

PARSONS

**Transportation Demand and Traffic Impact Study
Former Oakville–Trafalgar Memorial Hospital
Lands
Final Report**

January 2018

Prepared for:

Corporation of the Town of Oakville
1225 Trafalgar Road
Oakville, ON L6H 0H3



delivering a better world

January 29, 2018

Our Ref: [476475]

Corporation of the Town of Oakville
1225 Trafalgar Road
Oakville, ON, L6H 0H3

Attention: Lin Rogers, P. Eng.
Transportation Engineer, Engineering & Construction

**Re: Transportation Demand and Traffic Impact Study for the former Oakville-
Trafalgar Memorial Hospital Lands, Draft Report**

We are pleased to provide you a pdf copy of the Final Report completed Transportation Demand and Traffic Impact Study for the former Oakville-Trafalgar Memorial Hospital Lands.

If you would like any additional information or further clarifications on any aspect of our submission, please contact the undersigned at (905) 569-4122.

Yours truly,



Altaf Hussain P. Eng.
Project Manager

Report Prepared By:

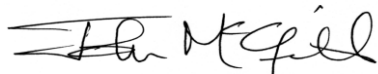


Altaf Hussain, P. Eng.
Senior Transportation Engineer



Matthew DiMaria
Traffic Technologist

Report Reviewed By:



John McGill, P. Eng., PTOE
Program Director, Transportation

List of Revisions:

VERSION	DATE	DESCRIPTION
1	December 2017	Draft for Review
2	January 2018	Final Report

Table of Contents

- 1. BACKGROUND 1
 - 1.1 STUDY AREA AND ANALYSIS SCOPE OF WORK..... 1
- 2. EXISTING (2017) TRAFFIC CONDITIONS..... 2
 - 2.1 ANALYSIS APPROACH AND TOOLS..... 2
 - 2.2 EXISTING (2017) TRAFFIC AND PEDESTRIAN VOLUMES..... 4
 - 2.3 STUDY AREA INTERSECTION CONTROLS AND LANE CONFIGURATIONS 4
 - 2.4 EXISTING (2017) INTERSECTION OPERATIONS 4
- 3. TRAFFIC VOLUME VARIATION BEFORE AND AFTER RELOCATION OF HOSPITAL..... 8
- 4. PROPOSED FUTURE REDEVELOPMENT 9
- 5. FUTURE REDEVELOPMENT SITE GENERATED TRAFFIC..... 10
 - 5.1 FUTURE REDEVELOPMENT SITE GENERATED TRAFFIC VOLUMES 10
 - 5.2 TRIP DISTRIBUTION AND ASSIGNMENT 10
- 6. FUTURE TOTAL (2025) TRAFFIC CONDITIONS 12
 - 6.1 FUTURE TOTAL (2025) TRAFFIC VOLUMES 12
 - 6.2 FUTURE TOTAL (2025) INTERSECTION OPERATIONS 12
- 7. ACTIVE TRANSPORTATION & TRANSIT..... 16
 - 7.1 PEDESTRIAN FACILITIES..... 16
 - 7.2 CYCLING FACILITIES..... 17
 - 7.3 TRANSIT..... 17
- 8. REVIEW OF EXISTING ROADWAYS RIGHT-OF-WAY 19
 - 8.1 MACDONALD ROAD 19
 - 8.2 REYNOLDS STREET 19
 - 8.3 ALLAN STREET 19
- 9. PROPOSED ROADWAYS RIGHT-OF-WAY 21
 - 9.1 MACDONALD ROAD 21
 - 9.2 REYNOLDS STREET 22
 - 9.3 ALLAN STREET 22
- 10. ANALYSIS CONCLUSIONS AND RECOMMENDATIONS..... 24

LIST OF FIGURES

Figure 1: Study Area and Study Intersections 1
 Figure 2: Existing (2017) Intersection Volumes, AM and PM Peak Hours4
 Figure 3: Existing (2017) Pedestrian Intersection Crossing Volumes, AM and PM Peak Hours4
 Figure 4: Existing Intersection Lane Configurations and Controls4
 Figure 5: Historical Intersection Volumes, AM and PM Peak Hours8
 Figure 6: Variation in Intersection Volumes Without and With Hospital, AM and PM Peak Hours8
 Figure 7: Figure of Master Plan for Former Hospital Site 9
 Figure 8: Proposed Trip Distribution10
 Figure 9: Estimated Site Traffic Volumes, AM and PM Peak Hours10
 Figure 10: Future Total (2025) Intersection Volumes, AM and PM Peak Hours.....12
 Figure 11: Existing Sidewalk Facilities within Study Area16
 Figure 12: Proposed Cycling Facilities within the Study Area17
 Figure 13: Snapshot of Oakville Transit Weekday Route Map18
 Figure 14: Approximate Locations of Existing Transit Stops18
 Figure 15: Typical Section - MacDonald Road21
 Figure 16: Typical Section – Reynolds Street22
 Figure 17: Typical Section – Allan Street23

LIST OF TABLES

Table 1: Signalized Intersection Level of Service Characteristics 2
 Table 2: Unsignalized Intersection Level of Service Characteristics 3
 Table 3: Summary of Existing (2017) Intersection Operations, AM and PM Peak Hours 5
 Table 4: Weekday AM and PM Peak Hour Site Generated Traffic Volumes11
 Table 5: Summary of Future Total (2025) Intersection Operations12

LIST OF APPENDICIES

- Appendix A: Existing (2017) Traffic Volume Data
- Appendix B: Existing (2017) Traffic Analysis – Synchro Outputs Sheets
- Appendix C: Future Total (2025) Traffic Analysis – Synchro Outputs Sheets
- Appendix D: Study Area Roadways Functional Plan and Typical Sections

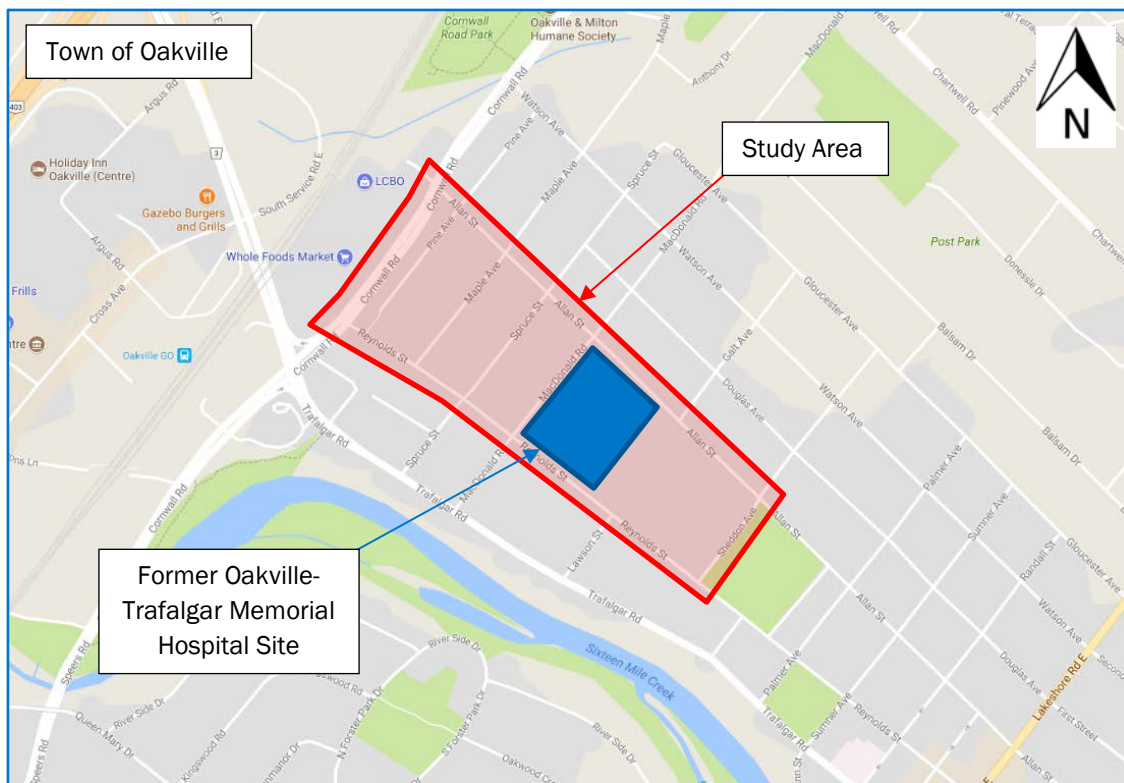
1. BACKGROUND

Parsons was retained by the Town of Oakville to complete a Transportation Demand and Traffic Impact Study for the proposed redevelopment of the former Oakville-Trafalgar Memorial Hospital lands located at 327 Reynolds Street. As outlined in the Town’s Official Plan (Livable Oakville) with the overall Master Plan endorsed in June 2017, the approximately 5.6 hectares site is proposed to contain a new Community Centre, a neighbourhood Park and several other residential land uses including low to medium densities residential and seniors-oriented housing.

1.1 STUDY AREA AND ANALYSIS SCOPE OF WORK

The study area is bounded by MacDonal Road/Cornwall Road to the north, Allan Street to the east, Reynolds Street to the west and Sheddon Avenue to the south. The study area is illustrated in **Figure 1**.

Figure 1: Study Area and Study Intersections



In order to complete the Transportation Demand and Traffic Impact Study, the following tasks were completed:

- Conduct site visit to gather existing intersection lane configurations and roadway posted speeds;
- Collect and review traffic data collected for the study area intersections including pedestrian and cyclist volumes;
- Assess the existing traffic conditions for the morning and afternoon peak hours using the Synchro software. Summarize the analysis results including level of service, delays and volumes-to-capacity ratios for the study intersections and critical movements;

- Develop an appropriate traffic growth factor in consultation with the Town and estimate intersection volumes for the 5-year horizon following construction of the proposed Community Centre;
- Undertake traffic signal warrant/justification where required using the criteria set out in the Ontario Traffic Manual (OTM) Book 12 and future intersection peak hour volumes;
- Undertake the future traffic operations and summarize the analysis results including delay, level of service and volumes-to-capacity ratios for the study intersections and critical movements;
- Review the existing and future planned Active Transportation and Transit facilities within the study area;
- Identify pedestrian crossing locations within the study area and undertake warrants for the installation of pedestrian crossings if required;
- Address alternative transportation modes and transportation demand management options for the site with new land uses;
- Review the existing roadway ROW for MacDonald Road, Reynolds Street and Allen Street and identify any deficiencies;
- Meet with the Town staff to present the draft analysis results;
- Prepare Draft Study Report summarizing the findings; and
- Finalize the draft report by incorporating the review comments received from the Town.

2. EXISTING (2017) TRAFFIC CONDITIONS

2.1 ANALYSIS APPROACH AND TOOLS

The traffic analysis conducted for this study considers the capacity and level of service for intersections. Intersections were analyzed using the procedures of the Highway Capacity Manual (HCM) methodologies for signalized and unsignalized intersections, as implemented in the Synchro / SimTraffic 9.0 software developed by Trafficware.

Level of Service (LOS) can be characterized for the each intersection approach and each lane group. Control delay alone is used to characterize LOS for the entire intersection or an approach. Control delay and volume-to-capacity (V/C) ratio are used to characterize LOS for a lane group. Delay quantifies the variations in travel time due to traffic signal control. It is also a surrogate measure of driver discomfort and fuel consumption. The volume-to-capacity (V/C) ratio quantifies the degree to which the capacity of each signal phase is utilized by a defined lane group. **Table 1** summarizes the characteristics of each level of service at signalized intersections.

Table 1: Signalized Intersection Level of Service Characteristics

LEVEL OF SERVICE	FEATURES	CONTROL DELAY (SEC/VEH)
A	Describes operations with very low control delay, up to 10 seconds/ vehicle. This level of service occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all at this LOS. Short cycle lengths may also contribute to low delay.	≤ 10
B	Describes operations with control delay greater than 10 seconds and up to	> 10 to 20

LEVEL OF SERVICE	FEATURES	CONTROL DELAY (SEC/VEH)
	20 seconds/vehicle. This level generally occurs with good progression, short cycle lengths, or both. More vehicles stop at this level than at LOS A, causing longer average delays.	
C	Describes operations with control delay greater than 20 seconds and up to 35 seconds/vehicle. These higher delays may result from fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant, though many still pass through the intersection without stopping.	> 20 to 35
D	Describes operations with control delay greater than 35 seconds and up to 55 seconds/vehicle. At level D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavourable progression, long cycle lengths, or high v/c ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures become noticeable.	> 35 to 55
E	Describes operations with control delay greater than 55 seconds and up to 80 seconds/vehicle. This level is considered by many agencies to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent occurrences.	> 55 to 80
F	LOS F describes operations with control delay in excess of 80 seconds/vehicle. This <i>oversaturation</i> , considered to be unacceptable to most drivers, occurs when arrival flow rates exceed the design capacity of the intersection. It may also occur at high v/c ratios below 1.0 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing factors to such high delay levels.	> 80

Source: Highway Capacity Manual (HCM) 2000

The LOS criteria for unsignalized intersections are somewhat different from the criteria for signalized intersections because perceptions of facility users differ. The expectation is that a signalized intersection is designed to carry higher traffic volumes and will present greater delay than an unsignalized intersection. Unsignalized intersections are also associated with more uncertainty for users, as delays are less predictable than at signalized junctions. This uncertainty can reduce driver’s delay tolerance. **Table 2** summarizes the characteristics of each level of service at unsignalized intersections.

Table 2: Unsignalized Intersection Level of Service Characteristics

LEVEL OF SERVICE	EXPECTED DELAY TO MINOR STREET TRAFFIC	AVERAGE CONTROL DELAY ‘D’ (SEC/VEH)
A	Little or no delays	0 < Delay ≤ 10
B	Short traffic delays	10 < Delay ≤ 15

LEVEL OF SERVICE	EXPECTED DELAY TO MINOR STREET TRAFFIC	AVERAGE CONTROL DELAY 'D' (SEC/VEH)
C	Average traffic delays	15 < Delay ≤ 25
D	Long traffic delays	25 < Delay ≤ 35
E	Very long traffic delays	35 < Delay ≤ 50
F	Extreme delays with queuing which may cause congestion affecting other traffic movements in the intersection	Delay > 50

Source: Highway Capacity Manual (HCM) 2000

2.2 EXISTING (2017) TRAFFIC AND PEDESTRIAN VOLUMES

Existing (2017) traffic and pedestrian volumes for the study area intersections were established using current turning movement data (TMC) collected by Pyramid Traffic Inc. during the month of September 2017. The raw traffic and pedestrian data collected can be found in **Appendix A**.

The existing (2017) traffic and pedestrian volumes recorded for the study area intersections during the weekday AM and PM peak hours are presented in **Figure 2** and **Figure 3**, placed following the report.

2.3 STUDY AREA INTERSECTION CONTROLS AND LANE CONFIGURATIONS

There are a total of thirteen (13) intersections included as part of the traffic analysis study area. Of the thirteen intersections, four (4) are currently under signalized control while the remaining nine (9) are unsignalized intersections. The existing intersection traffic controls and lane configurations for the study area intersections are presented in **Figure 4**, placed following the report.

2.4 EXISTING (2017) INTERSECTION OPERATIONS

Capacity analyses completed for the study area intersections for the existing (2017) weekday AM and PM peak hours were completed using the Synchro/SimTraffic software. It was noted that the signalized intersection of the MacDonald Road with Reynolds Street currently contains an advance southbound left turn phase that was included to provide priority to the former hospital employees and patrons. The results of this analysis are summarized in **Table 3** while the Synchro output sheets are provided in **Appendix B**.

Table 3: Summary of Existing (2017) Intersection Operations, AM and PM Peak Hours

Intersections	AM Peak Hour			PM Peak Hour		
	LOS [Delay (s)]	V/C	95 th tile Queue (m)	LOS [Delay (s)]	V/C	95 th tile Queue (m)
Trafalgar Rd. & Cornwall Rd. (Signalized)	D [37]	0.66	–	D [38]	0.68	–
EBLL	E [69]	0.80	66	E [68]	0.79	66
EBTT&R	D [47]	0.58	81	D [46]	0.47	64
WBL	E [64]	0.13	13	E [60]	0.24	26
WBTT	E [69]	0.67	71	E [73]	0.73	85
WBR	A [1]	0.39	11	A [1]	0.45	15
NBL	C [32]	0.18	13	C [31]	0.15	12
NBTT&R	D [40]	0.39	63	D [42]	0.52	83
SBLL	D [46]	0.62	92	D [50]	0.67	#105
SBT	C [25]	0.57	153	C [26]	0.56	154
SBR	B [19]	0.26	34	B [20]	0.23	31
Reynolds St. & Cornwall Rd. (Signalized)	A [7]	0.35	–	A [9]	0.42	–
EBL&TT	A [6]	0.34	72	A [6]	0.36	60
EBR	B [10]	0.04	6	B [10]	0.05	6
WBL	A [2]	0.09	4	A [3]	0.12	7
WBTT&R	A [3]	0.33	36	A [4]	0.41	56
NBL	E [63]	0.41	26	E [61]	0.52	38
NBT&R	E [59]	0.07	12	E [56]	0.10	17
SBL	E [59]	0.03	5	E [55]	0.06	8
SBT&R	E [59]	0.04	9	E [55]	0.08	15
Allan St. & Cornwall Rd. (Signalized)	C [24]	0.40	–	C [24]	0.43	–
EBL	C [20]	0.13	8	C [27]	0.31	14
EBTT&R	C [25]	0.62	87	C [24]	0.55	76
WBL	C [20]	0.15	9	C [21]	0.19	12
WBTT&R	C [25]	0.60	85	C [28]	0.71	106
NBL	B [16]	0.21	27	B [15]	0.14	18
NBT&R	B [14]	0.06	11	B [14]	0.06	10
SBL	B [15]	0.07	11	B [16]	0.18	23

Intersections	AM Peak Hour			PM Peak Hour		
	LOS [Delay (s)]	V/C	95 th tile Queue (m)	LOS [Delay (s)]	V/C	95 th tile Queue (m)
SBT&R	B [14]	0.02	6	B [14]	0.07	12
Reynolds St. & MacDonald Rd. (Signalized)	B [13]	0.10	-	B [12]	0.10	-
EBL&T&R	C [29]	0.23	12	C [30]	0.20	11
WBL&T&R	C [29]	0.24	11	C [31]	0.30	14
NBL&T&R	A [2]	0.05	4	A [3]	0.08	8
SBL&T&R	A [2]	0.07	7	A [2]	0.08	8
Trafalgar Rd. & MacDonald Rd. (Unsignalized)	[1]	-	-	[1]	-	-
WBL&R	B [15]	0.09	2	C [15]	0.14	4
NBT&R	A [0]	0.26	0	A [0]	0.34	0
SBL&T	A [1]	0.03	1	A [1]	0.03	1
Allan St. & MacDonald Rd. (Unsignalized)	[1]	-	-	[8]	-	-
EBL&T&R	A [8]	-	-	A [8]	-	-
WBL&T&R	A [8]	-	-	A [8]	-	-
NBL&T&R	A [8]	-	-	A [8]	-	-
SBL&T&R	A [8]	-	-	A [8]	-	-
Allan St. & Hospital/Galt Ave. (Unsignalized)	[1]	-	-	[0]	-	-
EBL&T&R	A [0]	0.00	0	A [0]	0.00	0
WBL&T&R	A [9]	0.01	0	A [9]	0.00	0
NBL&T&R	A [0]	0.00	0	A [0]	0.00	0
SBL&T&R	A [0]	0.00	0	A [0]	0.00	0
Allan St. & Sheddon Ave. (Unsignalized)	[1]	-	-	[1]	-	-
EBL&T&R	A [10]	0.01	0	A [10]	0.02	0
WBL&T&R	A [10]	0.01	0	B [10]	0.01	0
NBL&T&R	A [0]	0.00	0	A [0]	0.00	0
SBL&T&R	A [0]	0.00	0	A [0]	0.00	0

Intersections	AM Peak Hour			PM Peak Hour		
	LOS [Delay (s)]	V/C	95 th tile Queue (m)	LOS [Delay (s)]	V/C	95 th tile Queue (m)
Reynolds St. & Sheddon Ave. (Unsignalized)	[1]	-	-	[1]	-	-
WBL&R	A [9]	0.01	0	A [9]	0.00	0
NBT&R	A [0]	0.03	0	A [0]	0.07	0
SBL&T	A [1]	0.01	0	A [1]	0.01	0
Reynolds St. & Freestone Ln. (Unsignalized)	[1]	-	-	[1]	-	-
EBL&T&R	A [10]	0.01	0	A [9]	0.01	0
WBL&T&R	A [0]	0.00	0	A [9]	0.00	0
NBL&T&R	A [1]	0.00	0	A [0]	0.00	0
SBL&T&R	A [0]	0.00	0	A [0]	0.00	0
Trafalgar Rd. & Freestone Ln. (Unsignalized)	[0]	-	-	[0]	-	-
WBL&R	A [10]	0.00	0	B [12]	0.01	0
NBT&R	A [0]	0.16	0	A [0]	0.26	0
SBL&T	A [0]	0.00	0	A [0]	0.01	0
Trafalgar Rd. & Lawsons St. (Unsignalized)	[0]	-	-	[0]	-	-
WBL&R	B [10]	0.02	0	B [12]	0.04	1
NBT&R	A [0]	0.17	0	A [0]	0.27	0
SBL&T	A [0]	0.01	0	A [0]	0.01	0
Reynolds St. & Lawsons St. (Unsignalized)	[1]	-	-	[2]	-	-
EBL&T&R	A [9]	0.02	0	A [10]	0.02	0
WBL&T&R	B [10]	0.00	0	A [9]	0.02	0
NBL&T&R	A [1]	0.01	0	A [1]	0.01	0
SBL&T&R	A [0]	0.00	0	A [0]	0.00	0

As shown in **Table 3**, under existing (2017) traffic conditions, all of the study area intersections are operating satisfactorily with no issues that would require the need for intersection improvements.

3. TRAFFIC VOLUME VARIATION BEFORE AND AFTER RELOCATION OF HOSPITAL

As part of the study, a comparison of the study area intersection traffic volumes was completed to determine the variation between volumes during operations of the former Oakville-Trafalgar Memorial Hospital and the current conditions. The summaries of the historical intersection volumes collected in various years are presented in **Figure 5**, and the variation in the intersection volumes without and with the hospital are presented in **Figure 6**, both placed following the report.

A comparison between the historical and current traffic volumes indicates that overall traffic volumes within the study area have generally decreased. A quick summary of the average reductions in hourly volumes (volumes in brackets for PM peak hour) between the intersections which have occurred for each of the roadways surrounding the former hospital lands is as follows:

- MacDonald Road: 35 (36) trips in EB direction and 13 (20) in the WB direction
- Allan Street: 35 (70) trips in the NB direction and 60 (25) in SB direction
- Reynolds Street: 100 (170) in the NB direction and 225 (100) in SB direction
- Trafalgar Road: 20 (85) in the NB direction and 25(25) in SB direction
- Cornwall Road section between Reynolds and Allan Streets: 70 (0) in the EB direction and 40 (30) in the WB direction
- Cornwall Road section between Trafalgar Road and Reynolds Street: 350 (150) in the EB direction and 80 (180) in the WB direction

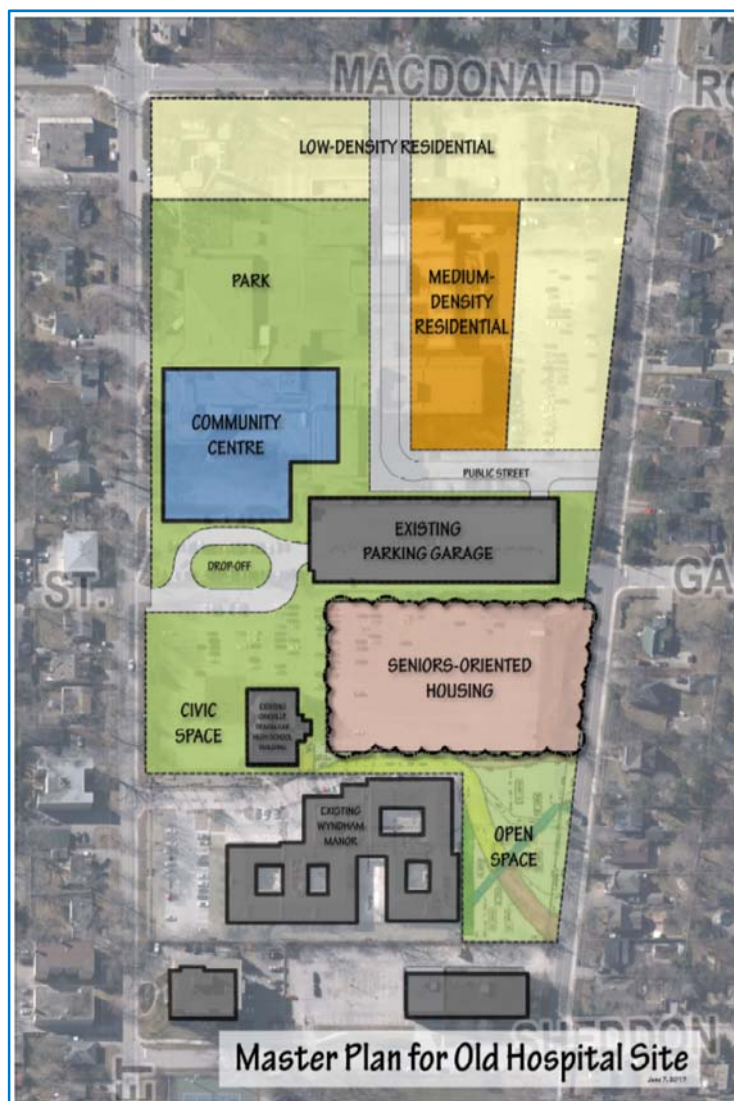
As noted above, significant traffic volumes have decreased along the Cornwall Road section between Trafalgar Road and Reynolds Street and along Reynolds Street and Allan Street. It is noted that an exclusive eastbound through lane on the Cornwall Road section east of Trafalgar Road that becomes a dedicated eastbound right turn lane at the Reynolds Street intersection. This lane has been provided to accommodate the former hospital associated traffic volumes and may not be required in the future. This should be reviewed in the future when improvements to the Cornwall Road corridor east of Trafalgar Road are planned.

4. PROPOSED FUTURE REDEVELOPMENT

The redevelopment of the former hospital lands will contain several land uses which have been endorsed by Town Council in June 2017 and are presented in a Master Plan for the site. **Figure 7** illustrates the locations of the proposed land uses¹ which includes the following:

- Neighbourhood Community Park – 0.65 ha
- Community Centre – 53,000 sq. ft.
- Single Family Dwelling (Low Density residential) – 16 units
- Townhomes/Condos – (19+19) = 38 units
- Senior Adult Housing (unassisted) – 50 units

Figure 7: Figure of Master Plan for Former Hospital Site



¹ It should be noted that the development proposal outlined in this report was based on a previous concept plan and are assumed to be higher than the current proposal. For the purpose of this report, the analysis was maintained using the land use statistics from the previous proposal and represents the conservative analysis results.

5. FUTURE REDEVELOPMENT SITE GENERATED TRAFFIC

5.1 FUTURE REDEVELOPMENT SITE GENERATED TRAFFIC VOLUMES

The site traffic volumes for the proposed land uses as part of the proposed redevelopment were estimated using trip generation rates documented in the Institute of Transportation Engineers' (ITE), Trip Generation 9th Edition. In particular, the following ITE Land Use Code was utilized:

- City Park (Code 411);
- Recreational Community Centre (Code 495);
- Single-Family Detached Housing (Code 210);
- Residential Condominium/Townhouse (Code 230); and
- Senior Adult Housing – Detached (Code 251).

The resulting trips forecasted to be generated by these land uses during the weekday AM and PM peak hours are presented in **Table 4**. It is estimated that the proposed land uses will generate approximately 156 total trips (86 inbound and 70 outbound) during the AM peak hour and 200 total trips (107 inbound and 93 outbound) during the PM peak hour.

5.2 TRIP DISTRIBUTION AND ASSIGNMENT

The forecasted traffic volumes for the proposed redevelopment land uses were distributed onto the study area intersections utilizing the existing travel patterns within the study area. **Figure 8** illustrates the proposed trip distribution, placed following the report.

Site traffic volumes for each of the land uses were assigned to the appropriate access based on the locations presented within the approved Master Plan. The resulting weekday AM and PM site traffic volumes for the proposed Oakville-Trafalgar Memorial Hospital Lands redevelopment are shown in **Figure 9**, placed following the report.

Table 4: Weekday AM and PM Peak Hour Site Generated Traffic Volumes

No.	Land Use	Trip Generation	Area/Units				AM Peak Hour						PM Peak Hour					
							Trip Rate			Trips			Trip Rate			Trips		
							In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total
1	Neighbourhood Community Park	City Park (LUC 411)	0.650	hec	1.6	Acres	2.52	1.98	4.50	4	3	7	2.00	1.51	3.50	4	2	6
		Trip Adjustment (Transit trips reductions)								0	0	0				0	0	0
		Sub-Total								4	3	7				4	2	6
2	Community Centre	Recreational Community Centre (LUC 495)	4,921	m ²	53,000.0	ft ²	1.35	0.70	2.05	72	37	109	1.34	1.40	2.74	71	74	145
		Trip Adjustment (Transit trips reductions)								0	0	0				0	0	0
		Sub-Total								72	37	109				71	74	145
3	Single Family Dwelling (Low Density Residential)	Single-Family Detached Housing (LUC-210)	16	Units			0.19	0.56	0.75	3	9	12	0.64	0.37	1.01	10	6	16
		Trip Adjustment (Transit trips reductions)								0	0	0				0	0	0
		Sub-Total								3	9	12				10	6	16
4	Townhomes / Condos (Medium Density Residentials) - Northeast Corner of Site	Residential Condominium/Townhouse (LUC 230)	19	Units			0.07	0.37	0.44	1	7	8	0.35	0.17	0.52	7	3	10
		Trip Adjustment (Transit trips reductions)								0	0	0				0	0	0
		Sub-Total								1	7	8				7	3	10
5	Townhomes / Condos (Medium Density Residentials) - Southeast Corner of Site	Residential Condominium/Townhouse (LUC 230)	19	Units			0.07	0.37	0.44	1	7	8	0.35	0.17	0.52	7	3	10
		Trip Adjustment (Transit trips reductions)								0	0	0				0	0	0
		Sub-Total								1	7	8				7	3	10
6	Senior Adult-Detached	Senior Adult Housing - Detached (LUC 252)	50	Units			0.08	0.14	0.22	4	7	11	0.18	0.09	0.27	9	5	14
		Trip Adjustment (Transit trips reductions)								0	0	0				0	0	0
		Sub-Total								4	7	11				9	5	14
		TOTAL TRIPS								86	70	156				107	93	200

6. FUTURE TOTAL (2025) TRAFFIC CONDITIONS

6.1 FUTURE TOTAL (2025) TRAFFIC VOLUMES

For the purpose of the future traffic analysis, an 8-year horizon year of 2025 was selected. No background developments were assumed within the study area to project the future total (2025) traffic volumes. However, the following assumptions were used to increase the existing (2017) traffic volumes to accounts for uncertain variation in the traffic volumes in addition to the site traffic volumes estimated to be generated by the proposed land uses outlined under Sections 4 and 5:

1. A growth rate of 2% per annum applied to through movements at the Cornwall Road intersections and 1% per annum applied to turning movements to/from these intersections; and
2. A growth rate of 1% per annum applied to all other study area intersection movements.

The estimated future (2025) volumes for the AM and PM peak hours are shown in **Figure 10**, placed following the report.

6.2 FUTURE TOTAL (2025) INTERSECTION OPERATIONS

Using the future forecasted (2025) traffic volumes, intersection operation analysis was performed for the study area intersections without any improvements to determine any capacity deficiencies that may arise.

Due to the removal of the former hospital, the existing advance left turn phase for the southbound right turn movement at the MacDonald Road and Reynolds Street intersection is not required and traffic operations were completed without this advance phase for this intersection and the existing cycle length of 100 seconds was reduced to 90 seconds in both the AM and PM peak hours.

Traffic operation analysis for the intersection of MacDonald Road and Reynolds Street assumed only two phases, north/south and east/west phases. Summaries of the future traffic analysis results are presented in **Table 5** and Synchro output sheets are provided in **Appendix C**.

