428.3438 5030628 366429.4375 5030627.5	-75.7126236		1.48946E+12	-2.20901E+12 03 - Snow -2.20901E+12 01 - Clear	03 - Loose snow	01 - Traffic signal 01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only 03 - P.D. only	05 - Turning movement 03 - Rear end	66 67
Y	2017	167 ALBERT ST @ BOOTH ST	366429.4375 5030627.5 366429.1563 5030626				-2.20901E+12 01 - Clear -2.20901E+12 03 - Snow	01 - Dry 03 - Loose snow	01 - Traffic signal	02 - Intersection related 03 - At intersection	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	03 - Rear end	68
Y	2017	169 ALBERT ST @ BRONSON AVE		-75.70859528			-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related		03 - P.D. only	05 - Turning movement	70 71
Y	2017	170 ALBERT ST @ COMMISSIONER ST		-75.70893097			-2.209E+12 01 - Clear	01 - Dry	02 - Stop sign	03 - At intersection		02 - Non-fatal injury	05 - Turning movement	71
Y	2017 2017	171 ALBERT ST @ COMMISSIONER ST 172 ALBERT ST @ COMMISSIONER ST		-75.70892334 -75.70893097			-2.20901E+12 01 - Clear -2.20902E+12 01 - Clear	01 - Dry 01 - Dry	02 - Stop sign 02 - Stop sign	03 - At intersection 02 - Intersection related		03 - P.D. only 03 - P.D. only	04 - Sideswipe 02 - Angle	72 73
Y	2017	173 ALBERT ST @ COMMISSIONER ST	366714.6563 5030973	-75.70892334	45.41595078	1.51401E+12	-2.20901E+12 03 - Snow	03 - Loose snow	02 - Stop sign	03 - At intersection	01 - Daylight	03 - P.D. only	04 - Sideswipe	74
Y	2017	185 ALBERT ST @ EMPRESS AVE	366576.6875 5030720.5			1.50579E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	04 - Sideswipe	86
Y	2017 2017	186 ALBERT ST @ EMPRESS AVE 187 ALBERT ST @ EMPRESS AVE	366577.1875 5030720.5 366577.4375 5030721				-2.20901E+12 01 - Clear -2.20901E+12 02 - Rain	01 - Dry 02 - Wet	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 02 - Intersection related		03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	87 88
Ý	2017	188 ALBERT ST @ EMPRESS AVE		-75.71070802			-2.20902E+12 02 - Kalli -2.20902E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only	04 - Sideswipe	89
Y	2017	205 ALBERT ST @ PERKINS ST	366534.0313 5030697	-75.71126556	45.41348648		-2.20902E+12 01 - Clear	01 - Dry	02 - Stop sign	03 - At intersection	01 - Daylight	03 - P.D. only	07 - SMV other	205
Y	2017	206 ALBERT ST @ PRESTON ST 207 ALBERT ST @ PRESTON ST	366160.2188 5030466 366161.0313 5030466	-75.71607208 -75.71605682	45.41143799		-2.20899E+12 01 - Clear -2.209E+12 02 - Rain	01 - Dry 02 - Wet	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 02 - Intersection related	01 - Daylight	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	206 207
Y	2017	207 ALBERT ST @ PRESTON ST 208 ALBERT ST @ PRESTON ST		-75.71605682			-2.209E+12 02 - Rain -2.20897E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight 07 - Dark	03 - P.D. only	03 - Rear end	207
Y	2017	209 ALBERT ST @ PRESTON ST	366159.375 5030466	-75.71607971	45.4114418	1.50666E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	02 - Non-fatal injury	03 - Rear end	209
Y	2017	210 ALBERT ST @ PRESTON ST	366162.4063 5030466.5				-2.20898E+12 03 - Snow	03 - Loose snow	01 - Traffic signal	02 - Intersection related	07 - Dark	03 - P.D. only	03 - Rear end	210
Y	2017 2017	211 ALBERT ST @ PRESTON ST 219 ALBERT ST btwn CITY CENTRE AVE & PRESTON ST		-75.71605682 -75.71642303			-2.20899E+12 01 - Clear -2.20901E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 10 - No control	02 - Intersection related 01 - Non intersection	01 - Daylight 01 - Daylight	02 - Non-fatal injury 03 - P.D. only	03 - Rear end 04 - Sideswipe	211 219
Y	2017	222 ALBERT ST btwn LORNE AVE & PERKINS ST	366519.3438 5030687	-75.7114563	45.41339493	1.48765E+12	-2.20899E+12 02 - Rain	02 - Wet	10 - No control	01 - Non intersection	05 - Dusk	03 - P.D. only	04 - Sideswipe	222
Y	2017	226 ALBERT ST btwn PRESTON ST & Continuation of ALBERT ST	366252.4375 5030526				-2.209E+12 01 - Clear	01 - Dry	10 - No control	01 - Non intersection		02 - Non-fatal injury	07 - SMV other	226
Y	2017 2017	227 ALBERT ST btwn SCOTT ST & CITY CENTRE AVE (1) 228 ALBERT ST btwn SCOTT ST & CITY CENTRE AVE (1)	365728.5625 5030212.5 365654.5313 5030150.5				-2.20903E+12 01 - Clear -2.20902E+12 05 - Drifting Snow	01 - Dry 03 - Loose snow	10 - No control 10 - No control	01 - Non intersection 01 - Non intersection	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	227 228
Ý	2017	1567 BAYVIEW RD @ SCOTT ST/ALBERT ST	365520.25 5030070.5				-2.20899E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	1795
Y	2017	1568 BAYVIEW RD @ SCOTT ST/ALBERT ST	365519.9688 5030071.5	-75.72429657	45.40794373		-2.20898E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	07 - Dark	03 - P.D. only	02 - Angle	1796
Y		1569 BAYVIEW RD @ SCOTT ST/ALBERT ST 1570 RAYVIEW RD @ SCOTT ST/ALBERT ST	365520.4688 5030072 365520.0625 5030071.5				-2.20901E+12 01 - Clear -2.20899E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 01 - Traffic signal	03 - At intersection	01 - Daylight 07 - Dark	02 - Non-fatal injury 02 - Non-fatal injury	05 - Turning movement 05 - Turning movement	1797
Ϋ́Υ		15/0 BAYVIEW RD @ SCOTT ST/ALBERT ST	365518.5625 5030071.5			1.49007E+12 1.51392E+12	-2.20899E+12 01 - Clear -2.209E+12 01 - Clear	03 - Loose snow	01 - Traffic signal	03 - At intersection	07 - Dark 01 - Daylight	02 - Non-tatal injury 03 - P.D. only	05 - Turning movement 05 - Turning movement	1798 1799
Y	2017	2052 BOOTH ST @ MIDDLE ST	366114.375 5031294	-75.71655273	45.41889191	1.49914E+12	-2.20902E+12 01 - Clear	01 - Dry	02 - Stop sign	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	2854
Y	2017	2053 BOOTH ST @ MIDDLE ST	366115.3125 5031291.5			1.51323E+12	-2.20899E+12 03 - Snow	04 - Slush	02 - Stop sign	03 - At intersection	07 - Dark	03 - P.D. only	05 - Turning movement	2855
v	2017	2054 BOOTH ST @ MIDDLE ST 2059 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366115.5313 5031291.5 366264.5938 5031007.5	-75.71653748 -75.71466827	45.41887283 45.41630173	1.50994E+12 1.49776F±12	-2.209E+12 01 - Clear -2.20901E+12 01 - Clear	01 - Dry 01 - Dry	02 - Stop sign 01 - Traffic signal	02 - Intersection related 02 - Intersection related	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	2856
Ÿ	2017	2060 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.5625 5031005.5	-75.71466827	45.41628265	1.4937E+12	-2.209E+12 02 - Rain	02 - Wet	01 - Traffic signal	03 - At intersection	01 - Daylight	02 - Non-fatal injury	05 - Turning movement	2861 2862
Y		2061 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366265.5313 5031005.5			1.49914E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related		03 - P.D. only	04 - Sideswipe	2863
Y	2017 2017	2062 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST 2063 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.7813 5031006.5 366263.7813 5031006				-2.20899E+12 01 - Clear -2.20901E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 03 - At intersection	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	03 - Rear end 05 - Turning movement	2864 2865
Ÿ		2064 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366265.25 5031005.5				-2.20899E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	2866
Y	2017	2065 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366263.9375 5031005.5	-75.7146759	45.41628265	1.50864E+12	-2.20903E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only	07 - SMV other	2867
Y	2017 2017	2066 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST 2067 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.5938 5031007.5 366263.25 5031008				-2.209E+12 01 - Clear -2.20902E+12 03 - Snow	01 - Dry 02 - Wet	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 03 - At intersection	05 - Dusk 01 - Daylight	03 - P.D. only 02 - Non-fatal injury	03 - Rear end 02 - Angle	2868 2869
Y	2017	2068 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.5938 5031007.5			1.51107E+12	-2.20902E+12 03 - Show -2.20902E+12 01 - Clear	02 - Wet 01 - Dry	01 - Traffic signal	03 - At Intersection		02 - Non-ratar injury 03 - P.D. only	02 - Angle 02 - Angle	2870
Y	2017	2069 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366262.5938 5031008	-75.71469879	45.41630936	1.51141E+12	-2.20899E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	07 - Dark	03 - P.D. only	05 - Turning movement	2871
Y		2070 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST 2071 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.7188 5031006.5 366264.3438 5031007.5				-2.20902E+12 01 - Clear -2.20899E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal	02 - Intersection related 03 - At intersection	01 - Daylight 07 - Dark	03 - P.D. only 03 - P.D. only	03 - Rear end	2872 2873
Y		2071 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.3438 5031007.5 366264.0313 5031006				-2.20899E+12 01 - Clear -2.20899E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 01 - Traffic signal	03 - At intersection 03 - At intersection	07 - Dark 05 - Dusk	03 - P.D. only 03 - P.D. only	02 - Angle 04 - Sideswipe	2873
Y		2073 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366262.5625 5031006.5	-75.71469879	45.41629791	1.48757E+12	-2.20903E+12 01 - Clear	02 - Wet	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	04 - Sideswipe	2875
Y	2017	2074 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST	366264.6563 5031008.5				-2.20902E+12 03 - Snow	05 - Packed snow	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	04 - Sideswipe	2876
v		2075 BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST 2097 BOOTH ST btwn 148 N OF MIDDLE ST/E.B. EDDY S & MIDDLE ST	366264.25 5031006.5 366054.2813 5031376				-2.209E+12 01 - Clear -2.2089F+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 10 - No control	02 - Intersection related 01 - Non intersection	01 - Daylight 07 - Dark	03 - P.D. only 03 - P.D. only	03 - Rear end 07 - SMV other	2877 2899
Y	2017	2101 BOOTH ST btwn FLEET ST & END	366345.75 5030822.5				-2.20899E+12 01 - Clear	01 - Dry	10 - No control	01 - Non intersection	07 - Dark	03 - P.D. only	04 - Sideswipe	2019
Y	2017	2104 BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV	366223.7813 5031111				-2.20899E+12 01 - Clear	01 - Dry	10 - No control	01 - Non intersection		03 - P.D. only	03 - Rear end	2120
Y	2017 2017	2105 BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV 2106 BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV		-75.71620941 -75.71556091		1.51288E+12	-2.20906E+12 03 - Snow -2.20903E+12 02 - Rain	05 - Packed snow 02 - Wet	10 - No control 10 - No control	01 - Non intersection 04 - At/near private drive	07 - Dark 01 - Daylight	02 - Non-fatal injury 03 - P.D. only	01 - Approaching 02 - Angle	2124 2128
Ý		2107 BOOTH ST btwn PROVINCIAL BOUNDARY & 208 N OF MIDDLE ST/E.B. EDDY N		-75.71799469		1.48368E+12	-2.20901E+12 03 - Snow	06 - Ice	10 - No control	01 - Non intersection	01 - Daylight	03 - P.D. only	03 - Rear end	2132
Y		2108 BOOTH ST btwn PROVINCIAL BOUNDARY & 208 N OF MIDDLE ST/E.B. EDDY N	365991.8125 5031515				-2.20905E+12 02 - Rain	02 - Wet	10 - No control	07 - Overpass or bridge	07 - Dark	03 - P.D. only	07 - SMV other	2133
Y		2349 BRONSON AVE @ COMMISSIONER ST/SLATER ST 2350 BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.25 5030948.5 366767.6875 5030950	-75.70822906 -75.70825195			-2.20903E+12 01 - Clear -2.20898E+12 01 - Clear	01 - Dry 02 - Wet	01 - Traffic signal 01 - Traffic signal	03 - At intersection 02 - Intersection related	01 - Daylight 07 - Dark	03 - P.D. only 03 - P.D. only	01 - Approaching 05 - Turning movement	2493 2494
Ý	2017	2351 BRONSON AVE @ COMMISSIONER ST/SLATER ST	366768.9375 5030948.5	-75.70823669	45.41572571	1.50623E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	04 - Sideswipe	2495
Y	2017	2352 BRONSON AVE @ COMMISSIONER ST/SLATER ST	366768.7188 5030949	-75.70823669	45.41572952	1.50683E+12	-2.20901E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	06 - SMV unattended vehicle	2496
Y		2353 BRONSON AVE @ COMMISSIONER ST/SLATER ST 2354 BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.25 5030949 366768.8125 5030948.5				-2.20901E+12 01 - Clear -2.2089F+12 03 - Snow	01 - Dry 03 - Loose snow	01 - Traffic signal 01 - Traffic signal	03 - At intersection 02 - Intersection related	01 - Daylight 07 - Dark	03 - P.D. only	05 - Turning movement 07 - SMV other	2497 2498
Ý	2017	2355 BRONSON AVE @ COMMISSIONER ST/SLATER ST	366770.375 5030948	-75.70821381	45.41572189	1.51176E+12	-2.20902E+12 01 - Clear	02 - Wet	01 - Traffic signal	03 - At intersection	01 - Daylight	02 - Non-fatal injury	02 - Angle	2499
Y		2356 BRONSON AVE @ COMMISSIONER ST/SLATER ST		-75.70822144			-2.20901E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only	05 - Turning movement	2500
Y	2017 2017	2357 BRONSON AVE @ COMMISSIONER ST/SLATER ST 2358 BRONSON AVE @ COMMISSIONER ST/SLATER ST	366769.7188 5030948.5 366768.2813 5030948				-2.20903E+12 03 - Snow -2.20899E+12 01 - Clear	03 - Loose snow 01 - Dry	01 - Traffic signal 01 - Traffic signal	03 - At intersection 03 - At intersection	01 - Daylight 07 - Dark	03 - P.D. only 03 - P.D. only	02 - Angle 05 - Turning movement	2501 2502
Y	2017	2359 BRONSON AVE @ COMMISSIONER ST/SLATER ST		-75.70822144		1.48852E+12	-2.20899E+12 01 - Clear -2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	07 - Dark 01 - Daylight	03 - P.D. only	04 - Sideswipe	2502
Y	2017	2360 BRONSON AVE @ COMMISSIONER ST/SLATER ST		-75.70822144			-2.20897E+12 03 - Snow	05 - Packed snow	01 - Traffic signal	02 - Intersection related	07 - Dark	03 - P.D. only	03 - Rear end	2504
Y	2017	2361 BRONSON AVE @ COMMISSIONER ST/SLATER ST 11144 OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366769.0625 5030949 366516.5313 5031314.5	-75.70822906		1.49128E+12	-2.209E+12 02 - Rain	02 - Wet 01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only 03 - P.D. only	03 - Rear end	2505
Y		11144 OTTAWA RIVER PKWY @ PORTAGE BRIDGE 11145 OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366516.5313 5031314.5 366515.9688 5031314.5			1.49551E+12 1.49491E+12	-2.20899E+12 01 - Clear -2.209E+12 01 - Clear	01 - Dry 01 - Dry	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 02 - Intersection related	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	02 - Angle 99 - Other	11640 11641
Υ	2017	11146 OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366516.2813 5031313.5	-75.71141815	45.41903687	1.49016E+12	-2.20902E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	02 - Non-fatal injury	03 - Rear end	11642
Y		11147 OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366516.0938 5031313	-75.71141815	45.41903305	1.49111E+12	-2.20898E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	07 - Dark	03 - P.D. only	04 - Sideswipe	11643
Y		11148 OTTAWA RIVER PKWY @ PORTAGE BRIDGE 11149 OTTAWA RIVER PKWY @ PORTAGE BRIDGE	366516.2188 5031314.5 366516.0313 5031316.5				-2.20902E+12 01 - Clear -2.20899E+12 02 - Rain	02 - Wet 02 - Wet	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 02 - Intersection related	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	11644 11645
Ý	2017	11155 OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST	365156.7188 5030377.5	-75.72890472	45.41073227	1.50096E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	11651
Y		11156 OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365977 5030795.5				-2.20903E+12 01 - Clear	02 - Wet	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	11652
Y		11157 OTTAWA RIVER PKWY @ VIMY PLACE PRIV 11158 OTTAWA RIVER PKWY @ VIMY PLACE PRIV	365975.75 5030796.5 365974.1875 5030798.5			1.48904E+12 1.51444E+12	-2.209E+12 01 - Clear -2.209E+12 01 - Clear	01 - Dry 06 - Ice	01 - Traffic signal 01 - Traffic signal	02 - Intersection related 02 - Intersection related	01 - Daylight 01 - Daylight	03 - P.D. only 02 - Non-fatal injury	03 - Rear end 03 - Rear end	11653 11654
Ý		11158 OTTAWA RIVER PRWY @ VIMY PLACE PRIV 11159 OTTAWA RIVER PRWY @ WELLINGTON ST EB	365974.1875 5030798.5 366690.75 5031277.5				-2.20901E+12 01 - Clear -2.20901E+12 01 - Clear	01 - Dry	02 - Stop sign	02 - Intersection related 02 - Intersection related		03 - P.D. only	03 - Rear end	11654
Υ		11163 OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV	365766.3125 5030525.5				-2.20901E+12 01 - Clear	01 - Dry	10 - No control	01 - Non intersection		03 - P.D. only	07 - SMV other	11659
Y		11164 OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST	366093.75 5030885			1.50657E+12	-2.209E+12 00 - Unknown	01 - Dry	10 - No control	01 - Non intersection	01 - Daylight	03 - P.D. only	03 - Rear end	11660
Ϋ́Υ		11165 OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST 11171 OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE	366227.75 5030980.5 364685.0938 5030331				-2.20898E+12 02 - Rain -2.20901E+12 02 - Rain	02 - Wet 02 - Wet	10 - No control 03 - Yield sign	01 - Non intersection 02 - Intersection related	07 - Dark 01 - Daylight	03 - P.D. only 02 - Non-fatal injury	04 - Sideswipe 07 - SMV other	11661 11667
Υ	2017	11172 OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE	364683.0938 5030331.5	-75.73495483	45.41035843	1.51297E+12	-2.20903E+12 01 - Clear	01 - Dry	03 - Yield sign	03 - At intersection	01 - Daylight	03 - P.D. only	03 - Rear end	11668
Y		11173 OTTAWA RIVER PKWY ONR-EB @ PARKDALE AVE	364692.625 5030334.5				-2.20901E+12 01 - Clear	01 - Dry	10 - No control		01 - Daylight		04 - Sideswipe	11669
Ϋ́Υ	2017 2017	11174 OTTAWA RIVER PKWY WB @ PARKDALE AVE WB ON RAMP 11264 PARKDALE AVE @ SCOTT ST	364638.25 5030469 364950.0313 5029728	-/5./3551178 -75.73162079	45.41159821 45.40490341	1.49128E+12 1.49551F+12	-2.209E+12 01 - Clear -2.209E+12 01 - Clear	01 - Dry 01 - Dry	03 - Yield sign 01 - Traffic signal	02 - Intersection related 03 - At intersection	01 - Daylight 01 - Daylight	03 - P.D. only 03 - P.D. only	04 - Sideswipe 07 - SMV other	11670 11190
			3023/20								uyngnt			

