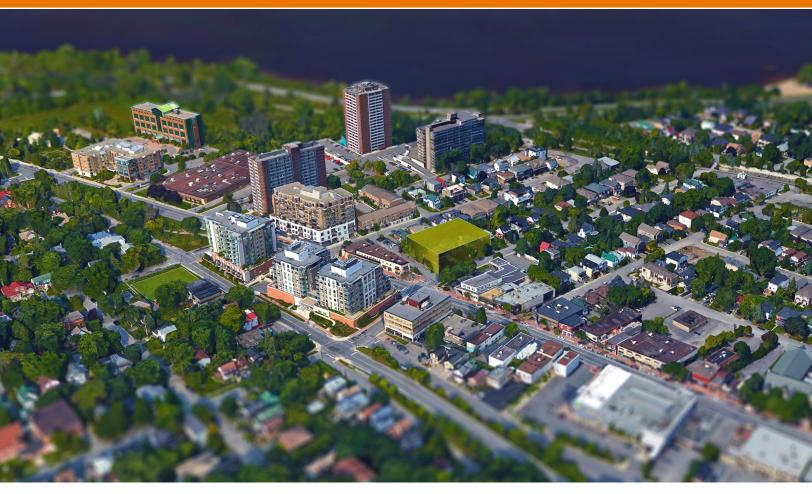
398 – 406 Roosevelt Avenue

TIA Scoping Report





domicile



398 - 406 Roosevelt Avenue

TIA Scoping Report

prepared for: Domicile 1-371A Richmond Road Ottawa, ON K2A 0E7

prepared by:

PARSONS 1223 Michael Street

Suite 100 Ottawa, ON K1J 7T2

December 8, 2017

476577 - 01000



Table of Contents

1.	SCR	EENING FORM	1
2.		CRIPTION OF PROPOSED DEVELOPMENT	
3.	EXIS	TING CONDITIONS	3
3	3.1.	AREA ROAD NETWORK	3
	3.2.	PEDESTRIAN/CYCLING NETWORK	
	3.3.	TRANSIT NETWORK	
	3.4.	EXISTING STUDY AREA INTERSECTION	
	3.5.	EXISTING INTERSECTION OPERATIONS	
	3.6.	EXISTING ROAD SAFETY CONDITIONS	
4.	PLAN	NNED CONDITIONS	.5
4	1.1.	PLANNED STUDY AREA TRANSPORTATION NETWORK CHANGES	5
4	1.2.	OTHER AREA DEVELOPMENT	6
5	STUI	DY AREA	7
	5.1.	TRANSIT	
	5.2.	NETWORK CONCEPT	
5	5.3.	INTERSECTION DESIGN	.7
6.	TIME	E PERIODS	7
7.	HOR	IZON YEARS	7
8.	EXE	MPTION REVIEW	8
9.	NEX	T STEPS	8
l is	t of A	Appendices	
		K A – Screening Form	
		K B – Intersection Turning Movement Counts	
		K C - Collision Data and Analysis	
l ie	t of E	igures	
LIJ	. 01 1	iguico	
Figi	ure 1:	Local Context	. 1
_		Proposed Site Plan	
Figi	ure 3: /	Area Transit Network	4
Figi	ıre 4:	Existing Peak Hour Traffic Volumes	5
Figu	ure 5:	Planned LRT Phase II	. 6



TIA Scoping Report

1. SCREENING FORM

The screening form was submitted for the subject development on December 1st, 2017 to City of Ottawa staff for review and confirmation of the need for a Transportation Impact Assessment (TIA). The Location and Safety triggers were met based on the proximity to the Richmond Road corridor and adjacent intersection of Roosevelt Avenue and Richmond Road. City staff provided confirmation to proceed with Step 2 – Scoping Report on December 4th, 2017.