Table 5: Summary of Future Total (2025) Intersection Operations

Intersections	AM Peak Hour			PM Peak Hour		
	LOS [Delay (s)]	V/C	95 th tile Queue (m)	LOS [Delay (s)]	V/C	95 th tile Queue (m)
Trafalgar Rd. & Cornwall Rd. (Signalized)	D [41]	0.78	-	D [43]	0.82	-
EBLL	E [72]	0.85	#81	E [77]	0.88	#85
EBTT&R	D [45]	0.62	93	D [46]	0.54	75
WBL	E [63]	0.15	14	E [58]	0.27	0
WBTT	E [70]	0.70	82	E [74]	0.79	100
WBR	A [1]	0.46	17	A [1]	0.53	26
NBL	C [35]	0.28	17	C [33]	0.24	16

Intersections	AM Peak Hour			PM Peak Hour		
	LOS [Delay (s)]	V/C	95 th tile Queue (m)	LOS [Delay (s)]	V/C	95 th tile Queue (m)
NBTT&R	D [46]	0.52	77	D [47]	0.65	106
SBLL	D [52]	0.77	#130	E [59]	0.85	#144
SBT	C [34]	0.74	#223	C [34]	0.72	#219
SBR	C [24]	0.35	56	C [23]	0.31	49
Reynolds St. & Cornwall Rd. (Signalized)	A [8]	0.41	-	B [11]	0.50	-
EBL&TT	A [7]	0.40	84	A [9]	0.43	73
EBR	A [8]	0.05	7	B [10]	0.07	8
WBL	A [3]	0.16	7	A [4]	0.21	11
WBTT&R	A [3]	0.39	49	A [5]	0.49	82
NBL	E [65]	0.53	32	E [64]	0.62	47
NBT&R	E [59]	0.09	14	E [55]	0.19	23
SBL	E [58]	0.04	5	D [54]	0.06	8
SBT&R	E [59]	0.06	10	D [55]	0.18	21
Allan St. & Cornwall Rd. (Signalized)	C [26]	0.47	-	C [28]	0.51	-
EBL	C [23]	0.21	10	D [49]	0.56	#23
EBTT&R	C [28]	0.73	109	C [26]	0.65	94
WBL	C [28]	0.33	14	C [28]	0.38	19
WBTT&R	C [28]	0.71	106	C [33]	0.84	135
NBL	B [17]	0.25	32	B [16]	0.18	23
NBT&R	B [15]	0.09	14	B [14]	0.08	12
SBL	B [15]	0.09	12	B [16]	0.22	27
SBT&R	B [14]	0.03	6	B [15]	0.09	15
Reynolds St. & MacDonald Rd. (Signalized)	B [14]	0.13	-	B [12]	0.15	-
EBL&T&R	C [30]	0.29	14	C [29]	0.26	14
WBL&T&R	C [30]	0.30	14	C [30]	0.36	17
NBL&T&R	A [3]	0.06	6	A [3]	0.11	10
SBL&T&R	A [3]	0.10	9	A [3]	0.12	11
Trafalgar Rd. & MacDonald Rd. (Unsignalized)	[2]	-	-	[2]	-	-

Intersections	AM Peak Hour			PM Peak Hour		
	LOS [Delay (s)]	V/C	95 th tile Queue (m)	LOS [Delay (s)]	V/C	95 th tile Queue (m)
WBL&R	C [19]	0.17	5	C [22]	0.27	8
NBT&R	A [0]	0.30	0	A [0]	0.41	0
SBL&T	A [1]	0.05	1	A [1]	0.06	1
Allan St. & MacDonald Rd. (Unsignalized)	[8]	-	-	[9]	-	-
EBL&T&R	A [8]	-	-	A [8]	-	-
WBL&T&R	A [8]	-	-	A [8]	-	-
NBL&T&R	A [9]	-	-	A [9]	-	-
SBL&T&R	A [8]	-	-	A [9]	-	-
Allan St. & Hospital/Galt Ave. (Unsignalized)	[1]	-	-	[1]	-	-
EBL&T&R	A [10]	0.03	1	B [10]	0.04	1
WBL&T&R	A [10]	0.01	0	A [9]	0.00	0
NBL&T&R	A [0]	0.00	0	A [0]	0.01	0
SBL&T&R	A [0]	0.00	0	A [0]	0.00	0
Allan St. & Sheddon Ave. (Unsignalized)	[1]	-	-	[1]	-	-
EBL&T&R	A [10]	0.01	0	A [10]	0.02	0
WBL&T&R	A [10]	0.01	0	B [10]	0.01	0
NBL&T&R	A [0]	0.00	0	A [0]	0.00	0
SBL&T&R	A [0]	0.00	0	A [0]	0.00	0
Reynolds St. & Sheddon Ave. (Unsignalized)	[1]	-	-	[1]	-	-
WBL&R	A [9]	0.02	0	A [10]	0.01	0
NBT&R	A [0]	0.04	0	A [0]	0.08	0
SBL&T	A [1]	0.01	0	A [1]	0.01	0
Reynolds St. & Freestone Ln. (Unsignalized)	[1]	-	-	[1]	-	-
EBL&T&R	A [10]	0.01	0	A [9]	0.01	0
WBL&T&R	A [0]	0.00	0	A [9]	0.00	0
NBL&T&R	A [1]	0.00	0	A [0]	0.00	0
SBL&T&R	A [0]	0.00	0	A [0]	0.00	0

Intersections	AM Peak Hour			PM Peak Hour		
	LOS [Delay (s)]	V/C	95 th tile Queue (m)	LOS [Delay (s)]	V/C	95 th tile Queue (m)
Trafalgar Rd. & Freestone Ln. (Unsignalized)	[0]	-	-	[0]	-	-
WBL&R	B [10]	0.00	0	B [13]	0.01	0
NBT&R	A [0]	0.19	0	A [0]	0.31	0
SBL&T	A [0]	0.00	0	A [0]	0.01	0
Trafalgar Rd. & Lawsons St. (Unsignalized)	[1]	-	-	[1]	-	-
WBL&R	B [11]	0.03	1	B [13]	0.06	1
NBT&R	A [0]	0.19	0	A [0]	0.31	0
SBL&T	A [0]	0.02	0	A [0]	0.02	0
Reynolds St. & Lawsons St. (Unsignalized)	[3]	-	-	[3]	-	-
EBL&T&R	A [10]	0.03	1	B [11]	0.04	1
WBL&T&R	A [10]	0.03	1	B [10]	0.06	1
NBL&T&R	A [1]	0.01	0	A [1]	0.01	0
SBL&T&R	A [1]	0.01	0	A [0]	0.02	0

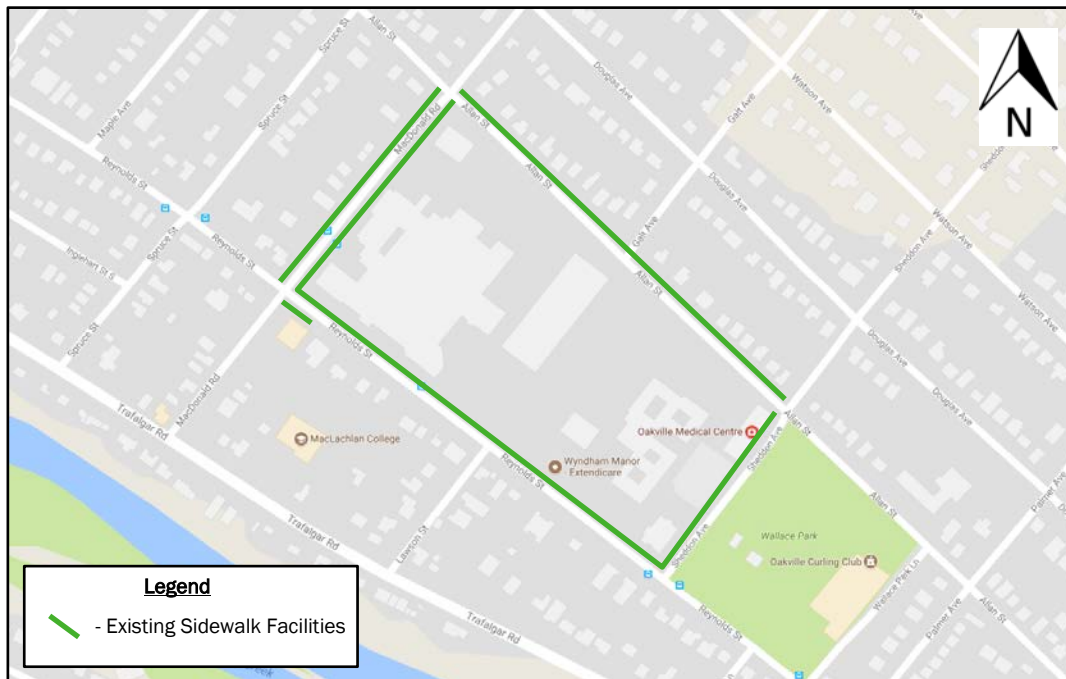
As presented in **Table 5**, all of the study area intersections are forecast to operate satisfactorily under future total (2025) traffic conditions with the addition of the site generated traffic volumes from the proposed Oakville-Trafalgar redevelopment land uses. Based on these results, there are no intersection improvements required within the study area.

7. ACTIVE TRANSPORTATION & TRANSIT

7.1 PEDESTRIAN FACILITIES

A review of active transportation facilities within the immediate area of the hospital lands found that sidewalks are currently present on at least one side of the surrounding study area roadways and in the case of MacDonald Road, sidewalks are on both sides. **Figure 11** presents the sidewalk infrastructure currently present within the study area and pedestrian volumes collected at the study intersection crossing are shown on a figure placed following the report.

Figure 11: Existing Sidewalk Facilities within Study Area

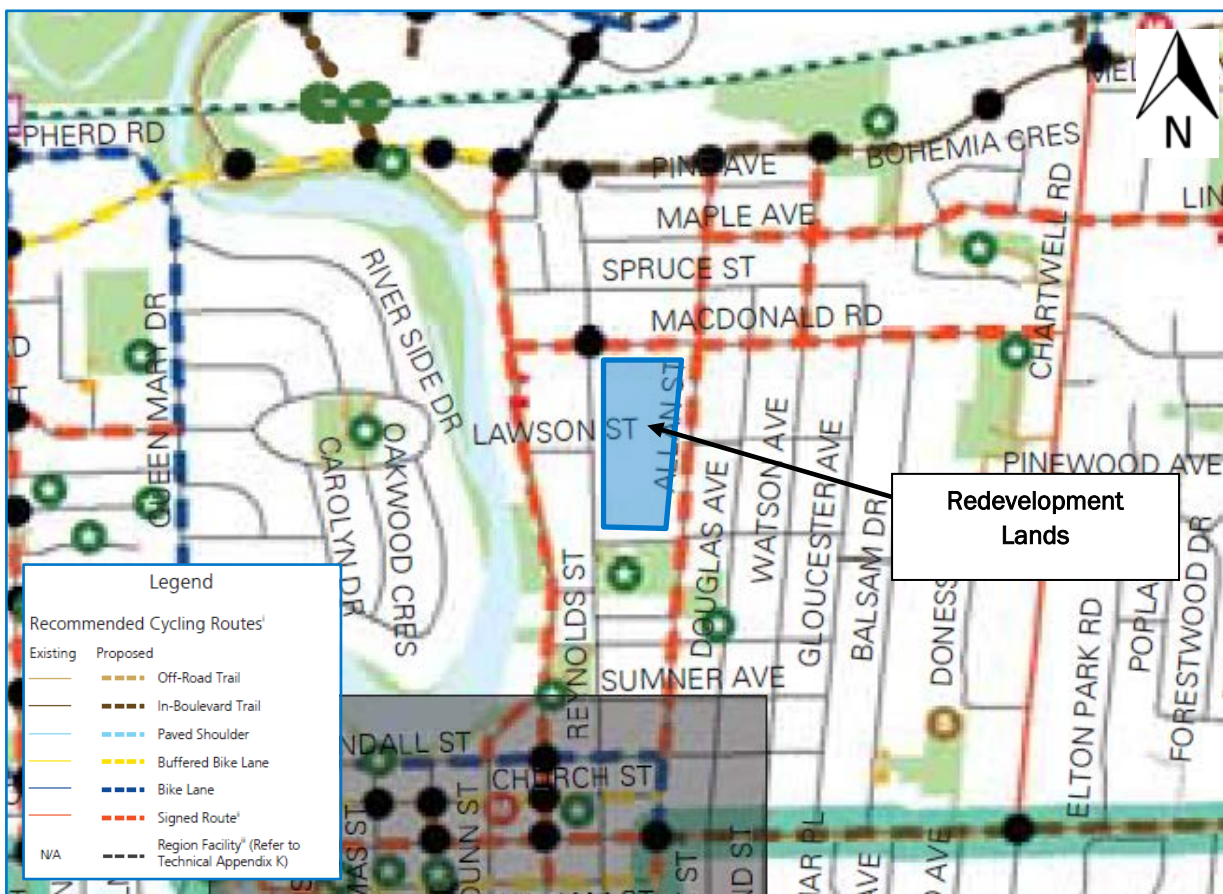


It is noted that the proposed redevelopment has access driveways from Reynolds Street, MacDonal Road and Allan Street. Sidewalks are currently available on east and south sides of Reynolds Street and MacDonal Road, respectively. It is recommended that a sidewalk be provided on west side of Allan Street to accommodate pedestrian traffic from Allan Street to access the proposed Community Centre and Park facilities.

7.2 CYCLING FACILITIES

A review of cycling facilities within the area immediately surrounding the hospital lands found that there currently is no cycling infrastructure provided. However, a review of the Town’s Active Transportation Master Plan (Draft July 2017) indicates that both MacDonald Road and Allan Street have been identified for proposed signed bike routes. **Figure 12** taken from the Active Transportation Master Plan illustrates the proposed routes.

Figure 12: Proposed Cycling Facilities within the Study Area



7.3 TRANSIT

Based on Oakville Transit’s Weekday Route Map, there are currently two transit routes which provide regular service on roadways within the study area. As presented in **Figure 13**, Route 11 currently operates along MacDonald Road and Route 14+ operates along Reynolds Street. A review of transit facilities along these roadways indicates there are currently four (4) transit stops within the study area, three (3) located along Reynolds Street and one (1) located on MacDonald Road. The approximate locations of these stops are presented in **Figure 14**.

Figure 13: Snapshot of Oakville Transit Weekday Route Map

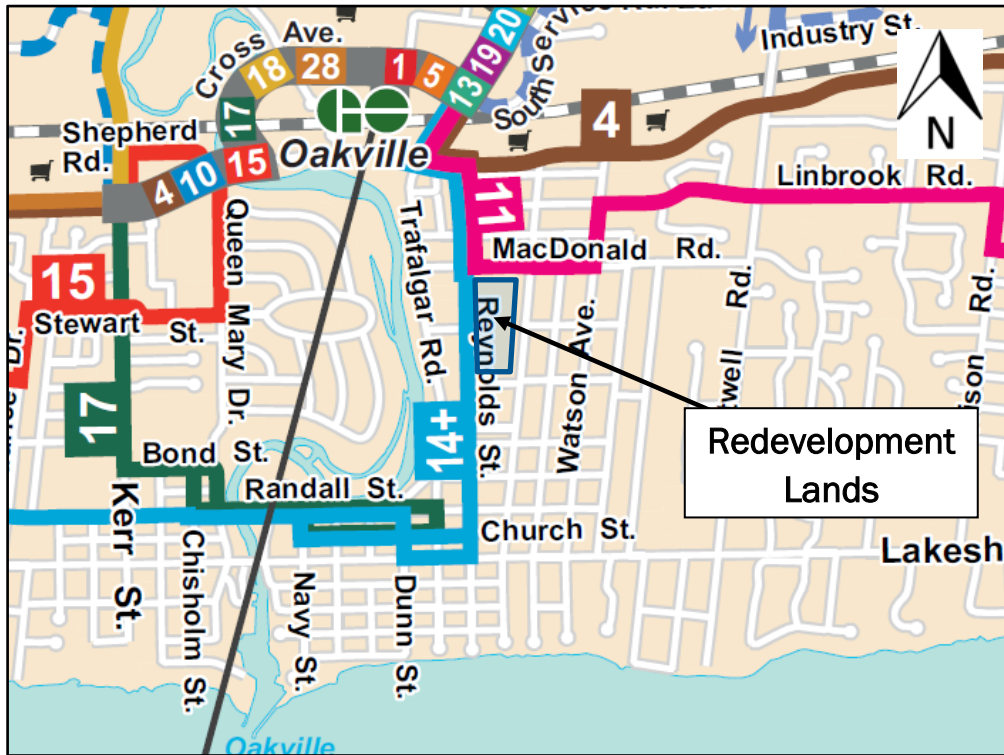


Figure 14: Approximate Locations of Existing Transit Stops



8. REVIEW OF EXISTING ROADWAYS RIGHT-OF-WAY

8.1 MACDONALD ROAD

The existing right-of-way (ROW) of MacDonald Road varies from approximately 17.5 to 18m. The roadway consists of two through lanes which consist of a combined width of 8m. Along the south side of the roadway there is currently 1.5m sidewalk with a grass boulevard which varies in width +/- 2m. The north side of MacDonald Road contains a sidewalk which varies in width +/- 1.8m and no boulevard.

No on-street parking is allowed along this roadway as Rb-51 ‘No parking’ signs are present on the north side while the south side contains Rb-51 signs with an added tow-away symbol. Utilities are mainly accommodated on the north side of MacDonald Road while hydrants are present on both sides of the roadway. Curbs and gutter are provided on both sides of the roadway and catch basins are present for drainage.

8.2 REYNOLDS STREET

The existing ROW of Reynolds Street also varies in width from approximately 15 to 17.5m. The roadway consists of two through lanes which vary in width for a combined +/- 6.25m. Sidewalks are present along both sides of the roadway for approximately 30m on west side south of MacDonald Road however the sidewalk on the west side of the roadway ends while on the east side continues for the length of the roadway with a varying width of +/- 2m. There are small sections along the east side of the roadway near the former hospital entrance which contain a boulevard however for the majority of the east side there is no boulevard with a combined concrete sidewalk and curb.



No on-street parking is allowed along the roadway with Rb-51 ‘No parking’ signs along the west side while the east side contains Rb-51 signs with the added tow-away symbol. On the section of roadway south of Lawson Street there are also Rb-62 ‘No Heavy Trucks’ signs present on both sides of the roadway. Utilities are accommodated mainly on the east side of Reynolds Street however in some sections, utilities are accommodated on the west side well. Fire hydrants are provided along the east side of the roadway with curbs and gutter provided on both sides of the roadway and catch basins are present for drainage.

8.3 ALLAN STREET

The existing ROW of Allen Street varies in width from approximately 11.5 to 16m. There are two through lanes along the roadway which vary in width for a combined +/- 6.25m. Sidewalk is present only on the east side of the roadway which has a width +/- 1.5m and there is no boulevard present along this side and only a combined concrete sidewalk with curb.



Along both sides of Allan Street there are several Rb-55 'No Stopping' signs present. Utilities are primarily accommodated on the west side of Allan Street. Curbs and gutter are provided only on the east side of the roadway however catch basins are present for drainage on both sides.

A review of the report *On-Street Parking Study of Roadways Around Former Site of Oakville Trafalgar Memorial Hospital* dated September 2016 prepared by Hatch and a Staff Report prepared by Oakville reveals that the Recommended Parking Strategy # 2 suggested the implementation of 3 hours parking on east side of Allan Street following the completion of former hospital demolition which is expected in early 2018. Since the existing ROW of Allan Street from north of Sheddon Avenue to MacDonald Road is approximately 11.5m and the Town is considering widening the existing ROW to 18m along Allan Street and also widening the existing pavement width to 8m with a 4m wide lane in each direction. There will be significant construction activities occurring on west of side of Allan Street, it is recommended however that the implementation of the Recommended Parking Strategy # 2 along Allan Street be delayed beyond the redevelopment of the former hospital lands that is anticipated by 2020.

9. PROPOSED ROADWAYS RIGHT-OF-WAY

In determining the proposed right-of-way widths for MacDonald Road, Reynolds Street and Allan Street, the typical sections from the North Oakville Design Guidelines were reviewed and examined to account for transit and signed bike route provisions. In particular the Town’s 20m ROW – Typical Section (STD. 7-2) and 19m ROW were reviewed and the following key points have been highlighted:

- Minimum pavement width of 8m thus providing a 4m wide lane in each direction. This lane width can accommodate both the transit and signed bike routes;
- Widening of boulevard from existing variable width to maximum 4.5m towards hospital lands; and
- Minimum impacts at the upstream and downstream intersections due to relocation of the road centreline.

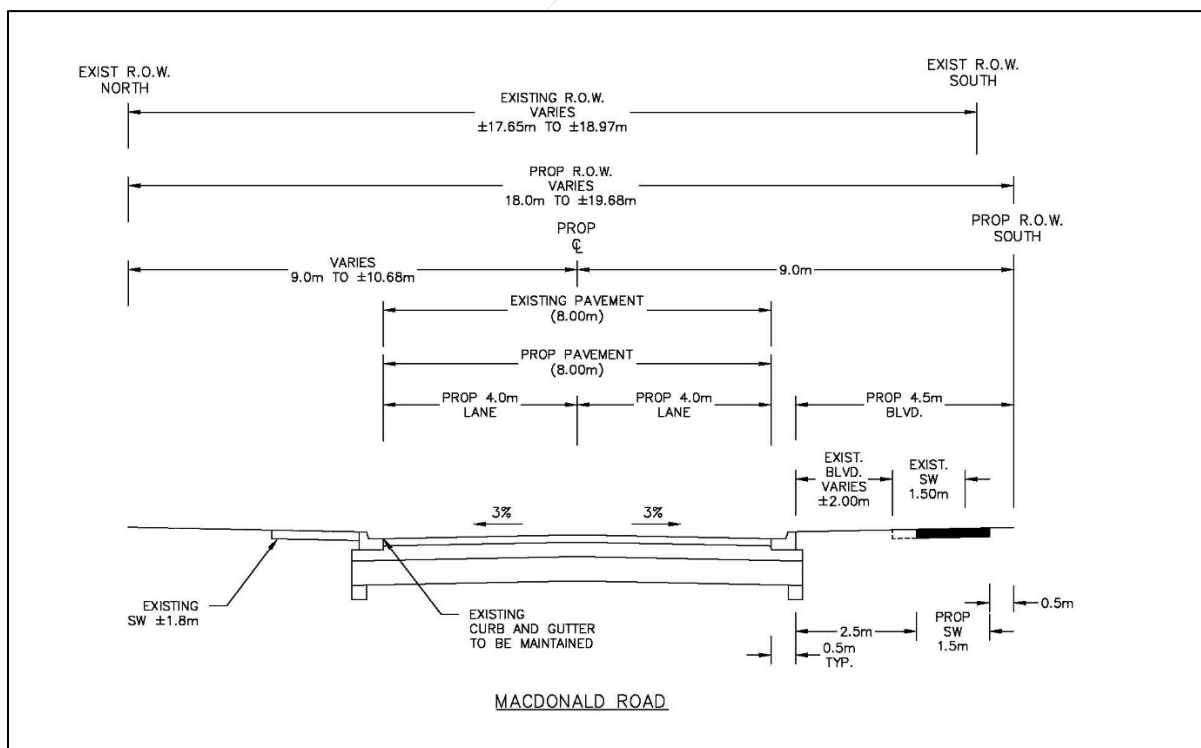
9.1 MACDONALD ROAD

In conjunction with the Town’s Design Guidelines, the following right-of-way improvements are proposed for MacDonald Road:

- Proposed ROW widening to the south by 0.5m to extend the existing boulevard to approximately 2 to 2.5m;
- No need to widen the pavement as it is already 8m wide; and
- Currently a sidewalk is located on north side at the back of curb and there is a boulevard between the back of curb and sidewalk on south side.

A typical section for the proposed ROW of MacDonald Road is shown in **Figure 15**.

Figure 15: Typical Section - MacDonald Road



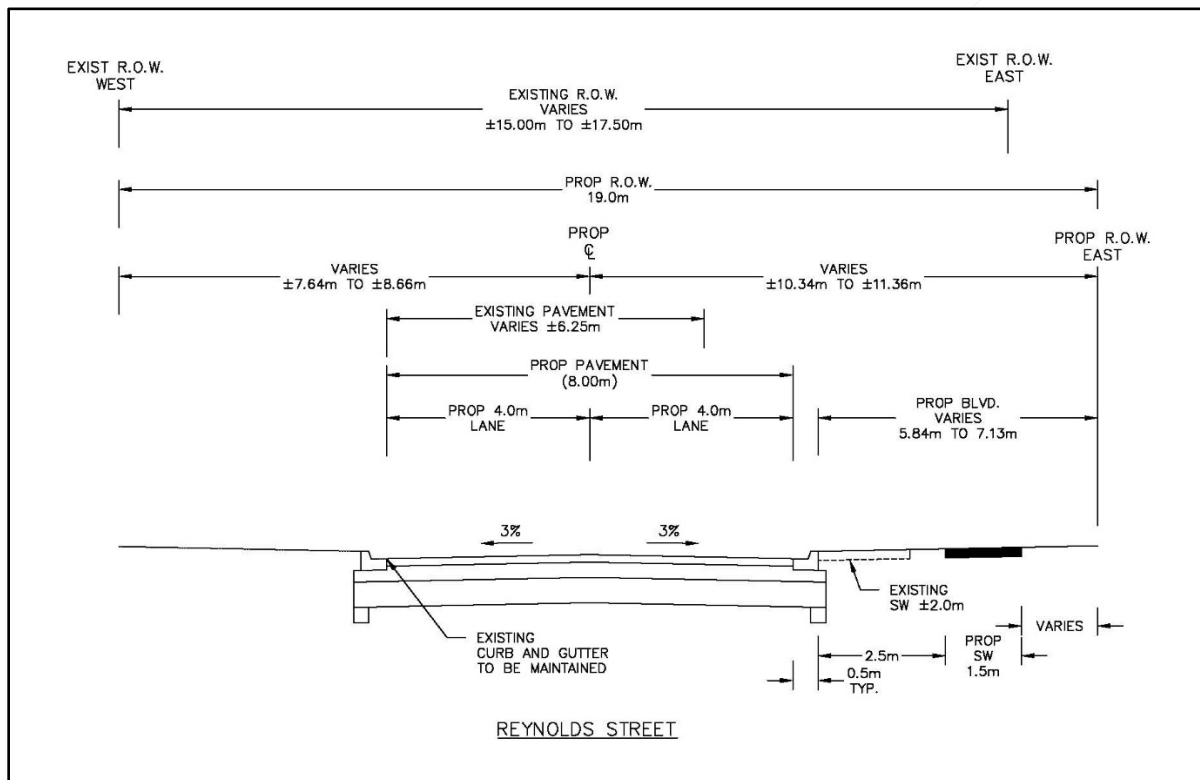
9.2 REYNOLDS STREET

In conjunction with the Town’s Design Guidelines, the following right-of-way improvements are proposed for Reynolds Street:

- Proposed ROW widening to the east side varies from 2.5 to 4m;
- Maintain west curb and widen the existing pavement of 6.25m to 8m to the east along with a 4.5m wide boulevard. Currently a sidewalk is located at the back of curb with the exception of driveway locations where there is a boulevard between the sidewalk and back of curb; and
- Proposed relocation of road centreline of approximately 0.88m is to be transitioned back to the existing road centreline at the upstream and downstream intersections.

A typical section for the proposed ROW of Reynolds Street is shown in **Figure 16**.

Figure 16: Typical Section – Reynolds Street



9.3 ALLAN STREET

In conjunction with the Town’s Design Guidelines, the following right-of-way improvements are proposed for Allan Street:

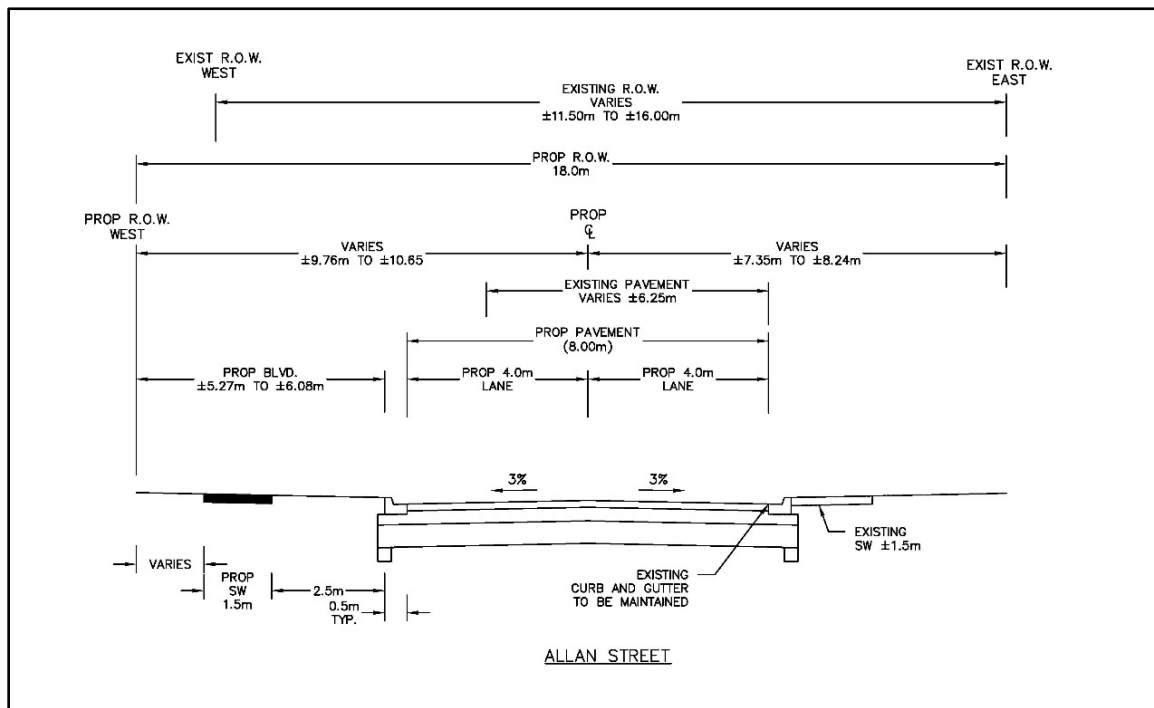
- Proposed ROW widening to the west varies from 2 to 6.5m;
- Maintain east curb and widen the existing pavement of 6.25m to 8m to the west along with a 4.5m wide boulevard. Currently a sidewalk is available only on east side that is located at the back of curb; and

1.5m sidewalk is proposed on west side to accommodate the proposed Park and Community Centre pedestrian traffic; and

- Proposed relocation of road centreline of approximately 0.88m is to be transitioned back to the existing road centreline at the upstream and downstream intersections.

A typical section for the proposed ROW of Allan Street is shown in **Figure 17**.

Figure 17: Typical Section – Allan Street



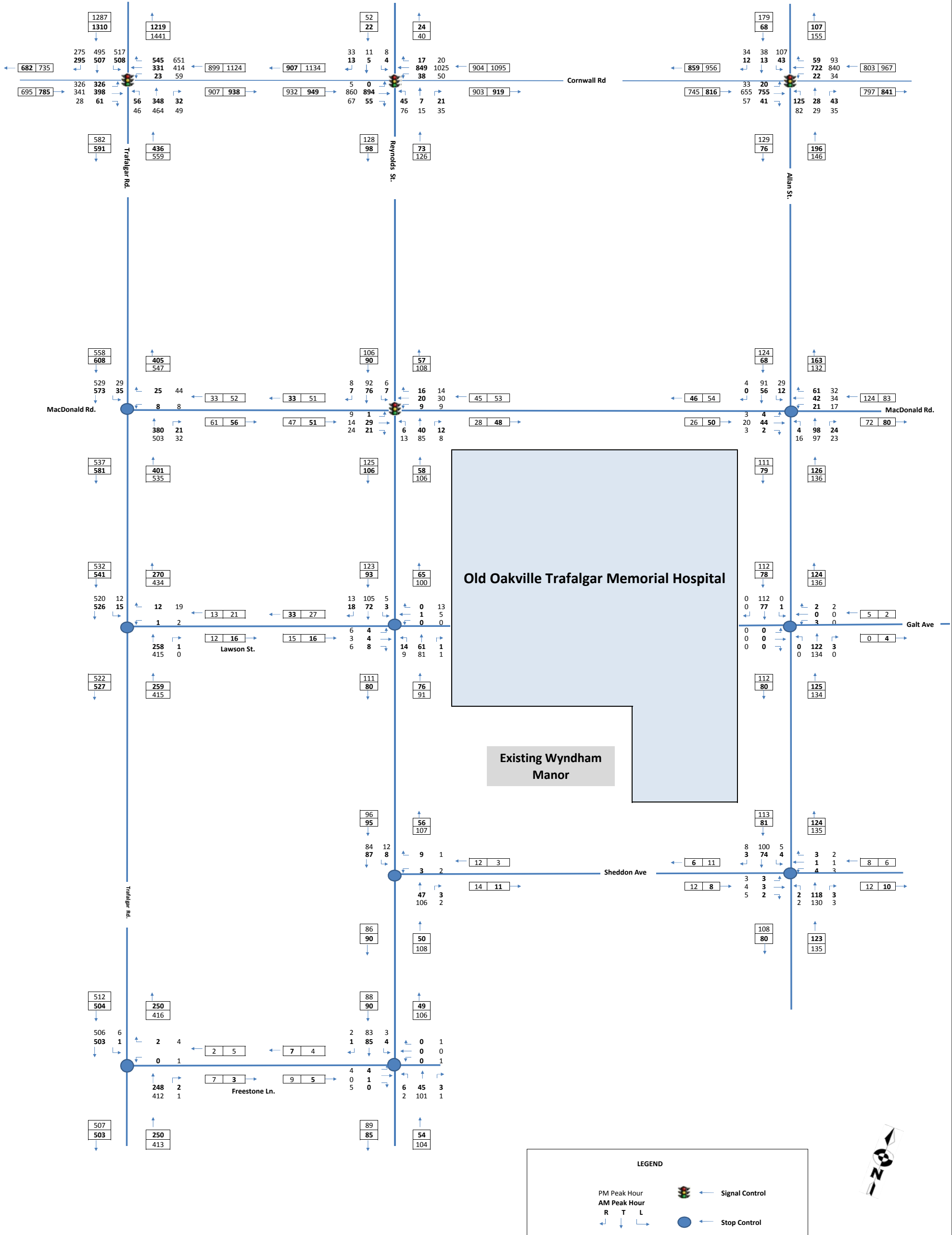
A functional plan was developed based on the proposed ROW to determine the potential impacts of the ROW extension at the approaches of intersections located upstream and downstream in the study area. A copy of Functional Plan based on the recommended ROW for Reynolds Street, MacDonald Road and Allan Street along with typical sections are provided in **Appendix D**.