Y	2017	11265 PARKDALE AVE @ SCOTT ST	364950.0313 502972	7 -75.73162079	45.4048996	1.49352E+12	-2.20901E+12 02 - Rain	02 - Wet	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	04 - Sideswipe	11191
Y	2017	11266 PARKDALE AVE @ SCOTT ST	364948.6875 5029726.5	-75.73163605	45.40489197	1.49923E+12	-2.20903E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only	03 - Rear end	11192
Y	2017	11267 PARKDALE AVE @ SCOTT ST	364949.7188 5029726	-75.73162842	45.40488434	1.4988E+12	-2.20905E+12 01 - Clear	02 - Wet	01 - Traffic signal	03 - At intersection	07 - Dark	03 - P.D. only	02 - Angle	11193
Y	2017	11268 PARKDALE AVE @ SCOTT ST	364948.4375 502972	7 -75.73164368	45.40489578	1.50173E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only	05 - Turning movement	11194
Y	2017	11269 PARKDALE AVE @ SCOTT ST	364950.7188 5029726.5	-75.73161316	45.40489197	1.48791E+12	-2.20902E+12 01 - Clear	01 - Dry	01 - Traffic signal	03 - At intersection	01 - Daylight	03 - P.D. only	02 - Angle	11195
Y	2017	11270 PARKDALE AVE @ SCOTT ST	364950.0313 5029726	-75.73162079	45.40488434	1.4886E+12	-2.20899E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	05 - Dusk	03 - P.D. only	03 - Rear end	11196
Y	2017	11295 PARKDALE AVE btwn TO BE DETERMINED & EMMERSON AVE	364709.4375 5030285	-75.73462677	45.409935	1.49888E+12	-2.209E+12 01 - Clear	01 - Dry	10 - No control	01 - Non intersection	01 - Daylight	02 - Non-fatal injury	05 - Turning movement	11221
Y	2017	11296 PARKDALE AVE WB OFF RAMP/OTTAWA RIVER PKWY btwn OTTAWA RIVER PKWY & PA	364694.125 5030582	-75.73478699	45.41261292	1.49007E+12	-2.20903E+12 03 - Snow	05 - Packed snow	10 - No control	01 - Non intersection	01 - Daylight	03 - P.D. only	03 - Rear end	11222
Y	2017	11297 PARKDALE AVE WB ON RAMP/OTTAWA RIVER PKWY btwn PARKDALE AVE & OTTAWA R	364662 5030406.5	-75.73521423	45.41103363	1.49396E+12	-2.209E+12 02 - Rain	02 - Wet	10 - No control	01 - Non intersection	01 - Daylight	02 - Non-fatal injury	03 - Rear end	11223
Y	2017	12641 SCOTT ST @ STIRLING AVE	365212.5938 5029884	-75.7282486	45.40628815	1.51366E+12	-2.20903E+12 03 - Snow	03 - Loose snow	02 - Stop sign	02 - Intersection related	03 - Dawn	03 - P.D. only	02 - Angle	12802
Y	2017	12645 SCOTT ST btwn PARKDALE AVE & PINEHURST AVE	364974.7813 5029740.5	-75.73130035	45.40501785	1.4956E+12	-2.20901E+12 01 - Clear	01 - Dry	10 - No control	01 - Non intersection	01 - Daylight	03 - P.D. only	03 - Rear end	12806
Y	2017	12646 SCOTT ST btwn PINHEY ST & MERTON ST	365309.3125 5029944.5	-75.727005	45.4068222	1.5096E+12	-2.209E+12 01 - Clear	02 - Wet	10 - No control	01 - Non intersection	01 - Daylight	02 - Non-fatal injury	03 - Rear end	12807
Y	2017	12647 SCOTT ST btwn STIRLING AVE & PINHEY ST	365264.0938 5029915	-75.72758484	45.40656281	1.51089E+12	-2.209E+12 01 - Clear	01 - Dry	10 - No control	01 - Non intersection	07 - Dark	03 - P.D. only	04 - Sideswipe	12808
Y	2017	13996 WELLINGTON ST @ LETT ST	366355.2813 5031112	2 -75.71350098	45.41723633	1.49638E+12	-2.209E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	03 - P.D. only	03 - Rear end	13828
Y	2017	13997 WELLINGTON ST @ LETT ST	366354.125 5031111.5	-75.71351624	45.4172287	1.50372E+12	-2.20902E+12 01 - Clear	01 - Dry	01 - Traffic signal	02 - Intersection related	01 - Daylight	02 - Non-fatal injury	03 - Rear end	13829
Y	2017	14007 WELLINGTON ST btwn OTTAWA RIVER PKWY & TO BE DETERMINED	366357.25 5031113.5	-75.71347046	45.41725159	1.49041E+12	-2.20898E+12 01 - Clear	02 - Wet	10 - No control	01 - Non intersection	07 - Dark	03 - P.D. only	07 - SMV other	14269