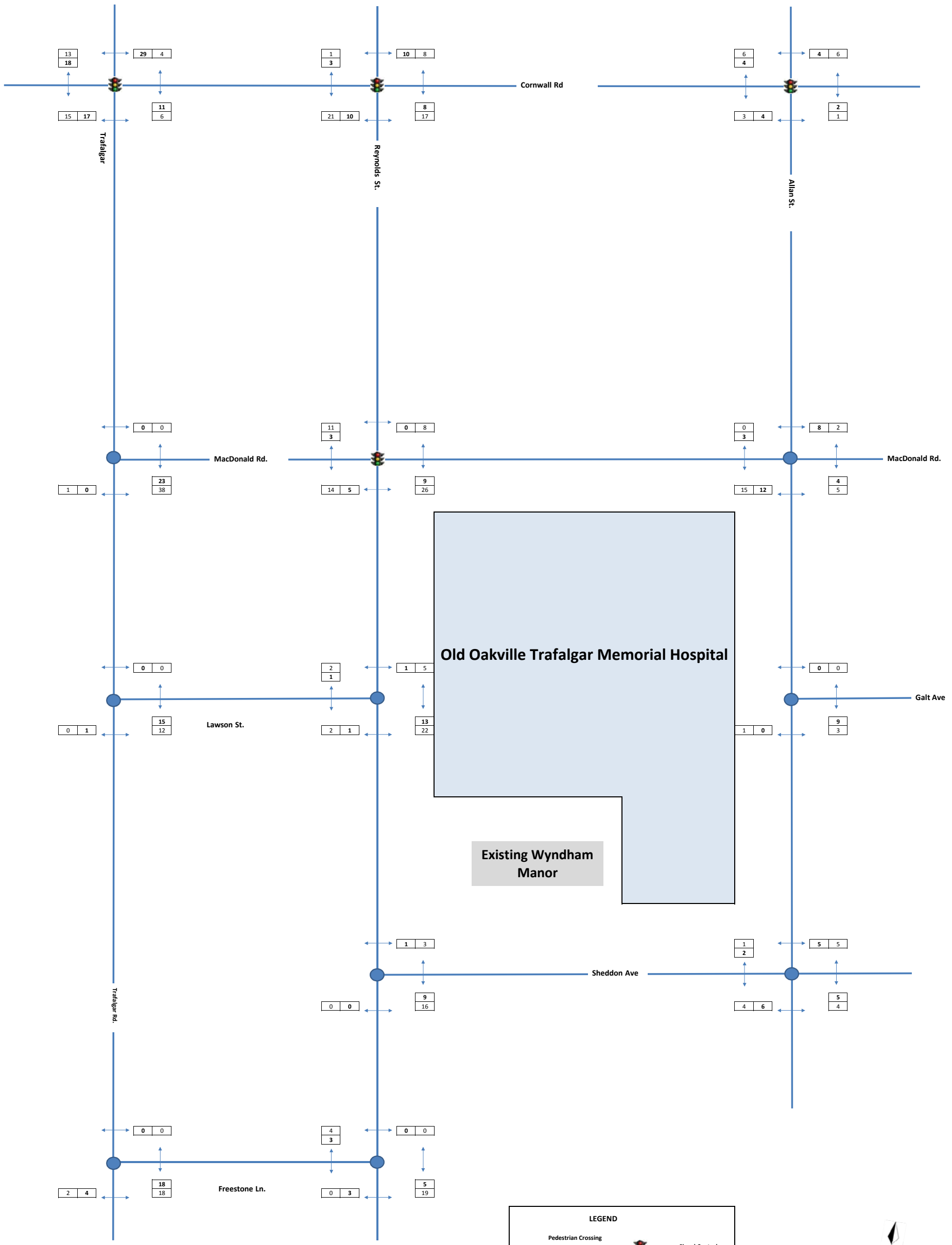
10. ANALYSIS CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the completed Transportation Demand and Traffic Impact Study completed for the proposed redevelopment of the former Oakville-Trafalgar Memorial Hospital Lands, the following are the conclusions and recommendations:

1. Under the existing (2017) traffic conditions, all of the study area intersections are operating satisfactorily and no intersection operational improvements are required.
2. An analysis undertaken to determine the variation in intersection volumes within the study area without and with the former hospital showed that significant volumes have decreased along the Cornwall Road section between Trafalgar Road and Reynolds Street, along Reynolds Street and Allan Street. It is noted that an exclusive eastbound through lane on the Cornwall Road section east of Trafalgar Road that becomes a dedicated eastbound right turn lane at the Reynolds Street intersection. This lane has been provided to accommodate the former hospital associated traffic volumes and may not be required in the future. This should be reviewed in the future when improvements to the Cornwall Road corridor east of Trafalgar Road are planned. This should be reviewed in the future when improvements to the Cornwall Road corridor east of Trafalgar Road are planned.
3. It is estimated that the proposed land uses as part of the hospital lands redevelopment will generate approximately 156 total trips (86 inbound and 70 outbound) during the AM peak hour and 200 total trips (107 inbound and 93 outbound) during the PM peak hour.
4. No background developments were assumed within the study area to forecast the future total (2025) traffic volumes. However, to accommodate the uncertain variation in traffic volumes, a growth rate of 2% per annum was applied to through movements along the Cornwall Road intersections and a growth rate of 1% per annum was applied to turning movements to/from these intersection movements and to all movements of the other study area intersections in addition to the site generated traffic volumes to develop the future (2025) traffic volumes.
5. Due to the removal of the former hospital, the existing advance left turn phase for the southbound right turn movement at the MacDonald Road and Reynolds Street intersection is not required and should be eliminated. Future (2025) traffic operations were completed without this advance phase for this intersection and the existing cycle length of 100 seconds was reduced to 90 seconds in both the AM and PM peak hours.
6. Under the future total (2025) traffic conditions all of the study area intersections are forecast to operate satisfactorily and no intersection operational improvements required.
7. A review of existing sidewalk facilities indicates that sidewalks are currently present on at least one side of the surrounding study area roadways and in the case of MacDonald Road, on both sides.
8. It is noted that the proposed redevelopment is proposing access driveways from Reynolds Street, MacDonald Road and Allan Street. Sidewalks are currently available on east and south sides of Reynolds Street and MacDondal Road, respectively. It is recommended that a sidewalk be provided on west side of Allan Street to accommodate pedestrian traffic from Allan Street to access the proposed the Community Centre and Park facilities.

9. A review of cycling facilities within the area immediately surrounding the hospital lands found that there currently is no cycling infrastructure provided. However, a review of the Town's Active Transportation Master Plan (Draft July 2017) indicates that both MacDonald Road and Allan Street have been identified for the proposed signed bike routes.
10. Based on Oakville Transit's Weekday Route Map, there are currently two transit routes which provide regular service on roadways within the study area. Route 11 currently operates along MacDonald Road and Route 14+ operates along Reynolds Street. A review of transit facilities along these roadways indicates there are currently four (4) transit stops within the study area, three (3) located along Reynolds Street and one (1) located on MacDonald Road.
11. Currently on-street parking is not permitted on Reynolds Street, MacDondal Road and Allan Street within the study area.
12. A review of the report *On-Street Parking Study of Roadways Around Former Site of Oakville Trafalgar Memorial Hospital* dated September 2016 prepared by Hatch and a Staff Report prepared by Oakville reveals that the Recommended Parking Strategy # 2 suggested implementation of 3 hours parking on east side of Allan Street following the completion of former hospital demolition which is expected in early 2018. Since the existing ROW of Allan Street from north of Sheddon Avenue to MacDonald Road is approximately 11.5m and the Town is considering widening of Allan Street the existing ROW to 18m along with widening of the existing pavement width to 8m with 4m wide lane in each direction. There will be significant construction activities occurring on west of side of Allan Street, it is recommended however that the implementation of the Recommended Parking Strategy # 2 along Allan Street be delayed beyond the redevelopment of the former hospital lands that is anticipated by 2020.
13. It is recommended that the existing ROW of Reynolds Street, MacDonald Road and Allan Street be widened to 19m, 18m, and 18m, respectively. The existing varying pavement width of 6.25m of Reynolds and Allan Streets be widened to 8m with the proposed widening towards hospital lands.





LEGEND

Pedestrian Crossing

PM Peak Hour

AM Peak Hour

North

West

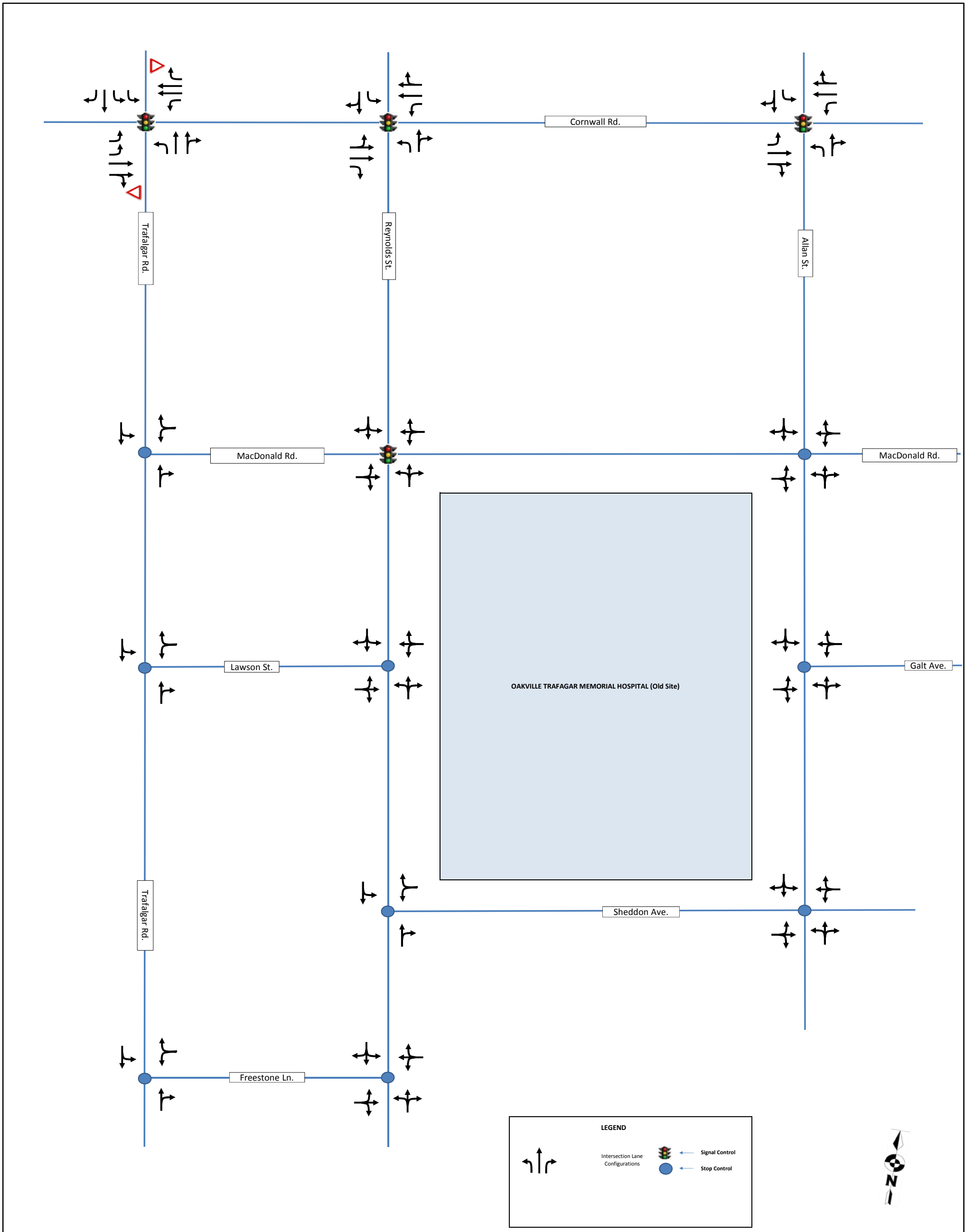
East

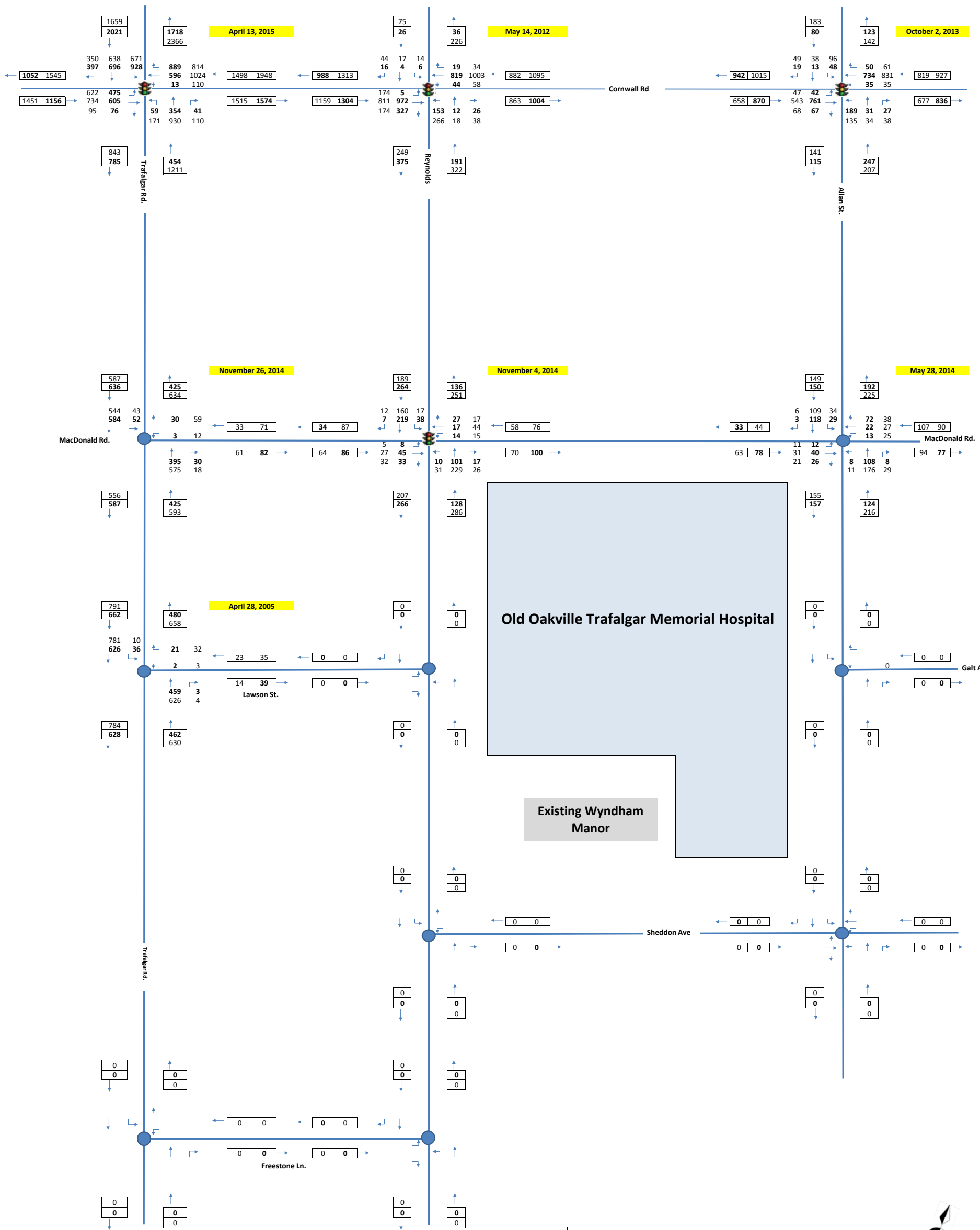
South

Signal Control

Stop Control







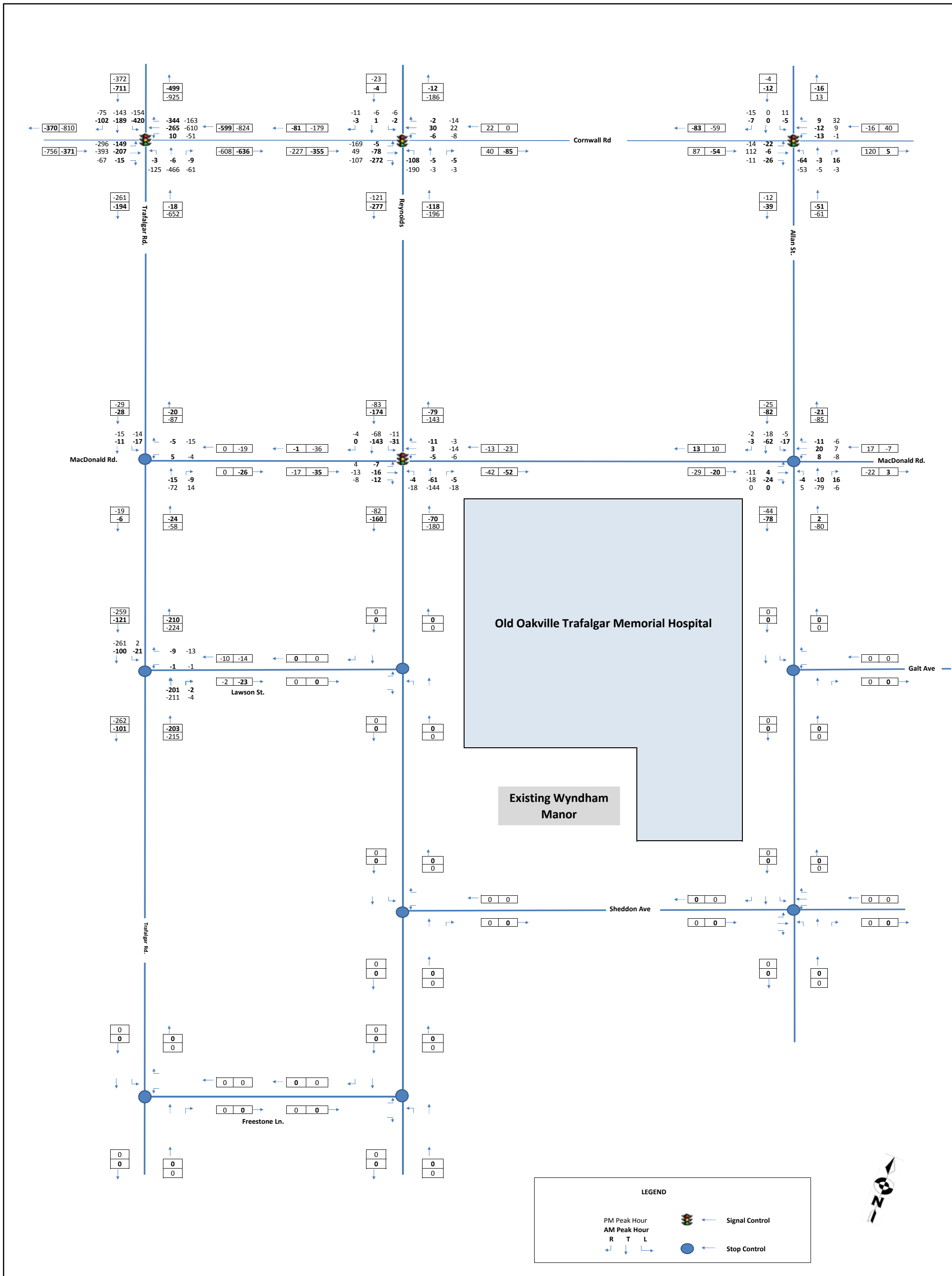
LEGEND

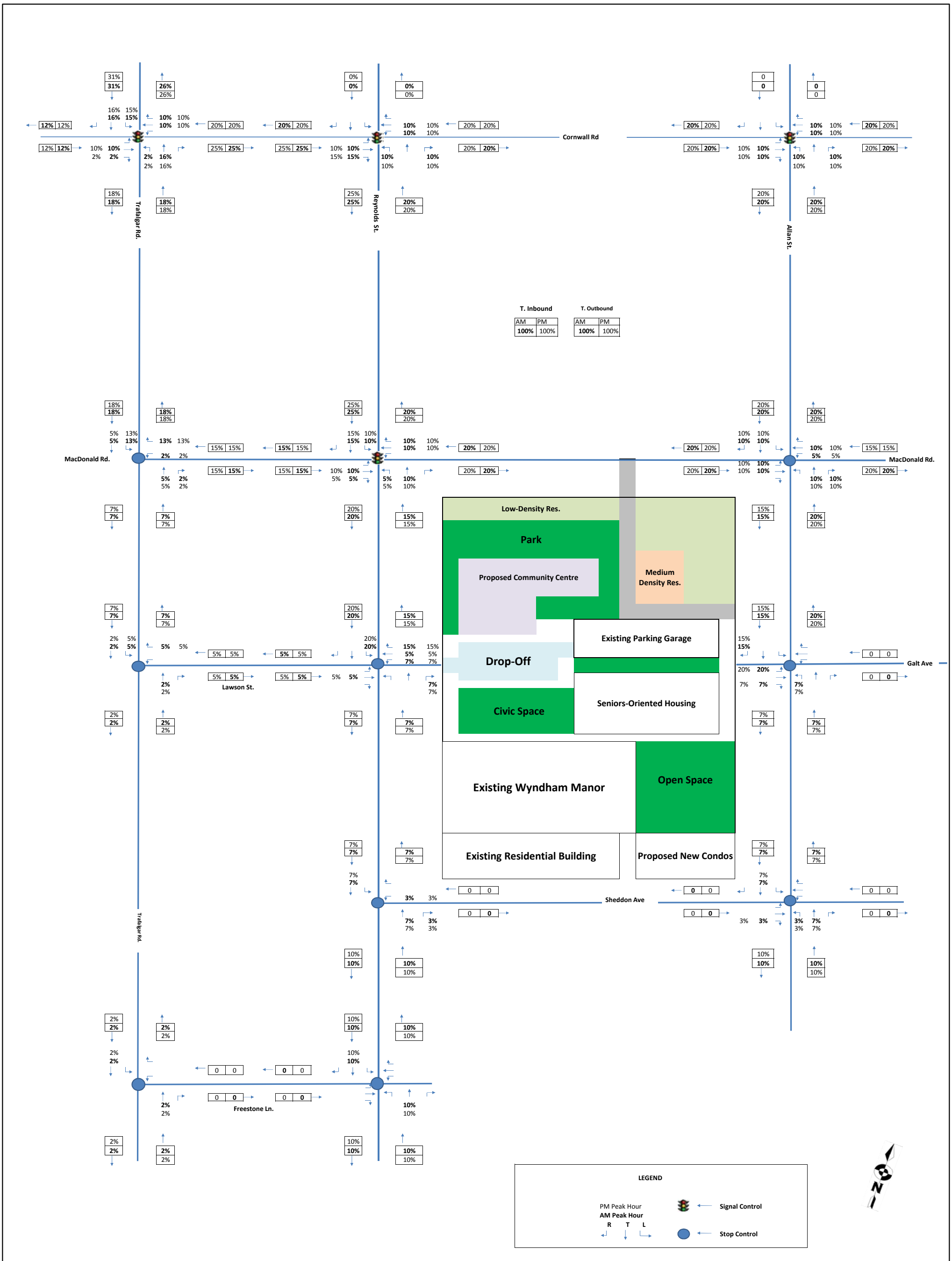
PM Peak Hour
AM Peak Hour
R T L

Signal Control (Traffic Light Icon)

Stop Control (Blue Circle Icon)







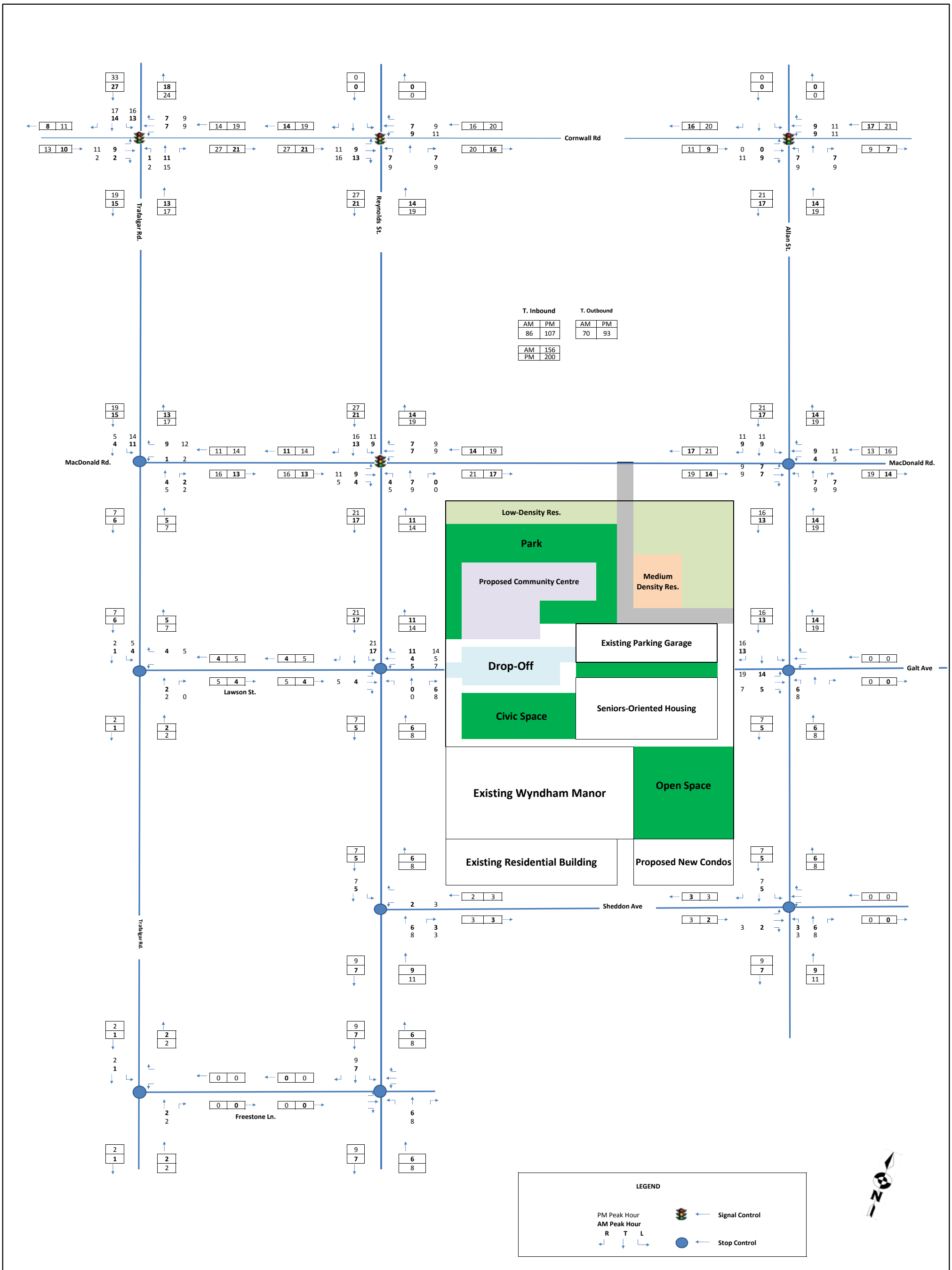
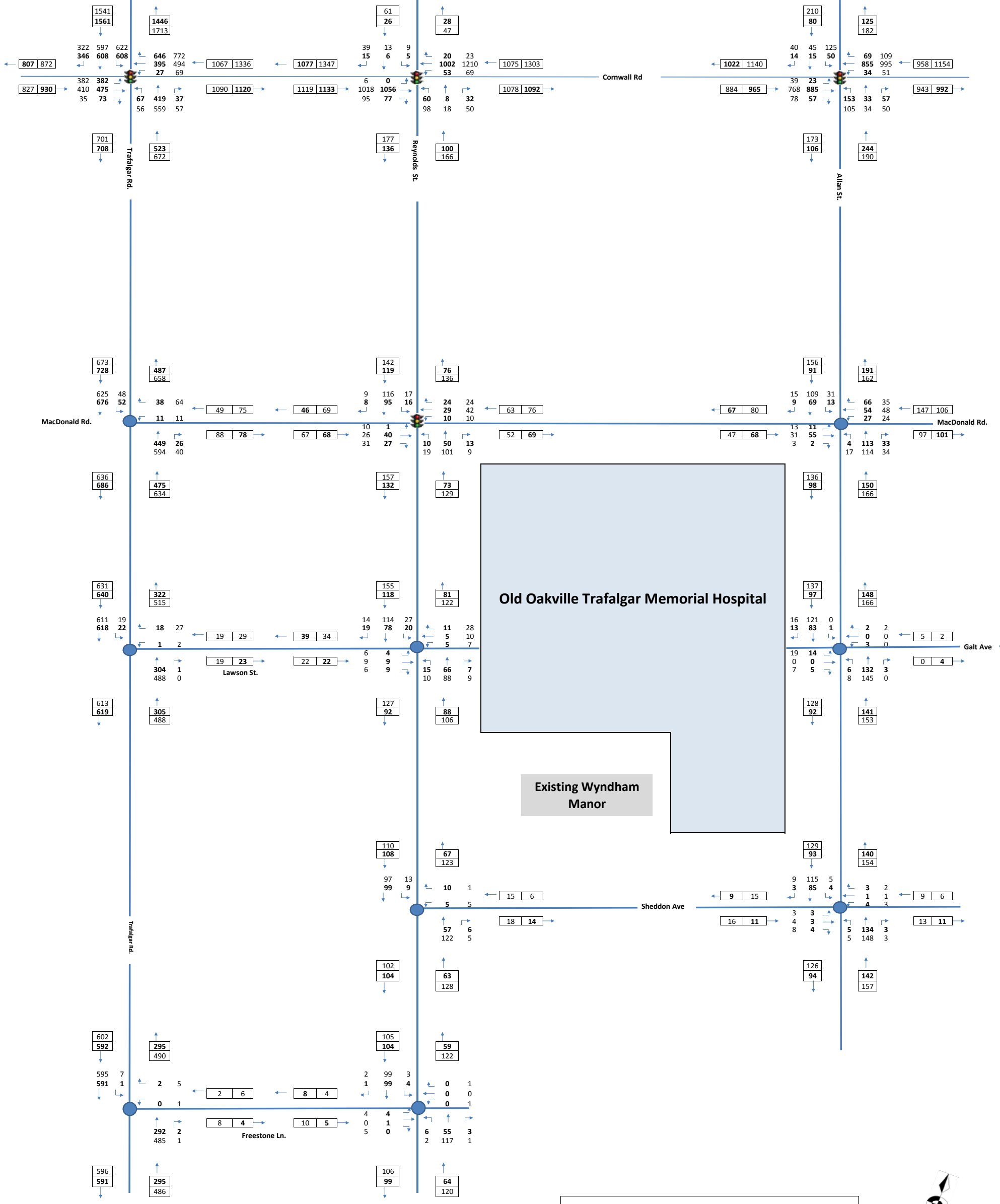


Figure 9: Estimated Site Traffic Volumes, AM and PM Peak Hours



Old Oakville Trafalgar Memorial Hospital

Existing Wyndham Manor

LEGEND

- PM Peak Hour
- AM Peak Hour
- R T L
- Signal Control
- Stop Control



APPENDICES

Appendix A

Existing (2017) Traffic Volume Data

Allan St @ Cornwall Rd

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:00:00

To: 9:00:00

Municipality: Oakville
Site #: 000000001
Intersection: Cornwall Rd & Allan St
TFR File #: 1
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 175
 North Entering: 68
 North Peds: 4
 Peds Cross: \bowtie

Heavys	0	0	0	0
Trucks	1	0	0	1
Cars	11	13	43	67
Totals	12	13	43	



Heavys	1
Trucks	5
Cars	101
Totals	107

East Leg Total: 1644
 East Entering: 803
 East Peds: 2
 Peds Cross: \bowtie

Heavys	34
Trucks	13
Cars	812
Totals	859

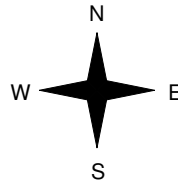


Allan St

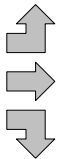
Cars	58	Trucks	1	Heavys	0	Totals	59
Cars	678	Trucks	11	Heavys	33	Totals	722
Cars	21	Trucks	1	Heavys	0	Totals	22
Cars	757	Trucks	13	Heavys	33	Totals	



Cornwall Rd



Heavys	1
Trucks	4
Cars	15
Totals	20
Heavys	30
Trucks	19
Cars	706
Totals	755
Heavys	1
Trucks	0
Cars	40
Totals	41



Allan St

Cornwall Rd



Cars	792	Trucks	19	Heavys	30	Totals	841
------	-----	--------	----	--------	----	--------	-----

Peds Cross: \bowtie
 West Peds: 4
 West Entering: 816
 West Leg Total: 1675

Cars	74
Trucks	1
Heavys	1
Totals	76



Cars	123	28	43	194
Trucks	1	0	0	1
Heavys	1	0	0	1
Totals	125	28	43	

Peds Cross: \bowtie
 South Peds: 4
 South Entering: 196
 South Leg Total: 272

Comments

Allan St @ Cornwall Rd

Mid-day Peak Diagram

Specified Period

From: 11:00:00
To: 13:00:00

One Hour Peak

From: 12:00:00
To: 13:00:00

Municipality: Oakville
Site #: 000000001
Intersection: Cornwall Rd & Allan St
TFR File #: 1
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 353
North Entering: 181
North Peds: 4
Peds Cross: \times

Heavys	1	0	0	1
Trucks	1	0	2	3
Cars	47	34	96	177
Totals	49	34	98	



Heavys	3
Trucks	5
Cars	164
Totals	172

East Leg Total: 1444
East Entering: 759
East Peds: 0
Peds Cross: \times

Heavys	Trucks	Cars	Totals
20	10	749	779

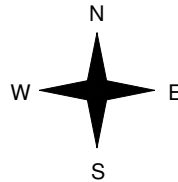


Allan St

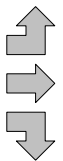
Cars	Trucks	Heavys	Totals
92	2	2	96
611	9	18	638
24	0	1	25
727	11	21	



Cornwall Rd



Heavys	Trucks	Cars	Totals
1	3	41	45
21	9	520	550
5	3	40	48
27	15	601	



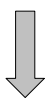
Cornwall Rd



Cars	Trucks	Heavys	Totals
651	11	23	685

Peds Cross: \times
West Peds: 9
West Entering: 643
West Leg Total: 1422

Cars	98
Trucks	3
Heavys	6
Totals	107



Cars	91	31	35	157
Trucks	0	0	0	0
Heavys	1	0	2	3
Totals	92	31	37	

Peds Cross: \times
South Peds: 1
South Entering: 160
South Leg Total: 267

Comments

Allan St @ Cornwall Rd

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 000000001
Intersection: Cornwall Rd & Allan St
TFR File #: 1
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 334
 North Entering: 179
 North Peds: 6
 Peds Cross: \times

Heavys	0	0	0	0
Trucks	0	0	0	0
Cars	34	38	107	179
Totals	34	38	107	



Heavys	0
Trucks	1
Cars	154
Totals	155

East Leg Total: 1764
 East Entering: 967
 East Peds: 1
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
27	9	920	956

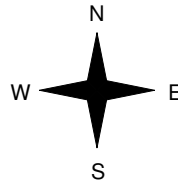


Allan St

Cars	Trucks	Heavys	Totals
93	0	0	93
805	8	27	840
33	0	1	34
931	8	28	



Cornwall Rd



Heavys	Trucks	Cars	Totals
0	0	33	33
28	7	620	655
3	0	54	57
31	7	707	



Cornwall Rd



Peds Cross: \times
 West Peds: 6
 West Entering: 745
 West Leg Total: 1701

Cars	125
Trucks	0
Heavys	4
Totals	129



Cars	81	28	35	144
Trucks	1	1	0	2
Heavys	0	0	0	0
Totals	82	29	35	

Allan St



Peds Cross: \times
 South Peds: 3
 South Entering: 146
 South Leg Total: 275

Comments

Allan St @ Cornwall Rd

Total Count Diagram

Municipality: Oakville
Site #: 000000001
Intersection: Cornwall Rd & Allan St
TFR File #: 1
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 2017
 North Entering: 994
 North Peds: 55
 Peds Cross: \times

Heavys	1	2	1	4
Trucks	4	1	3	8
Cars	226	194	562	982
Totals	231	197	566	



Heavys	12
Trucks	17
Cars	994
Totals	1023

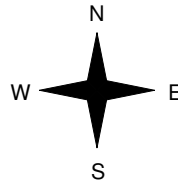
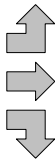
East Leg Total: 11451
 East Entering: 6003
 East Peds: 14
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
187	69	5933	6189



Cornwall Rd

Heavys	Trucks	Cars	Totals
9	11	230	250
164	73	4385	4622
33	5	324	362
206	89	4939	



Allan St



Cars	Trucks	Heavys	Totals
567	4	3	574
5001	61	181	5243
182	2	2	186
5750	67	186	

Cornwall Rd



Cars	Trucks	Heavys	Totals
5204	76	168	5448

Peds Cross: \times
 West Peds: 53
 West Entering: 5234
 West Leg Total: 11423

Cars	700	Cars	706	197	257	1160
Trucks	8	Trucks	4	2	0	6
Heavys	37	Heavys	5	0	3	8
Totals	745	Totals	715	199	260	



Peds Cross: \times
 South Peds: 29
 South Entering: 1174
 South Leg Total: 1919

Comments

Allan St @ Galt Ave

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:00:00

To: 9:00:00

Municipality: Oakville
Site #: 0000000003
Intersection: Allan St & Galt Ave
TFR File #: 3
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Allan St runs N/S

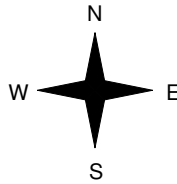
North Leg Total: 202
 North Entering: 78
 North Peds: 0
 Peds Cross: \times

Heavys	3	0	3
Trucks	0	0	0
Cars	74	1	75
Totals	77	1	



Heavys	2
Trucks	1
Cars	121
Totals	124

East Leg Total: 9
 East Entering: 5
 East Peds: 9
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Upward arrow	2	0	0	2
Downward arrow	3	0	0	3
Totals	5	0	0	5



Cars	77	Cars	119	3	122
Trucks	0	Trucks	1	0	1
Heavys	3	Heavys	2	0	2
Totals	80	Totals	122	3	



Peds Cross: \times
 South Peds: 0
 South Entering: 125
 South Leg Total: 205

Comments

Allan St @ Galt Ave

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:45:00

To: 12:45:00

Municipality: Oakville
Site #: 0000000003
Intersection: Allan St & Galt Ave
TFR File #: 3
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Allan St runs N/S

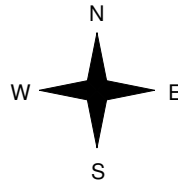
North Leg Total: 213
 North Entering: 97
 North Peds: 0
 Peds Cross: \times

Heavys	4	0	4
Trucks	2	0	2
Cars	89	2	91
Totals	95	2	



Heavys	3
Trucks	3
Cars	110
Totals	116

East Leg Total: 12
 East Entering: 5
 East Peds: 5
 Peds Cross: \times

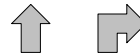


	Cars	Trucks	Heavys	Totals
Upward arrow	1	1	0	2
Downward arrow	3	0	0	3
Totals	4	1	0	

Galt Ave



Allan St



	Cars	Trucks	Heavys	Totals
Upward arrow	7	0	0	7

Cars	92	Cars	109	5	114
Trucks	2	Trucks	2	0	2
Heavys	4	Heavys	3	0	3
Totals	98	Totals	114	5	



Peds Cross: \times
 South Peds: 0
 South Entering: 119
 South Leg Total: 217

Comments

Allan St @ Galt Ave

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 0000000003
Intersection: Allan St & Galt Ave
TFR File #: 3
Count date: 12-Sep-2017

Weather conditions:

Clear/Dry

Person(s) who counted:

Cam

** Non-Signalized Intersection **

Major Road: Allan St runs N/S

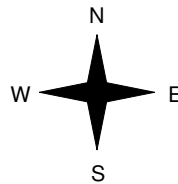
North Leg Total: 248
 North Entering: 112
 North Peds: 0
 Peds Cross: \times

Heavys	5	0	5
Trucks	0	0	0
Cars	107	0	107
Totals	112	0	



Heavys	1
Trucks	2
Cars	133
Totals	136

East Leg Total: 2
 East Entering: 2
 East Peds: 3
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Upward arrow	2	0	0	2
Downward arrow	0	0	0	0
Totals	2	0	0	0

Galt Ave



Allan St



Cars	Trucks	Heavys	Totals
0	0	0	0

Cars	107
Trucks	0
Heavys	5
Totals	112



Cars	131	0	131
Trucks	2	0	2
Heavys	1	0	1
Totals	134	0	

Peds Cross: \times
 South Peds: 1
 South Entering: 134
 South Leg Total: 246

Comments

Allan St @ Galt Ave

Total Count Diagram

Municipality: Oakville
Site #: 0000000003
Intersection: Allan St & Galt Ave
TFR File #: 3
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Allan St runs N/S

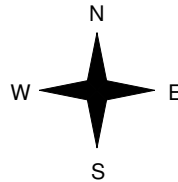
North Leg Total: 1455
 North Entering: 625
 North Peds: 0
 Peds Cross: \times

Heavys	37	0	37
Trucks	5	1	6
Cars	576	6	582
Totals	618	7	



Heavys	8
Trucks	8
Cars	814
Totals	830

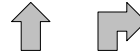
East Leg Total: 53
 East Entering: 32
 East Peds: 43
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Upward arrow	17	1	1	19
Downward arrow	13	0	0	13
Totals	30	1	1	



Allan St



Cars	Trucks	Heavys	Totals
20	1	0	21

Cars	589	Cars	797	14	811
Trucks	5	Trucks	7	0	7
Heavys	37	Heavys	7	0	7
Totals	631	Totals	811	14	



Peds Cross: \times
 South Peds: 1
 South Entering: 825
 South Leg Total: 1456

Comments

Allan St @ Sheddon Ave

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:00:00

To: 9:00:00

Municipality: Oakville
Site #: 000000004
Intersection: Allan St & Sheddon Ave
TFR File #: 4
Count date: 12-Sep-2017

Weather conditions:

Clear/Dry

Person(s) who counted:

Cam

** Non-Signalized Intersection **

Major Road: Allan St runs N/S

North Leg Total: 205

North Entering: 81

North Peds: 5

Peds Cross: \times

Heavys	2	1	0	3
Trucks	0	0	0	0
Cars	1	73	4	78
Totals	3	74	4	



Heavys 2

Trucks 1

Cars 121

Totals 124

East Leg Total: 18

East Entering: 8

East Peds: 5

Peds Cross: \times

Heavys	Trucks	Cars	Totals
3	0	3	6

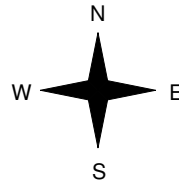


Allan St

Cars	Trucks	Heavys	Totals
3	0	0	3
0	0	1	1
4	0	0	4
7	0	1	



Sheddon Ave



Heavys	Trucks	Cars	Totals
0	1	2	3
0	0	3	3
0	0	2	2
0	1	7	



Allan St

Sheddon Ave



Cars	Trucks	Heavys	Totals
10	0	0	10

Peds Cross: \times

West Peds: 2

West Entering: 8

West Leg Total: 14

Cars	79
Trucks	0
Heavys	1
Totals	80



Cars	2	116	3	121
Trucks	0	0	0	0
Heavys	0	2	0	2
Totals	2	118	3	

Peds Cross: \times

South Peds: 6

South Entering: 123

South Leg Total: 203

Comments

Allan St @ Sheddon Ave

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:45:00

To: 12:45:00

Municipality: Oakville
Site #: 000000004
Intersection: Allan St & Sheddon Ave
TFR File #: 4
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Allan St runs N/S

North Leg Total: 213
 North Entering: 98
 North Peds: 2
 Peds Cross: \bowtie

Heavys	4	0	0	4
Trucks	0	2	0	2
Cars	2	86	4	92
Totals	6	88	4	



Heavys	3
Trucks	2
Cars	110
Totals	115

East Leg Total: 12
 East Entering: 5
 East Peds: 2
 Peds Cross: \bowtie

Heavys	Trucks	Cars	Totals
4	0	6	10

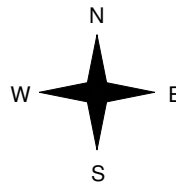


Allan St

Cars	Trucks	Heavys	Totals
1	0	0	1
2	0	0	2
2	0	0	2
5	0	0	



Sheddon Ave



Heavys	Trucks	Cars	Totals
2	1	3	6
1	0	2	3
0	0	2	2
3	1	7	



Sheddon Ave



Allan St

Cars	Trucks	Heavys	Totals
6	0	1	7

Peds Cross: \bowtie
 West Peds: 2
 West Entering: 11
 West Leg Total: 21

Cars	90	Cars	2	106	0	108
Trucks	2	Trucks	0	1	0	1
Heavys	0	Heavys	0	1	0	1
Totals	92	Totals	2	108	0	



Peds Cross: \bowtie
 South Peds: 1
 South Entering: 110
 South Leg Total: 202

Comments

Allan St @ Sheddon Ave

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 000000004
Intersection: Allan St & Sheddon Ave
TFR File #: 4
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Allan St runs N/S

North Leg Total: 248
 North Entering: 113
 North Peds: 5
 Peds Cross: \bowtie

Heavys	4	0	0	4
Trucks	0	0	0	0
Cars	4	100	5	109
Totals	8	100	5	



Heavys	1
Trucks	2
Cars	132
Totals	135

East Leg Total: 18
 East Entering: 6
 East Peds: 4
 Peds Cross: \bowtie

Heavys	Trucks	Cars	Totals
4	0	7	11

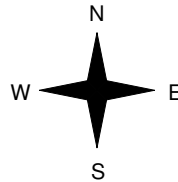


Allan St

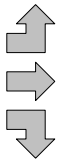
Cars	Trucks	Heavys	Totals
2	0	0	2
1	0	0	1
3	0	0	3
6	0	0	



Sheddon Ave



Heavys	Trucks	Cars	Totals
0	0	3	3
1	0	3	4
0	0	5	5
1	0	11	



Allan St



Sheddon Ave



Cars	Trucks	Heavys	Totals
11	0	1	12

Peds Cross: \bowtie
 West Peds: 1
 West Entering: 12
 West Leg Total: 23

Cars	108
Trucks	0
Heavys	0
Totals	108



Cars	2	127	3	132
Trucks	0	2	0	2
Heavys	0	1	0	1
Totals	2	130	3	

Peds Cross: \bowtie
 South Peds: 4
 South Entering: 135
 South Leg Total: 243

Comments

Allan St @ Sheddon Ave

Total Count Diagram

Municipality: Oakville
Site #: 000000004
Intersection: Allan St & Sheddon Ave
TFR File #: 4
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Allan St runs N/S

North Leg Total: 1460
 North Entering: 640
 North Peds: 29
 Peds Cross: \times

Heavys	34	3	0	37
Trucks	1	3	0	4
Cars	24	553	22	599
Totals	59	559	22	



Heavys	7
Trucks	9
Cars	804
Totals	820

East Leg Total: 106
 East Entering: 40
 East Peds: 33
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
36	1	48	85

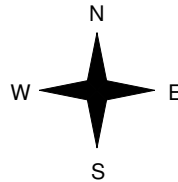


Allan St

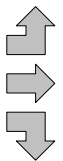
Cars	Trucks	Heavys	Totals
11	1	0	12
10	0	2	12
16	0	0	16
37	1	2	



Sheddon Ave



Heavys	Trucks	Cars	Totals
2	3	31	36
3	0	26	29
1	0	26	27
6	3	83	



Allan St



Sheddon Ave



Cars	Trucks	Heavys	Totals
62	0	4	66

Peds Cross: \times
 West Peds: 7
 West Entering: 92
 West Leg Total: 177

Cars	595	Cars	14	762	14	790
Trucks	3	Trucks	0	5	0	5
Heavys	4	Heavys	0	5	1	6
Totals	602	Totals	14	772	15	



Peds Cross: \times
 South Peds: 18
 South Entering: 801
 South Leg Total: 1403

Comments

Reynolds St @ Cornwall Rd

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:00:00

To: 9:00:00

Municipality: Oakville
Site #: 000000005
Intersection: Cornwall Rd & Reynolds St
TFR File #: 5
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 46
 North Entering: 22
 North Peds: 10
 Peds Cross: \times

Heavys	1	0	0	1
Trucks	1	0	0	1
Cars	11	5	4	20
Totals	13	5	4	



Heavys	0
Trucks	0
Cars	24
Totals	24

East Leg Total: 1823
 East Entering: 904
 East Peds: 8
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
44	16	847	907

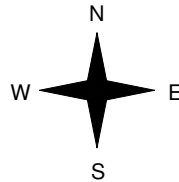


Plaza

Cars	Trucks	Heavys	Totals
17	0	0	17
800	15	34	849
38	0	0	38
855	15	34	



Cornwall Rd



Heavys	Trucks	Cars	Totals
0	0	0	0
30	23	841	894
8	0	47	55
38	23	888	

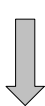


Cornwall Rd



Peds Cross: \times
 West Peds: 3
 West Entering: 949
 West Leg Total: 1856

Cars	90
Trucks	0
Heavys	8
Totals	98



Cars	36	7	20	63
Trucks	0	0	0	0
Heavys	9	0	1	10
Totals	45	7	21	

Peds Cross: \times
 South Peds: 10
 South Entering: 73
 South Leg Total: 171

Reynolds St

Comments

Reynolds St @ Cornwall Rd

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 12:00:00

To: 13:00:00

Municipality: Oakville
Site #: 000000005
Intersection: Cornwall Rd & Reynolds St
TFR File #: 5
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 110

North Entering: 69

North Peds: 8

Peds Cross: \times

Heavys	3	0	0	3
Trucks	0	0	0	0
Cars	39	15	12	66
Totals	42	15	12	



Heavys 0

Trucks 0

Cars 41

Totals 41

East Leg Total: 1832

East Entering: 933

East Peds: 20

Peds Cross: \times

Heavys	Trucks	Cars	Totals
32	16	951	999

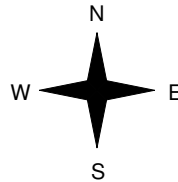


Plaza

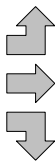
Cars	Trucks	Heavys	Totals
20	0	0	20
842	13	19	874
38	1	0	39
900	14	19	



Cornwall Rd



Heavys	Trucks	Cars	Totals
0	0	6	6
26	16	809	851
3	1	41	45
29	17	856	



Cornwall Rd



Cars	Trucks	Heavys	Totals
856	17	26	899

Peds Cross: \times

West Peds: 0

West Entering: 902

West Leg Total: 1901

Cars	94	Cars	70	15	35	120
Trucks	2	Trucks	3	0	1	4
Heavys	3	Heavys	10	0	0	10
Totals	99	Totals	83	15	36	



Reynolds St

Peds Cross: \times

South Peds: 5

South Entering: 134

South Leg Total: 233

Comments

Reynolds St @ Cornwall Rd

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 000000005
Intersection: Cornwall Rd & Reynolds St
TFR File #: 5
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 92
 North Entering: 52
 North Peds: 8
 Peds Cross: \times

Heavys	0	0	0	0
Trucks	0	0	0	0
Cars	33	11	8	52
Totals	33	11	8	



Heavys	0
Trucks	1
Cars	39
Totals	40

East Leg Total: 1998
 East Entering: 1095
 East Peds: 17
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
35	12	1087	1134

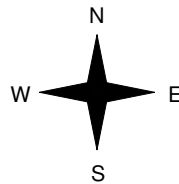


Plaza

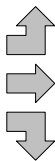
Cars	Trucks	Heavys	Totals
20	0	0	20
987	12	26	1025
49	0	1	50
1056	12	27	



Cornwall Rd



Heavys	Trucks	Cars	Totals
0	0	5	5
29	7	824	860
3	1	63	67
32	8	892	



Cornwall Rd



Cars	Trucks	Heavys	Totals
866	7	30	903

Peds Cross: \times
 West Peds: 1
 West Entering: 932
 West Leg Total: 2066

Cars	123
Trucks	1
Heavys	4
Totals	128



Cars	67	14	34	115
Trucks	0	1	0	1
Heavys	9	0	1	10
Totals	76	15	35	

Peds Cross: \times
 South Peds: 21
 South Entering: 126
 South Leg Total: 254

Comments

Reynolds St @ Cornwall Rd

Total Count Diagram

Municipality: Oakville
Site #: 000000005
Intersection: Cornwall Rd & Reynolds St
TFR File #: 5
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Signalized Intersection ****

Major Road: Cornwall Rd runs W/E

North Leg Total: 568
 North Entering: 319
 North Peds: 72
 Peds Cross: \times

Heavys	7	0	1	8
Trucks	2	0	0	2
Cars	201	50	58	309
Totals	210	50	59	



Heavys	0
Trucks	1
Cars	248
Totals	249

East Leg Total: 13395
 East Entering: 6959
 East Peds: 93
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
258	91	6912	7261

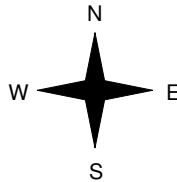


Plaza

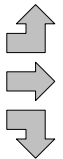
Cars	Trucks	Heavys	Totals
144	0	0	144
6245	84	175	6504
308	1	2	311
6697	85	177	



Cornwall Rd



Heavys	Trucks	Cars	Totals
0	0	28	28
201	85	5874	6160
41	6	351	398
242	91	6253	

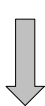


Cornwall Rd



Peds Cross: \times
 West Peds: 7
 West Entering: 6586
 West Leg Total: 13847

Cars	709	Cars	466	76	211	753
Trucks	7	Trucks	5	1	3	9
Heavys	43	Heavys	76	0	3	79
Totals	759	Totals	547	77	217	



Reynolds St



Peds Cross: \times
 South Peds: 75
 South Entering: 841
 South Leg Total: 1600

Comments

Reynolds St @ Freestone Ln

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:00:00

To: 9:00:00

Municipality: Oakville
Site #: 000000009
Intersection: Reynolds St & Freestone Ln
TFR File #: 9
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 139
 North Entering: 90
 North Peds: 0
 Peds Cross: \bowtie

Heavys	0	5	0	5
Trucks	0	0	0	0
Cars	1	80	4	85
Totals	1	85	4	



Heavys	6
Trucks	0
Cars	43
Totals	49

East Leg Total: 8
 East Entering: 0
 East Peds: 5
 Peds Cross: \bowtie

Heavys	0
Trucks	0
Cars	7
Totals	7

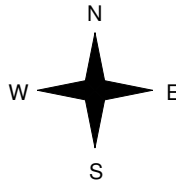


Reynolds St

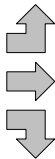
Cars	0	0	0	0
Trucks	0	0	0	0
Heavys	0	0	0	0
Totals	0	0	0	0



Freestone Ln



Heavys	0		
Trucks	0		
Cars	4		
Totals	4		
0	0	1	1
0	0	0	0
0	0	5	



Parking Lot



Cars	8	0	0	8
Trucks	0	0	0	0
Heavys	0	0	0	0
Totals	8	0	0	8

Peds Cross: \bowtie
 West Peds: 3
 West Entering: 5
 West Leg Total: 12

Cars	80
Trucks	0
Heavys	5
Totals	85



Cars	6	39	3	48
Trucks	0	0	0	0
Heavys	0	6	0	6
Totals	6	45	3	

Peds Cross: \bowtie
 South Peds: 3
 South Entering: 54
 South Leg Total: 139

Comments

Reynolds St @ Freestone Ln

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:15:00

To: 12:15:00

Municipality: Oakville
Site #: 000000009
Intersection: Reynolds St & Freestone Ln
TFR File #: 9
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 163
 North Entering: 82
 North Peds: 1
 Peds Cross: \bowtie

Heavys	0	2	0	2
Trucks	1	3	0	4
Cars	1	71	4	76
Totals	2	76	4	



Heavys	4
Trucks	1
Cars	76
Totals	81

East Leg Total: 11
 East Entering: 4
 East Peds: 16
 Peds Cross: \bowtie

Heavys	0
Trucks	1
Cars	3
Totals	4

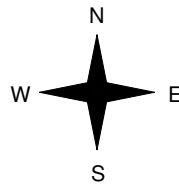


Reynolds St

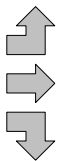
Cars	4	0	0	4
Trucks	0	0	0	0
Heavys	0	0	0	0
Totals	4	0	0	



Freestone Ln



Heavys	0
Trucks	0
Cars	2
Totals	2
Heavys	0
Trucks	1
Cars	0
Totals	1
Heavys	0
Trucks	0
Cars	3
Totals	3
Heavys	0
Trucks	1
Cars	5
Totals	6



Reynolds St

Parking Lot



Cars	6	1	0	7
Trucks				
Heavys				
Totals				

Peds Cross: \bowtie
 West Peds: 4
 West Entering: 6
 West Leg Total: 10

Cars	74
Trucks	3
Heavys	2
Totals	79



Cars	2	70	2	74
Trucks	0	1	0	1
Heavys	0	4	0	4
Totals	2	75	2	

Peds Cross: \bowtie
 South Peds: 0
 South Entering: 79
 South Leg Total: 158

Comments

Reynolds St @ Freestone Ln

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 16:45:00

To: 17:45:00

Municipality: Oakville
Site #: 000000009
Intersection: Reynolds St & Freestone Ln
TFR File #: 9
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 194
 North Entering: 88
 North Peds: 0
 Peds Cross: \bowtie

Heavys	0	4	0	4
Trucks	0	1	0	1
Cars	2	78	3	83
Totals	2	83	3	



Heavys	2
Trucks	0
Cars	104
Totals	106

East Leg Total: 6
 East Entering: 2
 East Peds: 19
 Peds Cross: \bowtie

Heavys	Trucks	Cars	Totals
0	0	4	4

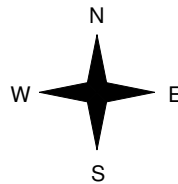


Reynolds St

Cars	Trucks	Heavys	Totals
1	0	0	1
0	0	0	0
1	0	0	1
2	0	0	



Freestone Ln



Heavys	Trucks	Cars	Totals
0	0	4	4
0	0	0	0
0	0	5	5
0	0	9	



Parking Lot



Reynolds St

Cars	Trucks	Heavys	Totals
4	0	0	4

Peds Cross: \bowtie
 West Peds: 4
 West Entering: 9
 West Leg Total: 13

Cars	84	Cars	2	99	1	102
Trucks	1	Trucks	0	0	0	0
Heavys	4	Heavys	0	2	0	2
Totals	89	Totals	2	101	1	



Peds Cross: \bowtie
 South Peds: 0
 South Entering: 104
 South Leg Total: 193

Comments

Reynolds St @ Freestone Ln

Total Count Diagram

Municipality: Oakville
Site #: 000000009
Intersection: Reynolds St & Freestone Ln
TFR File #: 9
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 1146
 North Entering: 595
 North Peds: 2
 Peds Cross: \times

Heavys	1	26	0	27
Trucks	1	9	1	11
Cars	14	524	19	557
Totals	16	559	20	



Heavys 29
 Trucks 6
 Cars 516
 Totals 551

East Leg Total: 57
 East Entering: 21
 East Peds: 97
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
1	1	39	41

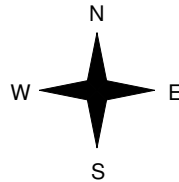


Reynolds St

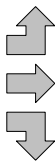
Cars	Trucks	Heavys	Totals
13	1	0	14
3	0	0	3
4	0	0	4
20	1	0	



Freestone Ln



Heavys	Trucks	Cars	Totals
0	0	19	19
0	1	6	7
0	0	21	21
0	1	46	



Reynolds St

Parking Lot



Cars	Trucks	Heavys	Totals
34	2	0	36

Peds Cross: \times
 West Peds: 19
 West Entering: 47
 West Leg Total: 88

Cars	549	Cars	22	484	9	515
Trucks	9	Trucks	0	5	0	5
Heavys	26	Heavys	0	29	0	29
Totals	584	Totals	22	518	9	



Peds Cross: \times
 South Peds: 15
 South Entering: 549
 South Leg Total: 1133

Comments

Reynolds St @ Lawson St

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 7:30:00

To: 8:30:00

Municipality: Oakville
Site #: 000000007
Intersection: Reynolds St & Lawson St
TFR File #: 7
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 158
 North Entering: 93
 North Peds: 1
 Peds Cross: \times

Heavys	0	4	0	4
Trucks	1	0	0	1
Cars	17	68	3	88
Totals	18	72	3	



Heavys	8
Trucks	0
Cars	57
Totals	65

East Leg Total: 9
 East Entering: 1
 East Peds: 13
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
1	1	31	33

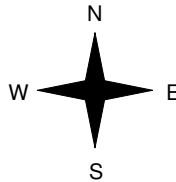


Reynolds St

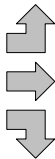
Cars	Trucks	Heavys	Totals
0	0	0	0
1	0	0	1
0	0	0	0
1	0	0	



Lawson St



Heavys	Trucks	Cars	Totals
0	0	4	4
0	0	4	4
1	0	7	8
1	0	15	



Reynolds St

Parking Lot



Cars	Trucks	Heavys	Totals
8	0	0	8

Peds Cross: \times
 West Peds: 1
 West Entering: 16
 West Leg Total: 49

Cars	75	Cars	13	53	1	67
Trucks	0	Trucks	0	0	0	0
Heavys	5	Heavys	1	8	0	9
Totals	80	Totals	14	61	1	



Peds Cross: \times
 South Peds: 1
 South Entering: 76
 South Leg Total: 156

Comments

Reynolds St @ Lawson St

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:00:00

To: 12:00:00

Municipality: Oakville
Site #: 000000007
Intersection: Reynolds St & Lawson St
TFR File #: 7
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

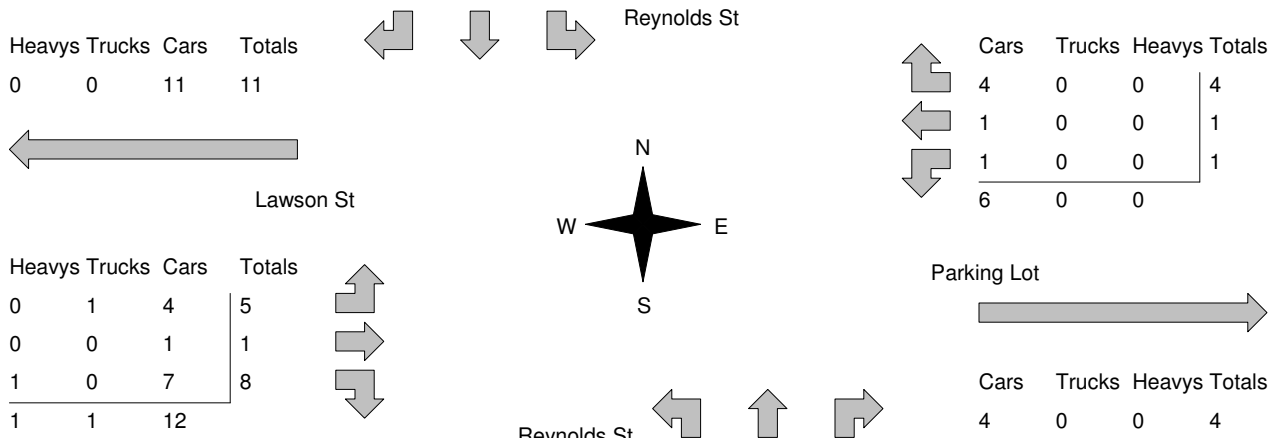
Major Road: Reynolds St runs N/S

North Leg Total: 183
 North Entering: 91
 North Peds: 0
 Peds Cross: \times

Heavys	0	4	0	4
Trucks	0	1	0	1
Cars	4	80	2	86
Totals	4	85	2	

Heavys	11
Trucks	2
Cars	79
Totals	92

East Leg Total: 10
 East Entering: 6
 East Peds: 8
 Peds Cross: \times



Peds Cross: \times
 West Peds: 0
 West Entering: 14
 West Leg Total: 25

Cars	88	Cars	6	71	1	78
Trucks	1	Trucks	0	1	0	1
Heavys	5	Heavys	0	11	0	11
Totals	94	Totals	6	83	1	