STL	DY AREA YEAR DATE ANOM_ID		GEO_ID ACCIDENT_LOCATION	CLASS_OF_ACCIDENT		ENVIRONMENT	LIGHT	ROAD_SURFACE_CONDITION					
Y		8:35:00 AM ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related		04 - Sideswipe	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366428.3448 5030626.567 -75.71262535 45		3227
Y	2018 2018/04/10 00:00:00+00 18-3579	7:21:00 AM ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	03 - P.D. only	05 - Turning movement	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366427.6479 5030625.87 -75.71263434 45	5.41285516	3514
Y		6:06:00 AM ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection		05 - Turning movement	01 - Clear		01 - Dry	01 - Traffic signal	01 - Functioning	0 366428.6235 5030626.715 -75.71262177 45		4447
Y	2018 2018/05/17 00:00:00+00 18-4633	9:51:00 PM ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	02 - Non-fatal injury		01 - Clear		01 - Dry	01 - Traffic signal	01 - Functioning	0 366428.6933 5030626.566 -75.7126209 45		4757
Y	2018 2018/06/12 00:00:00+00 18-5487	4:30:00 PM ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366428.3247 5030626.736 -75.71262558 45		5524
Y		5:52:00 PM ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection		05 - Turning movement	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366428.6927 5030626.567 -75.7126209 45		7821
Y		12:45:00 PM ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight		01 - Traffic signal	02 - Not functioning	0 366428.6934 5030626.566 -75.7126209 45		8009
Y	2018 2018/09/14 00:00:00+00 18-8281	2:58:00 PM ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related		03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366428.7812 5030626.688 -75.71261976 45		8885
Y		5:00:00 PM ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection		05 - Turning movement	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366428.693 5030626.567 -75.7126209 45		9411
Y		7:47:00 AM ALBERT ST @ BOOTH ST (0002162)		02 - Non-fatal injury		02 - Rain	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366428.6931 5030626.567 -75.7126209 45		10134
Y	2018 2018/04/06 00:00:00+00 18-3499	4:02:00 PM ALBERT ST @ BRONSON AVE (0002160)		03 - P.D. only	04 - Sideswipe	02 - Rain	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366739.7045 5031016.575 -75.70859873 45		3633
Y	2018 2018/05/15 00:00:00+00 18-4553	6:30:00 PM ALBERT ST @ EMPRESS AVE (0010851)	10851 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight		01 - Traffic signal	00 - Unknown	0 366576.8856 5030720.754 -75.71071594 45		4702
Y	2018 2018/04/09 00:00:00+00 18-3569	4:05:00 PM ALBERT ST @ PERKINS ST (0002220)	2220 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight		02 - Stop sign	01 - Functioning	0 366535.6983 5030695.574 -75.71124527 45		3504
Y		7:41:00 PM ALBERT ST @ PRESTON ST (0002217)	2217 03 - At intersection	03 - P.D. only	02 - Angle	03 - Snow		03 - Loose snow	01 - Traffic signal	01 - Functioning	0 366160.3486 5030465.965 -75.71606899 45		1601
Y	2018 2018/07/08 00:00:00+00 18-6312	6:41:00 PM ALBERT ST @ PRESTON ST (0002217)			07 - SMV other	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	1 366160.6974 5030464.571 -75.7160647 45		6290
Y	2018 2018/09/14 00:00:00+00 18-8272	1:24:00 PM ALBERT ST @ PRESTON ST (0002217)	2217 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366160.7063 5030464.569 -75.71606459 45		8876
Y		4:51:00 PM ALBERT ST @ PRESTON ST (0002217)	2217 03 - At intersection	03 - P.D. only	05 - Turning movement	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366160.6781 5030464.577 -75.71606495 45		9578
Y		6:15:00 PM ALBERT ST @ PRESTON ST (0002217)	2217 03 - At intersection		02 - Angle	01 - Clear	07 - Dark		01 - Traffic signal	01 - Functioning	0 366160.6966 5030464.571 -75.71606471 45		
Y		2:35:00 PM ALBERT ST @ PRESTON ST (0002217)	2217 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366160.7182 5030464.54 -75.71606444 45		
Y		10:16:00 AM ALBERT ST btwn COMMISSIONER ST & BRONSON AVE (_3ZA337)	3ZA337 01 - Non intersection	03 - P.D. only	04 - Sideswipe	02 - Rain	01 - Daylight		10 - No control		0 366735.93 5031011.558 -75.70864758 45		11316
Y		1:48:00 AM ALBERT ST btwn Continuation of ALBERT ST & BOOTH ST (_3ZA2G2)	3ZA2G2 01 - Non intersection	03 - P.D. only	03 - Rear end	01 - Clear		01 - Dry	10 - No control		0 366421.7915 5030622.282 -75.7127096 45		9229
Y		7:09:00 PM ALBERT ST btwn PRESTON ST & Continuation of ALBERT ST (3ZA330)	3ZA330 01 - Non intersection	03 - P.D. only	99 - Other	01 - Clear		01 - Dry	10 - No control		0 366228.677 5030508.138 -75.71519086 45		11727
Y		3:33:00 AM ALBERT ST btwn SCOTT ST & CITY CENTRE AVE (2) (3ZA32WB)	3ZA32WB 01 - Non intersection	03 - P.D. only	07 - SMV other	01 - Clear		02 - Wet	10 - No control		0 365912.9405 5030324.138 -75.71924712 45		1363
Y	2018 2018/02/02 00:00:00+00 18-1397	4:30:00 PM ALBERT ST btwn SCOTT ST & CITY CENTRE AVE (2) (3ZA32WB)	3ZA32WB 01 - Non intersection	03 - P.D. only	05 - Turning movement	01 - Clear	01 - Daylight		10 - No control		0 365941.5853 5030338.003 -75.71887948 45		1811
Y		11:22:00 PM BAYVIEW RD @ SCOTT ST/ALBERT ST (0005646)	5646 03 - At intersection	03 - P.D. only	05 - Turning movement	01 - Clear		01 - Dry	01 - Traffic signal	01 - Functioning	0 365519.0769 5030071.525 -75.72430961 45		6769
Y		1:48:00 PM BAYVIEW RD @ SCOTTST/ALBERT ST (0005646)	5646 03 - At intersection	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 365519.0369 5030071.564 -75.72431011 45		9102
Y		12:42:00 PM BAYVIEW RD @ SCOTT ST/ALBERT ST (0005646)		03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 365519.1445 5030071.453 -75.72430875 45		10237
Y		8:54:00 AM BAYVIEW RD @ SCOTT ST/ALBERT ST (0005646)	5646 03 - At intersection	03 - P.D. only	05 - Turning movement	02 - Rain	01 - Daylight		01 - Traffic signal	01 - Functioning	0 365519.0372 5030071.565 -75.72431011 45		10271
Y	2018 2018/06/29 00:00:00+00 18-6050	3:22:00 PM BOOTH ST @ 148 N OF MIDDLE ST/E.B.EDDY S (0012189)	12189 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366035.5926 5031416.536 -75.71754458 45		6230
Y		8:10:00 PM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 03 - At intersection	03 - P.D. only	02 - Angle	03 - Snow		05 - Packed snow	01 - Traffic signal	01 - Functioning	0 366263.2117 5031005.991 -75.7146876 45		502
Y	2018 2018/04/23 00:00:00+00 18-3931	6:20:00 PM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366264.2571 5031006.688 -75.71467416 45		3360
Y	2018 2018/04/09 00:00:00+00 18-3573	5:57:00 PM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 02 - Intersection related	02 - Non-fatal injury	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366264.6054 5031007.385 -75.71466962 45		3508
Y	2018 2018/07/04 00:00:00+00 18-6169	11:43:00 AM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 03 - At intersection	03 - P.D. only	05 - Turning movement	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366264.301 5031006.754 -75.71467359 45		6351
Y		6:39:00 AM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 02 - Intersection related	03 - P.D. only	03 - Rear end	03 - Snow		03 - Loose snow	01 - Traffic signal	01 - Functioning	0 366264.2082 5031006.528 -75.7146748 45		
Y		10:32:00 PM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 03 - At intersection	03 - P.D. only	05 - Turning movement	03 - Snow		05 - Packed snow	01 - Traffic signal	01 - Functioning	0 366264.455 5031006.711 -75.71467163 45		11554
Y		3:02:00 AM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 03 - At intersection	03 - P.D. only	07 - SMV other	03 - Snow		04 - Slush	01 - Traffic signal	01 - Functioning	0 366264.257 5031006.663 -75.71467416 4		12145
Y		5:01:00 PM BOOTH ST @ OTTAWA RIVER PKWY/WELLINGTON ST (0012252)	12252 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear		01 - Dry	01 - Traffic signal	01 - Functioning	0 366264.2599 5031006.689 -75.71467412 45		12609
Y		5:30:00 AM BOOTH ST btwn 148 N OF MIDDLE ST/E.B. EDDY S & MIDDLE ST (3ZBPMPC)	3ZBPMPC 07 - Overpass or bridge	03 - P.D. only	07 - SMV other	02 - Rain		02 - Wet	10 - No control		0 366075.1822 5031344.406 -75.71704773 4		12479
Y		10:00:00 AM BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV (SVHJ3U)	SVHJ3U 01 - Non intersection	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight		10 - No control		0 366138.2042 5031259.619 -75.71625309 45		12615
Y		10:30:00 AM BOOTH ST btwn PROVINCIAL BOUNDARY & 208 N OF MIDDLE ST/E.B. EDDY N (_3ZBPMPA)	3ZBPMPA 01 - Non intersection	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		10 - No control		0 366001.6988 5031489.73 -75.71796854 45		178
Y	2018 2018/07/16 00:00:00+00 18-6570	7:13:00 AM BOOTH ST blwn VIMY PLACE PRIV & OTTAWA RIVER PKWY (SVHJ2X)	SVHJ2X 01 - Non intersection	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		10 - No control		0 366256.8775 5031025.669 -75.71476607 45		6835
Y	2018 2018/01/11 00:00:00+00 18-504	7:48:00 PM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)		03 - P.D. only	04 - Sideswipe	02 - Rain	07 - Dark		01 - Traffic signal	01 - Functioning	0 366769.0538 5030949.961 -75.70823214 45		204
Y	2018 2018/01/08 00:00:00+00 18-320	8:40:00 AM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 02 - Intersection related	03 - P.D. only	03 - Rear end	03 - Snow		03 - Loose snow	01 - Traffic signal	01 - Functioning	0 366768.7058 5030948.568 -75.70823677 45		520
Y	2018 2018/01/08 00:00:00+00 18-324	9:51:00 AM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)		03 - P.D. only	04 - Sideswipe	03 - Snow		03 - Loose snow	01 - Traffic signal	01 - Functioning	0 366768.7054 5030948.568 -75.70823677 45		524
Y	2018 2018/07/06 00:00:00+00 18-6265	4:30:00 PM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366768.6969 5030948.412 -75.7082369 45		6965
Y		6:31:00 PM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366768.7054 5030948.568 -75.70823677 45		7214
Y		2:44:00 AM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 03 - At intersection	02 - Non-fatal injury		01 - Clear	07 - Dark		01 - Traffic signal	01 - Functioning	0 366768.6848 5030948.633 -75.70823703 45		7535
Y		12:42:00 PM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 03 - At intersection		05 - Turning movement	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366768.6369 5030948.822 -75.70823761 45		8417
Y		11:20:00 AM BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366768.6327 5030948.555 -75.7082377 45		11801
Y		12:30:00 PM OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST (0005099)		03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 365156.696 5030377.639 -75.72890114 45		8363
Y		2:00:00 PM OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST (0005099)	5099 02 - Intersection related	03 - P.D. only	03 - Rear end	03 - Snow	01 - Daylight		01 - Traffic signal	01 - Functioning	0 365156.8347 5030377.421 -75.7288994 45		
Y		11:30:00 PM OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST (0005099)	5099 03 - At intersection	03 - P.D. only	05 - Turning movement	01 - Clear		01 - Dry	01 - Traffic signal	01 - Functioning	0 365156.7038 5030377.572 -75.72890105 45		12299
Y		6:45:00 AM OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST (0005099)	5099 03 - At intersection	01 - Fatal injury	02 - Angle	99 - Other	07 - Dark	01 - Dry	01 - Traffic signal	01 - Functioning	0 365156.7032 5030377.572 -75.72890106 45		12616
Y		7:35:00 AM OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV (_SVHJ2QA)	SVHJ2QA 01 - Non intersection		07 - SMV other	00 - Unknown		06 - Ice	10 - No control		0 365913.5887 5030742.975 -75.71918691 45		
Y		4:00:00 PM OTTAWA RIVER PKWY btwn TRANSITWAY - TIME POINT & VIMY PLACE PRIV (_SVHJ2QA)	SVHJ2QA 01 - Non intersection	03 - P.D. only	04 - Sideswipe	00 - Unknown	01 - Daylight		10 - No control		0 365650.0956 5030463.838 -75.72258756 45		
Y	2018 2018/07/16 00:00:00+00 18-6579 2018 2018/09/07 00:00:00+00 18-8037	4:20:00 PM OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST (SVHJ2QB) 3:35:00 PM OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST (_SVHJ2QB)	SVHJ2QB 01 - Non intersection SVHJ2QB 01 - Non intersection	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	01 - Clear 01 - Clear	01 - Daylight	01 - Dry	10 - No control 10 - No control		0 366171.553 5030939.441 -75.7158669 49 0 366003.7567 5030818.227 -75.71802565 49		6844
Y					03 - Rear end	01 - Clear 02 - Rain	01 - Daylight 05 - Dusk		10 - No control				8598
Y		6:18:00 PM OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST (_SVHJ2QB) 12:45:00 PM OTTAWA RIVER PKWY EB btwn RAMP & SLIDELL ST (3ZA24L)	SVHJ2QB 01 - Non intersection 3ZA24L 01 - Non intersection	03 - P.D. only 03 - P.D. only	04 - Sideswipe	02 - Kain 01 - Clear			10 - No control		0 366201.7542 5030961.596 -75.7154783 45 0 364841.2972 5030362.706 -75.73293204 45		
Y					04 - Sideswipe 03 - Rear end		01 - Daylight			and the second second			5442
Y		12:48:00 PM OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE (0011241) 6:45:00 AM OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE (0011241)	11241 02 - Intersection related 11241 02 - Intersection related	03 - P.D. only 02 - Non-fatal injury	03 - Rear end	01 - Clear 01 - Clear	01 - Daylight 07 - Dark	01 - Dry 01 - Dry	03 - Yield sign 03 - Yield sign	01 - Functioning 01 - Functioning	0 364684.0285 5030331.417 -75.73494487 45 0 364684.068 5030331.424 -75.73494437 45		12158
Y		5:30:00 PM OTTAWA RIVER PKWY OF RE-EB @ PARKUALE AVE (0011241) 5:30:00 PM OTTAWA RIVER PKWY WB btwn RAMP & RIVER ST (3ZA24N)	3ZA24N 01 - Non intersection	02 - Non-ratal injury 02 - Non-fatal injury		01 - Clear 01 - Clear	07 - Dark 01 - Daylight		10 - No control	U1 - Functioning	0 364861.6894 5030331.424 -/5./349443/ 43 0 364861.6894 5030385.3 -75.73266879 43		
Y		5:50:00 PM OTTAWA RIVER PKWY WB DTWN RAMP & RIVER ST (3ZAZ4N) 6:50:00 AM OTTAWA RIVER PKWY WB btwn RAMP & RIVER ST (3ZAZ4N)	3ZAZ4N 01 - Non intersection 3ZAZ4N 01 - Non intersection	02 - Non-ratal injury 03 - P.D. only	07 - SMV otner 03 - Rear end	01 - Clear 03 - Snow	01 - Daylight 01 - Daylight		10 - No control		0 364947.2127 5030355.422 -75.73157991 45		
Y		3:05:00 PM PARKDALE AVE @ SCOTT ST (0002213)	32A24N U1 - Non intersection 2213 02 - Intersection related		04 - Sideswipe	01 - Clear				01 - Functioning	0 364947.2127 5030355.422 -75.73157991 43		2809
Y				03 - P.D. only 03 - P.D. only			01 - Daylight		01 - Traffic signal				3168
Y	2018 2018/04/12 00:00:00+00 18-3658 2018 2018/03/23 00:00:00+00 18-3104	5:56:00 PM PARKDALE AVE @ SCOTT ST (0002213) 7:46:00 AM PARKDALE AVE @ SCOTT ST (0002213)		03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	02 - Rain 01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning 01 - Functioning	0 364950.052 5029726.56 -75.73162036 45		3168 3221
		8:45:00 AM PARKDALE AVE @ SCOTT ST (0002213)		03 - P.D. only	04 - Sideswipe 04 - Sideswipe	01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning	0 364949.7034 5029726.56 -75.73162481 45 0 364949.7034 5029726.561 -75.73162481 45		4200
Y	2018 2018/05/10 00:00:00+00 18-4404	8:45:00 AM PARKDALE AVE @ SCOTT ST (0002213) 1:55:00 PM PARKDALE AVE @ SCOTT ST (0002213)	2213 02 - Intersection related 2213 03 - At intersection		05 - Turning movement	01 - Clear 01 - Clear				01 - Functioning 01 - Functioning	0 364949.7034 5029726.561 -75.73162481 43		7037
Y	2018 2018/10/04 00:00:00+00 18-7636	1:55:00 PM PARKDALE AVE @ SCOTT ST (0002213) 2:43:00 PM PARKDALE AVE @ SCOTT ST (0002213)	2213 03 - At intersection 2213 03 - At intersection		05 - Turning movement 05 - Turning movement	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 364949.7032 5029726.56 -75.73162482 43		9607
Y	2018 2018/10/04 00:00:00+00 18-9055 2018 2018/10/23 00:00:00+00 18-9735	2:43:00 PM PARKDALE AVE @ SCOTT ST (0002213) 5:07:00 PM PARKDALE AVE @ SCOTT ST (0002213)	2213 03 - At intersection 2213 02 - Intersection related	02 - Non-fatal injury 03 - P.D. only	05 - Turning movement 04 - Sideswipe	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 364949.6268 5029726.598 -75.73162579 45 0 364949.7347 5029726.48 -75.73162442 45		9607
Y													
Y		6:30:00 PM PARKDALE AVE @ SCOTT ST (0002213)	2213 02 - Intersection related		03 - Rear end	01 - Clear	07 - Dark		01 - Traffic signal	01 - Functioning	0 364949.4987 5029726.643 -75.73162742 45		
Y	2018 2018/12/03 00:00:00+00 18-11496 2018 2018/02/28 00:00:00+00 18-2412	6:35:00 PM PARKDALE AVE @ SCOTT ST (0002213) 2:45:00 PM PARKDALE AVE btwn BURNSIDE AVE & LYNDALE AVE (3ZA32H)	2213 03 - At intersection 3ZA32H 04 - At/near private drive	03 - P.D. only	01 - Approaching 02 - Angle	01 - Clear 01 - Clear	07 - Dark 01 - Daylight	02 - Wet	01 - Traffic signal	01 - Functioning	0 364949.65 5029726.675 -75.73162548 49 0 364792.9333 5030088.056 -75.73358329 49		11748
Y			3ZA32H 04 - At/near private drive 3ZA32H 01 - Non intersection		02 - Angle 03 - Rear end	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		10 - No control 10 - No control		0 364792.9333 5030088.056 -75.73358329 49 0 364790.7691 5030094.278 -75.73361018 49		2445 3672
Y		4:15:00 PM PARKDALE AVE btwn BURNSIDE AVE & LYNDALE AVE (3ZA32H) 12:00:00 PM PARKDALE AVE btwn EMMERSON AVE & COLOMBINE DRWY (3ZA326)	3ZA32H 01 - Non intersection 3ZA326 01 - Non intersection	02 - Non-tatal injury 03 - P.D. only	03 - Rear end 06 - SMV unattended vehicle			01 - Dry 03 - Loose snow	10 - No control 10 - No control		0 364790.7691 5030094.278 -75.73361018 45 0 364725.5097 5030246.092 -75.73442535 45		3672 605
·		7:50:00 AM PARKDALE AVE DIWN EMIMERSON AVE & COLOMBINE DRWY (3ZA326) 7:50:00 AM PARKDALE AVE DIWN EMIMERSON AVE & COLOMBINE DRWY (3ZA326)	3ZA326 01 - Non intersection 3ZA326 01 - Non intersection	03 - P.D. only	03 - Rear end	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		10 - No control		0 364725.5097 5030246.092 -75.73442535 43		10419
,		2:30:00 PM WELLINGTON ST btwn BOOTH ST & END (3ZASZGS)	3ZA2GX 01 - Non intersection	03 - P.D. only 03 - P.D. only	04 - Sideswipe	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		10 - No control		0 366503.3738 5030787.431 -75.71164672 49		9015
,	2018 2018/10/19 00:00:00+00 18-9601	4:53:00 PM WELLINGTON ST btwn OTTAWA RIVER PKWY & TO BE DETERMINED (SVHJWJ)									0 366345.6769 5031093.295 -75.71362314 45		4882
Y		4:53:00 PM WELLINGTON ST btwn OTTAWA RIVER PKWY & TO BE DETERMINED (SVHJWJ) 6:52:00 AM WELLINGTON ST btwn TURN LANE & Continuation of WELLINGTON ST (3ZBPOI)	SVHJWJ 01 - Non intersection 3ZBPOI 01 - Non intersection	03 - P.D. only 03 - P.D. only	06 - SMV unattended vehicle 03 - Rear end	01 - Clear 02 - Rain	01 - Daylight 07 - Dark		10 - No control 10 - No control		0 366345.6769 5031093.295 -75.71362314 45 0 366685.2788 5031294.64 -75.70925913 45		4882 9507
Y		6:52:00 AM WELLINGTON ST btwn TURN LANE & Continuation of WELLINGTON ST (3ZBPOI) 9:02:00 AM WELLINGTON ST btwn TURN LANE & TO BE DETERMINED (_3ZA2L9)	3ZBPOI 01 - Non intersection 3ZA2L9 07 - Overpass or bridge		03 - Rear end 03 - Rear end	02 - Rain 03 - Snow	07 - Dark 01 - Daylight		10 - No control 10 - No control		0 366685.2788 5031294.64 -75.70925913 45 0 366611.6676 5031284.853 -75.71020084 45		9507 1633
,		9:02:00 AM WELLINGTON ST DIWN TURN LANE & TO BE DETERMINED (3ZAZE9) 6:03:00 PM WELLINGTON ST DIWN TURN LANE & TO BE DETERMINED (3ZAZE9)	3ZAZL9 07 - Overpass or bridge 3ZAZL9 01 - Non intersection	02 - Non-ratal injury 03 - P.D. only	03 - Kear end 04 - Sideswine	01 - Show	01 - Daylight 01 - Daylight		10 - No control		0 366687 0988 5031284.853 -75.71020084 43		
,	2010 2010/03/10 00.00.00700 18-8446	U.S. A. T. T. L. C. C. C. S.		US - P.D. Ully	o sueswipe	Us - Clear	OI - Dayright	OO - OHKHOWH	20 - NO CONTROL		J 300007.0700 3031277.10 -75.70923808 43	A-4007436	1047