Peds Cross: \times
 South Peds: 1
 South Entering: 90
 South Leg Total: 184

Comments

Reynolds St @ Lawson St

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 000000007
Intersection: Reynolds St & Lawson St
TFR File #: 7
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 223
 North Entering: 123
 North Peds: 5
 Peds Cross: \times

Heavys	0	3	0	3
Trucks	0	1	0	1
Cars	13	101	5	119
Totals	13	105	5	



Heavys	7
Trucks	1
Cars	92
Totals	100

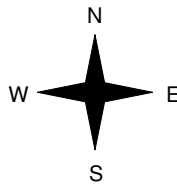
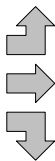
East Leg Total: 27
 East Entering: 18
 East Peds: 22
 Peds Cross: \times

Heavys	0	0	27	27
--------	---	---	----	----



Lawson St

Heavys	0	0	6	6
Trucks	0	0	3	3
Cars	0	0	6	6
Totals	0	0	15	



Reynolds St



Cars	13	0	0	13
Trucks	0	0	0	0
Heavys	5	0	0	5
Totals	18	0	0	

Parking Lot



Cars	9	0	0	9
------	---	---	---	---

Peds Cross: \times
 West Peds: 2
 West Entering: 15
 West Leg Total: 42

Cars	107
Trucks	1
Heavys	3
Totals	111



Cars	9	73	1	83
Trucks	0	1	0	1
Heavys	0	7	0	7
Totals	9	81	1	

Peds Cross: \times
 South Peds: 2
 South Entering: 91
 South Leg Total: 202

Comments

Reynolds St @ Lawson St

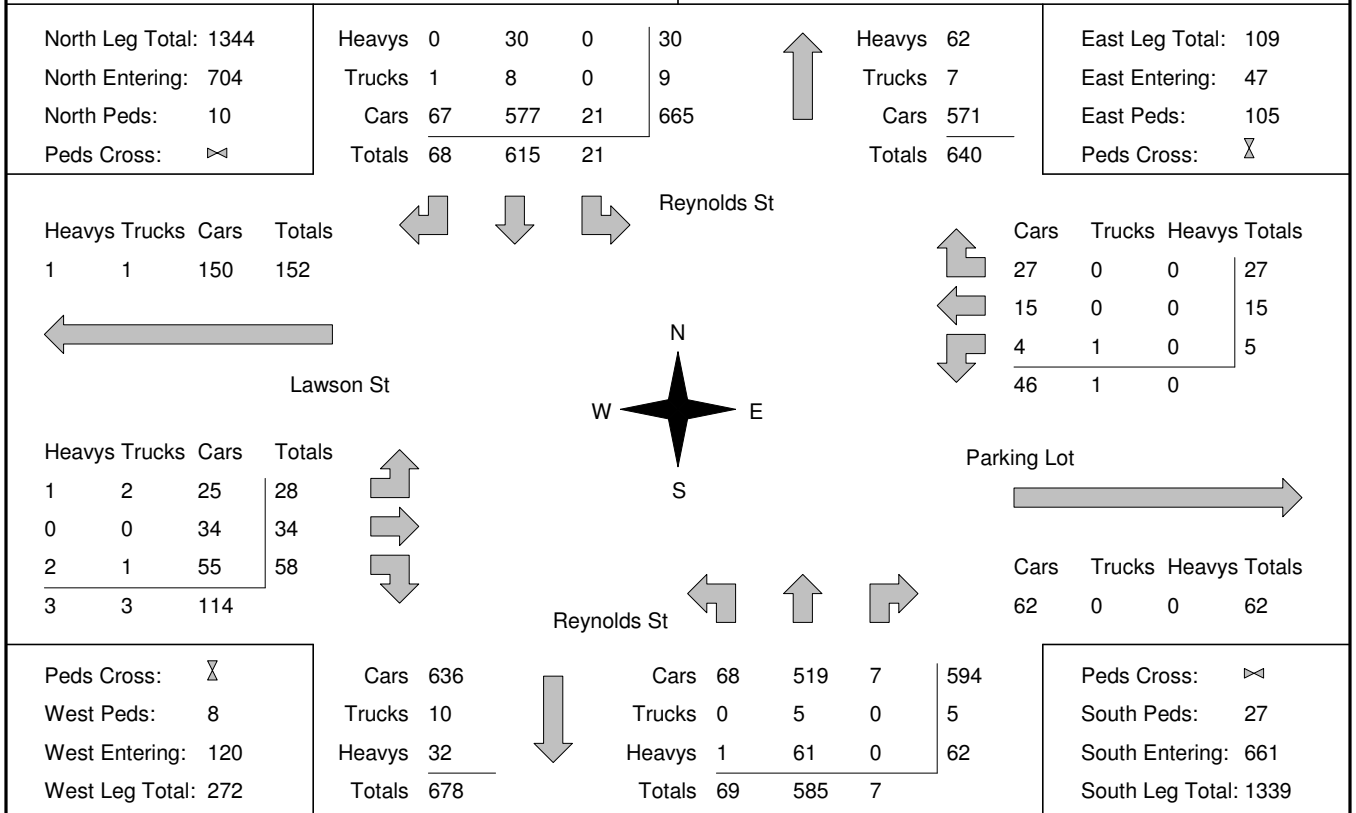
Total Count Diagram

Municipality: Oakville
Site #: 000000007
Intersection: Reynolds St & Lawson St
TFR File #: 7
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S



Comments

Reynolds St @ MacDonald Rd

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:00:00

To: 9:00:00

Municipality: Oakville
Site #: 000000006
Intersection: Reynolds St & MacDonald Rd
TFR File #: 6
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 147
 North Entering: 90
 North Peds: 0
 Peds Cross: \times

Heavys	0	3	4	7
Trucks	0	1	0	1
Cars	7	72	3	82
Totals	7	76	7	



Heavys	10
Trucks	0
Cars	47
Totals	57

East Leg Total: 93
 East Entering: 45
 East Peds: 9
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
1	0	32	33

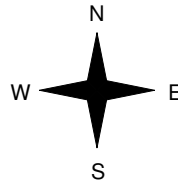


Reynolds St

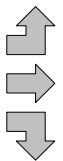
Cars	Trucks	Heavys	Totals
13	0	3	16
19	0	1	20
9	0	0	9
41	0	4	



MacDonald Rd



Heavys	Trucks	Cars	Totals
0	0	1	1
1	0	28	29
0	0	21	21
1	0	50	



MacDonald Rd



Peds Cross: \times
 West Peds: 3
 West Entering: 51
 West Leg Total: 84

Cars	102
Trucks	1
Heavys	3
Totals	106



Reynolds St

Cars	6	33	12	51
Trucks	0	0	0	0
Heavys	0	7	0	7
Totals	6	40	12	

Peds Cross: \times
 South Peds: 5
 South Entering: 58
 South Leg Total: 164

Comments

Reynolds St @ MacDonald Rd

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:00:00

To: 12:00:00

Municipality: Oakville
Site #: 000000006
Intersection: Reynolds St & MacDonald Rd
TFR File #: 6
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 195

North Entering: 92

North Peds: 1

Peds Cross: \times

Heavys	0	2	1	3
Trucks	1	2	0	3
Cars	5	76	5	86
Totals	6	80	6	



Heavys 12

Trucks 1

Cars 90

Totals 103

East Leg Total: 59

East Entering: 27

East Peds: 7

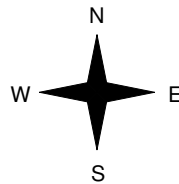
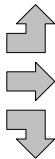
Peds Cross: \times

Heavys	0	Trucks	1	Cars	30	Totals	31
0		1		30		31	



MacDonald Rd

Heavys	0	Trucks	0	Cars	7	Totals	7
0		0		7		7	
0		0		16		16	
0		1		8		9	
0		1		31		31	



Reynolds St

Cars	2	Trucks	0	Heavys	1	Totals	3
2		0		1		3	
20		0		0		20	
4		0		0		4	
26		0		1			

MacDonald Rd



Cars	29	Trucks	2	Heavys	1	Totals	32
29		2		1		32	

Peds Cross: \times

West Peds: 0

West Entering: 32

West Leg Total: 63

Cars	88	Cars	5	81	8	94
88		5		81		94
Trucks	3	Trucks	0	1	2	3
3		0		1		3
Heavys	2	Heavys	0	11	0	11
2		0		11		11
Totals	93	Totals	5	93	10	



Peds Cross: \times

South Peds: 0

South Entering: 108

South Leg Total: 201

Comments

Reynolds St @ MacDonald Rd

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 000000006
Intersection: Reynolds St & MacDonald Rd
TFR File #: 6
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 214
 North Entering: 106
 North Peds: 8
 Peds Cross: \times

Heavys	0	3	2	5
Trucks	0	1	0	1
Cars	8	88	4	100
Totals	8	92	6	



Heavys	10
Trucks	1
Cars	97
Totals	108

East Leg Total: 81
 East Entering: 53
 East Peds: 26
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
1	0	50	51

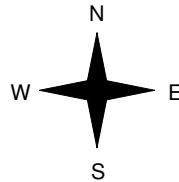


Reynolds St

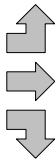
Cars	Trucks	Heavys	Totals
11	0	3	14
29	0	1	30
9	0	0	9
49	0	4	



MacDonald Rd



Heavys	Trucks	Cars	Totals
0	0	9	9
2	0	12	14
0	0	24	24
2	0	45	



MacDonald Rd



Cars	Trucks	Heavys	Totals
24	0	4	28

Cars Trucks Heavys Totals
 24 0 4 28

Peds Cross: \times
 West Peds: 11
 West Entering: 47
 West Leg Total: 98

Cars	121	Cars	13	77	8	98
Trucks	1	Trucks	0	1	0	1
Heavys	3	Heavys	0	7	0	7
Totals	125	Totals	13	85	8	



Peds Cross: \times
 South Peds: 14
 South Entering: 106
 South Leg Total: 231

Comments

Reynolds St @ MacDonald Rd

Total Count Diagram

Municipality: Oakville
Site #: 000000006
Intersection: Reynolds St & MacDonald Rd
TFR File #: 6
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 1372
 North Entering: 678
 North Peds: 30
 Peds Cross: \bowtie

Heavys	0	27	17	44
Trucks	1	11	0	12
Cars	46	549	27	622
Totals	47	587	44	



Heavys	79
Trucks	7
Cars	608
Totals	694

East Leg Total: 504
 East Entering: 264
 East Peds: 89
 Peds Cross: \bowtie

Heavys	Trucks	Cars	Totals
6	2	266	274

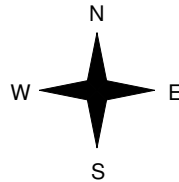


Reynolds St

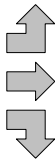
Cars	Trucks	Heavys	Totals
63	1	17	81
136	1	6	143
38	1	1	40
237	3	24	



MacDonald Rd



Heavys	Trucks	Cars	Totals
0	1	39	40
7	0	138	145
0	1	95	96
7	2	272	



MacDonald Rd



Cars	Trucks	Heavys	Totals
214	2	24	240

Peds Cross: \bowtie
 West Peds: 18
 West Entering: 281
 West Leg Total: 555

Cars	682	Cars	84	506	49	639
Trucks	13	Trucks	0	5	2	7
Heavys	28	Heavys	0	62	0	62
Totals	723	Totals	84	573	51	



Reynolds St

Peds Cross: \bowtie
 South Peds: 33
 South Entering: 708
 South Leg Total: 1431

Comments

Reynolds St @ Sheddon Ave

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:15:00

To: 9:15:00

Municipality: Oakville
Site #: 000000008
Intersection: Reynolds St & Sheddon Ave
TFR File #: 8
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

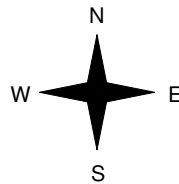
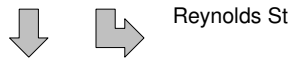
Major Road: Reynolds St runs N/S

North Leg Total: 151
 North Entering: 95
 North Peds: 1
 Peds Cross: \times

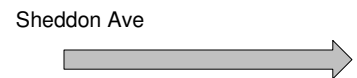
Heavys	4	0	4
Trucks	0	1	1
Cars	83	7	90
Totals	87	8	

Heavys	10
Trucks	0
Cars	46
Totals	56

East Leg Total: 23
 East Entering: 12
 East Peds: 9
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Northbound Right Turn	5	0	4	9
Northbound Left Turn	2	0	1	3
Totals	7	0	5	



Reynolds St

Cars	85	Cars	41	3	44
Trucks	0	Trucks	0	0	0
Heavys	5	Heavys	6	0	6
Totals	90	Totals	47	3	

Cars	Trucks	Heavys	Totals
10	1	0	11

Peds Cross: \times
 South Peds: 0
 South Entering: 50
 South Leg Total: 140

Comments

Reynolds St @ Sheddon Ave

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:00:00

To: 12:00:00

Municipality: Oakville
Site #: 0000000008
Intersection: Reynolds St & Sheddon Ave
TFR File #: 8
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

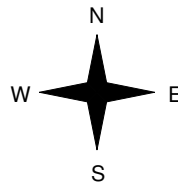
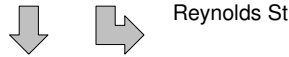
North Leg Total: 181
 North Entering: 91
 North Peds: 0
 Peds Cross: \times

Heavys	3	2	5
Trucks	2	0	2
Cars	79	5	84
Totals	84	7	



Heavys	11
Trucks	1
Cars	78
Totals	90

East Leg Total: 25
 East Entering: 13
 East Peds: 17
 Peds Cross: \times

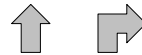


	Cars	Trucks	Heavys	Totals
Northbound	4	0	8	12
Southbound	1	0	0	1
Totals	5	0	8	

Sheddon Ave



Reynolds St



Cars	80	Cars	74	4	78
Trucks	2	Trucks	1	0	1
Heavys	3	Heavys	3	1	4
Totals	85	Totals	78	5	



Cars	Trucks	Heavys	Totals
9	0	3	12

Peds Cross: \times
 South Peds: 0
 South Entering: 83
 South Leg Total: 168

Comments

Reynolds St @ Sheddon Ave

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 16:45:00

To: 17:45:00

Municipality: Oakville
Site #: 000000008
Intersection: Reynolds St & Sheddon Ave
TFR File #: 8
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

North Leg Total: 203
 North Entering: 96
 North Peds: 3
 Peds Cross: \times

Heavys	4	0	4
Trucks	1	0	1
Cars	79	12	91
Totals	84	12	

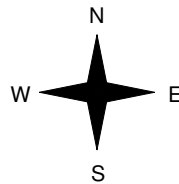


Heavys	2
Trucks	0
Cars	105
Totals	107

East Leg Total: 17
 East Entering: 3
 East Peds: 16
 Peds Cross: \times



Reynolds St



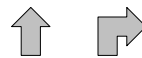
	Cars	Trucks	Heavys	Totals
Upward arrow	1	0	0	1
Downward arrow	2	0	0	2
Totals	3	0	0	

Sheddon Ave



Cars	Trucks	Heavys	Totals
14	0	0	14

Reynolds St



Cars	81	Cars	104	2	106
Trucks	1	Trucks	0	0	0
Heavys	4	Heavys	2	0	2
Totals	86	Totals	106	2	



Peds Cross: \times
 South Peds: 0
 South Entering: 108
 South Leg Total: 194

Comments

Reynolds St @ Sheddon Ave

Total Count Diagram

Municipality: Oakville
Site #: 0000000008
Intersection: Reynolds St & Sheddon Ave
TFR File #: 8
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Reynolds St runs N/S

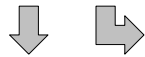
North Leg Total: 1255
 North Entering: 644
 North Peds: 4
 Peds Cross: \times

Heavys	27	5	32
Trucks	8	2	10
Cars	544	58	602
Totals	579	65	

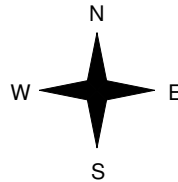


Heavys	62
Trucks	6
Cars	543
Totals	611

East Leg Total: 191
 East Entering: 97
 East Peds: 109
 Peds Cross: \times



Reynolds St

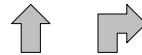


	Cars	Trucks	Heavys	Totals
	42	1	35	78
	17	0	2	19
	59	1	37	

Sheddon Ave



Reynolds St



Cars	561	Cars	501	27	528
Trucks	8	Trucks	5	1	6
Heavys	29	Heavys	27	1	28
Totals	598	Totals	533	29	



Cars	Trucks	Heavys	Totals
85	3	6	94

Peds Cross: \times
 South Peds: 2
 South Entering: 562
 South Leg Total: 1160

Comments

Trafalgar Rd @ Cornwall Rd

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:00:00

To: 9:00:00

Municipality: Oakville
Site #: 000000010
Intersection: Trafalgar Rd & Cornwall Rd
TFR File #: 10
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

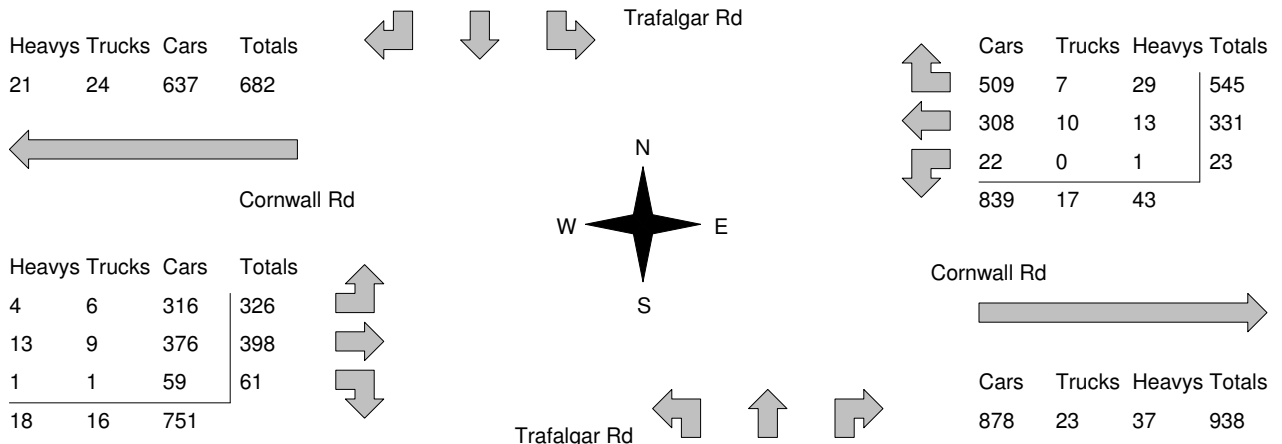
North Leg Total: 2529
 North Entering: 1310
 North Peds: 29
 Peds Cross: \times

Heavys	6	4	23	33
Trucks	14	15	14	43
Cars	275	488	471	1234
Totals	295	507	508	



Heavys	39
Trucks	15
Cars	1165
Totals	1219

East Leg Total: 1837
 East Entering: 899
 East Peds: 11
 Peds Cross: \times



Peds Cross: \times
 West Peds: 18
 West Entering: 785
 West Leg Total: 1467

Cars	569
Trucks	16
Heavys	6
Totals	591

Peds Cross: \times
 South Peds: 17
 South Entering: 436
 South Leg Total: 1027

Comments

Trafalgar Rd @ Cornwall Rd

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 12:00:00

To: 13:00:00

Municipality: Oakville
Site #: 000000010
Intersection: Trafalgar Rd & Cornwall Rd
TFR File #: 10
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

North Leg Total: 2551
 North Entering: 1220
 North Peds: 16
 Peds Cross: \times

Heavys	4	2	19	25
Trucks	11	12	10	33
Cars	159	506	497	1162
Totals	174	520	526	



Heavys	27
Trucks	15
Cars	1289
Totals	1331

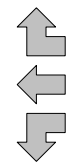
East Leg Total: 1864
 East Entering: 994
 East Peds: 21
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
18	16	483	517

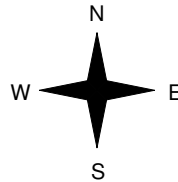


Trafalgar Rd

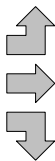
Cars	Trucks	Heavys	Totals
599	10	18	627
302	5	13	320
47	0	0	47
948	15	31	



Cornwall Rd



Heavys	Trucks	Cars	Totals
5	3	282	290
5	10	292	307
0	1	40	41
10	14	614	



Cornwall Rd



Peds Cross: \times
 West Peds: 8
 West Entering: 638
 West Leg Total: 1155

Cars	593	Cars	22	408	37	467
Trucks	13	Trucks	0	2	0	2
Heavys	2	Heavys	1	4	0	5
Totals	608	Totals	23	414	37	



Trafalgar Rd



Peds Cross: \times
 South Peds: 5
 South Entering: 474
 South Leg Total: 1082

Comments

Trafalgar Rd @ Cornwall Rd

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 000000010
Intersection: Trafalgar Rd & Cornwall Rd
TFR File #: 10
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

North Leg Total: 2728
 North Entering: 1287
 North Peds: 4
 Peds Cross: \bowtie

Heavys	7	3	16	26
Trucks	4	2	9	15
Cars	264	490	492	1246
Totals	275	495	517	



Heavys	33
Trucks	13
Cars	1395
Totals	1441

East Leg Total: 2031
 East Entering: 1124
 East Peds: 6
 Peds Cross: \bowtie

Heavys	Trucks	Cars	Totals
21	9	705	735

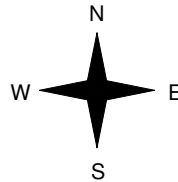


Trafalgar Rd

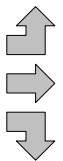
Cars	Trucks	Heavys	Totals
623	7	21	651
397	4	13	414
57	0	2	59
1077	11	36	



Cornwall Rd



Heavys	Trucks	Cars	Totals
6	1	319	326
12	2	327	341
1	1	26	28
19	4	672	



Cornwall Rd



Peds Cross: \bowtie
 West Peds: 13
 West Entering: 695
 West Leg Total: 1430

Cars	573	Cars	44	453	48	545
Trucks	3	Trucks	1	5	0	6
Heavys	6	Heavys	1	6	1	8
Totals	582	Totals	46	464	49	



Trafalgar Rd



Cars	Trucks	Heavys	Totals
867	11	29	907

Peds Cross: \bowtie
 South Peds: 15
 South Entering: 559
 South Leg Total: 1141

Comments

Trafalgar Rd @ Cornwall Rd

Total Count Diagram

Municipality: Oakville
Site #: 000000010
Intersection: Trafalgar Rd & Cornwall Rd
TFR File #: 10
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

North Leg Total: 18638
 North Entering: 9223
 North Peds: 147
 Peds Cross: \times

Heavys	36	19	153	208
Trucks	55	48	63	166
Cars	1929	3488	3432	8849
Totals	2020	3555	3648	



Heavys	229
Trucks	85
Cars	9101
Totals	9415

East Leg Total: 13626
 East Entering: 7199
 East Peds: 94
 Peds Cross: \times

Heavys	Trucks	Cars	Totals
130	105	4758	4993



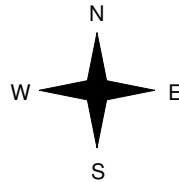
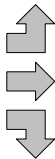
Trafalgar Rd

Cars	Trucks	Heavys	Totals
4056	44	166	4266
2501	49	88	2638
289	3	3	295
6846	96	257	



Cornwall Rd

Heavys	Trucks	Cars	Totals
38	22	2266	2326
70	45	2396	2511
5	9	323	337
113	76	4985	



Trafalgar Rd



Cars	Trucks	Heavys	Totals
6092	109	226	6427



Peds Cross: \times
 West Peds: 111
 West Entering: 5174
 West Leg Total: 10167

Cars	4100
Trucks	60
Heavys	27
Totals	4187



Cars	328	2779	264	3371
Trucks	1	19	1	21
Heavys	6	25	3	34
Totals	335	2823	268	

Peds Cross: \times
 South Peds: 80
 South Entering: 3426
 South Leg Total: 7613

Comments

Trafalgar Rd @ Freestone Ln

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:30:00

To: 9:30:00

Municipality: Oakville
Site #: 0000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

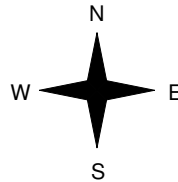
North Leg Total: 754
 North Entering: 504
 North Peds: 0
 Peds Cross: \times

Heavys	1	0	1
Trucks	7	0	7
Cars	495	1	496
Totals	503	1	



Heavys	3
Trucks	2
Cars	245
Totals	250

East Leg Total: 5
 East Entering: 2
 East Peds: 18
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
	2	0	0	2
	0	0	0	0
	2	0	0	



	Cars	Trucks	Heavys	Totals
	3	0	0	3

Cars	495		Cars	243	2	245
Trucks	7		Trucks	2	0	2
Heavys	1		Heavys	3	0	3
Totals	503		Totals	248	2	



Peds Cross: \times
 South Peds: 4
 South Entering: 250
 South Leg Total: 753

Comments

Trafalgar Rd @ Freestone Ln

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:45:00

To: 12:45:00

Municipality: Oakville
Site #: 000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

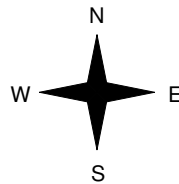
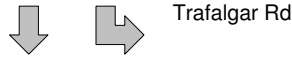
North Leg Total: 937
 North Entering: 513
 North Peds: 0
 Peds Cross: \times

Heavys	2	0	2
Trucks	3	0	3
Cars	503	5	508
Totals	508	5	



Heavys	1
Trucks	7
Cars	416
Totals	424

East Leg Total: 13
 East Entering: 6
 East Peds: 20
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
	6	0	0	6
	0	0	0	0
	6	0	0	



	Cars	Trucks	Heavys	Totals
	7	0	0	7

Cars	503	Cars	410	2	412
Trucks	3	Trucks	7	0	7
Heavys	2	Heavys	1	0	1
Totals	508	Totals	418	2	



Peds Cross: \times
 South Peds: 1
 South Entering: 420
 South Leg Total: 928

Comments

Trafalgar Rd @ Freestone Ln

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 17:00:00

To: 18:00:00

Municipality: Oakville
Site #: 0000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

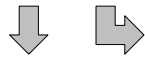
North Leg Total: 928
 North Entering: 512
 North Peds: 0
 Peds Cross: \times

Heavys	2	0	2
Trucks	1	0	1
Cars	503	6	509
Totals	506	6	

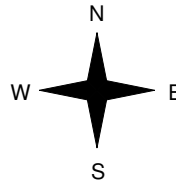


Heavys	5
Trucks	3
Cars	408
Totals	416

East Leg Total: 12
 East Entering: 5
 East Peds: 18
 Peds Cross: \times



Trafalgar Rd



	Cars	Trucks	Heavys	Totals
	4	0	0	4
	1	0	0	1
	5	0	0	

Freestone Ln



	Cars	Trucks	Heavys	Totals
	7	0	0	7

Cars	504
Trucks	1
Heavys	2
Totals	507



Cars	404	1	405
Trucks	3	0	3
Heavys	5	0	5
Totals	412	1	

Peds Cross: \times
 South Peds: 2
 South Entering: 413
 South Leg Total: 920

Comments

Trafalgar Rd @ Freestone Ln

Total Count Diagram

Municipality: Oakville
Site #: 0000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

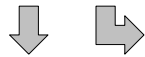
North Leg Total: 6118
 North Entering: 3348
 North Peds: 1
 Peds Cross: \times

Heavys	15	0	15
Trucks	32	0	32
Cars	3272	29	3301
Totals	3319	29	

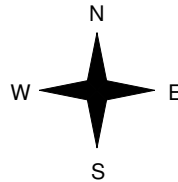


Heavys	24
Trucks	26
Cars	2720
Totals	2770

East Leg Total: 90
 East Entering: 44
 East Peds: 108
 Peds Cross: \times



Trafalgar Rd



	Cars	Trucks	Heavys	Totals
	33	0	1	34
	10	0	0	10
	43	0	1	

Freestone Ln



Cars	Trucks	Heavys	Totals
46	0	0	46

Cars	3282
Trucks	32
Heavys	15
Totals	3329



Trafalgar Rd

Cars	2687	17	2704
Trucks	26	0	26
Heavys	23	0	23
Totals	2736	17	

Peds Cross: \times
 South Peds: 8
 South Entering: 2753
 South Leg Total: 6082

Comments

Trafalgar Rd @ Freestone Ln

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:30:00

To: 9:30:00

Municipality: Oakville
Site #: 0000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

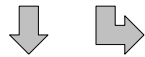
North Leg Total: 754
 North Entering: 504
 North Peds: 0
 Peds Cross: \times

Heavys	1	0	1
Trucks	7	0	7
Cars	495	1	496
Totals	503	1	

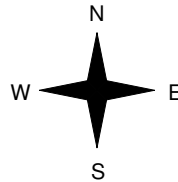


Heavys	3
Trucks	2
Cars	245
Totals	250

East Leg Total: 5
 East Entering: 2
 East Peds: 18
 Peds Cross: \times



Trafalgar Rd



	Cars	Trucks	Heavys	Totals
	2	0	0	2
	0	0	0	0
	<u>2</u>	<u>0</u>	<u>0</u>	

Freestone Ln



Cars	Trucks	Heavys	Totals
3	0	0	3

Cars	495
Trucks	7
Heavys	1
Totals	503



Trafalgar Rd

Cars	243	2	245
Trucks	2	0	2
Heavys	3	0	3
Totals	248	2	

Peds Cross: \times
 South Peds: 4
 South Entering: 250
 South Leg Total: 753

Comments

Trafalgar Rd @ Freestone Ln

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:45:00

To: 12:45:00

Municipality: Oakville
Site #: 000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

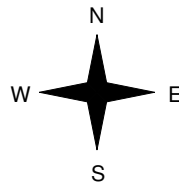
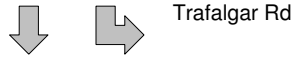
North Leg Total: 937
 North Entering: 513
 North Peds: 0
 Peds Cross: \times

Heavys	2	0	2
Trucks	3	0	3
Cars	503	5	508
Totals	508	5	



Heavys	1
Trucks	7
Cars	416
Totals	424

East Leg Total: 13
 East Entering: 6
 East Peds: 20
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Northbound	6	0	0	6
Southbound	0	0	0	0
Total	6	0	0	6

Freestone Ln



	Cars	Trucks	Heavys	Totals
Westbound	7	0	0	7

Cars	503
Trucks	3
Heavys	2
Totals	508



Cars	410	2	412
Trucks	7	0	7
Heavys	1	0	1
Totals	418	2	

Peds Cross: \times
 South Peds: 1
 South Entering: 420
 South Leg Total: 928

Comments

Trafalgar Rd @ Freestone Ln

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 17:00:00

To: 18:00:00

Municipality: Oakville
Site #: 0000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

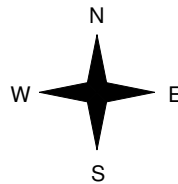
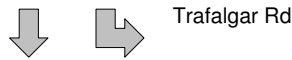
Major Road: Trafalgar Rd runs N/S

North Leg Total: 928
 North Entering: 512
 North Peds: 0
 Peds Cross: ∇

Heavys	2	0	2
Trucks	1	0	1
Cars	503	6	509
Totals	506	6	

Heavys	5
Trucks	3
Cars	408
Totals	416

East Leg Total: 12
 East Entering: 5
 East Peds: 18
 Peds Cross: ∇



	Cars	Trucks	Heavys	Totals
	4	0	0	4
	1	0	0	1
	5	0	0	

Freestone Ln



	Cars	Trucks	Heavys	Totals
	7	0	0	7

Cars	504
Trucks	1
Heavys	2
Totals	507

Cars	404	1	405
Trucks	3	0	3
Heavys	5	0	5
Totals	412	1	

Peds Cross: ∇
 South Peds: 2
 South Entering: 413
 South Leg Total: 920

Comments

Trafalgar Rd @ Freestone Ln

Total Count Diagram

Municipality: Oakville
Site #: 0000000013
Intersection: Trafalgar Rd & Freestone Ln
TFR File #: 13
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

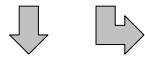
North Leg Total: 6118
 North Entering: 3348
 North Peds: 1
 Peds Cross: \times

Heavys	15	0	15
Trucks	32	0	32
Cars	3272	29	3301
Totals	3319	29	

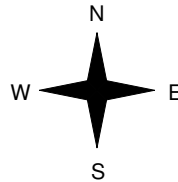


Heavys	24
Trucks	26
Cars	2720
Totals	2770

East Leg Total: 90
 East Entering: 44
 East Peds: 108
 Peds Cross: \times



Trafalgar Rd



	Cars	Trucks	Heavys	Totals
	33	0	1	34
	10	0	0	10
	43	0	1	

Freestone Ln



Cars	Trucks	Heavys	Totals
46	0	0	46

Cars	3282
Trucks	32
Heavys	15
Totals	3329



Trafalgar Rd

Cars	2687	17	2704
Trucks	26	0	26
Heavys	23	0	23
Totals	2736	17	

Peds Cross: \times
 South Peds: 8
 South Entering: 2753
 South Leg Total: 6082

Comments

Trafalgar Rd @ Lawson St

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:30:00

To: 9:30:00

Municipality: Oakville
Site #: 0000000012
Intersection: Trafalgar Rd & Lawson St
TFR File #: 12
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

North Leg Total: 811
 North Entering: 541
 North Peds: 0
 Peds Cross: \times

Heavys	1	1	2
Trucks	7	0	7
Cars	518	14	532
Totals	526	15	

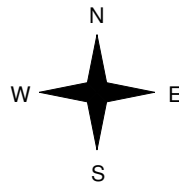


Heavys	4
Trucks	2
Cars	264
Totals	270

East Leg Total: 29
 East Entering: 13
 East Peds: 15
 Peds Cross: \times



Trafalgar Rd



	Cars	Trucks	Heavys	Totals
Northbound	12	0	0	12
Southbound	1	0	0	1
Total	13	0	0	

Lawson St



Trafalgar Rd

Cars	519
Trucks	7
Heavys	1
Totals	527



Cars	252	1	253
Trucks	2	0	2
Heavys	4	0	4
Totals	258	1	

Cars	Trucks	Heavys	Totals
15	0	1	16

Peds Cross: \times
 South Peds: 1
 South Entering: 259
 South Leg Total: 786

Comments

Trafalgar Rd @ Lawson St

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:45:00

To: 12:45:00

Municipality: Oakville
Site #: 0000000012
Intersection: Trafalgar Rd & Lawson St
TFR File #: 12
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

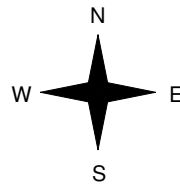
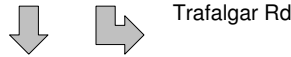
North Leg Total: 975
 North Entering: 528
 North Peds: 0
 Peds Cross: \times

Heavys	2	0	2
Trucks	3	0	3
Cars	508	15	523
Totals	513	15	



Heavys	2
Trucks	6
Cars	439
Totals	447

East Leg Total: 26
 East Entering: 7
 East Peds: 15
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Northbound	6	0	0	6
Southbound	1	0	0	1
Total	7	0	0	



Cars	509	Cars	433	4	437
Trucks	3	Trucks	6	0	6
Heavys	2	Heavys	2	0	2
Totals	514	Totals	441	4	



	Cars	Trucks	Heavys	Totals
Northbound	19	0	0	19

Peds Cross: \times
 South Peds: 0
 South Entering: 445
 South Leg Total: 959

Comments

Trafalgar Rd @ Lawson St

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 17:00:00

To: 18:00:00

Municipality: Oakville
Site #: 0000000012
Intersection: Trafalgar Rd & Lawson St
TFR File #: 12
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

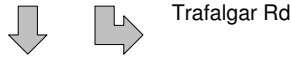
North Leg Total: 966
 North Entering: 532
 North Peds: 0
 Peds Cross: \times

Heavys	3	0	3
Trucks	1	0	1
Cars	516	12	528
Totals	520	12	

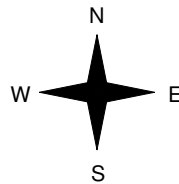


Heavys	5
Trucks	3
Cars	426
Totals	434

East Leg Total: 33
 East Entering: 21
 East Peds: 12
 Peds Cross: \times



Trafalgar Rd

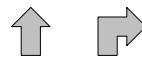


	Cars	Trucks	Heavys	Totals
East Leg	19	0	0	19
East Entering	2	0	0	2
Totals	21	0	0	

Lawson St



Trafalgar Rd



Cars	518
Trucks	1
Heavys	3
Totals	522



Cars	407	0	407
Trucks	3	0	3
Heavys	5	0	5
Totals	415	0	

	Cars	Trucks	Heavys	Totals
South Leg	12	0	0	12

Peds Cross: \times
 South Peds: 0
 South Entering: 415
 South Leg Total: 937

Comments

Trafalgar Rd @ Lawson St

Total Count Diagram

Municipality: Oakville
Site #: 0000000012
Intersection: Trafalgar Rd & Lawson St
TFR File #: 12
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

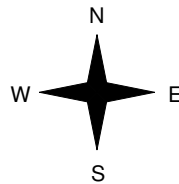
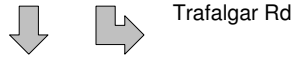
North Leg Total: 6445
 North Entering: 3511
 North Peds: 0
 Peds Cross: \times

Heavys	14	3	17
Trucks	32	1	33
Cars	3358	103	3461
Totals	3404	107	



Heavys	26
Trucks	25
Cars	2883
Totals	2934

East Leg Total: 280
 East Entering: 159
 East Peds: 91
 Peds Cross: \times

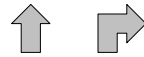


Cars	Trucks	Heavys	Totals
146	1	1	148
11	0	0	11
157	1	1	

Lawson St



Trafalgar Rd



Cars	3369
Trucks	32
Heavys	14
Totals	3415



Cars	2737	13	2750
Trucks	24	0	24
Heavys	25	1	26
Totals	2786	14	

Cars	Trucks	Heavys	Totals
116	1	4	121

Peds Cross: \times
 South Peds: 1
 South Entering: 2800
 South Leg Total: 6215

Comments

Trafalgar Rd @ MacDonald Rd

Morning Peak Diagram

Specified Period

From: 6:30:00

To: 9:30:00

One Hour Peak

From: 8:15:00

To: 9:15:00

Municipality: Oakville
Site #: 0000000011
Intersection: Trafalgar Rd & MacDonald Rd
TFR File #: 11
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

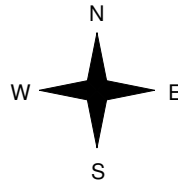
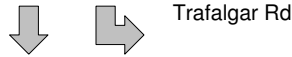
North Leg Total: 1014
 North Entering: 609
 North Peds: 0
 Peds Cross: \times

Heavys	5	1	6
Trucks	8	0	8
Cars	560	35	595
Totals	573	36	

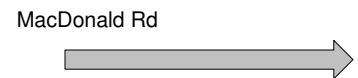


Heavys	6
Trucks	4
Cars	395
Totals	405

East Leg Total: 90
 East Entering: 33
 East Peds: 23
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Northbound (upward arrow)	25	0	0	25
Southbound (downward arrow)	8	0	0	8
Totals	33	0	0	



	Cars	Trucks	Heavys	Totals
Eastbound (rightward arrow)	56	0	1	57

Cars	568
Trucks	8
Heavys	5
Totals	581



Cars	370	21	391
Trucks	4	0	4
Heavys	6	0	6
Totals	380	21	

Peds Cross: \times
 South Peds: 0
 South Entering: 401
 South Leg Total: 982

Comments

Trafalgar Rd @ MacDonald Rd

Mid-day Peak Diagram

Specified Period

From: 11:00:00

To: 13:00:00

One Hour Peak

From: 11:45:00

To: 12:45:00

Municipality: Oakville
Site #: 0000000011
Intersection: Trafalgar Rd & MacDonald Rd
TFR File #: 11
Count date: 12-Sep-2017

Weather conditions:
Clear/Dry
Person(s) who counted:
Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

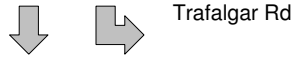
North Leg Total: 1018
 North Entering: 556
 North Peds: 0
 Peds Cross: \times

Heavys	2	0	2
Trucks	4	1	5
Cars	526	23	549
Totals	532	24	

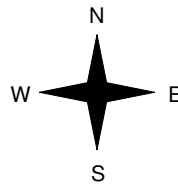


Heavys	2
Trucks	6
Cars	454
Totals	462

East Leg Total: 60
 East Entering: 26
 East Peds: 64
 Peds Cross: \times



Trafalgar Rd



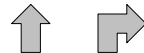
	Cars	Trucks	Heavys	Totals
Northbound	18	0	0	18
Southbound	8	0	0	8
Totals	26	0	0	

MacDonald Rd



	Cars	Trucks	Heavys	Totals
Westbound	33	1	0	34

Trafalgar Rd



Cars	534	Cars	436	10	446
Trucks	4	Trucks	6	0	6
Heavys	2	Heavys	2	0	2
Totals	540	Totals	444	10	



Peds Cross: \times
 South Peds: 0
 South Entering: 454
 South Leg Total: 994

Comments

Trafalgar Rd @ MacDonald Rd

Afternoon Peak Diagram

Specified Period

From: 15:00:00

To: 18:00:00

One Hour Peak

From: 15:00:00

To: 16:00:00

Municipality: Oakville
Site #: 0000000011
Intersection: Trafalgar Rd & MacDonald Rd
TFR File #: 11
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

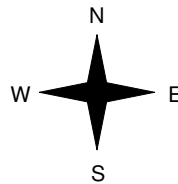
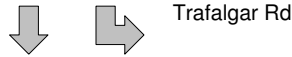
North Leg Total: 1105
 North Entering: 558
 North Peds: 0
 Peds Cross: \times

Heavys	5	1	6
Trucks	3	0	3
Cars	521	28	549
Totals	529	29	

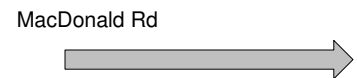


Heavys	8
Trucks	6
Cars	533
Totals	547

East Leg Total: 113
 East Entering: 52
 East Peds: 38
 Peds Cross: \times



	Cars	Trucks	Heavys	Totals
Northbound	43	0	1	44
Southbound	8	0	0	8
Totals	51	0	1	



	Cars	Trucks	Heavys	Totals
Westbound	59	0	2	61

Cars	529	Cars	490	31	521
Trucks	3	Trucks	6	0	6
Heavys	5	Heavys	7	1	8
Totals	537	Totals	503	32	



Peds Cross: \times
 South Peds: 1
 South Entering: 535
 South Leg Total: 1072

Comments

Trafalgar Rd @ MacDonald Rd

Total Count Diagram

Municipality: Oakville
Site #: 0000000011
Intersection: Trafalgar Rd & MacDonald Rd
TFR File #: 11
Count date: 12-Sep-2017

Weather conditions:
 Clear/Dry
Person(s) who counted:
 Cam

**** Non-Signalized Intersection ****

Major Road: Trafalgar Rd runs N/S

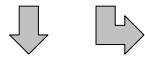
North Leg Total: 7175
 North Entering: 3899
 North Peds: 2
 Peds Cross: \times

Heavys	22	5	27
Trucks	39	1	40
Cars	3630	202	3832
Totals	3691	208	

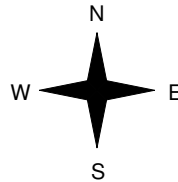


Heavys	32
Trucks	29
Cars	3215
Totals	3276

East Leg Total: 595
 East Entering: 276
 East Peds: 251
 Peds Cross: \times



Trafalgar Rd



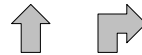
	Cars	Trucks	Heavys	Totals
	220	0	5	225
	47	1	3	51
	267	1	8	

MacDonald Rd



	Cars	Trucks	Heavys	Totals
	310	1	8	319

Trafalgar Rd



Cars	3677	Cars	2995	108	3103
Trucks	40	Trucks	29	0	29
Heavys	25	Heavys	27	3	30
Totals	3742	Totals	3051	111	



Peds Cross: \times
 South Peds: 1
 South Entering: 3162
 South Leg Total: 6904

Comments

Appendix B
Existing (2017) Traffic Analysis – Synchro Output
Sheets

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
1: Trafalgar Road & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	326	398	61	23	331	545	56	348	32	508	507	295
Future Volume (vph)	326	398	61	23	331	545	56	348	32	508	507	295
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.0		5.0	6.0	4.0	4.0	6.0		5.0	6.0	6.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	0.95		0.97	1.00	1.00
Frt	1.00	0.98		1.00	1.00	0.85	1.00	0.99		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3437	3388		1738	3411	1526	1755	3530		3309	1847	1526
Flt Permitted	0.95	1.00		0.47	1.00	1.00	0.46	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3437	3388		858	3411	1526	846	3530		3309	1847	1526
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	354	433	66	25	360	592	61	378	35	552	551	321
RTOR Reduction (vph)	0	9	0	0	0	0	0	5	0	0	0	110
Lane Group Flow (vph)	354	490	0	25	360	592	61	408	0	552	551	211
Heavy Vehicles (%)	3%	6%	3%	5%	7%	7%	4%	2%	3%	7%	4%	7%
Turn Type	Prot	NA		pm+pt	NA	Free	pm+pt	NA		Prot	NA	Perm
Protected Phases	3	8		7	4		5	2		1	6	
Permitted Phases				4		Free	2					6
Actuated Green, G (s)	18.1	34.7		26.8	22.2	140.0	47.7	41.2		37.5	73.2	73.2
Effective Green, g (s)	18.1	34.7		26.8	22.2	140.0	47.7	41.2		37.5	73.2	73.2
Actuated g/C Ratio	0.13	0.25		0.19	0.16	1.00	0.34	0.29		0.27	0.52	0.52
Clearance Time (s)	4.0	6.0		5.0	6.0		4.0	6.0		5.0	6.0	6.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	444	839		193	540	1526	330	1038		886	965	797
v/s Ratio Prot	c0.10	0.14		0.00	c0.11		0.01	0.12		c0.17	c0.30	
v/s Ratio Perm				0.02		0.39	0.05					0.14
v/c Ratio	0.80	0.58		0.13	0.67	0.39	0.18	0.39		0.62	0.57	0.26
Uniform Delay, d1	59.2	46.3		46.4	55.4	0.0	31.5	39.4		45.0	22.7	18.5
Progression Factor	1.00	1.00		1.37	1.20	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	9.6	1.0		0.3	3.0	0.7	0.3	1.1		1.4	2.5	0.8
Delay (s)	68.8	47.3		64.0	69.3	0.7	31.8	40.5		46.4	25.2	19.3
Level of Service	E	D		E	E	A	C	D		D	C	B
Approach Delay (s)		56.2			27.6			39.4			32.1	
Approach LOS		E			C			D			C	

Intersection Summary

HCM 2000 Control Delay	37.4	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.66		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	72.4%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
4: Reynolds Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔↔	↔	↔	↔↔		↔	↔		↔	↔	
Traffic Volume (vph)	0	894	55	38	849	17	45	7	21	4	5	13
Future Volume (vph)	0	894	55	38	849	17	45	7	21	4	5	13
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Lane Util. Factor		0.95	1.00	1.00	0.95		1.00	1.00		1.00	1.00	
Frt		1.00	0.85	1.00	1.00		1.00	0.89		1.00	0.89	
Flt Protected		1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		3444	1601	1789	3436		1789	1674		1789	1675	
Flt Permitted		1.00	1.00	0.29	1.00		0.75	1.00		0.74	1.00	
Satd. Flow (perm)		3444	1601	539	3436		1403	1674		1388	1675	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	972	60	41	923	18	49	8	23	4	5	14
RTOR Reduction (vph)	0	0	10	0	0	0	0	21	0	0	13	0
Lane Group Flow (vph)	0	972	50	41	941	0	49	10	0	4	6	0
Heavy Vehicles (%)	2%	6%	2%	2%	6%	2%	2%	2%	2%	2%	2%	2%
Turn Type		NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8				4
Permitted Phases	2		2	6			8		4			
Actuated Green, G (s)		116.3	116.3	116.3	116.3		12.0	12.0		12.0	12.0	
Effective Green, g (s)		116.3	116.3	116.3	116.3		12.0	12.0		12.0	12.0	
Actuated g/C Ratio		0.83	0.83	0.83	0.83		0.09	0.09		0.09	0.09	
Clearance Time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Vehicle Extension (s)		4.0	4.0	4.0	4.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)		2860	1329	447	2854		120	143		118	143	
v/s Ratio Prot		c0.28			0.27			0.01				0.00
v/s Ratio Perm			0.03	0.08			c0.03			0.00		
v/c Ratio		0.34	0.04	0.09	0.33		0.41	0.07		0.03	0.04	
Uniform Delay, d1		2.8	2.1	2.2	2.8		60.6	58.9		58.7	58.7	
Progression Factor		2.11	4.83	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		0.3	0.0	0.1	0.1		2.3	0.2		0.1	0.1	
Delay (s)		6.2	10.0	2.3	2.9		62.9	59.1		58.8	58.9	
Level of Service		A	B	A	A		E	E		E	E	
Approach Delay (s)		6.4			2.8			61.4			58.8	
Approach LOS		A			A			E			E	

Intersection Summary		
HCM 2000 Control Delay	7.4	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	0.35	A
Actuated Cycle Length (s)	140.0	Sum of lost time (s)
Intersection Capacity Utilization	66.3%	11.7
Analysis Period (min)	15	ICU Level of Service
c Critical Lane Group		C

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
5: Allan Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	20	755	41	22	722	59	125	28	43	43	13	12
Future Volume (vph)	20	755	41	22	722	59	125	28	43	43	13	12
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frt	1.00	0.99		1.00	0.99		1.00	0.91		1.00	0.93	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1789	3423		1789	3414		1789	1711		1789	1747	
Flt Permitted	0.22	1.00		0.21	1.00		0.74	1.00		0.71	1.00	
Satd. Flow (perm)	415	3423		400	3414		1393	1711		1331	1747	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	22	821	45	24	785	64	136	30	47	47	14	13
RTOR Reduction (vph)	0	4	0	0	6	0	0	25	0	0	7	0
Lane Group Flow (vph)	22	862	0	24	843	0	136	52	0	47	20	0
Heavy Vehicles (%)	2%	6%	2%	2%	6%	2%	2%	2%	2%	2%	2%	2%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8			4	
Permitted Phases	2			6			8			4		
Actuated Green, G (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Effective Green, g (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Actuated g/C Ratio	0.41	0.41		0.41	0.41		0.47	0.47		0.47	0.47	
Clearance Time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Vehicle Extension (s)	3.5	3.5		3.5	3.5		2.5	2.5		2.5	2.5	
Lane Grp Cap (vph)	169	1400		163	1396		660	811		630	828	
v/s Ratio Prot		c0.25			0.25			0.03			0.01	
v/s Ratio Perm	0.05			0.06			c0.10			0.04		
v/c Ratio	0.13	0.62		0.15	0.60		0.21	0.06		0.07	0.02	
Uniform Delay, d1	18.4	23.3		18.6	23.2		15.3	14.3		14.3	14.0	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	1.6	2.0		1.9	1.9		0.7	0.2		0.2	0.1	
Delay (s)	20.0	25.4		20.5	25.1		16.0	14.4		14.6	14.0	
Level of Service	C	C		C	C		B	B		B	B	
Approach Delay (s)		25.2			25.0			15.5			14.4	
Approach LOS		C			C			B			B	

Intersection Summary

HCM 2000 Control Delay	23.7	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.40		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.7
Intersection Capacity Utilization	45.5%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
6: Reynolds Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (vph)	1	29	21	9	20	16	6	40	12	7	76	7
Future Volume (vph)	1	29	21	9	20	16	6	40	12	7	76	7
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0			6.0			6.0			6.0	
Lane Util. Factor		1.00			1.00			1.00			1.00	
Frt		0.94			0.95			0.97			0.99	
Flt Protected		1.00			0.99			0.99			1.00	
Satd. Flow (prot)		1777			1777			1821			1855	
Flt Permitted		0.99			0.91			0.98			0.99	
Satd. Flow (perm)		1765			1641			1797			1839	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	32	23	10	22	17	7	43	13	8	83	8
RTOR Reduction (vph)	0	21	0	0	16	0	0	4	0	0	2	0
Lane Group Flow (vph)	0	35	0	0	33	0	0	59	0	0	97	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		pm+pt	NA	
Protected Phases		4			4			2		1	2	
Permitted Phases	4			4			2			2		
Actuated Green, G (s)		5.7			5.7			47.9			47.9	
Effective Green, g (s)		5.7			5.7			47.9			47.9	
Actuated g/C Ratio		0.09			0.09			0.73			0.73	
Clearance Time (s)		6.0			6.0			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		153			142			1312			1342	
v/s Ratio Prot												
v/s Ratio Perm		0.02			c0.02			0.03			c0.05	
v/c Ratio		0.23			0.24			0.05			0.07	
Uniform Delay, d1		27.9			27.9			2.5			2.5	
Progression Factor		1.00			1.00			1.00			1.00	
Incremental Delay, d2		0.8			0.9			0.1			0.0	
Delay (s)		28.7			28.8			2.5			2.5	
Level of Service		C			C			A			A	
Approach Delay (s)		28.7			28.8			2.5			2.5	
Approach LOS		C			C			A			A	

Intersection Summary

HCM 2000 Control Delay	12.8	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.10		
Actuated Cycle Length (s)	65.6	Sum of lost time (s)	15.0
Intersection Capacity Utilization	23.5%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
7: Trafalgar Road & MacDonald Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	8	25	380	21	35	573
Future Volume (Veh/h)	8	25	380	21	35	573
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	9	27	413	23	38	623
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh						
Upstream signal (m)						396
pX, platoon unblocked	0.78					
vC, conflicting volume	1124	424			436	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1019	424			436	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	95	96			97	
cM capacity (veh/h)	199	630			1124	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	36	436	661			
Volume Left	9	0	38			
Volume Right	27	23	0			
cSH	408	1700	1124			
Volume to Capacity	0.09	0.26	0.03			
Queue Length 95th (m)	2.2	0.0	0.8			
Control Delay (s)	14.7	0.0	0.9			
Lane LOS	B		A			
Approach Delay (s)	14.7	0.0	0.9			
Approach LOS	B					
Intersection Summary						
Average Delay			1.0			
Intersection Capacity Utilization			66.7%		ICU Level of Service	C
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
9: Allan Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔			↔			↔			↔	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	4	44	2	21	42	61	4	98	24	12	56	0
Future Volume (vph)	4	44	2	21	42	61	4	98	24	12	56	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	48	2	23	46	66	4	107	26	13	61	0

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	54	135	137	74
Volume Left (vph)	4	23	4	13
Volume Right (vph)	2	66	26	0
Hadj (s)	0.03	-0.23	-0.07	0.07
Departure Headway (s)	4.6	4.2	4.3	4.6
Degree Utilization, x	0.07	0.16	0.17	0.09
Capacity (veh/h)	744	801	788	743
Control Delay (s)	7.9	8.0	8.2	8.0
Approach Delay (s)	7.9	8.0	8.2	8.0
Approach LOS	A	A	A	A

Intersection Summary

Delay	8.1
Level of Service	A
Intersection Capacity Utilization	27.6%
ICU Level of Service	A
Analysis Period (min)	15

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
14: Allan Street & Hospital Access/Galt Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	0	0	0	3	0	2	0	122	3	1	77	0
Future Volume (Veh/h)	0	0	0	3	0	2	0	122	3	1	77	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	3	0	2	0	133	3	1	84	0
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	222	222	84	220	220	134	84			136		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	222	222	84	220	220	134	84			136		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	100	100	100	100			100		
cM capacity (veh/h)	731	676	975	735	677	914	1513			1448		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	0	5	136	85
Volume Left	0	3	0	1
Volume Right	0	2	3	0
cSH	1700	798	1513	1448
Volume to Capacity	0.00	0.01	0.00	0.00
Queue Length 95th (m)	0.0	0.1	0.0	0.0
Control Delay (s)	0.0	9.5	0.0	0.1
Lane LOS	A	A		A
Approach Delay (s)	0.0	9.5	0.0	0.1
Approach LOS	A	A		

Intersection Summary			
Average Delay		0.2	
Intersection Capacity Utilization	16.6%	ICU Level of Service	A
Analysis Period (min)	15		

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
16: Allan Street & Sheddon Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	3	3	2	4	1	3	2	118	3	4	74	3
Future Volume (Veh/h)	3	3	2	4	1	3	2	118	3	4	74	3
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	3	2	4	1	3	2	128	3	4	80	3
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	226	224	82	226	224	130	83			131		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	226	224	82	226	224	130	83			131		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	99	100	100	100			100		
cM capacity (veh/h)	723	672	978	723	672	920	1514			1454		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	8	8	133	87								
Volume Left	3	4	2	4								
Volume Right	2	3	3	3								
cSH	751	778	1514	1454								
Volume to Capacity	0.01	0.01	0.00	0.00								
Queue Length 95th (m)	0.2	0.2	0.0	0.1								
Control Delay (s)	9.8	9.7	0.1	0.4								
Lane LOS	A	A	A	A								
Approach Delay (s)	9.8	9.7	0.1	0.4								
Approach LOS	A	A										
Intersection Summary												
Average Delay			0.9									
Intersection Capacity Utilization			17.0%		ICU Level of Service					A		
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
17: Reynolds Street & Sheddon Avenue



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	3	9	47	3	8	87
Future Volume (Veh/h)	3	9	47	3	8	87
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	10	51	3	9	95
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	166	52			54	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	166	52			54	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	99			99	
cM capacity (veh/h)	820	1015			1551	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	13	54	104			
Volume Left	3	0	9			
Volume Right	10	3	0			
cSH	962	1700	1551			
Volume to Capacity	0.01	0.03	0.01			
Queue Length 95th (m)	0.3	0.0	0.1			
Control Delay (s)	8.8	0.0	0.7			
Lane LOS	A		A			
Approach Delay (s)	8.8	0.0	0.7			
Approach LOS	A					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utilization		21.2%		ICU Level of Service		A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
18: Reynolds Street & Freestone Lane/OCC Access



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	4	1	0	0	0	0	6	45	3	4	85	1
Future Volume (Veh/h)	4	1	0	0	0	0	6	45	3	4	85	1
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	1	0	0	0	0	7	49	3	4	92	1
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	165	166	92	166	166	50	93			52		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	165	166	92	166	166	50	93			52		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	100	100	100	100	100			100		
cM capacity (veh/h)	795	721	965	794	722	1018	1501			1554		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	5	0	59	97								
Volume Left	4	0	7	4								
Volume Right	0	0	3	1								
cSH	779	1700	1501	1554								
Volume to Capacity	0.01	0.00	0.00	0.00								
Queue Length 95th (m)	0.1	0.0	0.1	0.1								
Control Delay (s)	9.7	0.0	0.9	0.3								
Lane LOS	A	A	A	A								
Approach Delay (s)	9.7	0.0	0.9	0.3								
Approach LOS	A	A										
Intersection Summary												
Average Delay			0.8									
Intersection Capacity Utilization			15.3%		ICU Level of Service				A			
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
19: Trafalgar Road & Freestone Lane



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	0	2	248	2	1	503
Future Volume (Veh/h)	0	2	248	2	1	503
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	2	270	2	1	547
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	820	271			272	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	820	271			272	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	344	768			1291	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	2	272	548			
Volume Left	0	0	1			
Volume Right	2	2	0			
cSH	768	1700	1291			
Volume to Capacity	0.00	0.16	0.00			
Queue Length 95th (m)	0.1	0.0	0.0			
Control Delay (s)	9.7	0.0	0.0			
Lane LOS	A		A			
Approach Delay (s)	9.7	0.0	0.0			
Approach LOS	A					
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utilization			37.3%	ICU Level of Service		A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

















AM Peak Hour
24: Trafalgar Road & Lawsons Street



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	1	12	258	1	15	526
Future Volume (Veh/h)	1	12	258	1	15	526
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	13	280	1	16	572
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	884	280			281	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	884	280			281	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	98			99	
cM capacity (veh/h)	312	758			1282	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	14	281	588			
Volume Left	1	0	16			
Volume Right	13	1	0			
cSH	688	1700	1282			
Volume to Capacity	0.02	0.17	0.01			
Queue Length 95th (m)	0.5	0.0	0.3			
Control Delay (s)	10.3	0.0	0.4			
Lane LOS	B		A			
Approach Delay (s)	10.3	0.0	0.4			
Approach LOS	B					
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utilization		49.8%		ICU Level of Service		A
Analysis Period (min)			15			




























Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

AM Peak Hour
25: Reynolds Street & Lawsons Street/Hospital Access

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	4	8	0	1	0	14	61	1	3	72	18
Future Volume (Veh/h)	4	4	8	0	1	0	14	61	1	3	72	18
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	4	9	0	1	0	15	66	1	3	78	20
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)											233	
pX, platoon unblocked												
vC, conflicting volume	191	191	88	202	200	66	98			67		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	191	191	88	202	200	66	98			67		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	99	99	100	100	100	99			100		
cM capacity (veh/h)	761	696	970	740	687	997	1495			1535		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	17	1	82	101								
Volume Left	4	0	15	3								
Volume Right	9	0	1	20								
cSH	838	687	1495	1535								
Volume to Capacity	0.02	0.00	0.01	0.00								
Queue Length 95th (m)	0.5	0.0	0.2	0.0								
Control Delay (s)	9.4	10.2	1.4	0.2								
Lane LOS	A	B	A	A								
Approach Delay (s)	9.4	10.2	1.4	0.2								
Approach LOS	A	B										
Intersection Summary												
Average Delay			1.5									
Intersection Capacity Utilization			21.0%		ICU Level of Service				A			
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
1: Trafalgar Road & Cornwall Road

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	 	 			 			 		 		
Traffic Volume (vph)	326	341	28	59	414	651	46	464	49	517	495	275
Future Volume (vph)	326	341	28	59	414	651	46	464	49	517	495	275
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.0		5.0	6.0	4.0	4.0	6.0		4.0	6.0	6.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	0.95		0.97	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	0.99		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3471	3463		1755	3510	1570	1755	3527		3372	1883	1570
Flt Permitted	0.95	1.00		0.52	1.00	1.00	0.46	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3471	3463		953	3510	1570	856	3527		3372	1883	1570
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	354	371	30	64	450	708	50	504	53	562	538	299
RTOR Reduction (vph)	0	5	0	0	0	0	0	6	0	0	0	112
Lane Group Flow (vph)	354	396	0	64	450	708	50	551	0	562	538	187
Heavy Vehicles (%)	2%	4%	7%	4%	4%	4%	4%	2%	2%	5%	2%	4%
Turn Type	Prot	NA		pm+pt	NA	Free	pm+pt	NA		Prot	NA	Perm
Protected Phases	3	8		7	4		5	2		1	6	
Permitted Phases				4		Free	2					6
Actuated Green, G (s)	18.1	34.0		32.3	24.6	140.0	48.7	42.5		34.8	71.1	71.1
Effective Green, g (s)	18.1	34.0		32.3	24.6	140.0	48.7	42.5		34.8	71.1	71.1
Actuated g/C Ratio	0.13	0.24		0.23	0.18	1.00	0.35	0.30		0.25	0.51	0.51
Clearance Time (s)	4.0	6.0		5.0	6.0		4.0	6.0		4.0	6.0	6.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	448	841		263	616	1570	337	1070		838	956	797
v/s Ratio Prot	c0.10	0.11		0.01	c0.13		0.01	0.16		c0.17	c0.29	
v/s Ratio Perm				0.04		0.45	0.04					0.12
v/c Ratio	0.79	0.47		0.24	0.73	0.45	0.15	0.52		0.67	0.56	0.23
Uniform Delay, d1	59.1	45.3		43.0	54.6	0.0	30.6	40.2		47.4	23.7	19.2
Progression Factor	1.00	1.00		1.39	1.27	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	9.2	0.4		0.5	4.2	0.9	0.2	1.8		2.1	2.4	0.7
Delay (s)	68.3	45.7		60.4	73.5	0.9	30.8	42.0		49.6	26.1	19.9
Level of Service	E	D		E	E	A	C	D		D	C	B
Approach Delay (s)		56.3			30.7			41.1			34.2	
Approach LOS		E			C			D			C	
Intersection Summary												
HCM 2000 Control Delay			38.4	HCM 2000 Level of Service				D				
HCM 2000 Volume to Capacity ratio			0.68									
Actuated Cycle Length (s)			140.0	Sum of lost time (s)				21.0				
Intersection Capacity Utilization			73.0%	ICU Level of Service				C				
Analysis Period (min)			15									
c Critical Lane Group												