Study Are	a Year Accident Date Accident Time Location	Geo ID Accident Location	Classification	Initial Impact Type	Environment	Light	Road Surface	Traffic Control	Traffic_Control_Condition Number_of_Pedestrians	X Y Latitude Longitude FID
Y	2019 2019/07/19 10:56:00+00 2019/07/19 10:56:00+00 105 S OF COMMISSIONER ST @ ALBERT ST (0016880)	16880 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight	01 - Dry	13 - MPS	01 - Functioning	0 366666.2747 5030879.415 45.41511543 -75.70955407 7631
Υ	2019 2019/01/11 14:25:00+00 2019/01/11 14:25:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366428.7192 5030626.722 45.41286273 -75.71262055 815
Y	2019 2019/01/14 16:14:00+00 2019/01/14 16:14:00+00 ALBERT ST @ BOOTH ST (0002162) 2019 2019/01/29 19:45:00+00 2019/01/29 19:45:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection 2162 02 - Intersection related	03 - P.D. only 03 - P.D. only	05 - Turning movement 07 - SMV other	01 - Clear 03 - Snow	01 - Daylight 07 - Dark	02 - Wet 04 - Slush	01 - Traffic signal 01 - Traffic signal		0 366428.7517 5030626.628 45.41286188 -75.71262014 963 0 366428.7587 5030626.706 45.41286258 -75.71262004 1826
Y	2019 2019/02/25 12:36:00+00 2019/02/25 12:36:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366428.6932 5030626.567 45.41286134 -75.7126209 2049
Υ	2019 2019/02/14 19:30:00+00 2019/02/14 19:30:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	03 - P.D. only	05 - Turning movement	03 - Snow		04 - Slush	01 - Traffic signal	01 - Functioning	0 366428.6818 5030626.696 45.4128625 -75.71262103 2396
Y	2019 2019/02/11 14:03:00+00 2019/02/11 14:03:00+00 ALBERT ST @ BOOTH ST (0002162) 2019 2019/03/13 20:22:00+00 2019/03/13 20:22:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection 2162 02 - Intersection related	02 - Non-fatal injury 03 - P.D. only	02 - Angle 04 - Sideswipe	01 - Clear 03 - Snow		06 - Ice 03 - Loose snow	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366428.6929 5030626.567 45.41286134 -75.7126209 2715 0 366428.5996 5030626.621 45.41286184 -75.71262209 3743
Ÿ	2019 2019/03/13 17:15:00+00 2019/03/13 17:15:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related	03 - P.D. only	03 - Rear end	03 - Snow		04 - Slush	01 - Traffic signal	01 - Functioning	0 366428.6928 5030626.567 45.41286134 -75.7126209 3976
Υ	2019 2019/04/10 07:00:00+00 2019/04/10 07:00:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366428.6596 5030626.503 45.41286076 -75.71262134 4084
Y	2019 2019/04/06 22:18:00+00 2019/04/06 22:18:00+00 ALBERT ST @ BOOTH ST (0002162) 2019 2019/04/12 21:40:00+00 2019/04/12 21:40:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection 2162 02 - Intersection related	02 - Non-fatal injury 03 - P.D. only	07 - SMV other 03 - Rear end	01 - Clear 01 - Clear		01 - Dry 01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	1 366428.793 5030626.518 45.41286089 -75.71261963 4457 0 366428.7026 5030626.698 45.41286252 -75.71262076 4664
Ý	2019 2019/05/21 08:30:00+00 2019/05/21 08:30:00+00 ALBERT ST @ BOOTH ST (0002102)	2162 03 - At intersection	02 - Non-fatal injury		01 - Clear		01 - Dry	01 - Traffic signal	01 - Functioning	0 366428.7056 5030626.587 45.41286152 -75.71262074 5533
Υ	2019 2019/05/14 09:33:00+00 2019/05/14 09:33:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	03 - P.D. only	04 - Sideswipe	02 - Rain	01 - Daylight	02 - Wet	01 - Traffic signal	01 - Functioning	0 366428.6454 5030626.755 45.41286303 -75.71262148 5620 0 366428.7653 5030626.475 45.4128605 -75.71261999 5782
Y	2019 2019/05/17 14:45:00+00 2019/05/17 14:45:00+00 ALBERT ST @ BOOTH ST (0002162) 2019 2019/07/14 14:53:00+00 2019/07/14 14:53:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related 2162 03 - At intersection	03 - P.D. only 02 - Non-fatal injury	03 - Rear end	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366428.7653 5030626.475 45.4128605 -75.71261999 5782 0 366428.6593 5030626.515 45.41286088 -75.71262134 7099
Y	2019 2019/07/14 14:53:00+00 2019/07/14 14:53:00+00 ALBERT ST @ BOOTH ST (0002162) 2019 2019/08/30 13:00:00+00 2019/08/30 13:00:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection 2162 03 - At intersection	03 - P.D. only	02 - Angle 02 - Angle	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal	01 - Functioning 01 - Functioning	0 366428.5725 5030626.691 45.41286286 -75.71262242 9850
Y	2019 2019/10/16 15:08:00+00 2019/10/16 15:08:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight 07 - Dark	01 - Dry	01 - Traffic signal	00 - Unknown	0 366428.6226 5030626.641 45.41286201 -75.71262179 10674
Υ	2019 2019/11/20 23:34:00+00 2019/11/20 23:34:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	07 - Dark	02 - Wet	01 - Traffic signal	01 - Functioning	0 366428.8509 5030626.299 45.41285892 -75.71261892 12312
Y	2019 2019/11/19 09:43:00+00 2019/11/19 09:43:00+00 ALBERT ST @ BOOTH ST (0002162) 2019 2019/11/14 09:00:00+00 2019/11/14 09:00:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection 2162 02 - Intersection related	02 - Non-fatal injury 03 - P.D. only	07 - SMV other 03 - Rear end	01 - Clear 03 - Snow	01 - Daylight 01 - Daylight	01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	1 366428.6845 5030626.586 45.41286151 -75.71262101 12430 0 366430.5388 5030628.093 45.41287491 -75.71259713 12967
Ÿ	2019 2019/12/14 17:23:00+00 2019/12/14 17:23:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 03 - At intersection	02 - Non-fatal injury		02 - Rain	07 - Dark	02 - Wet	01 - Traffic signal	01 - Functioning	1 366428.8187 5030626.661 45.41286218 -75.71261928 13679
Υ	2019 2019/12/05 19:00:00+00 2019/12/05 19:00:00+00 ALBERT ST @ BOOTH ST (0002162)	2162 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear		03 - Loose snow	01 - Traffic signal	01 - Functioning	0 366428.5005 5030626.394 45.4128598 -75.71262338 13922
Y	2019 2019/02/12 12:23:00+00 2019/02/12 12:23:00+00 ALBERT ST @ BRONSON AVE (0002160) 2019 2019/04/14 12:58:00+00 2019/04/14 12:58:00+00 ALBERT ST @ BRONSON AVE (0002160)	2160 02 - Intersection related 2160 02 - Intersection related	03 - P.D. only 03 - P.D. only	04 - Sideswipe 04 - Sideswipe	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366739.8248 5031016.425 45.41634169 -75.70859721 2758 0 366739.6031 5031016.897 45.41634597 -75.70859998 4781
Ý	2019 2019/07/14 16:10:00+00 2019/07/14 16:10:00+00 ALBERT ST @ BRONSON AVE (0002160)	2160 02 - Intersection related	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366739.744 5031016.629 45.41634355 -75.70859832 7104
Υ	2019 2019/02/12 18:00:00+00 2019/02/12 18:00:00+00 ALBERT ST @ CITY CENTRE AVE (0006346)	6346 03 - At intersection	03 - P.D. only	02 - Angle	03 - Snow	05 - Dusk	03 - Loose snow	01 - Traffic signal	01 - Functioning	0 365955.5448 5030344.518 45.41036504 -75.71870035 2774
Y	2019 2019/08/06 11:22:00+00 2019/08/06 11:22:00+00 ALBERT ST @ CITY CENTRE AVE (0006346) 2019 2019/08/29 15:49:00+00 2019/08/29 15:49:00+00 ALBERT ST @ CITY CENTRE AVE (0006346)	6346 02 - Intersection related 6346 02 - Intersection related	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 365955.4853 5030344.657 45.4103663 -75.71870109 8688 0 365955.6605 5030344.664 45.41036635 -75.71869886 9220
Y	2019 2019/08/29 15:49:00+00 2019/08/29 15:49:00+00 ALBERT ST @ COMMISSIONER ST (0002171)	2171 02 - Intersection related	03 - P.D. only 03 - P.D. only	03 - Rear end 07 - SMV other	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		02 - Stop sign	01 - Functioning 01 - Functioning	0 365955.6605 5030344.664 45.41036635 -/5./1869886 9220 0 366713.5301 5030971.623 45.41594091 -75.70893877 6465
Y	2019 2019/06/12 22:03:00+00 2019/06/12 22:03:00+00 ALBERT ST @ COMMISSIONER ST (0002171)	2171 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	07 - Dark	01 - Dry	02 - Stop sign	01 - Functioning	0 366713.6186 5030971.612 45.4159408 -75.70893764 6688
Υ	2019 2019/04/26 20:11:00+00 2019/04/26 20:11:00+00 ALBERT ST @ EMPRESS AVE (0010851)	10851 02 - Intersection related	03 - P.D. only	04 - Sideswipe	02 - Rain		02 - Wet	01 - Traffic signal	01 - Functioning	0 366576.5109 5030720.742 45.41369567 -75.71072073 4166
Y	2019 2019/05/10 15:36:00+00 2019/05/10 15:36:00+00 ALBERT ST @ EMPRESS AVE (0010851) 2019 2019/06/05 15:13:00+00 2019/06/05 15:13:00+00 ALBERT ST @ EMPRESS AVE (0010851)	10851 02 - Intersection related 10851 02 - Intersection related	03 - P.D. only 03 - P.D. only	04 - Sideswipe 04 - Sideswipe	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366576.792 5030720.592 45.41369429 -75.71071716 5079 0 366576.8112 5030720.473 45.41369322 -75.71071693 6235
Ÿ	2019 2019/10/15 09:38:00+00 2019/10/15 09:38:00+00 ALBERT ST @ EMPRESS AVE (0010851)	10851 03 - At intersection	02 - Non-fatal injury		01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	1 366576.6376 5030720.594 45.41369432 -75.71071913 10345
Υ	2019 2019/07/26 10:24:00+00 2019/07/26 10:24:00+00 ALBERT ST @ PERKINS ST (0002220)	2220 02 - Intersection related	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight	01 - Dry	02 - Stop sign	01 - Functioning	0 366535.7477 5030695.577 45.41347283 -75.71124464 8924
Y	2019 2019/01/03 22:00:00+00 2019/01/03 22:00:00+00 ALBERT ST @ PRESTON ST (0002217) 2019 2019/01/29 16:14:00+00 2019/01/29 16:14:00+00 ALBERT ST @ PRESTON ST (0002217)		03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	03 - Snow 03 - Snow	07 - Dark 01 - Davlight	02 - Wet	01 - Traffic signal	01 - Functioning 01 - Functioning	0 366160.7515 5030464.526 45.41142689 -75.71606402 328 0 366160.5651 5030464.683 45.41142831 -75.71606638 1634
Y	2019/01/29 16:14:00+00 2019/01/29 16:14:00+00 ALBERT ST @ PRESTON ST (0002217) 2019 2019/02/18 16:57:00+00 2019/02/18 16:57:00+00 ALBERT ST @ PRESTON ST (0002217)	2217 02 - Intersection related 2217 02 - Intersection related	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	03 - Snow 01 - Clear		04 - Slush 01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366160.3794 5030464.573 45.41142831 -75.71606877 2279
Υ	2019 2019/02/15 19:58:00+00 2019/02/15 19:58:00+00 ALBERT ST @ PRESTON ST (0002217)	2217 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	07 - Dark	01 - Dry	01 - Traffic signal	01 - Functioning	0 366160.5798 5030464.589 45.41142746 -75.7160662 2852
Y	2019 2019/04/06 15:29:00+00 2019/04/06 15:29:00+00 ALBERT ST @ PRESTON ST (0002217) 2019 2019/07/03 11:30:00+00 2019/07/03 11:30:00+00 ALBERT ST @ PRESTON ST (0002217)	2217 02 - Intersection related 2217 02 - Intersection related	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal	01 - Functioning	0 366160.7718 5030464.609 45.41142762 -75.71606375 4451 0 366160.7424 5030464.521 45.41142684 -75.71606413 7451
Y	2019 2019/07/03 11:30:00+00 2019/07/03 11:30:00+00 ALBERT ST @ PRESTON ST (0002217) 2019 2019/03/13 18:43:00+00 2019/03/13 18:43:00+00 ALBERT ST btwn BRICKHILL ST & COMMISSIONER ST (3ZA2GZ)	3ZAZGZ 01 - Non intersection	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	01 - Clear 03 - Snow		01 - Dry 04 - Slush	01 - Traffic signal 10 - No control	01 - Functioning	0 366710.4099 5030965.335 45.41588461 -75.70897942 3992
Y	2019 2019/04/05 01:04:00+00 2019/04/05 01:04:00+00 ALBERT ST btwn CITY CENTRE AVE & PRESTON ST (3ZA32G)	3ZA32G 01 - Non intersection	03 - P.D. only	07 - SMV other	01 - Clear		01 - Dry	10 - No control		0 365978.6298 5030356.251 45.4104686 -75.718404 4402
Y	2019 2019/02/21 17:10:00+00 2019/02/21 17:10:00+00 ALBERT ST btwn Continuation of ALBERT ST & BOOTH ST (_3ZA2G2)	3ZA2G2 01 - Non intersection	03 - P.D. only	04 - Sideswipe	01 - Clear		01 - Dry	10 - No control		0 366353.5011 5030579.711 45.41244636 -75.71358733 2168
Y	2019 2019/11/30 11:00:00+00 2019/11/30 11:00:00+00 ALBERT ST btwn PRESTON ST & Continuation of ALBERT ST (3ZA33/ 2019 2019/01/16 17:40:00+00 2019/01/16 17:40:00+00 ALBERT ST btwn SLATER ST & BRICKHILL ST (3ZBOG9)	0)3ZA330	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	01 - Clear 01 - Clear	01 - Daylight 07 - Dark	01 - Dry 02 - Wet	10 - No control 10 - No control		0 366238.912 5030514.909 45.41187336 -75.71505926 12527 0 366613.1856 5030775.724 45.41418714 -75.71024531 663
Ÿ	2019 2019/04/23 18:19:00+00 2019/04/23 18:19:00+00 BAYVIEW RD @ SCOTT ST/ALBERT ST (0005646)	5646 03 - At intersection	02 - Non-fatal injury	05 - Turning movement	02 - Rain	01 - Daylight		01 - Traffic signal	01 - Functioning	0 365518.9208 5030071.735 45.40794863 -75.72431157 4912
Υ	2019 2019/12/03 10:35:00+00 2019/12/03 10:35:00+00 BAYVIEW RD @ SCOTT ST/ALBERT ST (0005646)	5646 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 365519.0592 5030071.462 45.40794616 -75.72430984 13808
Y	2019 2019/01/01 14:10:00+00 2019/01/01 14:10:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019 2019 2019 2019 2019 2019 2019	12: 12252 03 - At intersection 12: 12252 02 - Intersection related	03 - P.D. only 02 - Non-fatal injury	02 - Angle 03 - Rear end	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366264.2684 5031006.876 45.41629772 -75.71467399 131 0 366264.1644 5031006.65 45.41629569 -75.71467535 3392
Y	2019 2019/03/21 09:20:00+00 2019/03/21 09:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001. 2019 2019/05/28 06:20:00+00 2019/05/28 06:20:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001.	12: 12252 U2 - Intersection related 12: 12252 02 - Intersection related	02 - Non-tatai injury 03 - P.D. only	04 - Sideswipe	01 - Clear 02 - Rain	01 - Daylight 01 - Daylight		01 - Traffic signal	01 - Functioning 01 - Functioning	0 366264.2234 5031006.83 45.41629734 -75.71467457 5744
Y	2019 2019/08/21 17:45:00+00 2019/08/21 17:45:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001:	12: 12252 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366264.3879 5031006.732 45.41629641 -75.71467248 8030
Υ	2019 2019/08/22 19:12:00+00 2019/08/22 19:12:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001:		03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366264.2384 5031006.753 45.41629661 -75.71467439 8076
Y	2019 2019/08/27 08:45:00+00 2019/08/27 08:45:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/08/24 07:29:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019 2019 2019 2019 2019 2019 2019	12: 12252 02 - Intersection related 12: 12252 02 - Intersection related	03 - P.D. only 03 - P.D. only	04 - Sideswipe 04 - Sideswipe	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366264.1485 5031006.726 45.41629637 -75.71467554 9154 0 366264.2451 5031006.678 45.41629593 -75.71467431 9919
Ý	2019 2019/08/27 06:50:00+00 2019/08/27 06:50:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001:		03 - P.D. only	05 - Turning movement	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366264.2078 5031006.748 45.41629657 -75.71467478 9997
Υ	2019 2019/08/27 08:38:00+00 2019/08/27 08:38:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001:		03 - P.D. only	05 - Turning movement	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366264.209 5031006.748 45.41629657 -75.71467476 10000
Y	2019 2019/10/19 06:56:00+00 2019/10/19 06:56:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/06/04 10:30:00+00 2019/06/04 10:30:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/06/04 10:30:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/06/04 10:30:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019 2019 2019 2019 2019 2019 2019	12: 12252 03 - At intersection 12: 12252 02 - Intersection related	02 - Non-fatal injury 03 - P.D. only	02 - Angle 03 - Rear end	01 - Clear 01 - Clear	03 - Dawn 01 - Davlight	01 - Dry	01 - Traffic signal	01 - Functioning 01 - Functioning	0 366264.0645 5031006.769 45.41629677 -75.71467661 11676 0 366264.1332 5031006.688 45.41629604 -75.71467574 14001
Y	2019 2019/06/04 10:30:00+00 2019/06/04 10:30:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019/11/27 14:00:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PRWY/WELLINGTON ST (001: 2019 2019 2019 2019 2019 2019 2019 2019		03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	01 - Clear 01 - Clear	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366264.3611 5031006.876 45.4162977 -75.7146728 14010
Ÿ	2019 2019/04/14 17:10:00+00 2019/04/14 17:10:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001:	12: 12252 02 - Intersection related	03 - P.D. only	03 - Rear end	02 - Rain	01 - Daylight	02 - Wet	01 - Traffic signal	01 - Functioning	0 366264.2745 5031006.601 45.41629524 -75.71467395 14285
Υ	2019 2019/12/30 17:51:00+00 2019/12/30 17:51:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001:	22: 12252 02 - Intersection related	02 - Non-fatal injury	03 - Rear end	04 - Freezing Rain	07 - Dark	04 - Slush	01 - Traffic signal	01 - Functioning	0 366264.9567 5031006.536 45.41629459 -75.71466524 14391
Y	2019 2019/12/21 13:34:00+00 2019/12/21 13:34:00+00 BOOTH ST @ SIR JOHN A. MACDONALD PKWY/WELLINGTON ST (001: 2019 2019/02/21 23:00:00+00 2019/02/21 23:00:00+00 BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV (_SVHJ3U)	12: 12252 02 - Intersection related 5VHJ3U 01 - Non intersection	03 - P.D. only 03 - P.D. only	05 - Turning movement 04 - Sideswipe	01 - Clear 01 - Clear		01 - Dry 02 - Wet	01 - Traffic signal 10 - No control	01 - Functioning	0 366264.0356 5031005.6 45.41628625 -75.71467712 14934 0 366166.189 5031222.885 45.41824991 -75.71590013 2124
Ÿ	2019 2019/02/24 07:02:00+00 2019/02/24 07:02:00+00 BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV (SVHJ3U)	5VHJ3U 01 - Non intersection	03 - P.D. only	07 - SMV other	04 - Freezing Rain		06 - Ice	10 - No control		0 366228.8533 5031095.914 45.41710196 -75.71511534 2193
Υ	2019 2019/12/21 12:00:00+00 2019/12/21 12:00:00+00 BOOTH ST btwn MIDDLE ST & VIMY PLACE PRIV (5VHJ3U)	5VHJ3U 07 - Overpass or bridge	02 - Non-fatal injury		01 - Clear	01 - Daylight		10 - No control		0 366129.92 5031270.151 45.41867838 -75.71635762 14932
Y	2019 2019/04/22 07:00:00+00 2019/04/22 07:00:00+00 BOOTH ST btwn OTTAWA RIVER PKWY & FLEET ST (SVHJ61) 2019 2019/09/17 06:30:00+00 2019/09/17 06:30:00+00 BOOTH ST btwn OTTAWA RIVER PKWY & FLEET ST (_SVHJ61)	5VHJ61 01 - Non intersection 5VHJ61 01 - Non intersection	03 - P.D. only 03 - P.D. only	04 - Sideswipe 04 - Sideswipe	01 - Clear 01 - Clear	01 - Daylight 03 - Dawn	01 - Dry 01 - Dry	10 - No control 10 - No control		0 366286.4937 5030956.785 45.41584506 -75.71439629 4541 0 366281.7139 5030967.471 45.41594163 -75.71445603 9027
Y	2019 2019/10/27 10:50:00+00 2019/10/27 10:50:00+00 BOOTH ST blwn VIMY PLACE PRIV & OTTAWA RIVER PKWY (_5VHJZ:		03 - P.D. only	03 - Rear end	01 - Clear 01 - Clear		01 - Dry	10 - No control		0 366258.6417 5031020.957 45.41642491 -75.71474412 11919
Y	2019 2019/04/10 15:35:00+00 2019/04/10 15:35:00+00 BOOTH ST btwn VIMY PLACE PRIV & OTTAWA RIVER PKWY (5VHJ2:	() _5VHJ2X 01 - Non intersection	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight	01 - Dry	10 - No control		0 366242.2096 5031063.401 45.41680825 -75.71494876 14281
Υ	2019 2019/03/14 06:01:00+00 2019/03/14 06:01:00+00 BOOTH ST btwn WELLINGTON ST & ALBERT ST (_3ZA2G1)	3ZA2G1	03 - P.D. only	04 - Sideswipe	01 - Clear		04 - Slush	10 - No control		0 366411.3301 5030661.251 45.41317495 -75.71283837 3752
Y	2019 2019/01/18 10:50:00+00 2019/01/18 10:50:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679) 2019 2019/01/20 15:14:00+00 2019/01/20 15:14:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 02 - Intersection related 1679 02 - Intersection related	03 - P.D. only 03 - P.D. only	03 - Rear end 03 - Rear end	03 - Snow 03 - Snow	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366768.7904 5030948.362 45.41572672 -75.70823571 286 0 366768.4681 5030948.622 45.41572909 -75.7082398 402
Ÿ	2019 2019/01/20 15:31:00+00 2019/01/20 15:31:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 02 - Intersection related	03 - P.D. only	03 - Rear end	03 - Snow	01 - Daylight	05 - Packed snow	01 - Traffic signal		0 366768.7211 5030948.706 45.41572982 -75.70823655 415
Υ	2019 2019/01/27 10:08:00+00 2019/01/27 10:08:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 03 - At intersection	03 - P.D. only	02 - Angle	03 - Snow		03 - Loose snow	01 - Traffic signal	01 - Functioning	0 366768.8223 5030948.486 45.41572784 -75.70823529 1261
Y	2019 2019/02/02 12:30:00+00 2019/02/02 12:30:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679) 2019 2019/02/25 08:55:00+00 2019/02/25 08:55:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 02 - Intersection related 1679 02 - Intersection related	03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	03 - Snow 01 - Clear	01 - Daylight 01 - Daylight	03 - Loose snow	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366768.4342 5030948.497 45.41572797 -75.70824024 1624 0 366768.8385 5030948.726 45.41572999 -75.70823505 2038
Y	2019 2019/02/13 09:55:00+00 2019/02/13 09:55:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 02 - Intersection related	03 - P.D. only	03 - Rear end	03 - Snow	01 - Daylight	04 - Slush	01 - Traffic signal	01 - Functioning 01 - Functioning	0 366768.7056 5030948.567 45.41572959 -75.70823505 2038
Υ	2019 2019/03/07 15:14:00+00 2019/03/07 15:14:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366768.7315 5030948.438 45.41572741 -75.70823645 3047
Y	2019 2019/05/17 08:30:00+00 2019/05/17 08:30:00+00 BRONSON AVE @ COMMISSIONER ST/SLATER ST (0001679)	1679 03 - At intersection	03 - P.D. only	05 - Turning movement	01 - Clear	01 - Daylight		01 - Traffic signal	01 - Functioning	0 366768.6877 5030948.577 45.41572867 -75.708237 5865
Y	2019 2019/02/21 07:57:00+00 2019/02/21 07:57:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072) 2019 2019/03/27 21:30:00+00 2019/03/27 21:30:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072)	9072 02 - Intersection related 9072 02 - Intersection related	02 - Non-fatal injury 03 - P.D. only	03 - Rear end 04 - Sideswipe	03 - Snow 01 - Clear	01 - Daylight 07 - Dark	04 - Slush 01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366516.3123 5031314.647 45.41904476 -75.7114154 2248 0 366516.0839 5031314.712 45.41904537 -75.71141831 3286
Y	2019 2019/03/21 21:26:00+00 2019/03/21 21:26:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072)	9072 02 - Intersection related	03 - P.D. only	03 - Rear end	02 - Rain	07 - Dark	02 - Wet	01 - Traffic signal	01 - Functioning	0 366516.1176 5031314.474 45.41904323 -75.7114179 3415
Υ	2019 2019/04/18 11:29:00+00 2019/04/18 11:29:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072)	9072 02 - Intersection related	03 - P.D. only	04 - Sideswipe	02 - Rain	01 - Daylight		01 - Traffic signal	00 - Unknown	0 366516.1941 5031314.834 45.41904645 -75.71141688 4484
Y	2019 2019/08/12 18:00:00+00 2019/08/12 18:00:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072) 2019 2019/10/11 22:47:00+00 2019/10/11 22:47:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072)	9072 02 - Intersection related 9072 02 - Intersection related	03 - P.D. only 03 - P.D. only	03 - Rear end 05 - Turning movement	02 - Rain 01 - Clear	01 - Daylight 07 - Dark	02 - Wet 01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 366516.0216 5031314.867 45.41904677 -75.71141908 8647 0 366516.069 5031314.476 45.41904324 -75.71141853 10715
Ÿ	2019 2019/06/11 12:55:00+00 2019/06/11 12:55:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072)	9072 02 - Intersection related 9072 02 - Intersection related	03 - P.D. only 03 - P.D. only	03 - Rear end	01 - Clear 01 - Clear		01 - Dry 01 - Dry	01 - Traffic signal	01 - Functioning 01 - Functioning	0 366516.0466 5031314.671 45.419045 -75.71141879 14023
Υ	2019 2019/01/21 12:01:00+00 2019/01/21 12:01:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072)	9072 02 - Intersection related	03 - P.D. only	07 - SMV other	01 - Clear	01 - Daylight	05 - Packed snow	01 - Traffic signal	01 - Functioning	0 366516.2708 5031314.58 45.41904416 -75.71141593 14738
Y	2019 2019/08/22 06:53:00+00 2019/08/22 06:53:00+00 OTTAWA RIVER PKWY @ PORTAGE BRIDGE (0009072) 2019 2019/03/13 17:30:00+00 2019/03/13 17:30:00+00 OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST (0005099)		03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning	0 36516.263 5031314.444 45.41904294 -75.71141605 14878 0 365156.8235 5030377.62 45.41073223 -75.72889952 4717
Y	2019 2019/03/13 17:30:00+00 2019/03/13 17:30:00+00 OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST (0005099) 2019 2019/08/16 07:46:00+00 2019/08/16 07:46:00+00 OTTAWA RIVER PKWY @ RIVER ST/SLIDELL ST (0005099)	5099 02 - Intersection related 5099 02 - Intersection related	03 - P.D. only 03 - P.D. only	04 - Sideswipe 03 - Rear end	03 - Snow 01 - Clear		05 - Packed snow 01 - Dry	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 365156.8235 5030377.62 45.41073223 -75.72889952 4717 0 365156.4237 5030377.635 45.4107324 -75.72890462 14867
Y	2019 2019/09/30 17:30:00+00 2019/09/30 17:30:00+00 OTTAWA RIVER PKWY @ VIMY PLACE PRIV (0012251)	12251 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 365973.9275 5030798.141 45.41444502 -75.71840922 10471
Υ	2019 2019/03/17 16:15:00+00 2019/03/17 16:15:00+00 OTTAWA RIVER PKWY @ VIMY PLACE PRIV (0012251)	12251 02 - Intersection related	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 365974.0473 5030798.043 45.41444412 -75.71840771 14009
Y	2019 2019/07/23 08:05:00+00 2019/07/23 08:05:00+00 OTTAWA RIVER PKWY @ VIMY PLACE PRIV (0012251) 2019 2019/05/03 10:28:00+00 2019/05/03 10:28:00+00 OTTAWA RIVER PKWY btwn VIMY PLACE PRIV & BOOTH ST (5VHJ2	12251 02 - Intersection related QE 5VHJ2QB 01 - Non intersection	03 - P.D. only 03 - P.D. only	03 - Rear end 04 - Sideswipe	01 - Clear 02 - Rain	01 - Daylight 01 - Daylight	01 - Dry 02 - Wet	01 - Traffic signal 10 - No control	01 - Functioning	0 365974.0957 5030798.06 45.41444427 -75.71840708 14359 0 366071.725 5030867.807 45.4150633 -75.71715117 14308
Ÿ	2019 2019/10/18 11:53:00+00 2019/10/18 11:53:00+00 OTTAWA RIVER PKWY OFFR-EB @ PARKDALE AVE (0011241)	11241 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight 01 - Daylight	01 - Dry	03 - Yield sign	01 - Functioning	0 364684.0505 5030331.791 45.41036048 -75.73494455 11650
Υ	2019 2019/06/20 12:30:00+00 2019/06/20 12:30:00+00 OTTAWA RIVER PKWY WB @ PARKDALE AVE WB ON RAMP (0011376) 11376 02 - Intersection related	03 - P.D. only	07 - SMV other	02 - Rain	01 - Daylight	02 - Wet	03 - Yield sign	01 - Functioning	0 364638.3144 5030469.151 45.41160033 -75.73551213 14048
Y	2019 2019/02/06 08:39:00+00 2019/02/06 08:39:00+00 PARKDALE AVE @ SCOTT ST (0002213)	2213 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear		03 - Loose snow	01 - Traffic signal	01 - Functioning	0 364949.7217 5029726.658 45.40489285 -75.73162457 1722
Y	2019 2019/02/22 15:30:00+00 2019/02/22 15:30:00+00 PARKDALE AVE @ SCOTT ST (0002213) 2019 2019/03/30 13:46:00+00 2019/03/30 13:46:00+00 PARKDALE AVE @ SCOTT ST (0002213)	2213 02 - Intersection related 2213 03 - At intersection	03 - P.D. only 02 - Non-fatal injury	03 - Rear end 05 - Turning movement	01 - Clear 02 - Rain	01 - Daylight 01 - Daylight		01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 364949.6092 5029726.317 45.40488979 -75.73162605 2141 0 364949.5477 5029726.714 45.40489337 -75.73162678 3357
Ÿ	2019 2019/04/16 09:15:00+00 2019/04/16 09:15:00+00 PARKDALE AVE @ SCOTT ST (0002213)	2213 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 364949.7023 5029726.608 45.4048924 -75.73162482 4599
Y	2019 2019/07/14 08:25:00+00 2019/07/14 08:25:00+00 PARKDALE AVE @ SCOTT ST (0002213)	2213 03 - At intersection	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 364949.7335 5029726.379 45.40489034 -75.73162445 7087
Y	2019 2019/10/08 11:00:00+00 2019/10/08 11:00:00+00 PARKDALE AVE @ SCOTT ST (0002213) 2019 2019/10/31 09:11:00+00 2019/10/31 09:11:00+00 PARKDALE AVE @ SCOTT ST (0002213)	2213 02 - Intersection related 2213 03 - At intersection	03 - P.D. only 03 - P.D. only	03 - Rear end 02 - Angle	01 - Clear 02 - Rain	01 - Daylight 01 - Daylight	U1 - Dry 02 - Wet	01 - Traffic signal 01 - Traffic signal	01 - Functioning 01 - Functioning	0 364949.6519 5029726.811 45.40489424 -75.73162544 10559 0 364949.8011 5029726.739 45.40489357 -75.73162354 11477
Ÿ	2019/10/31 09:11:00+00 2019/10/31 09:11:00+00 PARKDALE AVE @ SCOTT ST (0002213) 2019 2019/11/22 15:16:00+00 2019/11/22 15:16:00+00 PARKDALE AVE @ SCOTT ST (0002213)	2213 03 - At intersection 2213 02 - Intersection related	03 - P.D. only	02 - Angle 05 - Turning movement	02 - Kain 01 - Clear	01 - Daylight 01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning 01 - Functioning	0 364949.8011 5029726.739 45.40489357 -75.73162354 11477 0 364949.8214 5029726.408 45.40489059 -75.73162333 12180
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Y	2019 2019/01/16 00:00:00:00+00 2019/01/16 00:00:00+00 PARKDALE AVE btwn BURNSIDE AVE & LYNDALE AVE (3ZA32H)	3ZA32H	01 - Non intersection	03 - P.D. only	06 - SMV unattended vehicle	03 - Snow	00 - Unknown	04 - Slush	10 - No control		0 364853.56 5029948.291 45.40689531 -75.73282587 633
Y	2019 2019/01/24 22:00:00+00 2019/01/24 22:00:00+00 PARKDALE AVE btwn BURNSIDE AVE & LYNDALE AVE (3ZA32H)	3ZA32H	01 - Non intersection	03 - P.D. only	06 - SMV unattended vehicle	01 - Clear	07 - Dark	01 - Dry	10 - No control		0 364793.6364 5030086.203 45.40814135 -75.73357453 1418
Y	2019 2019/07/18 12:57:00+00 2019/07/18 12:57:00+00 PARKDALE AVE btwn LYNDALE AVE & SCOTT ST (_3ZA31W)	3ZA31W	04 - At/near private drive	03 - P.D. only	02 - Angle	01 - Clear	01 - Daylight	01 - Dry	10 - No control		0 364877.7554 5029892.617 45.40639229 -75.73252359 7600
Y	2019 2019/08/06 10:25:00+00 2019/08/06 10:25:00+00 PARKDALE AVE btwn LYNDALE AVE & SCOTT ST (_3ZA31W)	3ZA31W	04 - At/near private drive	02 - Non-fatal injury	07 - SMV other	01 - Clear	01 - Daylight	01 - Dry	10 - No control		1 364916.979 5029801.718 45.40557103 -75.73203365 8687
Y	2019 2019/02/02 13:42:00+00 2019/02/02 13:42:00+00 SCOTT ST btwn HILDA ST & BAYVIEW RD (3ZA32U)	3ZA32U	01 - Non intersection	03 - P.D. only	04 - Sideswipe	03 - Snow	01 - Daylight	03 - Loose snow	10 - No control		0 365514.9775 5030069.363 45.40792763 -75.72436224 1610
Y	2019 2019/12/31 06:30:00+00 2019/12/31 06:30:00+00 SCOTT ST btwn PARKDALE AVE & PINEHURST AVE (3ZA31U)	3ZA31U	04 - At/near private drive	03 - P.D. only	02 - Angle	03 - Snow	07 - Dark	03 - Loose snow	10 - No control		0 364962.4684 5029734.056 45.40495832 -75.73146085 14424
Y	2019 2019/06/25 16:50:00+00 2019/06/25 16:50:00+00 WELLINGTON ST @ LETT ST (0012269)	1226	9 02 - Intersection related	03 - P.D. only	03 - Rear end	01 - Clear	01 - Daylight	01 - Dry	01 - Traffic signal	01 - Functioning	0 366355.3951 5031111.272 45.41722903 -75.71349674 6753
Y	2019 2019/07/17 10:36:00+00 2019/07/17 10:36:00+00 WELLINGTON ST btwn TURN LANE & TO BE DETERMINED (3ZA2L9)	3ZA2L9	01 - Non intersection	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight	01 - Dry	10 - No control		0 366474.49 5031272.137 45.41866596 -75.71195505 7546
Y	2019 2019/05/21 08:05:00+00 2019/05/21 08:05:00+00 WELLINGTON ST btwn TURN LANE & TO BE DETERMINED (_3ZA2L9)	3ZA2L9	01 - Non intersection	03 - P.D. only	04 - Sideswipe	01 - Clear	01 - Daylight	01 - Dry	10 - No control		0 366630.6264 5031280.427 45.41872677 -75.70995917 14333

APPENDIX D: Adjacent Development TIAs

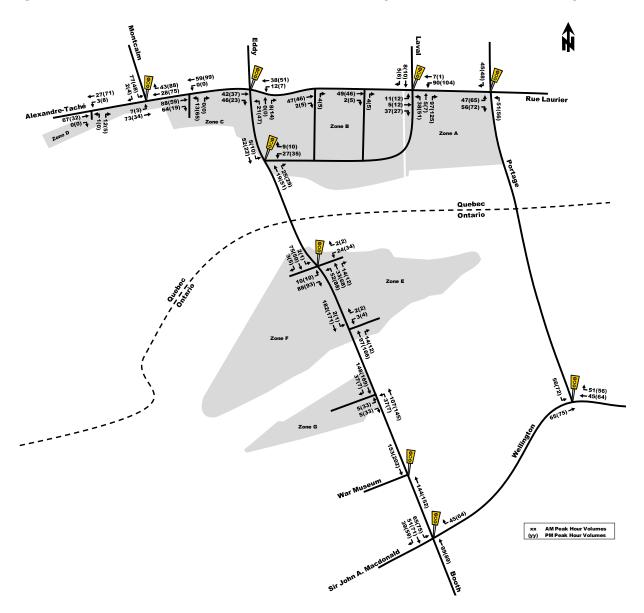


Figure 12: 'New' Site-Generated Traffic Volumes (Ottawa + Gatineau Sites)

5.4 Other Planned/Potential Development in the Vicinity of the Study Area

The Domtar lands are not the only site in this area of Gatineau and Ottawa that has development/redevelopment potential. The following Table 8 summarizes development sites identified by the Cities of Gatineau and Ottawa, as well their assumed development yield. Also included in this table are the assumptions used to estimate vehicle trips and the resultant peak hour vehicle trips. These being approximately 1000 vph two-way total during both peak hours for the Gatineau sites, and approximately 1300 vph two-way total during both peak hours for the Ottawa sites. Combining both provinces, the two-way peak hour total is approximately 2200 vph to 2400 vph.



Figure 9: Site Generated Traffic Volumes

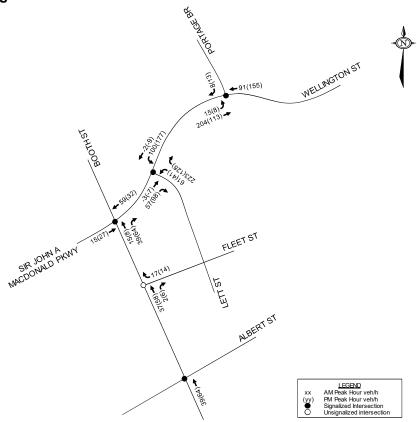
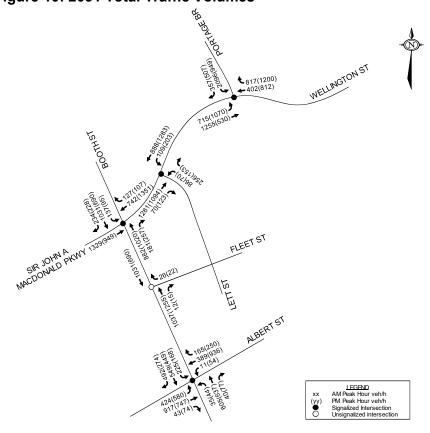


Figure 10: 2031 Total Traffic Volumes



Novatech Page 39

PARSONS

Albert Street
(Neilington)

Activities

April 1990

Ap

Figure 11: New and Pass-by Site-Generated Traffic Volumes - 2025

FUTURE TRAFFIC OPERATIONS

PROJECTED CONDITIONS AT FULL SITE DEVELOPMENT

The total projected volumes associated with the proposed development were derived by superimposing new and pass-by site-generated traffic volumes (Figure 10 and 11) onto projected background traffic volumes (Figure 7 and 8). The resulting total projected volumes for the horizon years 2020 and 2025 are illustrated as Figure 12 and 13, respectively.