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
4: Reynolds Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕↕	↗	↖	↕↕		↖	↗		↖	↗	
Traffic Volume (vph)	5	860	67	50	1025	20	76	15	35	8	11	33
Future Volume (vph)	5	860	67	50	1025	20	76	15	35	8	11	33
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Lane Util. Factor		0.95	1.00	1.00	0.95		1.00	1.00		1.00	1.00	
Frt		1.00	0.85	1.00	1.00		1.00	0.89		1.00	0.89	
Flt Protected		1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		3443	1601	1789	3501		1789	1685		1789	1672	
Flt Permitted		0.95	1.00	0.29	1.00		0.73	1.00		0.72	1.00	
Satd. Flow (perm)		3269	1601	549	3501		1367	1685		1359	1672	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	5	935	73	54	1114	22	83	16	38	9	12	36
RTOR Reduction (vph)	0	0	15	0	0	0	0	34	0	0	32	0
Lane Group Flow (vph)	0	940	58	54	1136	0	83	20	0	9	16	0
Heavy Vehicles (%)	2%	6%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8				4
Permitted Phases	2		2	6			8		4			
Actuated Green, G (s)		112.0	112.0	112.0	112.0		16.3	16.3		16.3	16.3	
Effective Green, g (s)		112.0	112.0	112.0	112.0		16.3	16.3		16.3	16.3	
Actuated g/C Ratio		0.80	0.80	0.80	0.80		0.12	0.12		0.12	0.12	
Clearance Time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Vehicle Extension (s)		4.0	4.0	4.0	4.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)		2615	1280	439	2800		159	196		158	194	
v/s Ratio Prot					c0.32			0.01				0.01
v/s Ratio Perm		0.29	0.04	0.10			c0.06			0.01		
v/c Ratio		0.36	0.05	0.12	0.41		0.52	0.10		0.06	0.08	
Uniform Delay, d1		3.9	2.9	3.1	4.1		58.2	55.3		55.0	55.2	
Progression Factor		1.49	3.51	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		0.3	0.1	0.2	0.1		3.1	0.2		0.2	0.2	
Delay (s)		6.2	10.2	3.3	4.3		61.3	55.6		55.2	55.4	
Level of Service		A	B	A	A		E	E		E	E	
Approach Delay (s)		6.5			4.2			59.0			55.3	
Approach LOS		A			A			E			E	

Intersection Summary

HCM 2000 Control Delay	9.5	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.42		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	11.7
Intersection Capacity Utilization	71.2%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
5: Allan Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	33	655	57	34	840	93	82	29	35	107	38	34
Future Volume (vph)	33	655	57	34	840	93	82	29	35	107	38	34
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frt	1.00	0.99		1.00	0.99		1.00	0.92		1.00	0.93	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1789	3442		1789	3464		1789	1730		1789	1749	
Flt Permitted	0.15	1.00		0.26	1.00		0.71	1.00		0.71	1.00	
Satd. Flow (perm)	282	3442		484	3464		1330	1730		1340	1749	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	36	712	62	37	913	101	89	32	38	116	41	37
RTOR Reduction (vph)	0	7	0	0	8	0	0	20	0	0	19	0
Lane Group Flow (vph)	36	767	0	37	1006	0	89	50	0	116	59	0
Heavy Vehicles (%)	2%	5%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8			4	
Permitted Phases	2			6			8			4		
Actuated Green, G (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Effective Green, g (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Actuated g/C Ratio	0.41	0.41		0.41	0.41		0.47	0.47		0.47	0.47	
Clearance Time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Vehicle Extension (s)	3.5	3.5		3.5	3.5		2.5	2.5		2.5	2.5	
Lane Grp Cap (vph)	115	1407		197	1416		630	820		635	829	
v/s Ratio Prot		0.22			c0.29			0.03			0.03	
v/s Ratio Perm	0.13			0.08			0.07			c0.09		
v/c Ratio	0.31	0.55		0.19	0.71		0.14	0.06		0.18	0.07	
Uniform Delay, d1	20.0	22.5		18.9	24.6		14.8	14.2		15.1	14.3	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	7.0	1.5		2.1	3.0		0.5	0.1		0.6	0.2	
Delay (s)	27.0	24.0		21.0	27.7		15.3	14.4		15.8	14.5	
Level of Service	C	C		C	C		B	B		B	B	
Approach Delay (s)		24.1			27.4			14.9			15.3	
Approach LOS		C			C			B			B	

Intersection Summary		
HCM 2000 Control Delay	24.3	HCM 2000 Level of Service C
HCM 2000 Volume to Capacity ratio	0.43	
Actuated Cycle Length (s)	100.0	Sum of lost time (s) 11.7
Intersection Capacity Utilization	50.6%	ICU Level of Service A
Analysis Period (min)	15	
c Critical Lane Group		

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
6: Reynolds Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (vph)	9	14	24	9	30	14	13	85	8	6	92	8
Future Volume (vph)	9	14	24	9	30	14	13	85	8	6	92	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0			6.0			6.0			6.0	
Lane Util. Factor		1.00			1.00			1.00			1.00	
Frt		0.93			0.97			0.99			0.99	
Flt Protected		0.99			0.99			0.99			1.00	
Satd. Flow (prot)		1737			1802			1852			1858	
Flt Permitted		0.92			0.93			0.97			0.99	
Satd. Flow (perm)		1608			1686			1813			1844	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	10	15	26	10	33	15	14	92	9	7	100	9
RTOR Reduction (vph)	0	24	0	0	14	0	0	2	0	0	2	0
Lane Group Flow (vph)	0	27	0	0	44	0	0	113	0	0	114	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		pm+pt	NA	
Protected Phases		4			4			2		1	2	
Permitted Phases	4			4			2			2		
Actuated Green, G (s)		6.1			6.1			52.2			52.2	
Effective Green, g (s)		6.1			6.1			52.2			52.2	
Actuated g/C Ratio		0.09			0.09			0.74			0.74	
Clearance Time (s)		6.0			6.0			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		139			146			1346			1369	
v/s Ratio Prot												
v/s Ratio Perm		0.02			c0.03			c0.06			0.06	
v/c Ratio		0.20			0.30			0.08			0.08	
Uniform Delay, d1		29.8			30.1			2.5			2.5	
Progression Factor		1.00			1.00			1.00			1.00	
Incremental Delay, d2		0.7			1.2			0.1			0.0	
Delay (s)		30.5			31.3			2.6			2.5	
Level of Service		C			C			A			A	
Approach Delay (s)		30.5			31.3			2.6			2.5	
Approach LOS		C			C			A			A	

Intersection Summary

HCM 2000 Control Delay	11.7	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.11		
Actuated Cycle Length (s)	70.3	Sum of lost time (s)	15.0
Intersection Capacity Utilization	23.5%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
7: Trafalgar Road & MacDonald Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	8	44	503	32	29	529
Future Volume (Veh/h)	8	44	503	32	29	529
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	9	48	547	35	32	575
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked	0.80					396
vC, conflicting volume	1204	564			582	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1128	564			582	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	95	91			97	
cM capacity (veh/h)	174	525			992	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	57	582	607			
Volume Left	9	0	32			
Volume Right	48	35	0			
cSH	398	1700	992			
Volume to Capacity	0.14	0.34	0.03			
Queue Length 95th (m)	3.8	0.0	0.8			
Control Delay (s)	15.5	0.0	0.9			
Lane LOS	C		A			
Approach Delay (s)	15.5	0.0	0.9			
Approach LOS	C					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utilization		61.5%		ICU Level of Service		B
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
9: Allan Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔			↔			↔			↔	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	3	20	3	17	34	32	16	97	23	29	91	4
Future Volume (vph)	3	20	3	17	34	32	16	97	23	29	91	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	22	3	18	37	35	17	105	25	32	99	4

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	28	90	147	135
Volume Left (vph)	3	18	17	32
Volume Right (vph)	3	35	25	4
Hadj (s)	-0.01	-0.16	-0.04	0.06
Departure Headway (s)	4.6	4.4	4.3	4.4
Degree Utilization, x	0.04	0.11	0.17	0.16
Capacity (veh/h)	714	757	808	782
Control Delay (s)	7.8	8.0	8.2	8.3
Approach Delay (s)	7.8	8.0	8.2	8.3
Approach LOS	A	A	A	A

Intersection Summary

Delay	8.1
Level of Service	A
Intersection Capacity Utilization	26.0% ICU Level of Service A
Analysis Period (min)	15

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
14: Allan Street & Hospital Access/Galt Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	0	0	0	0	0	2	0	134	0	0	112	0
Future Volume (Veh/h)	0	0	0	0	0	2	0	134	0	0	112	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	0	0	0	2	0	146	0	0	122	0
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	270	268	122	268	268	146	122			146		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	270	268	122	268	268	146	122			146		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	100	100	100	100			100		
cM capacity (veh/h)	681	638	929	685	638	901	1465			1436		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	0	2	146	122								
Volume Left	0	0	0	0								
Volume Right	0	2	0	0								
cSH	1700	901	1465	1436								
Volume to Capacity	0.00	0.00	0.00	0.00								
Queue Length 95th (m)	0.0	0.1	0.0	0.0								
Control Delay (s)	0.0	9.0	0.0	0.0								
Lane LOS	A	A										
Approach Delay (s)	0.0	9.0	0.0	0.0								
Approach LOS	A	A										
Intersection Summary												
Average Delay			0.1									
Intersection Capacity Utilization			17.1%		ICU Level of Service					A		
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
16: Allan Street & Sheddon Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	3	4	5	3	1	2	2	130	3	5	100	8
Future Volume (Veh/h)	3	4	5	3	1	2	2	130	3	5	100	8
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	4	5	3	1	2	2	141	3	5	109	9
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	272	272	114	277	274	142	118			144		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	272	272	114	277	274	142	118			144		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	99	99	100	100	100	100			100		
cM capacity (veh/h)	675	632	939	666	630	905	1470			1438		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	12	6	146	123								
Volume Left	3	3	2	5								
Volume Right	5	2	3	9								
cSH	746	723	1470	1438								
Volume to Capacity	0.02	0.01	0.00	0.00								
Queue Length 95th (m)	0.4	0.2	0.0	0.1								
Control Delay (s)	9.9	10.0	0.1	0.3								
Lane LOS	A	B	A	A								
Approach Delay (s)	9.9	10.0	0.1	0.3								
Approach LOS	A	B										
Intersection Summary												
Average Delay			0.8									
Intersection Capacity Utilization			18.6%		ICU Level of Service				A			
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
17: Reynolds Street & Sheddon Avenue



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	2	1	106	2	12	84
Future Volume (Veh/h)	2	1	106	2	12	84
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	2	1	115	2	13	91
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	233	116			117	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	233	116			117	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			99	
cM capacity (veh/h)	749	936			1471	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	3	117	104			
Volume Left	2	0	13			
Volume Right	1	2	0			
cSH	802	1700	1471			
Volume to Capacity	0.00	0.07	0.01			
Queue Length 95th (m)	0.1	0.0	0.2			
Control Delay (s)	9.5	0.0	1.0			
Lane LOS	A		A			
Approach Delay (s)	9.5	0.0	1.0			
Approach LOS	A					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utilization		21.8%		ICU Level of Service		A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
18: Reynolds Street & Freestone Lane/OCC Access



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	4	0	5	1	0	1	2	101	1	3	83	2
Future Volume (Veh/h)	4	0	5	1	0	1	2	101	1	3	83	2
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	0	5	1	0	1	2	110	1	3	90	2
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	212	212	91	216	212	110	92			111		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	212	212	91	216	212	110	92			111		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	99	100	100	100	100			100		
cM capacity (veh/h)	742	683	967	734	683	943	1503			1479		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	9	2	113	95								
Volume Left	4	1	2	3								
Volume Right	5	1	1	2								
cSH	852	826	1503	1479								
Volume to Capacity	0.01	0.00	0.00	0.00								
Queue Length 95th (m)	0.2	0.1	0.0	0.0								
Control Delay (s)	9.3	9.4	0.1	0.3								
Lane LOS	A	A	A	A								
Approach Delay (s)	9.3	9.4	0.1	0.3								
Approach LOS	A	A										
Intersection Summary												
Average Delay			0.6									
Intersection Capacity Utilization			16.2%		ICU Level of Service					A		
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
19: Trafalgar Road & Freestone Lane



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	1	4	412	1	6	506
Future Volume (Veh/h)	1	4	412	1	6	506
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	4	448	1	7	550
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	1012	448			449	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1012	448			449	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	99			99	
cM capacity (veh/h)	263	610			1111	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	5	449	557			
Volume Left	1	0	7			
Volume Right	4	1	0			
cSH	483	1700	1111			
Volume to Capacity	0.01	0.26	0.01			
Queue Length 95th (m)	0.2	0.0	0.1			
Control Delay (s)	12.5	0.0	0.2			
Lane LOS	B		A			
Approach Delay (s)	12.5	0.0	0.2			
Approach LOS	B					
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utilization			41.4%		ICU Level of Service	A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
24: Trafalgar Road & Lawsons Street



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	2	19	415	0	12	520
Future Volume (Veh/h)	2	19	415	0	12	520
Sign Control	Stop		Free		Free	
Grade	0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	2	21	451	0	13	565
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None		None	
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	1042	451			451	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1042	451			451	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	97			99	
cM capacity (veh/h)	251	608			1109	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	23	451	578			
Volume Left	2	0	13			
Volume Right	21	0	0			
cSH	541	1700	1109			
Volume to Capacity	0.04	0.27	0.01			
Queue Length 95th (m)	1.0	0.0	0.3			
Control Delay (s)	11.9	0.0	0.3			
Lane LOS	B		A			
Approach Delay (s)	11.9	0.0	0.3			
Approach LOS	B					
Intersection Summary						
Average Delay			0.4			
Intersection Capacity Utilization			47.0%		ICU Level of Service	A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
Existing 2017 Traffic Analysis

PM Peak Hour
25: Reynolds Street & Lawsons Street/Hospital Access



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	6	3	6	0	5	13	9	81	1	5	105	13
Future Volume (Veh/h)	6	3	6	0	5	13	9	81	1	5	105	13
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	7	3	7	0	5	14	10	88	1	5	114	14
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)											233	
pX, platoon unblocked												
vC, conflicting volume	256	240	121	248	246	88	128			89		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	256	240	121	248	246	88	128			89		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	99	100	99	99	99			100		
cM capacity (veh/h)	678	655	930	692	649	970	1458			1506		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	17	19	99	133								
Volume Left	7	0	10	5								
Volume Right	7	14	1	14								
cSH	758	858	1458	1506								
Volume to Capacity	0.02	0.02	0.01	0.00								
Queue Length 95th (m)	0.5	0.5	0.2	0.1								
Control Delay (s)	9.9	9.3	0.8	0.3								
Lane LOS	A	A	A	A								
Approach Delay (s)	9.9	9.3	0.8	0.3								
Approach LOS	A	A										
Intersection Summary												
Average Delay			1.7									
Intersection Capacity Utilization			20.8%		ICU Level of Service				A			
Analysis Period (min)			15									

Appendix C

Future Total (2025) Traffic Analysis – Synchro Outputs Sheets

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 1: Trafalgar Road & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	382	475	73	27	395	646	67	419	37	608	608	346
Future Volume (vph)	382	475	73	27	395	646	67	419	37	608	608	346
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.0		5.0	6.0	4.0	4.0	6.0		5.0	6.0	6.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	0.95		0.97	1.00	1.00
Frt	1.00	0.98		1.00	1.00	0.85	1.00	0.99		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3437	3388		1738	3411	1526	1755	3532		3309	1847	1526
Flt Permitted	0.95	1.00		0.41	1.00	1.00	0.35	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3437	3388		751	3411	1526	655	3532		3309	1847	1526
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	415	516	79	29	429	702	73	455	40	661	661	376
RTOR Reduction (vph)	0	9	0	0	0	0	0	4	0	0	0	115
Lane Group Flow (vph)	415	586	0	29	429	702	73	491	0	661	661	261
Heavy Vehicles (%)	3%	6%	3%	5%	7%	7%	4%	2%	3%	7%	4%	7%
Turn Type	Prot	NA		pm+pt	NA	Free	pm+pt	NA		Prot	NA	Perm
Protected Phases	3	8		7	4		5	2		1	6	
Permitted Phases				4		Free	2					6
Actuated Green, G (s)	19.9	39.4		29.9	25.2	140.0	44.4	37.4		36.5	67.9	67.9
Effective Green, g (s)	19.9	39.4		29.9	25.2	140.0	44.4	37.4		36.5	67.9	67.9
Actuated g/C Ratio	0.14	0.28		0.21	0.18	1.00	0.32	0.27		0.26	0.49	0.49
Clearance Time (s)	4.0	6.0		5.0	6.0		4.0	6.0		5.0	6.0	6.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	488	953		193	613	1526	262	943		862	895	740
v/s Ratio Prot	c0.12	0.17		0.01	c0.13		0.01	0.14		c0.20	c0.36	
v/s Ratio Perm				0.03		0.46	0.07					0.17
v/c Ratio	0.85	0.62		0.15	0.70	0.46	0.28	0.52		0.77	0.74	0.35
Uniform Delay, d1	58.6	43.7		44.0	53.9	0.0	34.2	43.7		47.8	28.9	22.4
Progression Factor	1.00	1.00		1.42	1.24	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	13.3	1.2		0.3	3.3	0.9	0.6	2.1		4.1	5.4	1.3
Delay (s)	71.9	44.9		63.1	69.8	0.9	34.8	45.7		51.9	34.4	23.7
Level of Service	E	D		E	E	A	C	D		D	C	C
Approach Delay (s)		56.0			28.0			44.3			38.8	
Approach LOS		E			C			D			D	

Intersection Summary

HCM 2000 Control Delay	40.6	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.78		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	22.0
Intersection Capacity Utilization	77.8%	ICU Level of Service	D
Analysis Period (min)	15		
c Critical Lane Group			

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 4: Reynolds Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↔↔	↔	↔	↔↔		↔	↔		↔	↔	
Traffic Volume (vph)	0	1056	77	53	1002	20	60	8	32	5	6	15
Future Volume (vph)	0	1056	77	53	1002	20	60	8	32	5	6	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Lane Util. Factor		0.95	1.00	1.00	0.95		1.00	1.00		1.00	1.00	
Frt		1.00	0.85	1.00	1.00		1.00	0.88		1.00	0.90	
Flt Protected		1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		3444	1601	1789	3436		1789	1659		1789	1687	
Flt Permitted		1.00	1.00	0.23	1.00		0.74	1.00		0.73	1.00	
Satd. Flow (perm)		3444	1601	441	3436		1398	1659		1372	1687	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	1148	84	58	1089	22	65	9	35	5	7	16
RTOR Reduction (vph)	0	0	12	0	0	0	0	31	0	0	15	0
Lane Group Flow (vph)	0	1148	72	58	1111	0	65	13	0	5	8	0
Heavy Vehicles (%)	2%	6%	2%	2%	6%	2%	2%	2%	2%	2%	2%	2%
Turn Type		NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8				4
Permitted Phases	2		2	6			8			4		
Actuated Green, G (s)		115.9	115.9	115.9	115.9		12.4	12.4		12.4	12.4	
Effective Green, g (s)		115.9	115.9	115.9	115.9		12.4	12.4		12.4	12.4	
Actuated g/C Ratio		0.83	0.83	0.83	0.83		0.09	0.09		0.09	0.09	
Clearance Time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Vehicle Extension (s)		4.0	4.0	4.0	4.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)		2851	1325	365	2844		123	146		121	149	
v/s Ratio Prot		c0.33			0.32			0.01			0.00	
v/s Ratio Perm			0.04	0.13			c0.05			0.00		
v/c Ratio		0.40	0.05	0.16	0.39		0.53	0.09		0.04	0.06	
Uniform Delay, d1		3.1	2.2	2.4	3.1		61.0	58.6		58.4	58.4	
Progression Factor		2.04	3.49	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		0.3	0.1	0.3	0.1		4.1	0.3		0.1	0.2	
Delay (s)		6.6	7.6	2.7	3.2		65.1	58.9		58.5	58.6	
Level of Service		A	A	A	A		E	E		E	E	
Approach Delay (s)		6.7			3.2			62.6			58.6	
Approach LOS		A			A			E			E	

Intersection Summary

HCM 2000 Control Delay	8.0	HCM 2000 Level of Service	A
HCM 2000 Volume to Capacity ratio	0.41		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	11.7
Intersection Capacity Utilization	70.6%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 5: Allan Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗		↖	↗		↖	↗	
Traffic Volume (vph)	23	885	57	34	855	69	153	33	57	50	15	14
Future Volume (vph)	23	885	57	34	855	69	153	33	57	50	15	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frt	1.00	0.99		1.00	0.99		1.00	0.91		1.00	0.93	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1789	3420		1789	3415		1789	1705		1789	1747	
Flt Permitted	0.15	1.00		0.15	1.00		0.74	1.00		0.69	1.00	
Satd. Flow (perm)	290	3420		275	3415		1388	1705		1306	1747	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	25	962	62	37	929	75	166	36	62	54	16	15
RTOR Reduction (vph)	0	5	0	0	6	0	0	24	0	0	8	0
Lane Group Flow (vph)	25	1019	0	37	998	0	166	74	0	54	23	0
Heavy Vehicles (%)	2%	6%	2%	2%	6%	2%	2%	2%	2%	2%	2%	2%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8				4
Permitted Phases	2			6			8			4		
Actuated Green, G (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Effective Green, g (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Actuated g/C Ratio	0.41	0.41		0.41	0.41		0.47	0.47		0.47	0.47	
Clearance Time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Vehicle Extension (s)	3.5	3.5		3.5	3.5		2.5	2.5		2.5	2.5	
Lane Grp Cap (vph)	118	1398		112	1396		657	808		619	828	
v/s Ratio Prot		c0.30			0.29			0.04			0.01	
v/s Ratio Perm	0.09			0.13			c0.12			0.04		
v/c Ratio	0.21	0.73		0.33	0.71		0.25	0.09		0.09	0.03	
Uniform Delay, d1	19.1	24.9		20.2	24.7		15.7	14.5		14.4	14.0	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	4.1	3.4		7.7	3.2		0.9	0.2		0.3	0.1	
Delay (s)	23.2	28.3		27.9	27.8		16.6	14.7		14.7	14.1	
Level of Service	C	C		C	C		B	B		B	B	
Approach Delay (s)		28.1			27.8			15.9			14.5	
Approach LOS		C			C			B			B	

Intersection Summary

HCM 2000 Control Delay	26.2	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.47		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.7
Intersection Capacity Utilization	53.1%	ICU Level of Service	A
Analysis Period (min)	15		
c Critical Lane Group			

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 6: Reynolds Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (vph)	1	40	27	10	29	24	10	50	13	16	95	8
Future Volume (vph)	1	40	27	10	29	24	10	50	13	16	95	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0			6.0			6.0			6.0	
Lane Util. Factor		1.00			1.00			1.00			1.00	
Frt		0.95			0.95			0.98			0.99	
Flt Protected		1.00			0.99			0.99			0.99	
Satd. Flow (prot)		1781			1773			1826			1853	
Flt Permitted		0.99			0.93			0.97			0.97	
Satd. Flow (perm)		1771			1659			1784			1813	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	43	29	11	32	26	11	54	14	17	103	9
RTOR Reduction (vph)	0	26	0	0	24	0	0	4	0	0	2	0
Lane Group Flow (vph)	0	47	0	0	45	0	0	75	0	0	127	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			4			2			2	
Permitted Phases	4			4			2			2		
Actuated Green, G (s)		6.1			6.1			49.1			49.1	
Effective Green, g (s)		6.1			6.1			49.1			49.1	
Actuated g/C Ratio		0.09			0.09			0.73			0.73	
Clearance Time (s)		6.0			6.0			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		160			150			1303			1324	
v/s Ratio Prot												
v/s Ratio Perm		0.03			c0.03			0.04			c0.07	
v/c Ratio		0.29			0.30			0.06			0.10	
Uniform Delay, d1		28.5			28.6			2.5			2.6	
Progression Factor		1.00			1.00			1.00			1.00	
Incremental Delay, d2		1.0			1.1			0.1			0.1	
Delay (s)		29.5			29.7			2.6			2.8	
Level of Service		C			C			A			A	
Approach Delay (s)		29.5			29.7			2.6			2.8	
Approach LOS		C			C			A			A	

Intersection Summary

HCM 2000 Control Delay	13.6	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.12		
Actuated Cycle Length (s)	67.2	Sum of lost time (s)	12.0
Intersection Capacity Utilization	28.0%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 7: Trafalgar Road & MacDonald Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	11	38	449	26	52	676
Future Volume (Veh/h)	11	38	449	26	52	676
Sign Control	Stop		Free		Free	
Grade	0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	12	41	488	28	57	735
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh						
Upstream signal (m)						396
pX, platoon unblocked	0.68					
vC, conflicting volume	1351	502			516	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1281	502			516	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	90	93			95	
cM capacity (veh/h)	118	569			1050	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	53	516	792			
Volume Left	12	0	57			
Volume Right	41	28	0			
cSH	305	1700	1050			
Volume to Capacity	0.17	0.30	0.05			
Queue Length 95th (m)	4.7	0.0	1.3			
Control Delay (s)	19.3	0.0	1.4			
Lane LOS	C		A			
Approach Delay (s)	19.3	0.0	1.4			
Approach LOS	C					
Intersection Summary						
Average Delay			1.6			
Intersection Capacity Utilization			77.0%	ICU Level of Service	D	
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 9: Allan Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	11	55	2	27	54	66	4	113	33	13	69	9
Future Volume (vph)	11	55	2	27	54	66	4	113	33	13	69	9
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	12	60	2	29	59	72	4	123	36	14	75	10

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	74	160	163	99
Volume Left (vph)	12	29	4	14
Volume Right (vph)	2	72	36	10
Hadj (s)	0.05	-0.20	-0.09	0.00
Departure Headway (s)	4.8	4.4	4.5	4.7
Degree Utilization, x	0.10	0.20	0.20	0.13
Capacity (veh/h)	698	762	759	722
Control Delay (s)	8.3	8.5	8.6	8.3
Approach Delay (s)	8.3	8.5	8.6	8.3
Approach LOS	A	A	A	A

Intersection Summary			
Delay		8.5	
Level of Service		A	
Intersection Capacity Utilization	29.1%		ICU Level of Service A
Analysis Period (min)		15	

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 14: Allan Street & Hospital Access/Galt Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	14	0	5	3	0	2	6	132	3	1	83	13
Future Volume (Veh/h)	14	0	5	3	0	2	6	132	3	1	83	13
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	15	0	5	3	0	2	7	143	3	1	90	14
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type												
Median storage veh												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	260	259	97	262	264	144	104			146		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	260	259	97	262	264	144	104			146		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	100	99	100	100	100	100			100		
cM capacity (veh/h)	689	642	959	684	637	903	1488			1436		
Direction, Lane #												
	EB 1	WB 1	NB 1	SB 1								
Volume Total	20	5	153	105								
Volume Left	15	3	7	1								
Volume Right	5	2	3	14								
cSH	741	757	1488	1436								
Volume to Capacity	0.03	0.01	0.00	0.00								
Queue Length 95th (m)	0.6	0.2	0.1	0.0								
Control Delay (s)	10.0	9.8	0.4	0.1								
Lane LOS	A	A	A	A								
Approach Delay (s)	10.0	9.8	0.4	0.1								
Approach LOS	A	A										
Intersection Summary												
Average Delay			1.1									
Intersection Capacity Utilization			20.9%	ICU Level of Service		A						
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 16: Allan Street & Sheddon Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	3	3	4	4	1	3	5	134	3	4	85	3
Future Volume (Veh/h)	3	3	4	4	1	3	5	134	3	4	85	3
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	3	4	4	1	3	5	146	3	4	92	3
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	262	260	94	264	260	148	95			149		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	262	260	94	264	260	148	95			149		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	100	99	100	100	100			100		
cM capacity (veh/h)	684	640	963	680	640	899	1499			1432		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	10	8	154	99								
Volume Left	3	4	5	4								
Volume Right	4	3	3	3								
cSH	756	742	1499	1432								
Volume to Capacity	0.01	0.01	0.00	0.00								
Queue Length 95th (m)	0.3	0.2	0.1	0.1								
Control Delay (s)	9.8	9.9	0.3	0.3								
Lane LOS	A	A	A	A								
Approach Delay (s)	9.8	9.9	0.3	0.3								
Approach LOS	A	A										
Intersection Summary												
Average Delay			0.9									
Intersection Capacity Utilization			19.0%		ICU Level of Service					A		
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 17: Reynolds Street & Sheddon Avenue



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	5	10	57	6	9	99
Future Volume (Veh/h)	5	10	57	6	9	99
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	5	11	62	7	10	108
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	194	66			69	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	194	66			69	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	99			99	
cM capacity (veh/h)	790	998			1532	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	16	69	118			
Volume Left	5	0	10			
Volume Right	11	7	0			
cSH	922	1700	1532			
Volume to Capacity	0.02	0.04	0.01			
Queue Length 95th (m)	0.4	0.0	0.1			
Control Delay (s)	9.0	0.0	0.7			
Lane LOS	A		A			
Approach Delay (s)	9.0	0.0	0.7			
Approach LOS	A					
Intersection Summary						
Average Delay			1.1			
Intersection Capacity Utilization		22.4%		ICU Level of Service		A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 18: Reynolds Street & Freestone Lane/OCC Access



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	4	1	0	0	0	0	6	55	3	4	99	1
Future Volume (Veh/h)	4	1	0	0	0	0	6	55	3	4	99	1
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	1	0	0	0	0	7	60	3	4	108	1
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	192	194	108	192	192	62	109			63		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	192	194	108	192	192	62	109			63		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	100	100	100	100	100			100		
cM capacity (veh/h)	763	697	945	762	697	1004	1481			1540		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	5	0	70	113								
Volume Left	4	0	7	4								
Volume Right	0	0	3	1								
cSH	749	1700	1481	1540								
Volume to Capacity	0.01	0.00	0.00	0.00								
Queue Length 95th (m)	0.2	0.0	0.1	0.1								
Control Delay (s)	9.8	0.0	0.8	0.3								
Lane LOS	A	A	A	A								
Approach Delay (s)	9.8	0.0	0.8	0.3								
Approach LOS	A	A										
Intersection Summary												
Average Delay			0.7									
Intersection Capacity Utilization			16.2%		ICU Level of Service				A			
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 19: Trafalgar Road & Freestone Lane



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	0	2	295	2	1	591
Future Volume (Veh/h)	0	2	295	2	1	591
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	2	321	2	1	642
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	966	322			323	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	966	322			323	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	282	719			1237	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	2	323	643			
Volume Left	0	0	1			
Volume Right	2	2	0			
cSH	719	1700	1237			
Volume to Capacity	0.00	0.19	0.00			
Queue Length 95th (m)	0.1	0.0	0.0			
Control Delay (s)	10.0	0.0	0.0			
Lane LOS	B		A			
Approach Delay (s)	10.0	0.0	0.0			
Approach LOS	B					
Intersection Summary						
Average Delay			0.0			
Intersection Capacity Utilization			41.9%	ICU Level of Service		A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 24: Trafalgar Road & Lawsons Street



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	1	18	304	1	22	618
Future Volume (Veh/h)	1	18	304	1	22	618
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	20	330	1	24	672
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	1050	330			331	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1050	330			331	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	97			98	
cM capacity (veh/h)	247	711			1228	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	21	331	696			
Volume Left	1	0	24			
Volume Right	20	1	0			
cSH	652	1700	1228			
Volume to Capacity	0.03	0.19	0.02			
Queue Length 95th (m)	0.8	0.0	0.5			
Control Delay (s)	10.7	0.0	0.5			
Lane LOS	B		A			
Approach Delay (s)	10.7	0.0	0.5			
Approach LOS	B					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utilization			60.3%	ICU Level of Service		B
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total (2025) Traffic Analysis