As 1890|(373)

As 1890|(

Figure 12: Total Projected Peak Hour Traffic Volumes - 2020

APPENDIX E: Transportation Demand Management Checklist

Introduction

The City of Ottawa's *Transportation Impact Assessment (TIA) Guidelines* (specifically Module 4.3—Transportation Demand Management) requires proponents of qualifying developments to assess the context, need and opportunity for transportation demand management (TDM) measures at their development. The guidelines require that proponents complete the City's **TDM Measures Checklist**, at a minimum, to identify any TDM measures being proposed.

The remaining sections of this document are:

- Using the Checklist
- Glossary
- TDM Measures Checklist: Non-Residential Developments
- TDM Measures Checklist: Residential developments

Readers are encouraged to contact the City of Ottawa's TDM Officer for any guidance and assistance they require to complete this checklist.

Using the Checklist

The City's *TIA Guidelines* are designed so that *Module 3.1—Development-Generated Travel Demand*, *Module 4.1—Development Design*, and *Module 4.2—Parking* are complete before a proponent begins *Module 4.3—Transportation Demand Management*.

Within Module 4.3, *Element 4.3.1—Context for TDM* and *Element 4.3.2—Need and Opportunity* are intended to create an understanding of the need for any TDM measures, and of the results they are expected to achieve or support. Once those two elements are complete, proponents begin *Element 4.3.3—TDM Program* that requires proponents to identify proposed TDM measures using the **TDM Measures Checklist**, at a minimum. The *TIA Guidelines* note that the City may require additional analysis for large or complex development proposals, or those that represent a higher degree of performance risk; as well, proponents proposing TDM measures for a new development must also propose an implementation plan that addresses planning and coordination, funding and human resources, timelines for action, performance targets and monitoring requirements.

This **TDM Measures Checklist** document includes two actual checklists, one for non-residential developments (office, institutional, retail or industrial) and one for residential developments (multifamily, condominium or subdivision). Readers may download the applicable checklist in electronic format and complete it electronically, or print it out and complete it by hand. As an alternative, they may create a freestanding document that lists the TDM measures being proposed and provides additional detail on them, including an implementation plan as required by the City's *TIA Guidelines*.

Each measure in the checklist is numbered for easy reference. Each measure is also flagged as:

- BASIC —The measure is generally feasible and effective, and in most cases would benefit the development and its users.
- BETTER —The measure could maximize support for users of sustainable modes, and optimize development performance.
- The measure is one of the most dependably effective tools to encourage the use of sustainable modes.

Glossary

This glossary defines and describes the following measures that are identified in the **TDM Measures Checklist**:

TDM program management

- Program coordinator
- Travel surveys

Parking

Priced parking

Walking & cycling

- Information on walking/cycling routes & destinations
- Bicycle skills training
- Valet bike parking

Transit

- Transit information
- Transit fare incentives
- Enhanced public transit service
- Private transit service

Ridesharing

- Ridematching service
- Carpool parking price incentives
- Vanpool service

Carsharing & bikesharing

- Bikeshare stations & memberships
- Carshare vehicles & memberships

TDM marketing & communications

- Multimodal travel information
- Personalized trip planning
- Promotions

Other incentives & amenities

- Emergency ride home
- Alternative work arrangements
- Local business travel options
- Commuter incentives
- On-site amenities

For further information on selecting and implementing TDM measures (particularly as they apply to non-residential developments, with a focus on workplaces), readers may find it helpful to consult Transport Canada's *Workplace Travel Plans: Guidance for Canadian Employers*, which can be downloaded in English and French from the ACT Canada website at

www.actcanada.com/resources/act-resources.

► TDM program management

While some TDM measures can be implemented with a minimum of effort through routine channels (e.g. parking or human resources), more complex measures or a larger development site may warrant assigning responsibility for TDM program coordination to a designated person either inside or outside the implementing organization. Similarly, some TDM measures are more effective if they are targeted or customized for specific audiences, and would benefit from the collection of related information.

Program coordinator. This person is charged with day-to-day TDM program development and implementation. Only in very large employers with thousands of workers is this likely to be a full-time, dedicated position. Usually, it is added to an existing role in parking, real estate, human resources or environmental management. In practice, this role may be called TDM coordinator, commute trip reduction coordinator or employee transportation coordinator. The City of Ottawa can identify external resources (e.g. non-profit organizations or consultants) that could provide these services.

Travel surveys. Travel surveys are most commonly conducted at workplaces, but can be helpful in other settings. They identify how and why people travel the way they do, and what barriers and opportunities exist for different behaviours. They usually capture the following information:

- Personal data including home address or postal code, destination, job type or function, employment status (full-time, part-time and/or teleworker), gender, age and hours of work
- Commute information including distance or time for the trip between home and work, usual methods of commuting, and reasons for choosing them
- Barriers and opportunities including why other commuting methods are unattractive, willingness to consider other options, and what improvements to other options could make them more attractive

► Parking

Priced parking. Charging for parking is typically among the most effective ways of getting drivers to consider other travel options. While drivers may not support parking fees, they can be more accepting if the revenues are used to improve other travel options (e.g. new showers and change rooms, improved bicycle parking or subsidized transit passes). At workplaces or daytime destinations, parking discounts (e.g. early bird specials, daily passes that cost significantly less than the equivalent hourly charge, monthly passes that cost significantly less than the equivalent daily charge) encourage long-term parking and discourage the use of other travel options. For residential uses, unbundling parking costs from dwelling purchase, lease or rental costs provides an incentive for residents to own fewer cars, and can reduce car use and the costs of parking provision.

► Walking & cycling

Active transportation options like cycling and walking are particularly attractive for short trips (typically up to 5 km and 2 km, respectively). Other supportive factors include an active, health-conscious audience, and development proximity to high-quality walking and cycling networks. Common challenges to active transportation include rain, darkness, snowy or icy conditions, personal safety concerns, the potential for bicycle theft, and a lack of shower and change facilities for those making longer trips.

Information on walking/cycling routes & destinations. Ottawa, Gatineau and the National Capital Commission all publish maps to help people identify the most convenient and comfortable walking or cycling routes.

Bicycle skills training. Potential cyclists can be intimidated by the need to ride on roads shared with motor vehicles. This barrier can be reduced or eliminated by offering cycling skills training to interested cyclists (e.g. CAN-BIKE certification courses).

Valet bike parking. For large events, temporary "valet parking" areas can be easily set up to maximize convenience and security for cyclists. Experienced local non-profit groups can help.

► Transit

Transit information. Difficulty in finding or understanding basic information on transit fares, routes and schedules can prevent people from trying transit. Employers can help by providing online links to OC Transpo and STO websites. Transit users also appreciate visible maps and schedules of transit routes that serve the site; even better, a screen that shows real-time transit arrival information is particularly useful at sites with many transit users and an adjacent transit stop or station.

Transit fare incentives. Free or subsidized transit fares are an attractive incentive for non-transit riders to try transit. Many non-users are unsure of how to pay a fare, and providing tickets or a preloaded PRESTO card (or, for special events, pre-arranging with OC Transpo that transit fares are included with event tickets) overcome that barrier.

Enhanced public transit service. OC Transpo may adjust transit routes, stop locations, service hours or frequencies for an agreed fee under contract, or at no cost where warranted by the potential ridership increase. Information provided by a survey of people who travel to a given development can support these decisions.

Private transit service. At remote suburban or rural workplaces, a poor transit connection to the nearest rapid transit station can be an obstacle for potential transit users, and an employer in this situation could initiate a private shuttle service to make transit use more feasible or attractive. Other circumstances where a shuttle makes sense include large special events, or a residential development for people with limited independent mobility who still require regular access to shops and services.

► Ridesharing

Ridesharing's potential is greatest in situations where transit ridership is low, where parking costs are high, and/or where large numbers of car commuters (e.g. employees or full-time students) live reasonably far from the workplace.

Ridematching service. Potential carpoolers in Ottawa are served by www.OttawaRideMatch.com, an online service to help people find carpool partners. Employers can arrange for a dedicated portal where their employees can search for potential carpool partners only among their colleagues, if they desire. Some very large employers may establish internal ridematching services, to maximize employee uptake and corporate control. Ridematching service providers typically include a waiver to relieve employers of liability when their employees start carpooling through a ridematching service. Ridesharing with co-workers also tends to eliminate security concerns.

Carpool parking price incentives. Discounted parking fees for carpools can be an extra incentive to rideshare.

Vanpool service. Vanpools operate in the Toronto and Vancouver metropolitan areas, where vans that carry up to about ten occupants are driven by one of the vanpool members. Vanpools tend to operate on a cost-recovery basis, and are most practical for long-distance commutes where transit is not an option. Current legislation in Ontario does not permit third-party (i.e. private or non-profit) vanpool services, but does permit employers to operate internal vanpools.

► Carsharing & bikesharing

Bikeshare station & memberships. VeloGO Bike Share and Right Bike both operate bikesharing services in Ottawa. Developments that would benefit from having a bikeshare station installed at or near their development may negotiate directly with either service provider.

Carshare vehicles & memberships. VRTUCAR and Zipcar both operate carsharing services in Ottawa, for use by the general public or by businesses as an alternative to corporate fleets. Carsharing services offer 24-hour access, self-serve reservation systems, itemized monthly billings, and outsourcing of all financing, insurance, maintenance and administrative responsibilities.

► TDM marketing & communications

Multimodal travel information. Aside from mode-specific information discussed elsewhere in this document, multimodal information that identifies and explains the full range of travel options available to people can be very influential—especially when provided at times and locations where individuals are actively choosing among those options. Examples include: employees when their employer is relocating, or when they are joining a new employer; students when they are starting a program at a new institution; visitors or customers travelling to an unfamiliar destination, or when faced with new options (e.g. shuttle services or parking restrictions); and residents when they purchase or occupy a residence that is new to them.

Personalized trip planning. As an extension to the simple provision of information, this technique (also known as *individualized marketing*) is effective in helping people make more sustainable travel choices. The approach involves identifying who is most likely to change their travel choices (notably relocating employees, students or residents) giving them customized information, training and incentives to support them in making that change. It may be conducted with assistance from an external service provider with the necessary skills, and delivered in a variety of settings including workplaces and homes.

Promotions. Special events and incentives can raise awareness and encourage individuals to examine and try new travel options.

- Special events can help attract attention, build participation and celebrate successes. Events that have been held in Ottawa include Earth Day (in April) Bike to Work Month (in May), Environment Week (early June), International Car Free Day (September 22), and Canadian Ridesharing Week (October). At workplaces or educational institutions, similarly effective internal events could include workshops, lunch-and-learns, inter-departmental challenges, pancake breakfasts, and so on.
- Incentives can encourage trial of sustainable modes, and might include loyalty rewards for duration or consistency of activity (e.g. 1,000 km commuted by bicycle), participation prizes (e.g. for completing a survey or joining a special event), or personal recognition that highlights individual accomplishments.

► Other incentives & amenities

Emergency ride home. This measure assures non-driving commuters that they will be able to get home quickly and conveniently in case of family emergency (or in some workplaces, in case of unexpected overtime, severe weather conditions, or the early departure of a carpool driver) by offering a chit or reimbursement for taxi, carshare or rental car usage. Limits on annual usage or cost per employee may be set, although across North America the actual rates of usage are typically very low.

Alternative work arrangements. A number of alternatives to the standard 9-to-5, Monday-to-Friday workweek can support sustainable commuting (and work-life balance) at workplaces:

- Flexible working hours allow transit commuters to take advantage of the fastest and most convenient transit services, and allow potential carpoolers to include people who work slightly different schedules in their search for carpool partners. They also allow active commuters to travel at least one direction in daylight, either in the morning or the afternoon, during the winter.
- Compressed workweeks allow employees to work their required hours over fewer days (e.g. five days in four, or ten days in nine), eliminating the need to commute on certain days. For employees, this can promote work-life balance and gives flexibility for appointments. For employers, this can permit extended service hours as well as reduced parking demands if employees stagger their days off.
- Telework is a normal part of many workplaces. It helps reduce commuting activity, and can lead to significant cost savings through workspace sharing. Telework initiatives involve many stakeholders, and may face as much resistance as support within an organization. Consultation, education and training are helpful.

Local business travel options. A common obstacle for people who might prefer to not drive to work is that their employer requires them to bring a car to work so they can make business trips during the day. Giving employees convenient alternatives to private cars for local business travel during the workday makes walking, cycling, transit or carpooling in someone else's car more practical.

- Walking and cycling—Active transportation can be a convenient and enjoyable way to make short business trips. They can also reduce employer expenses, although they may require extra travel time. Providing a fleet of shared bikes, or reimbursing cyclists for the kilometres they ride, are inexpensive ways to validate their choice.
- Public transit—Transit can be convenient and inexpensive compared to driving.
 OC Transpo's PRESTO cards are transferable among employees and automatically reloadable, making them the perfect tool for enabling transit use during the day.
- *Ridesharing*—When multiple employees attend the same off-site meeting or event, they can be reminded to carpool whenever possible.
- Taxis or ride-hailing—Taxis and ride-hailing can eliminate parking costs, save time and eliminate collision liability concerns. Taxi chits eliminate cash transactions and minimize paperwork.
 - Fleet vehicles or carsharing—Fleet vehicles can be cost-effective for high travel volumes, while carsharing is a great option for less frequent trips.
 - o *Interoffice shuttles*—Employers with multiple worksites in the region could use a shuttle service to move people as well as mail or supplies.
 - Videoconferencing—New technologies mean that staying in the office to hold meetings electronically is more viable, affordable and productive than ever.

Commuter incentives. Financial incentives can help create a level playing field and support commuting by sustainable modes. A "commuting allowance" given to all employees as a taxable benefit is one such incentive; employees who choose to drive could then be charged for parking, while other employees could use the allowance for transit fares or cycling equipment, or for spending or saving. (Note that in the United States this practice is known as "parking cash-out," and is popular because commuting allowances are not taxable up to a certain limit). Alternatively, a monthly commuting allowance for non-driving employees would give drivers an incentive to choose a different commuting mode. Another practical incentive for active commuters or transit users is to offer them discounted "rainy day" parking passes for a small number of days each month.

On-site amenities. Developments that offer services to limit employees' need for a car during their commute (e.g. to drop off clothing at the dry cleaners) or during their workday (e.g. to buy lunch) can free employees to make the commuting decision that otherwise works best for them.

TDM Measures Checklist:

Non-Residential Developments (office, institutional, retail or industrial)

Legend The measure is generally feasible and effective, and in most cases would benefit the development and its users The measure could maximize support for users of sustainable modes, and optimize development performance The measure is one of the most dependably effective tools to encourage the use of sustainable modes

	TDM	measures: Non-residential developments	Check if proposed & add descriptions
	1.	TDM PROGRAM MANAGEMENT	
	1.1	Program coordinator	
BASIC	★ 1.1.1	Designate an internal coordinator, or contract with an external coordinator	To be determined by individual developers
	1.2	Travel surveys	
BETTER	1.2.1	Conduct periodic surveys to identify travel-related behaviours, attitudes, challenges and solutions, and to track progress	The NCC could commission a travel survey every 5 years during the development to gauge the effectiveness of measures.
	2.	WALKING AND CYCLING	
	2.1	Information on walking/cycling routes & destination	
BASIC	2.1.1	Display local area maps with walking/cycling access routes and key destinations at major entrances	This could be made to be a requirement of all developments in the LeBreton Flats area.
·	2.2	Bicycle skills training	
		Commuter travel	
BETTER	★ 2.2.1	Offer on-site cycling courses for commuters, or subsidize off-site courses	To be determined by individual developers
	2.3	Valet bike parking	
		Visitor travel	
BETTER	2.3.1	Offer secure valet bike parking during public events when demand exceeds fixed supply (e.g. for festivals, concerts, games)	To be determined by individual developers

	TDM	measures: Non-residential developments	Check if proposed & add descriptions
	3.	TRANSIT	
	3.1	Transit information	
BASIC	3.1.1	Display relevant transit schedules and route maps at entrances	This could be made to be a requirement of all developments in the LeBreton Flats area.
BASIC	3.1.2	Provide online links to OC Transpo and STO information	To be determined by individual developers
BETTER	3.1.3	Provide real-time arrival information display at entrances	This could be made to be a requirement of all developments in the LeBreton Flats area.
	3.2	Transit fare incentives	
		Commuter travel	
BETTER	3.2.1	Offer preloaded PRESTO cards to encourage commuters to use transit	To be determined by individual developers
BETTER ★	3.2.2	Subsidize or reimburse monthly transit pass purchases by employees	To be determined by individual developers
		Visitor travel	
BETTER	3.2.3	Arrange inclusion of same-day transit fare in price of tickets (e.g. for festivals, concerts, games)	To be determined by individual developers
	3.3	Enhanced public transit service	
		Commuter travel	Given the existing OC Transpo
BETTER	3.3.1	Contract with OC Transpo to provide enhanced transit services (e.g. for shift changes, weekends)	service in the area, it is assumed this will be ongoing throughout the development of LeBreton Flats.
		Visitor travel	Given the existing OC Transpo
BETTER	3.3.2	Contract with OC Transpo to provide enhanced transit services (e.g. for festivals, concerts, games)	service in the area, it is assumed this will be ongoing throughout the development of LeBreton Flats.
	3.4	Private transit service	
		Commuter travel	
BETTER	3.4.1	Provide shuttle service when OC Transpo cannot offer sufficient quality or capacity to serve demand (e.g. for shift changes, weekends)	To be determined by individual developers
		Visitor travel	
BETTER	3.4.2	Provide shuttle service when OC Transpo cannot offer sufficient quality or capacity to serve demand (e.g. for festivals, concerts, games)	To be determined by individual developers

	TDM	measures: Non-residential developments	Check if proposed & add descriptions
	4.	RIDESHARING	
	4.1	Ridematching service	
		Commuter travel	
BASIC	★ 4.1.1	Provide a dedicated ridematching portal at OttawaRideMatch.com	To be determined by individual developers
	4.2	Carpool parking price incentives	
		Commuter travel	
BETTER	4.2.1	Provide discounts on parking costs for registered carpools	This could be made to be a requirement of all developments in the LeBreton Flats area.
	4.3	Vanpool service	
		Commuter travel	
BETTER	4.3.1	Provide a vanpooling service for long-distance commuters	To be determined by individual developers
	5.	CARSHARING & BIKESHARING	
	5.1	Bikeshare stations & memberships	
BETTER	5.1.1	Contract with provider to install on-site bikeshare station for use by commuters and visitors	This could be made to be a requirement of all developments in the LeBreton Flats area.
		Commuter travel	
BETTER	5.1.2	Provide employees with bikeshare memberships for local business travel	To be determined by individual developers
	5.2	Carshare vehicles & memberships	
		Commuter travel	
BETTER	5.2.1	Contract with provider to install on-site carshare vehicles and promote their use by tenants	To be determined by individual developers
BETTER	5.2.2	Provide employees with carshare memberships for local business travel	To be determined by individual developers
	6.	PARKING	
	6.1	Priced parking	
		Commuter travel	
BASIC	★ 6.1.1	Charge for long-term parking (daily, weekly, monthly)	
BASIC	6.1.2	Unbundle parking cost from lease rates at multi-tenant sites	This could be made to be a requirement of all developments in
		Visitor travel	the LeBreton Flats area.
BETTER	6.1.3	Charge for short-term parking (hourly)	

	TDM	measures: Non-residential developments	(Check if proposed & add descriptions						
	7.	TDM MARKETING & COMMUNICATIONS								
	7.1	Multimodal travel information								
		Commuter travel								
BASIC *	7.1.1	Provide a multimodal travel option information package to new/relocating employees and students		To be determined by individual developers						
		Visitor travel								
BETTER ★	7.1.2	Include multimodal travel option information in invitations or advertising that attract visitors or customers (e.g. for festivals, concerts, games)		To be determined by individual developers						
	7.2	Personalized trip planning	ARKETING & COMMUNICATIONS Codal travel information							
		Commuter travel								
7. TDM M. 7.1 Multimo Commuter Package Visitor trav BETTER * 7.1.2 Include m invitations customer 7.2 Persona Commuter FETTER * 7.2.1 Offer persemployee 7.3 Promoti Commuter 7.3.1 Deliver proposed of sustain 8. OTHER 8.1 Emerge Commuter 8.2 Alternat Commuter 8.2 Alternat Commuter 8.2 Alternat Commuter 8.2 Encourage 8.2.1 Encourage 8.2.2 Encourage 8.2.2 Encourage 8.2.3 Encourage 8.3 Local by Commuter 8.4 Commuter 8.4 Commuter 8.5 On-site Commuter 8.5 On-site Commuter 8.6 On-site Commuter 8.7 On-site Commuter 8.7 On-site Commuter 8.8 On-site Commuter 8.9 On-site Commuter Commuter Commuter 8.9 On-site		Offer personalized trip planning to new/relocating employees		To be determined by individual developers						
	7.3	Promotions								
		Commuter travel								
BETTER	7.3.1	Deliver promotions and incentives to maintain awareness, build understanding, and encourage trial of sustainable modes		To be determined by individual developers						
	8.	OTHER INCENTIVES & AMENITIES								
	8.1	Emergency ride home								
		Commuter travel	:							
BETTER ★	8.1.1	Provide emergency ride home service to non-driving commuters		To be determined by individual developers						
	8.2	Alternative work arrangements								
		Commuter travel								
BASIC ★	8.2.1	Encourage flexible work hours		To be detained by						
BETTER	8.2.2	Encourage compressed workweeks		To be determined by individual developers						
BETTER ★	8.2.3	Encourage telework								
	8.3	Local business travel options								
		Commuter travel								
BASIC *	8.3.1	Provide local business travel options that minimize the need for employees to bring a personal car to work		To be determined by individual developers						
	8.4	Commuter incentives								
		Commuter travel								
BETTER	8.4.1	Offer employees a taxable, mode-neutral commuting allowance		To be determined by individual developers						
	8.5	On-site amenities								
		Commuter travel								
BETTER	8.5.1	Provide on-site amenities/services to minimize mid-day or mid-commute errands		mixed-use nature of LeBreton lats will provide a variety of amenities and services						

TDM Measures Checklist:

Residential Developments (multi-family, condominium or subdivision)

EASIC The measure is generally feasible and effective, and in most cases would benefit the development and its users The measure could maximize support for users of sustainable modes, and optimize development performance The measure is one of the most dependably effective tools to encourage the use of sustainable modes

	TDM	measures: Residential developments	Check if proposed & add descriptions						
	1.	TDM PROGRAM MANAGEMENT							
	1.1	Program coordinator							
BASIC *	1.1.1	Designate an internal coordinator, or contract with an external coordinator	To be determined by individual developers						
	1.2	Travel surveys							
BETTER	1.2.1	Conduct periodic surveys to identify travel-related behaviours, attitudes, challenges and solutions, and to track progress	The NCC could commission a travel survey every 5 years during the development to gauge the effectiveness of measures.						
	2.	WALKING AND CYCLING							
	2.1	Information on walking/cycling routes & des	tinations						
BASIC	2.1.1	Display local area maps with walking/cycling access routes and key destinations at major entrances (multi-family, condominium)	This could be made to be a requirement of all developments in the LeBreton Flats area.						
	2.2	Bicycle skills training							
BETTER	2.2.1	Offer on-site cycling courses for residents, or subsidize off-site courses	To be determined by individual developers						

	TDM	measures: Residential developments	Check if proposed & add descriptions
	3.	TRANSIT	
	3.1	Transit information	
BASIC	3.1.1	Display relevant transit schedules and route maps at entrances (multi-family, condominium)	This could be made to be a requirement of all developments in the LeBreton Flats area.
BETTER	3.1.2	Provide real-time arrival information display at entrances (multi-family, condominium)	This could be made to be a requirement of all developments in the LeBreton Flats area.
	3.2	Transit fare incentives	
BASIC #	3.2.1	Offer PRESTO cards preloaded with one monthly transit pass on residence purchase/move-in, to encourage residents to use transit	To be determined by individual developers
BETTER	3.2.2	Offer at least one year of free monthly transit passes on residence purchase/move-in	To be determined by individual developers
	3.3	Enhanced public transit service	
BETTER #	3.3.1	Contract with OC Transpo to provide early transit services until regular services are warranted by occupancy levels (subdivision)	Given the existing OC Transpo service in the area, it is assumed this will be ongoing throughout the development of LeBreton Flats.
	3.4	Private transit service	
BETTER	3.4.1	Provide shuttle service for seniors homes or lifestyle communities (e.g. scheduled mall or supermarket runs)	To be determined by individual developers
	4.	CARSHARING & BIKESHARING	
	4.1	Bikeshare stations & memberships	
BETTER	4.1.1	Contract with provider to install on-site bikeshare station (<i>multi-family</i>)	This could be made to be a requirement of all developments in the LeBreton Flats area.
BETTER	4.1.2	Provide residents with bikeshare memberships, either free or subsidized (multi-family)	To be determined by individual developers
	4.2	Carshare vehicles & memberships	
BETTER	4.2.1	Contract with provider to install on-site carshare vehicles and promote their use by residents	To be determined by individual developers
BETTER	4.2.2	Provide residents with carshare memberships, either free or subsidized	To be determined by individual developers
	5.	PARKING	
	5.1	Priced parking	
BASIC	5.1.1	Unbundle parking cost from purchase price (condominium)	This could be made to be a requirement of all developments in the LeBreton Flats area.
BASIC	5.1.2	Unbundle parking cost from monthly rent (multi-family)	This could be made to be a requirement of all developments in the LeBreton Flats area.

TDM	measures: Residential developments	Check if proposed & add descriptions										
6. TDM MARKETING & COMMUNICATIONS												
6.1	Multimodal travel information											
BASIC ★ 6.1.1	Provide a multimodal travel option information package to new residents		To be determined by individual developers									
6.2	Personalized trip planning											
BETTER ★ 6.2.1	Offer personalized trip planning to new residents		To be determined by individual developers									

APPENDIX F: MMLOS Analysis

Multi-Modal Level of Service - Segments Form

Project: LeBreton Flats TIA
Consultant: Morrison Hershfield now Stantec
Date: Oct 25, 2024
Sconario: (Wellington Street - Future Background, Conceptual

	Segment Name	W	ellington - Vimy to Le	ett, Future Backgrou	und		Wellington - Vimy	to Lett, Proposed					
	OP Transect / Policy Area		Within 600m of a ra	apid transit station		Within 600m of a rapid transit station							
	Segment Component	Majorit	y (>50%)	Cr	itical	Majorit	y (>50%)	Critical					
	Side of Street	W or N	E or S	W or N	E or S	W or N	E or S	W or N	E or S				
	PLOS Inputs												
	Posted Speed (km/h)	60	km/h	60) km/h	50	km/h	50 8	xm/h				
	Two-Way ADT	25	,000	21	5,000	30	,000	30,	000				
	Pedestrian Facility	Sidewalk	Sidewalk	_	-,	Sidewalk	Sidewalk						
		Cochair	Cidewan			oldewalk	Odewalk						
Pedestrian	Does the facility meet the TMP Sidewalk or MUP Policy? If not, for MUPs, is it outside of an anticipated high-volume area and does it have a low-to-moderate volume of pedestrians relative to cyclists (\$ 20%)?	Yes	Yes			Yes	Yes						
	Facility Width (m)	4.00m	4.00m			4.00m	4.00m						
4	Offset from Motor Vehicle Travel Lanes (m)	≥ 3.0m	≥ 3.0m			≥ 3.0m	≥ 3.0m						
	Presence of Adjacent Parking?	Yes	Yes			No	No						
	General Purpose Curb Lane ADT	> 3000	> 3000										
	Max. Distance between	≤ 200m	≤ 200m			≤ 200m	≤ 200m						
	Controlled Crossings (m) PLOS	В	В		_	Α	Α		_				
	Target PLOS												
	BLOS Inputs		,										
			Floring	de a una			Floor	da a a a					
	Cycling Route Classification		Elsev				Elsew						
	Cvcling Facility Is the minimum level of separation provided according to OTM Book 18 Pre-Selection Nomograph - Rural Context (Figure 5.6)? (for	Shared Operating Space	Shared Operating Space	Input PLOS First	Input PLOS First	Cycle Track	Cycle Track	Input PLOS First	Input PLOS First				
	paved shoulders)												
	Facility Operation		•			Unidirectional	Unidirectional						
	Pedestrian/Cyclist Volume	•	•			-	•						
G)	Facility Width					2.1-2.5m	2.1-2.5m						
Bicycle	Boulevard/Buffer Width (excluding curb)					0.6-0.99m	0.6-0.99m						
	Unsignalized Roadway Crossing Type	None	None			None	None						
	(where cyclists are required to yield) Number of Travel Lanes at Crossing												
	Crossing includes Median												
	Refuge (≥ 2.7m)	·	·				·						
	Cross-street Posted Speed (km/h) Cycling Path Blockages	Rare	Rare			Rare	Rare						
	(e.g. bus stops and/or loading zones)												
	BLOS	E	Е	•	-	A	Α		-				
	Target BLOS			3				3					
	TLOS Inputs												
	Transit Facility	Select Trans	t Designation			Select Trans	it Designation						
Transit	Facility Type												
T ra	Transit Travel Speed (Mixed Traffic Only)												
	TLOS		-			-	-						
	Target TLOS		-				-						
	PRLOS Inputs												
	Context	Mainstreet or active frontage street within a Hub, Special District, or Village	Mainstreet or active frontage street within a Hub, Special District, or Village			Mainstreet or active frontage street within a Hub, Special District, or Village	Mainstreet or active frontage street within a Hub, Special District, or Village						
	Inner Boulevard Width	2.0-3.99m	2.0-3.99m			0.6-1.19m	0.6-1.19m						
Ε	Middle Boulevard Width	≤ 0.5m	≤ 0.5m			0.5-1.49m	0.5-1.49m						
ealı	Outer Boulevard (Frontage) Width												
Public Realm	Transit Route on Segment?	No.	No			No.	No.						
ill ill ill		NO	NO			INO	NO						
_	Bus Stop Elements Number of Midblock Traffic Lanes						•						
	(both travel directions)		4				4						
	Design Speed (km/h)	70	km/h			60	km/h						
	PRLOS	С	С			В	В						
	PRLUS		C				В						

Multi-Modal Level of Service - Intersections Form

Project: LeBreton Flats TIA

Consultant: Morrison Hershfield now Stantec

Date: Oct 25, 2024

Scenario: Existing Conditions

	Intersection Name Wellington / Virny						Wellingto	on / Broad			Wellingto	on / Booth		Wellington / Lett				
	OP Transect / Policy Area		Within 600m of a r	apid transit station			Within 600m of a r	apid transit station			Within 600m of a r	apid transit station		Within 600m of a rapid transit station				
	PLOS Inputs																	
	Pedestrians Crossing the	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	
	Number of Travel Lanes Crossed	1-3	1-3	4	5	No Crosswalk	1-3	4	4	6	4	5	4	No Crosswalk	1-3	5	4	
	Median Refuge (>2.7m)	No	No	No	No		No	No	No	No	No	No	No		No	No	No	
	Crosswalk Treatment	Std Transverse Markings	Std Transverse Markings	Std Transverse Markings	Std Transverse Markings		Std Transverse Markings	Std Transverse Markings	Std Transverse Markings	Zebra Stripe Hi-Vis Markings	-	Std Transverse Markings	Std Transverse Markings	Std Transverse Markings				
	Signal Cycle Length (sec)		106	-120		106-120					106	i-120			100	6-120		
	Conflict with Right-Turn Vehicles (For PLOS & BLOS)	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	
	Right-Turn Geometry	Right-Turn With No Channel	No Right-Turn / Prohib.	No Right-Turn / Prohib.	Right-Turn With No Channel	No Right-Turn / Prohib.	No Right-Turn / Prohib.	No Right-Turn / Prohib.	No Right-Turn / Prohib.	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	
s	Right-Turn Signal Phasing	Permissive		•	Permissive					Permissive		Permissive	Permissive		Permissive	Permissive	-	
stri	Right-Turn Volume	≤ 150 veh/h		-	≤ 150 veh/h	-		-	-	≤ 150 veh/h		> 300 veh/h	≤ 150 veh/h	-	≤ 150 veh/h	≤ 150 veh/h	•	
) Bade	Right-Turn Effective Corner Radius	> 8m		•	> 8m	-		-		> 8m		≤ 8m	> 8m	-	≤ 8m	≤ 8m	•	
_	Cross-street Posted Speed (km/h)	60	km/h	41	l km/h	60	km/h			60	m/h	50	km/h	60	km/h	30 kg	n/h	
	Conflict with Left-Turn Vehicles (For PLOS & BLOS)	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	
	Left-Turn Signal Phasing	Perm or Prot+Perm	No Left-Turn / Prohib.	Perm or Prot+Perm	No Left-Tum / Prohib.	No Left-Turn / Prohib.	No Left-Turn / Prohib.	No Left-Turn / Prohib.	No Left-Turn / Prohib.	No Left-Turn / Prohib.	No Left-Turn / Prohib.	Perm or Prot+Perm	No Left-Turn / Prohib.	No Left-Turn / Prohib.	Perm or Prot+Perm	No Left-Turn / Prohib.	Perm or Prot+Perm	
	Left-Turn Volume	≤ 50 veh/h		≤ 50 veh/h		-						> 50 to 100 veh/h		-	≤ 50 veh/h		≤ 50 veh/h	
	Left-Turn Opposing Lanes	-				-	-	-		-	-	≥2	-	-	•	-	-	
	Score	3.60	3.90	3.40	2.75	-	3.90			2.15	3.45	2.00	3.30		3.75	2.75	3.40	
	PLOS	В	В	С	С	-	В	-	-	D	С	D	С	-	В	С	С	
	Target PLOS			<u> </u>				<u>В</u>				C .		C A				
	BLOS Inputs		<u> </u>	•				n.				•				^		
	Cycling Route Classification		Elsev	where			Else	where			Else	where						
	Cyclists Crossing the	North Lea	South Lea	East Leg	West Lea	North Leg South Leg East Leg West Leg				North Leg	South Leg	Fast Leg	WestLea	North Leg South Leg East Leg West Leg				
	Type of Cycling Facility Across Leg	Mixed Traffic	Mixed Traffic		Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Crossride	Crossride	Crossride	Crossride	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	
	Two-Way ADT on Adjacent Roadway	25,000 500				25	.000		1	21,	324		586	28,789 872				
	Floating Bike Lane or Right-Turn Lane Crossover Approaching the Crossing?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
	Crossride Operation									Unidirectional	Unidirectional	Unidirectional	Unidirectional					
흥	Target Crossride Setback Met?	-		-		-				Yes		Yes	Yes		-	-	-	
Bicy	Right-Turn Vehicle Volume from Adjacent Roadway > 100 veh/h?													-				
	Cyclist Left-Turn Operation	WBL	EBL	NBL	SBL	WBL	EBL	NBL	SBL	WBL	EBL	NBL	SBL	WBL	EBL	NBL	SBL	
	Cyclist Left-Turn Treatment Type	No Left-Turn	General Purpose Through-Left or Single Left-Turn Lane	No Left-Turn	General Purpose Through-Left or Single Left-Turn Lane	No Left-Turn	No Left-Turn	No Left-Turn	No Left-Turn	Protected Corner	Protected Corner	Protected Corner	Protected Corner	General Purpose Through-Left or Single Left-Turn Lane	No Left-Turn	General Purpose Through-Left or Single Left-Turn Lane	No Left-Turn	
	Vehicle Lanes Crossed by Cyclists		One Lane Crossed		No Lane Crossed									One Lane Crossed		No Lane Crossed		
	Score	80	60		130	100	100	150	150	140	150	60	140	60	90	130	150	
	BLOS	С	D	-	Α	В	В	Α	Α	Α	Α	D	Α	D	С	Α	Α	
			(<u> </u>				A				Α				В		
	Target BLOS			8				В				В				В		
	TLOS Inputs		Coloot T	it Designation			Calast T	t Decimation			10°	Traffic			Calant T	it Designation		
	Transit Facility		Select Transi	t Designation			Select Frans	it Designation			Mixea	Trattic			Select Irans	it Designation		
*	Venicles Travelling	Southbound	Northbound	Westbound	Eastbound	Southbound	Northbound	westbound	Eastbound	Southbound	Northbound	Westbound	Eastbound	Southbound	Northbound	Westbound	Eastbound	
rans	Average Transit Delay Example Transit Priority Treatment									21-35 sec	36-55 sec							
-	Countries Charles France Frances	-	-		-	-	-	-	-	c	D	-	-	_	-	-	-	
	TLOS							-				<u> </u>						
	Target TLOS	· ·						-										
	AutoLOS Inputs																	
2	Overall Intersection Volume to Capacity Ratio	0 to 0.60					0 to	0.60			0.71	to 0.80			0 tc	0.60		
Ā	AutoLOS		,	4			A				С				A			
	Target AutoLOS	E						E				E				Е		
														<u> </u>				