AM Peak Hour
 25: Reynolds Street & Lawsons Street/Hospital Access



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	4	9	9	5	5	11	15	66	7	20	78	19
Future Volume (Veh/h)	4	9	9	5	5	11	15	66	7	20	78	19
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	10	10	5	5	12	16	72	8	22	85	21
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)											233	
pX, platoon unblocked												
vC, conflicting volume	262	252	96	262	258	76	106			80		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	262	252	96	262	258	76	106			80		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	98	99	99	99	99	99			99		
cM capacity (veh/h)	665	635	961	662	630	985	1485			1518		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	24	22	96	128								
Volume Left	4	5	16	22								
Volume Right	10	12	8	21								
cSH	746	795	1485	1518								
Volume to Capacity	0.03	0.03	0.01	0.01								
Queue Length 95th (m)	0.8	0.6	0.2	0.3								
Control Delay (s)	10.0	9.7	1.3	1.4								
Lane LOS	A	A	A	A								
Approach Delay (s)	10.0	9.7	1.3	1.4								
Approach LOS	A	A										
Intersection Summary												
Average Delay			2.8									
Intersection Capacity Utilization			18.5%		ICU Level of Service				A			
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 1: Trafalgar Road & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↔↔	↕↔		↔	↕↕	↔	↔	↕↔		↔↔	↕	↔
Traffic Volume (vph)	382	410	35	69	494	772	56	559	57	622	597	322
Future Volume (vph)	382	410	35	69	494	772	56	559	57	622	597	322
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	6.0		5.0	6.0	4.0	4.0	6.0		4.0	6.0	6.0
Lane Util. Factor	0.97	0.95		1.00	0.95	1.00	1.00	0.95		0.97	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	0.99		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	1.00
Satd. Flow (prot)	3471	3461		1755	3510	1570	1755	3529		3372	1883	1570
Flt Permitted	0.95	1.00		0.43	1.00	1.00	0.33	1.00		0.95	1.00	1.00
Satd. Flow (perm)	3471	3461		797	3510	1570	606	3529		3372	1883	1570
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	415	446	38	75	537	839	61	608	62	676	649	350
RTOR Reduction (vph)	0	4	0	0	0	0	0	6	0	0	0	116
Lane Group Flow (vph)	415	480	0	75	537	839	61	664	0	676	649	234
Heavy Vehicles (%)	2%	4%	7%	4%	4%	4%	4%	2%	2%	5%	2%	4%
Turn Type	Prot	NA		pm+pt	NA	Free	pm+pt	NA		Prot	NA	Perm
Protected Phases	3	8		7	4		5	2		1	6	
Permitted Phases				4		Free	2					6
Actuated Green, G (s)	19.0	35.9		36.7	27.3	140.0	47.3	40.6		33.1	67.0	67.0
Effective Green, g (s)	19.0	35.9		36.7	27.3	140.0	47.3	40.6		33.1	67.0	67.0
Actuated g/C Ratio	0.14	0.26		0.26	0.20	1.00	0.34	0.29		0.24	0.48	0.48
Clearance Time (s)	4.0	6.0		5.0	6.0		4.0	6.0		4.0	6.0	6.0
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	3.0
Lane Grp Cap (vph)	471	887		273	684	1570	259	1023		797	901	751
v/s Ratio Prot	c0.12	0.14		0.02	c0.15		0.01	0.19		c0.20	c0.34	
v/s Ratio Perm				0.05		0.53	0.07					0.15
v/c Ratio	0.88	0.54		0.27	0.79	0.53	0.24	0.65		0.85	0.72	0.31
Uniform Delay, d1	59.4	44.9		39.8	53.6	0.0	32.1	43.5		51.1	29.0	22.4
Progression Factor	1.00	1.00		1.44	1.29	1.00	1.00	1.00		1.00	1.00	1.00
Incremental Delay, d2	17.3	0.7		0.5	5.4	1.2	0.5	3.2		8.4	5.0	1.1
Delay (s)	76.7	45.6		57.9	74.4	1.2	32.6	46.7		59.4	34.0	23.5
Level of Service	E	D		E	E	A	C	D		E	C	C
Approach Delay (s)		60.0			31.2			45.5			42.1	
Approach LOS		E			C			D			D	

Intersection Summary		
HCM 2000 Control Delay	42.7	HCM 2000 Level of Service D
HCM 2000 Volume to Capacity ratio	0.82	
Actuated Cycle Length (s)	140.0	Sum of lost time (s) 21.0
Intersection Capacity Utilization	79.8%	ICU Level of Service D
Analysis Period (min)	15	
c Critical Lane Group		

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 4: Reynolds Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕↕	↗	↖	↕↕		↖	↗		↖	↗	
Traffic Volume (vph)	6	1018	95	69	1210	23	98	18	50	9	13	39
Future Volume (vph)	6	1018	95	69	1210	23	98	18	50	9	13	39
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Lane Util. Factor		0.95	1.00	1.00	0.95		1.00	1.00		1.00	1.00	
Frt		1.00	0.85	1.00	1.00		1.00	0.89		1.00	0.89	
Flt Protected		1.00	1.00	0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)		3443	1601	1789	3501		1789	1677		1789	1672	
Flt Permitted		0.94	1.00	0.24	1.00		0.72	1.00		0.71	1.00	
Satd. Flow (perm)		3252	1601	446	3501		1357	1677		1335	1672	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	7	1107	103	75	1315	25	107	20	54	10	14	42
RTOR Reduction (vph)	0	0	19	0	0	0	0	33	0	0	17	0
Lane Group Flow (vph)	0	1114	84	75	1340	0	107	41	0	10	39	0
Heavy Vehicles (%)	2%	6%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Turn Type	Perm	NA	Perm	Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8				4
Permitted Phases	2		2	6			8			4		
Actuated Green, G (s)		110.4	110.4	110.4	110.4		17.9	17.9		17.9	17.9	
Effective Green, g (s)		110.4	110.4	110.4	110.4		17.9	17.9		17.9	17.9	
Actuated g/C Ratio		0.79	0.79	0.79	0.79		0.13	0.13		0.13	0.13	
Clearance Time (s)		6.0	6.0	6.0	6.0		5.7	5.7		5.7	5.7	
Vehicle Extension (s)		4.0	4.0	4.0	4.0		3.0	3.0		3.0	3.0	
Lane Grp Cap (vph)		2564	1262	351	2760		173	214		170	213	
v/s Ratio Prot					c0.38			0.02				0.02
v/s Ratio Perm		0.34	0.05	0.17			c0.08			0.01		
v/c Ratio		0.43	0.07	0.21	0.49		0.62	0.19		0.06	0.18	
Uniform Delay, d1		4.8	3.3	3.8	5.1		57.8	54.6		53.6	54.5	
Progression Factor		1.73	3.10	1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2		0.4	0.1	0.4	0.2		6.4	0.4		0.1	0.4	
Delay (s)		8.6	10.3	4.2	5.3		64.3	55.0		53.8	54.9	
Level of Service		A	B	A	A		E	E		D	D	
Approach Delay (s)		8.8			5.2			60.5			54.7	
Approach LOS		A			A			E			D	

Intersection Summary		
HCM 2000 Control Delay	11.3	HCM 2000 Level of Service
HCM 2000 Volume to Capacity ratio	0.50	B
Actuated Cycle Length (s)	140.0	Sum of lost time (s)
Intersection Capacity Utilization	79.6%	11.7
Analysis Period (min)	15	ICU Level of Service
c Critical Lane Group		D

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 5: Allan Street/Whole Foods Plaza & Cornwall Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	↖	↗		↖	↗		↖	↗		↖	↗	
Traffic Volume (vph)	39	768	78	51	995	109	105	34	50	125	45	40
Future Volume (vph)	39	768	78	51	995	109	105	34	50	125	45	40
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Lane Util. Factor	1.00	0.95		1.00	0.95		1.00	1.00		1.00	1.00	
Frt	1.00	0.99		1.00	0.99		1.00	0.91		1.00	0.93	
Flt Protected	0.95	1.00		0.95	1.00		0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1789	3437		1789	3465		1789	1716		1789	1751	
Flt Permitted	0.10	1.00		0.19	1.00		0.70	1.00		0.70	1.00	
Satd. Flow (perm)	184	3437		355	3465		1313	1716		1315	1751	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	42	835	85	55	1082	118	114	37	54	136	49	43
RTOR Reduction (vph)	0	8	0	0	8	0	0	28	0	0	16	0
Lane Group Flow (vph)	42	912	0	55	1192	0	114	63	0	136	76	0
Heavy Vehicles (%)	2%	5%	2%	2%	4%	2%	2%	2%	2%	2%	2%	2%
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		2			6			8				4
Permitted Phases	2			6			8			4		
Actuated Green, G (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Effective Green, g (s)	40.9	40.9		40.9	40.9		47.4	47.4		47.4	47.4	
Actuated g/C Ratio	0.41	0.41		0.41	0.41		0.47	0.47		0.47	0.47	
Clearance Time (s)	5.7	5.7		5.7	5.7		6.0	6.0		6.0	6.0	
Vehicle Extension (s)	3.5	3.5		3.5	3.5		2.5	2.5		2.5	2.5	
Lane Grp Cap (vph)	75	1405		145	1417		622	813		623	829	
v/s Ratio Prot		0.27			c0.34			0.04				0.04
v/s Ratio Perm	0.23			0.15			0.09			c0.10		
v/c Ratio	0.56	0.65		0.38	0.84		0.18	0.08		0.22	0.09	
Uniform Delay, d1	22.7	23.8		20.7	26.6		15.1	14.4		15.4	14.5	
Progression Factor	1.00	1.00		1.00	1.00		1.00	1.00		1.00	1.00	
Incremental Delay, d2	26.9	2.3		7.4	6.2		0.6	0.2		0.8	0.2	
Delay (s)	49.5	26.1		28.1	32.8		15.8	14.5		16.2	14.7	
Level of Service	D	C		C	C		B	B		B	B	
Approach Delay (s)		27.1			32.6			15.2			15.6	
Approach LOS		C			C			B			B	

Intersection Summary

HCM 2000 Control Delay	27.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.51		
Actuated Cycle Length (s)	100.0	Sum of lost time (s)	11.7
Intersection Capacity Utilization	65.7%	ICU Level of Service	C
Analysis Period (min)	15		
c Critical Lane Group			

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 6: Reynolds Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (vph)	10	26	31	10	42	24	19	101	9	17	116	9
Future Volume (vph)	10	26	31	10	42	24	19	101	9	17	116	9
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)		6.0			6.0			6.0			6.0	
Lane Util. Factor		1.00			1.00			1.00			1.00	
Frt		0.94			0.96			0.99			0.99	
Flt Protected		0.99			0.99			0.99			0.99	
Satd. Flow (prot)		1752			1792			1852			1856	
Flt Permitted		0.94			0.94			0.96			0.97	
Satd. Flow (perm)		1655			1694			1786			1809	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	11	28	34	11	46	26	21	110	10	18	126	10
RTOR Reduction (vph)	0	31	0	0	23	0	0	2	0	0	1	0
Lane Group Flow (vph)	0	42	0	0	60	0	0	139	0	0	153	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			4			2			2	
Permitted Phases	4			4			2			2		
Actuated Green, G (s)		6.6			6.6			49.2			49.2	
Effective Green, g (s)		6.6			6.6			49.2			49.2	
Actuated g/C Ratio		0.10			0.10			0.73			0.73	
Clearance Time (s)		6.0			6.0			6.0			6.0	
Vehicle Extension (s)		3.0			3.0			3.0			3.0	
Lane Grp Cap (vph)		161			164			1296			1312	
v/s Ratio Prot												
v/s Ratio Perm		0.03			0.04			0.08			0.08	
v/c Ratio		0.26			0.36			0.11			0.12	
Uniform Delay, d1		28.3			28.6			2.8			2.8	
Progression Factor		1.00			1.00			1.00			1.00	
Incremental Delay, d2		0.9			1.4			0.2			0.2	
Delay (s)		29.2			30.0			2.9			3.0	
Level of Service		C			C			A			A	
Approach Delay (s)		29.2			30.0			2.9			3.0	
Approach LOS		C			C			A			A	

Intersection Summary

HCM 2000 Control Delay	12.2	HCM 2000 Level of Service	B
HCM 2000 Volume to Capacity ratio	0.15		
Actuated Cycle Length (s)	67.8	Sum of lost time (s)	12.0
Intersection Capacity Utilization	25.3%	ICU Level of Service	A
Analysis Period (min)	15		

c Critical Lane Group

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 7: Trafalgar Road & MacDonald Road



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	11	64	594	40	48	625
Future Volume (Veh/h)	11	64	594	40	48	625
Sign Control	Stop		Free		Free	
Grade	0%		0%		0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	12	70	646	43	52	679
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None		None	
Median storage veh						
Upstream signal (m)					396	
pX, platoon unblocked						
vC, conflicting volume						
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol						
tC, single (s)						
tC, 2 stage (s)						
tF (s)						
p0 queue free %						
cM capacity (veh/h)						
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	82	689	731			
Volume Left	12	0	52			
Volume Right	70	43	0			
cSH	299	1700	905			
Volume to Capacity	0.27	0.41	0.06			
Queue Length 95th (m)	8.3	0.0	1.4			
Control Delay (s)	21.6	0.0	1.5			
Lane LOS	C		A			
Approach Delay (s)	21.6	0.0	1.5			
Approach LOS	C					
Intersection Summary						
Average Delay			1.9			
Intersection Capacity Utilization			83.7%		ICU Level of Service E	
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 9: Allan Street & MacDonald Road



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	13	31	3	24	48	35	17	114	34	31	109	15
Future Volume (vph)	13	31	3	24	48	35	17	114	34	31	109	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	14	34	3	26	52	38	18	124	37	34	118	16

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	51	116	179	168
Volume Left (vph)	14	26	18	34
Volume Right (vph)	3	38	37	16
Hadj (s)	0.05	-0.12	-0.07	0.02
Departure Headway (s)	4.9	4.7	4.4	4.5
Degree Utilization, x	0.07	0.15	0.22	0.21
Capacity (veh/h)	668	712	773	752
Control Delay (s)	8.3	8.5	8.7	8.8
Approach Delay (s)	8.3	8.5	8.7	8.8
Approach LOS	A	A	A	A

Intersection Summary			
Delay		8.6	
Level of Service		A	
Intersection Capacity Utilization	28.4%		ICU Level of Service A
Analysis Period (min)		15	

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 14: Allan Street & Hospital Access/Galt Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	19	0	7	0	0	2	8	145	0	0	121	16
Future Volume (Veh/h)	19	0	7	0	0	2	8	145	0	0	121	16
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	21	0	8	0	0	2	9	158	0	0	132	17
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	318	316	140	324	325	158	149			158		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	318	316	140	324	325	158	149			158		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	97	100	99	100	100	100	99			100		
cM capacity (veh/h)	630	596	907	620	589	887	1432			1422		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	29	2	167	149								
Volume Left	21	0	9	0								
Volume Right	8	2	0	17								
cSH	688	887	1432	1422								
Volume to Capacity	0.04	0.00	0.01	0.00								
Queue Length 95th (m)	1.0	0.1	0.1	0.0								
Control Delay (s)	10.5	9.1	0.5	0.0								
Lane LOS	B	A	A									
Approach Delay (s)	10.5	9.1	0.5	0.0								
Approach LOS	B	A										
Intersection Summary												
Average Delay			1.1									
Intersection Capacity Utilization			29.0%		ICU Level of Service				A			
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 16: Allan Street & Sheddon Avenue



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	3	4	8	3	1	2	5	148	3	5	115	9
Future Volume (Veh/h)	3	4	8	3	1	2	5	148	3	5	115	9
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	3	4	9	3	1	2	5	161	3	5	125	10
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	315	314	130	324	318	162	135			164		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	315	314	130	324	318	162	135			164		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	99	99	100	100	100	100			100		
cM capacity (veh/h)	632	597	920	617	595	882	1449			1414		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	16	6	169	140								
Volume Left	3	3	5	5								
Volume Right	9	2	3	10								
cSH	754	681	1449	1414								
Volume to Capacity	0.02	0.01	0.00	0.00								
Queue Length 95th (m)	0.5	0.2	0.1	0.1								
Control Delay (s)	9.9	10.3	0.2	0.3								
Lane LOS	A	B	A	A								
Approach Delay (s)	9.9	10.3	0.2	0.3								
Approach LOS	A	B										
Intersection Summary												
Average Delay			0.9									
Intersection Capacity Utilization			19.9%		ICU Level of Service					A		
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 17: Reynolds Street & Sheddon Avenue



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	5	1	122	5	13	97
Future Volume (Veh/h)	5	1	122	5	13	97
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	5	1	133	5	14	105
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	268	136			138	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	268	136			138	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	100			99	
cM capacity (veh/h)	714	913			1446	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	6	138	119			
Volume Left	5	0	14			
Volume Right	1	5	0			
cSH	741	1700	1446			
Volume to Capacity	0.01	0.08	0.01			
Queue Length 95th (m)	0.2	0.0	0.2			
Control Delay (s)	9.9	0.0	1.0			
Lane LOS	A		A			
Approach Delay (s)	9.9	0.0	1.0			
Approach LOS	A					
Intersection Summary						
Average Delay			0.7			
Intersection Capacity Utilization		25.9%		ICU Level of Service		A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 18: Reynolds Street & Freestone Lane/OCC Access



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	4	0	5	1	0	1	2	117	1	3	99	2
Future Volume (Veh/h)	4	0	5	1	0	1	2	117	1	3	99	2
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	0	5	1	0	1	2	127	1	3	108	2
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage (veh)												
Upstream signal (m)												
pX, platoon unblocked												
vC, conflicting volume	248	247	109	252	248	128	110			128		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	248	247	109	252	248	128	110			128		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	100	99	100	100	100	100			100		
cM capacity (veh/h)	704	653	945	696	653	923	1480			1458		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	9	2	130	113								
Volume Left	4	1	2	3								
Volume Right	5	1	1	2								
cSH	820	794	1480	1458								
Volume to Capacity	0.01	0.00	0.00	0.00								
Queue Length 95th (m)	0.3	0.1	0.0	0.0								
Control Delay (s)	9.4	9.5	0.1	0.2								
Lane LOS	A	A	A	A								
Approach Delay (s)	9.4	9.5	0.1	0.2								
Approach LOS	A	A										
Intersection Summary												
Average Delay			0.6									
Intersection Capacity Utilization			17.1%		ICU Level of Service					A		
Analysis Period (min)			15									

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 19: Trafalgar Road & Freestone Lane



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	1	5	485	1	7	595
Future Volume (Veh/h)	1	5	485	1	7	595
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	1	5	527	1	8	647
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	1190	528			528	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1190	528			528	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	99			99	
cM capacity (veh/h)	206	551			1039	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	6	528	655			
Volume Left	1	0	8			
Volume Right	5	1	0			
cSH	430	1700	1039			
Volume to Capacity	0.01	0.31	0.01			
Queue Length 95th (m)	0.3	0.0	0.2			
Control Delay (s)	13.5	0.0	0.2			
Lane LOS	B		A			
Approach Delay (s)	13.5	0.0	0.2			
Approach LOS	B					
Intersection Summary						
Average Delay			0.2			
Intersection Capacity Utilization			46.9%	ICU Level of Service		A
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

PM Peak Hour
 24: Trafalgar Road & Lawsons Street



Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	2	27	488	0	19	611
Future Volume (Veh/h)	2	27	488	0	19	611
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	2	29	530	0	21	664
Pedestrians						
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type						
Median storage veh						
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	1236	530			530	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	1236	530			530	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	95			98	
cM capacity (veh/h)	191	549			1037	
Direction, Lane #	WB 1	NB 1	SB 1			
Volume Total	31	530	685			
Volume Left	2	0	21			
Volume Right	29	0	0			
cSH	490	1700	1037			
Volume to Capacity	0.06	0.31	0.02			
Queue Length 95th (m)	1.5	0.0	0.5			
Control Delay (s)	12.9	0.0	0.5			
Lane LOS	B		A			
Approach Delay (s)	12.9	0.0	0.5			
Approach LOS	B					
Intersection Summary						
Average Delay			0.6			
Intersection Capacity Utilization		57.5%		ICU Level of Service		B
Analysis Period (min)			15			

Oakville Old Hospital Redevelopment TIS
 Future Total 2025 Traffic Analysis

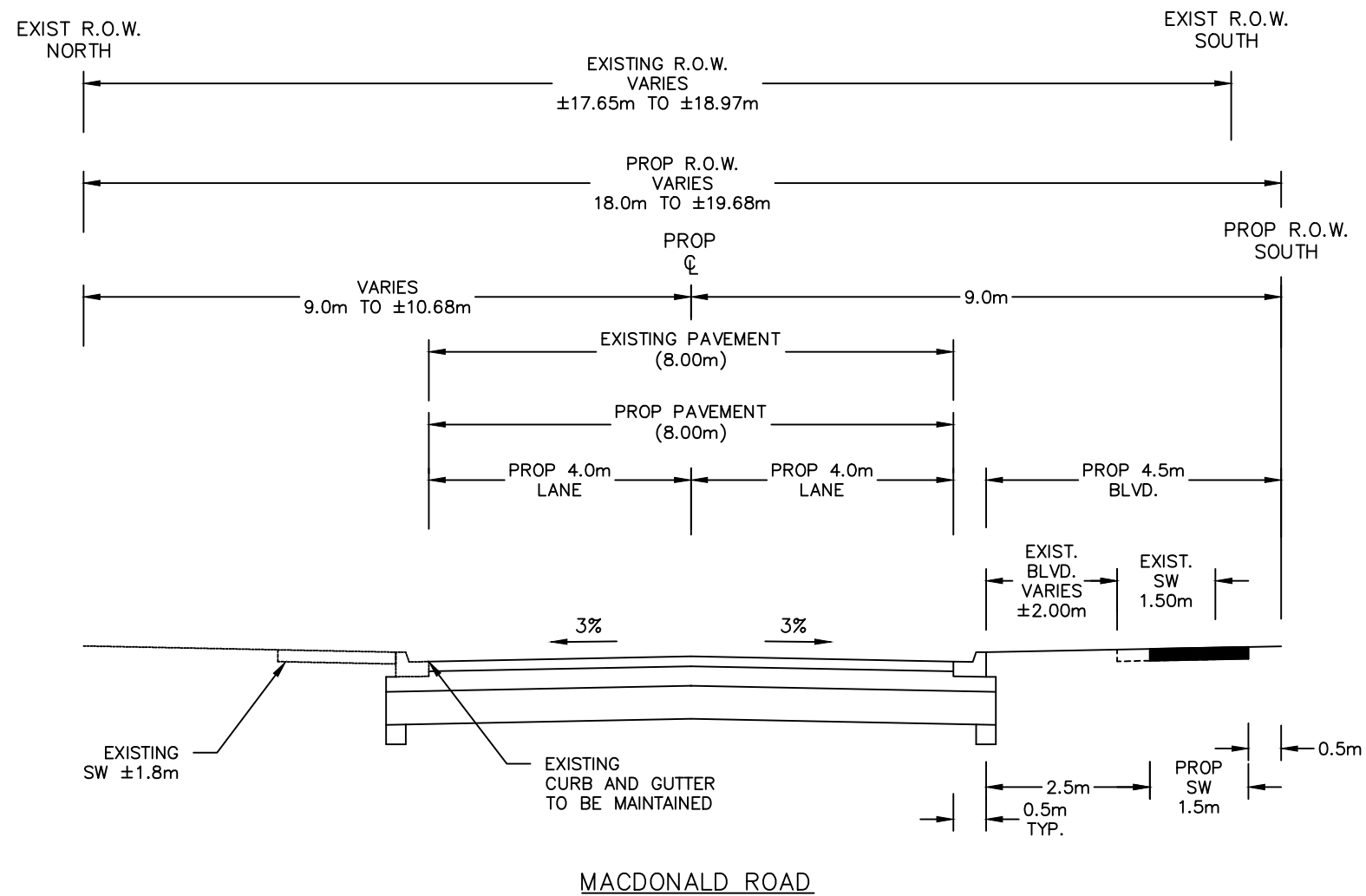
PM Peak Hour
 25: Reynolds Street & Lawsons Street/Hospital Access



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	6	9	9	7	10	28	10	88	9	27	114	14
Future Volume (Veh/h)	6	9	9	7	10	28	10	88	9	27	114	14
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	7	10	10	8	11	30	11	96	10	29	124	15
Pedestrians												
Lane Width (m)												
Walking Speed (m/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh												
Upstream signal (m)											233	
pX, platoon unblocked												
vC, conflicting volume	348	318	132	328	320	101	139			106		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	348	318	132	328	320	101	139			106		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	99	98	99	99	98	97	99			98		
cM capacity (veh/h)	567	583	918	598	581	954	1445			1485		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1								
Volume Total	27	49	117	168								
Volume Left	7	8	11	29								
Volume Right	10	30	10	15								
cSH	668	769	1445	1485								
Volume to Capacity	0.04	0.06	0.01	0.02								
Queue Length 95th (m)	1.0	1.5	0.2	0.5								
Control Delay (s)	10.6	10.0	0.8	1.4								
Lane LOS	B	B	A	A								
Approach Delay (s)	10.6	10.0	0.8	1.4								
Approach LOS	B	B										
Intersection Summary												
Average Delay			3.1									
Intersection Capacity Utilization			23.8%		ICU Level of Service				A			
Analysis Period (min)			15									

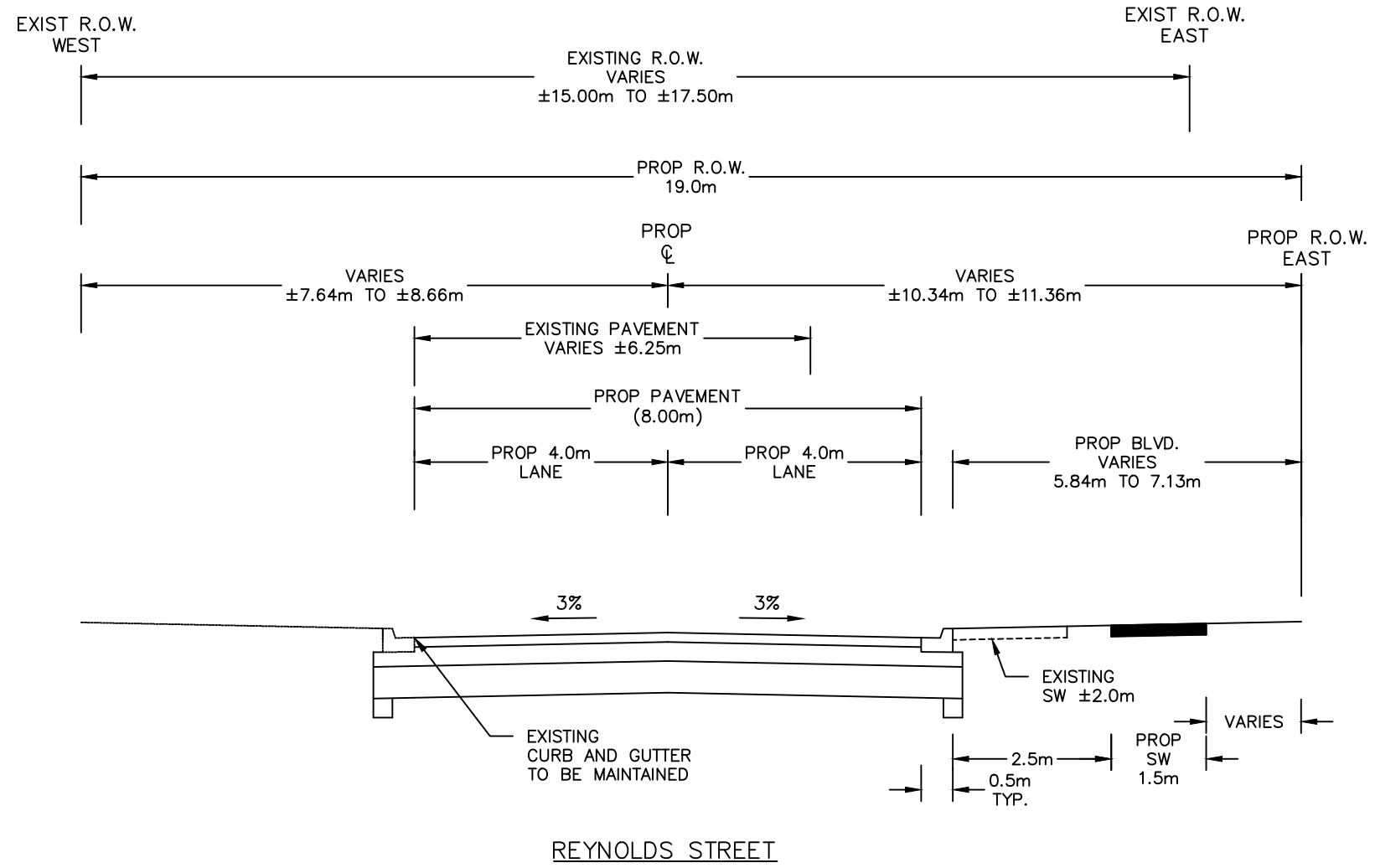
Appendix D

Study Area Roadways ROW Functional Plan and Typical Sections



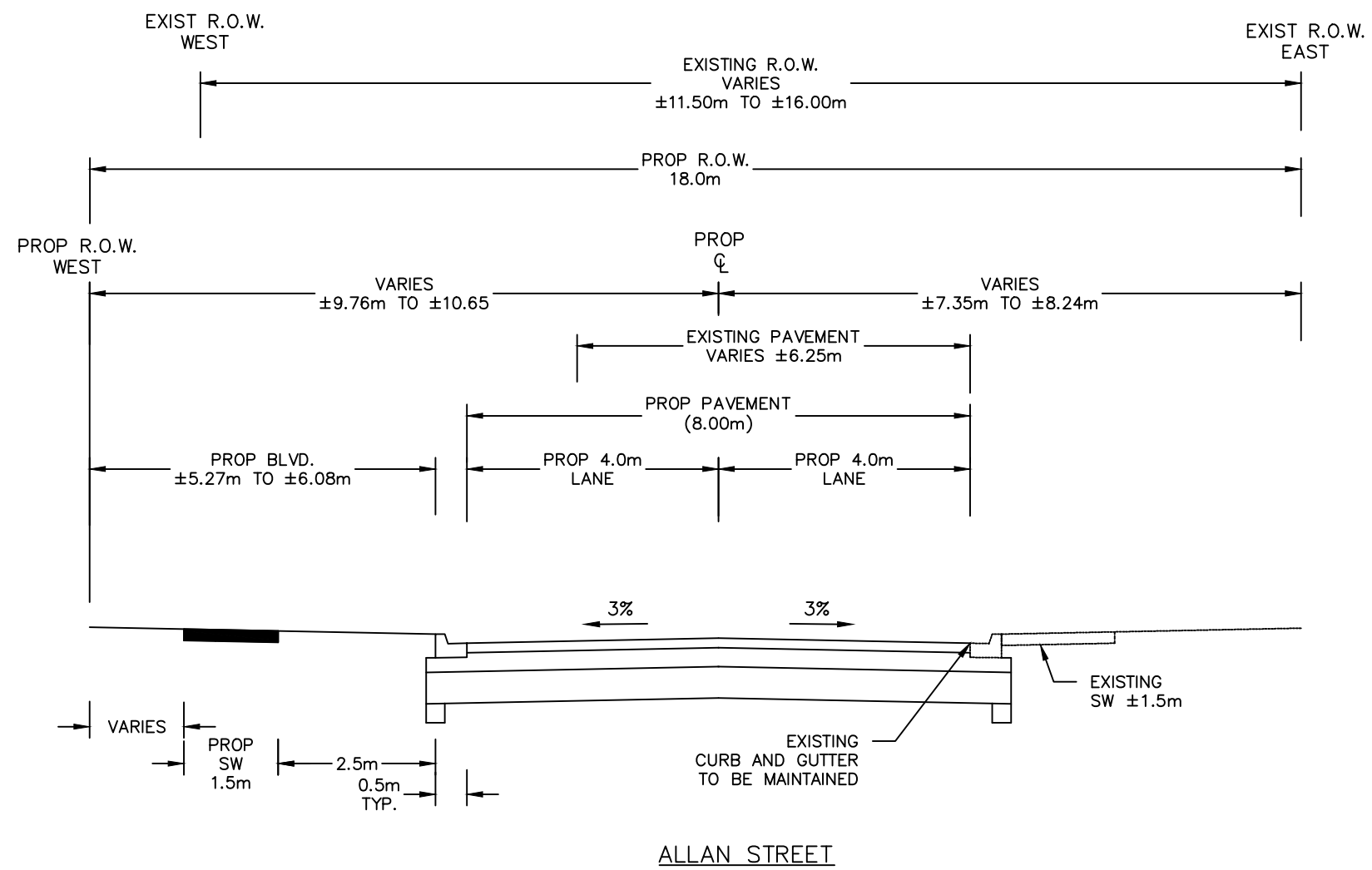
SCALE	N.T.S.
DATE:	29/01/2018
DRAWN BY:	HX / MZ
SHEET No.	1 OF 3

TYPICAL SECTION
MACDONALD ROAD



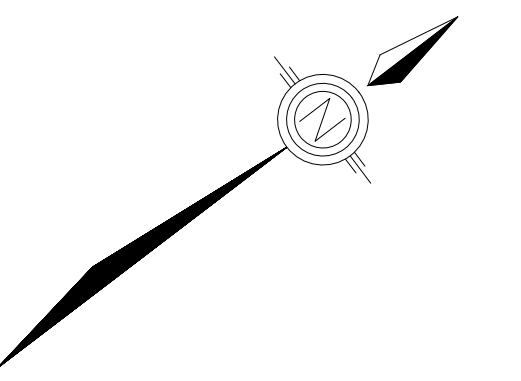
SCALE	N.T.S.
DATE:	29/01/2018
DRAWN BY:	HX / MZ
SHEET No.	2 OF 3

TYPICAL SECTION
REYNOLDS STREET







SCALE	N.T.S.
DATE:	29/01/2018
DRAWN BY:	HX / MZ
SHEET No.	3 OF 3

TYPICAL SECTION
ALLAN STREET



LE_{ND}:

-  PROPOSED R.O.W LINE
-  EXISTING PROPERTY

 OAKVILLE	R.O.W IMPACT AT OLD HOSPITAL		
	FUNCTIONAL PLAN		
	SCALE HOR: 1:00	DATE: 29/01/2018	SHEET No. 1 OF 1

© 2018 Oakville Engineering & Planning Inc. All rights reserved. Project No. 17-001-001