Multi-Modal Level of Service - Intersections Form

Project: LeBreton Flats TIA

Consultant: Morrison Hershfield now Stantec

Date: Oct 25, 2024

Scenario: Future Conditions

	Intersection Name	Wellington / Broad Wellington / Booth							Wellington / Lett									
	OP Transect / Policy Area		Within 600m of a r	apid transit station			Within 600m of a r	apid transit station			Within 600m of a	apid transit station			Within 600m of a	rapid transit station		
	PLOS Inputs																	
	Pedestrians Crossing the	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	
	Number of Travel Lanes Crossed	1-3	1-3	5	5	No Crosswalk	1-3	5	4	6	4	5	4	No Crosswalk	1-3	5	4	
	Median Refuge (>2.7m)	No	No	No	No	-	No	No	No	No	No	No	No		No	No	No	
	Crosswalk Treatment	Std Transverse Markings	Std Transverse Markings	Std Transverse Markings	Std Transverse Markings	-	Std Transverse Markings	Std Transverse Markings	Std Transverse Markings	Zebra Stripe Hi-Vis Markings	Zebra Stripe HI-Vis Markings	Zebra Stripe HI-Vis Markings	Zebra Stripe HI-Vis Markings		Std Transverse Markings	Std Transverse Markings	Std Transverse Markings	
	Signal Cycle Length (sec)		106	i-120			106	i-120			106	s-120			10	6-120		
	Conflict with Right-Turn Vehicles	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	
	Right-Turn Geometry	Right-Turn With No Channel	Right-Turn With No Channel	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	
_	Right-Turn Signal Phasing	Permissive	Permissive	Permissive	Permissive		Permissive	Permissive		Permissive		Permissive	Permissive		Permissive	Permissive		
tria	Right-Turn Volume	≤ 150 veh/h	≤ 150 veh/h	≤ 150 veh/h	≤ 150 veh/h		≤ 150 veh/h	≤ 150 veh/h		≤ 150 veh/h		> 150 to 300 veh/h	≤ 150 veh/h		≤ 150 veh/h	≤ 150 veh/h		
səpe	Right-Turn Effective Corner Radius	≤ 8m	≤ 8m	≤ 8m	≤ 8m		≤ 8m	≤ 8m		> 8m		≤ 8m	> 8m		≤ 8m	≤ 8m		
~	Cross-street Posted Speed (km/h)	50 km/h 40 km/h				50	km/h	40	km/h	50	em/h	50	km/h	50 8	mh	30 k	sm/h	
	Conflict with Left-Turn Vehicles	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	
	(For PLOS & BLOS) Left-Turn Signal Phasing	Perm or Prot+Perm (with	Perm or Prot+Perm (with	Perm or Prot+Perm (with	Perm or Prot+Perm (with	No Left-Turn / Prohib.	Fully Protected	No Left-Turn / Prohib.	Perm or Prot+Perm (with	No Left-Turn / Prohib.	No Left-Turn / Prohib.	Perm or Prot+Perm	No Left-Turn / Prohib.	No Left-Turn / Prohib.	Perm or Prot+Perm	No Left-Turn / Prohib.	Perm or Prot+Perm	
	Left-Turn Volume	centreline hardening and/or LPI) ≤ 50 veh/h	centreline hardening and/or LPI) > 50 to 100 veh/h	centreline hardening and/or LPI) ≤ 50 veh/h	centreline hardening and/or LPI) ≤ 50 veh/h	-	-	-	centreline hardening and/or LPI) ≤ 50 veh/h		-	> 100 veh/h			> 50 to 100 vehith		≤ 50 veh/h	
	Left-Turn Opposing Lanes	250 40111	> 50 ID 100 VERWI	230 (41)	230 161111				230 141111			- 100 40111			> 50 15 100 Verilii		3 30 161111	
	Score	3.75	3.60	2.75	2.75		3.75	2.75	3.40	2.30	3.45	2.45	3.30		3.55	2.75	3.40	
	555.5	В	В	C	С		R	C C	C	D	C	D	С		В.	C	С	
	PLOS			c c		-		C C				C E		_		C	·	
	Target PLOS							Δ.						A				
	BLOS Inputs		<u> </u>	<u>* </u>				<u>* </u>				<u>^ </u>				<u>^</u>		
	Cycling Route Classification		Elsev	where			Elsev	where			Else	where			Else	where		
	Cyclists Crossing the	North Lea	South Lea	East Leg	West Lea	North Leg South Leg East Leg West Leg				North Leg	South Lea	East Leg	Westlan	North Leg South Leg East Leg West Leg				
	Type of Cycling Facility Across Leg	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	Crosside	Crossride	Crossride	Crossride	Mixed Traffic	Mixed Traffic	Mixed Traffic	Mixed Traffic	
	Two-Way ADT on Adjacent Roadway	31,			392		1,392		000		324		800	31,		1,3		
	Floating Bike Lane or Right-Turn Lane	No No	No.	No No	No.	No.	No.	No No	No	No No	No No	No	No.	No.	No.	No.	No	
	Crossover Approaching the Crossing? Crossride Operation									Unidirectional	Unidirectional	Unidirectional	Unidirectional					
<u> </u>	Target Crossride Setback Met?									Yes	O Particional	Yes	Yes					
Bicyc	Right-Turn Vehicle Volume																	
	from Adjacent Roadway > 100 veh/h?		-	NAME OF THE OWNER OWNER OF THE OWNER OWNE		ALIEN .		No.			FBL		001	1000	-			
	Cyclist Leπ-I um Operation	General Purpose Through J eff or	General Purpose Through Left or	General Purpose Through-Left or	General Purpose Throughyl eff or	General Purpose Through Left o	General Purpose Through-Left or	General Purpose Through Left or	SBL	WBL		NBL	SBL	General Purpose Through-Left or	EBL	General Purpose Through-Left or	SBL	
	Cyclist Left-Turn Treatment Type	Single Left-Turn Lane	Single Left-Turn Lane	Single Left-Turn Lane	Single Left-Turn Lane	Single Left-Turn Lane	Single Left-Turn Lane	Single Left-Turn Lane	No Left-Turn	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Single Left-Turn Lane	No Left-Turn	Single Left-Turn Lane	No Left-Turn	
	Vehicle Lanes Crossed by Cyclists	One Lane Crossed	One Lane Crossed	No Lane Crossed	No Lane Crossed	One Lane Crossed	One Lane Crossed	No Lane Crossed		-			140	One Lane Crossed		No Lane Crossed		
	Score	50 D	20 E	130 A	130 A	D D	50 D	130 A	150 A	140 A	150 A	90 C	A A	D	50 D	130 A	150 A	
	BLOS			^	A	В		^ B	^	^		<u>С</u> А	<u> </u>	В		В	Α	
	Target BLOS			<u>.</u>												B		
	TLOS Inputs			-				-				•				<u> </u>		
	Transit Facility		Select Transi	it Designation			Select Trans	it Designation			Mixed	Traffic			Select Trans	it Designation		
	Vohiolos Travellins	Southbound	Northbound	Weethound	Factbound	Southbound	Northbound	Westbound	Eastbound	Southbound	Northbound	Weethound	Factbound	Southbound	Northhound	Westbound	Factbound	
*	Aurean Transi Dalan	Southbound	Northbound	Westbouliu	Lastound	Southboand	Northboand	Westboulid	Lastbound	21-35 sec	> 80 sec	Westbouliu	Lastbound	Southbound	Northboand	Westboard	Eastbound	
rans	Average Transit Delay Example Transit Priority Treatment									21-30 980	> 00 260							
-		-	-	-	-	-	-		-	С	F		-	-	-		-	
	TLOS							-			•	- D				-		
	Target TLOS	-										E						
	AutoLOS Inputs	·																
0	Overall Intersection Volume to Capacity Ratio		0 to	0.60			0 to	0.60			0.81	to 0.90		0 to 0.60				
Aut	Volume to Capacity Ratio AutoLOS	A					0 to 0.60 A					D		0 to 0.60				
	Target AutoLOS	E E						<u>-</u>				<u>-</u> E		A E				
	raiger Autocoo																	

Multi-Modal Level of Service - Intersections Form

Project: LeBreton Flats TIA

Consultant: Morrison Hershfield now Stantec

Date: Oct 25, 2024

Scenario: Proposed Conditions

	Intersection Name	Wellington / Broad					Wellingto	on / Booth		Wellington / Lett								
	OP Transect / Policy Area		Within 600m of a r	rapid transit station			Within 600m of a rapid transit station Within 600m of a rapid transit station							Within 600m of a rapid transit station				
	PLOS Inputs																	
	Pedestrians Crossing the	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	North Leg	South Leg	East Leg	West Leg	
	Number of Travel Lanes Crossed	1-3	1-3	5	5	No Crosswalk	1-3	5	4	6	4	5	4	No Crosswalk	1-3	5	4	
	Median Refuge (>2.7m)	No	No	No	No	-	No	No	No	No	No	No	No		No	No	No	
	Crosswalk Treatment	Zebra Stripe Hi-Vis Markings	Zebra Stripe Hi-Vis Markings	Zebra Stripe Hi-Vis Markings	Zebra Stripe Hi-Vis Markings	-	Zebra Stripe HI-Vis Markings	Zebra Stripe HI-Vis Markings	Zebra Stripe Hi-Vis Markings	Zebra Stripe Hi-Vis Markings	Zebra Stripe Hi-Vis Markings	Zebra Stripe HI-Vis Markings	Zebra Stripe Hi-Vis Markings		Zebra Stripe Hi-Vis Markings	Zebra Stripe Hi-Vis Markings	Zebra Stripe Hi-Vis Markings	
	Signal Cycle Length (sec)		106	5-120			106	-120			106	s-120			106	i-120		
	Conflict with Right-Turn Vehicles	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	WBR	EBR	NBR	SBR	
	Right-Turn Geometry	Right-Turn With No Channel	Right-Turn With No Channel	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	No Right-Turn / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Tum / Prohib.	Right-Turn With No Channel	Right-Turn With No Channel	No Right-Turn / Prohib.	
_	Right-Turn Signal Phasing	Permissive (with LPI/LBI)	Permissive (with LPI/LBI)	Permissive (with LPI/LBI)	Permissive (with LPI/LBI)		Protected-Permissive (with LPVLBI)	Protected-Permissive (with LPI/LBI)		Permissive (with LPI/LBI)		Permissive (with LPI/LBI)	Permissive (with LPI/LBI)		Permissive (with LPI/LBI)	Permissive (with LPI/LBI)		
퍞	Right-Turn Volume	≤ 150 veh/h	≤ 150 veh/h	≤ 150 veh/h	≤ 150 veh/h		≤ 150 veh/h	≤ 150 vehh		≤ 150 veh/h		> 150 to 300 veh/h	≤ 150 veh/h		≤ 150 veh/h	≤ 150 veh/h		
Sa des	Right-Turn Effective Corner Radius	≤ 8m	≤ 8m	≤ 8m	≤ 8m		≤ 8m	≤ 8m		> 8m		≤ 8m	> 8m		≤ 8m	≤ 8m		
~	Cross-street Posted Speed (km/h)	50 I	imh	40 I	km/h	50) km/h	40	km/h	50	m/h	50	km/h	50	km/h	30	km/h	
	Conflict with Left-Turn Vehicles	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	EBL	WBL	SBL	NBL	
	Left-Turn Signal Phasing	Perm or Prot+Perm (with	Perm or Prot+Perm (with centreline hardening and/or LPI)	Perm or Prot+Perm (with	Perm or Prot+Perm (with	No Left-Turn / Prohib.	Fully Protected	No Left-Turn / Prohib.	Perm or Prot+Perm (with	No Left-Turn / Prohib.	No Left-Turn / Prohib.	Perm or Prot+Perm (with	No Left-Turn / Prohib.	No Left-Turn / Prohib.	Perm or Prot+Perm (with	No Left-Turn / Prohib.	Perm or Prot+Perm (with	
	Left-Turn Volume	centreline hardening and/or LPI) ≤ 50 veh/h	centreline hardening and/or LPI) > 50 to 100 veh/h	centreline hardening and/or LPI) ≤ 50 veh/h	centreline hardening and/or LPI) ≤ 50 veh/h	-			centreline hardening and/or LPI) ≤ 50 veh/h			centreline hardening and/or LPI) > 100 veh/h			centreline hardening and/or LPI) > 50 to 100 veh/h		centreline hardening and/or LPI) ≤ 50 veh/h	
	Left-Turn Opposing Lanes	-	≥2			_						-			≥2			
	Score	3.95	3.80	2.95	2.95		3.95	2.95	3.45	2.45	3.45	2.65	3.45		3.80	2.95	3.45	
		В	В	С	С	-	В	С	С	D	С	С	С		В	С	С	
	PLOS			С								c				C		
	Target PLOS			A				A				A				A		
	BLOS Inputs																	
	Cycling Route Classification		Elsev	where			Elsev	vhere			Else	where		Elsewhere				
	Cyclists Crossing the	North Leg	South Leg	East Leg	West Leg	North Leg South Leg East Leg West Leg				North Leg South Leg East Leg West Leg				North Leg South Leg East Leg West Leg				
	Type of Cycling Facility Across Leg	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Crossride	Mixed Traffic	Mixed Traffic	
	Two-Way ADT on Adjacent Roadway	31,608 1,392				3	1,392	1,	000	30,324 25,800				31,932 1,308				
	Floating Bike Lane or Right-Turn Lane Crossover Approaching the Crossing?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
	Crossride Operation	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional	Unidirectional			
95	Target Crossride Setback Met?	Yes	Yes	No	No	-	Yes	No		Yes		Yes	Yes		Yes			
Bicy	Right-Turn Vehicle Volume from Adjacent Roadway > 100 veh/h?													-				
	Cyclist Left-Turn Operation	WBL	EBL	NBL	SBL	WBL	EBL	NBL	SBL	WBL	EBL	NBL	SBL	WBL	EBL	NBL	SBL	
	Cyclist Left-Turn Treatment Type	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	Protected Corner	
	Vehicle Lanes Crossed by Cyclists									-			-					
	Score	145	115	145	145	150	150	150	150	145	150	110	145	150	115	145	150	
	DI OO	A	В	Α	Α	Α	Α	Α	Α	Α	Α	В	Α	Α	В	Α	Α	
	BLOS			A				A				A				A		
	Target BLOS			В				3				В				В		
	TLOS Inputs																	
	Transit Facility		Select Trans	it Designation			Select Transi	t Designation			Mixed	Traffic			Select Trans	it Designation		
	Vehicles Travelling					Southbound				Southbound				Southbound			Eastbound	
nsit	Average Transit Delay									21-35 sec	> 80 sec							
Ta	Example Transit Priority Treatment																l	
	TLOS	-	-	-	•	-	-	-	-	С	F	•	-	-	•	-	•	
	1200			-				-				D				-		
	Target TLOS							-				E				-		
	AutoLOS Inputs																	
율	Overall Intersection Volume to Capacity Ratio			0.60			0 to					to 0.90		0 to 0.60				
₹	AutoLOS			A			А				D				A			
	Target AutoLOS	E				E						E		E				
				<u> </u>				<u> </u>				_						