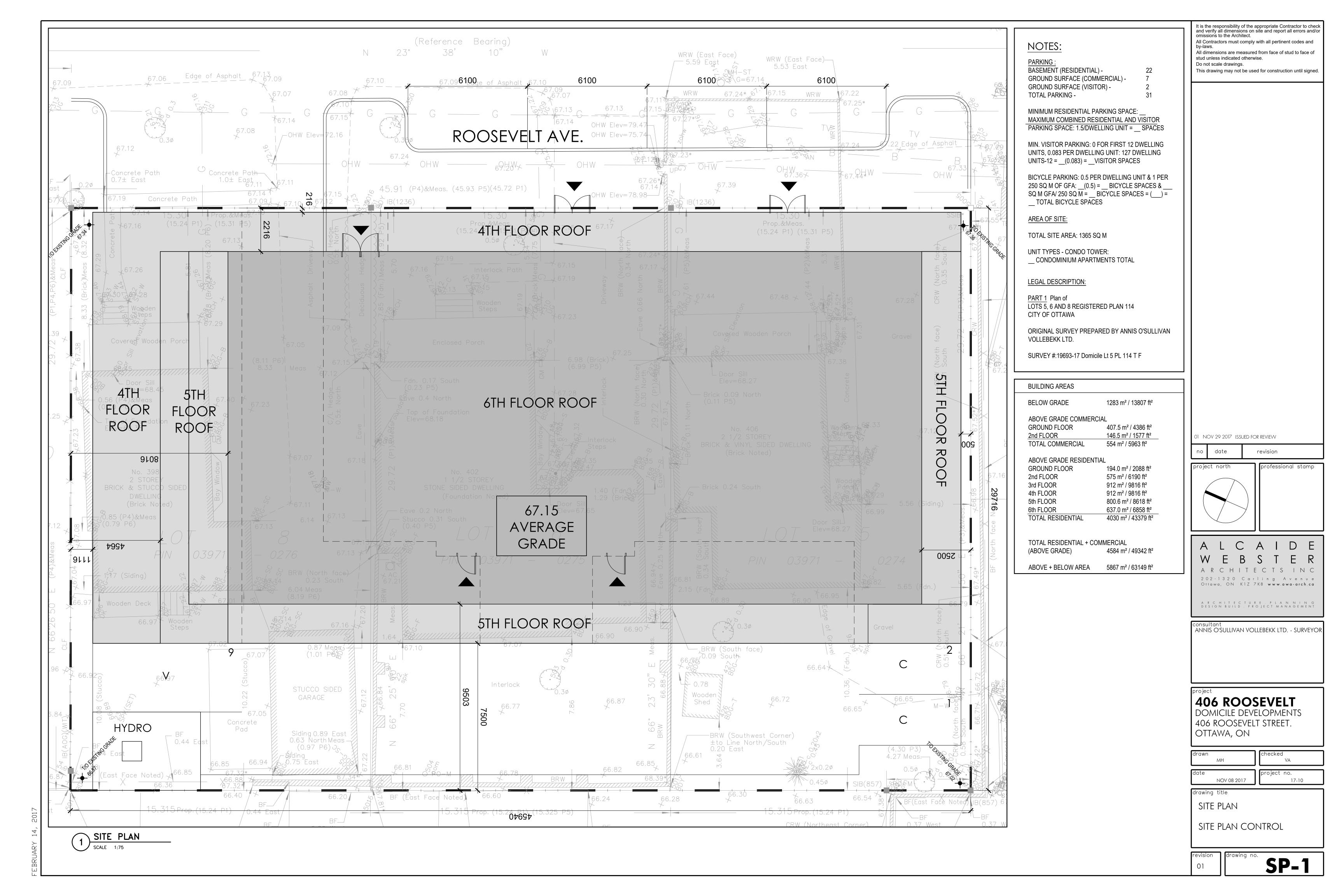
The Screening Form and City Response are provided in Appendix A.

2. DESCRIPTION OF PROPOSED DEVELOPMENT

From the information provided, it is our understanding that the proponent is proposing to construct a multi-use development located at 398-406 Roosevelt Avenue. The development will consist of 33 residential apartment units and approximately $555m^2$ of ground floor retail. The site is currently occupied by three residential houses. Surface and underground parking is proposed for the site. The local context of the site is provided as Figure 1 and the proposed Site Plan is provided as Figure 2. The site is currently zoned for a townhouse development and a Zoning By-Law Amendment will need to be completed.



Figure 1: Local Context



3. EXISTING CONDITIONS

The TIA and ensuing analysis includes the signalized Richmond/Roosevelt intersection only.

3.1. AREA ROAD NETWORK

Roosevelt Avenue is a north-south local roadway that extends from the Transitway in the north to Cole Avenue in the south. The roadway has a two-lane cross section of approximately 8.5-9m and a sidewalk located on the east side. The west side of the road does not have a curb. On-street parking is permitted on the east side of the roadway, north of the subject site. The unposted speed limit is assumed to be 50 km/h.

Richmond Road is an east-west arterial roadway, which extends from Baseline Road in the west to Island Park Road in the east, where it continues as Wellington Street. Within the study area, its cross-section consists of a single travel lane and on-street parking in each direction. The unposted speed limit assumed to be 50 km/h.

3.2. PEDESTRIAN/CYCLING NETWORK

With respect to pedestrians, sidewalk facilities in the vicinity of the site are provided along both sides of Richmond Road and the east side of Roosevelt Avenue. A multi-use pathway is located along the south side of the Transitway and a pedestrian overpass allows crossing to Workman Avenue on the northside of the transit corridor.

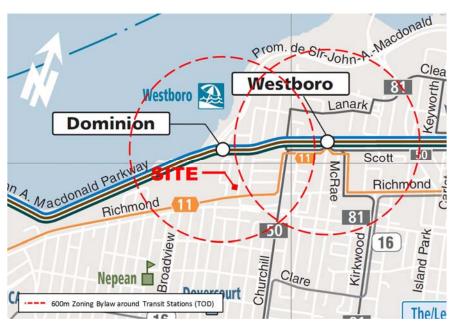
With respect to cyclists, according to the Ottawa Cycling Plan, Richmond Road is classified as a "spine" cycling route and Roosevelt Avenue is classified as a "local" cycling route. Within the study area, no formal cycling facilities are currently provided and cyclists operate in mixed traffic.

3.3. TRANSIT NETWORK

Transit service within the vicinity of the site is currently provided by OC Transpo Route #11. Bus stops for this route is located along Richmond Road approximately 100m walking distance from the site. Route #11 provides frequent all-day service.

Access to the Transitway is provided by the Dominion Station located north of Roosevelt Avenue, approximately 475m walking distance to the north of the site. As the site is located within 600m radius of Dominion Station, the development is considered a Transit-Oriented Development (TOD).

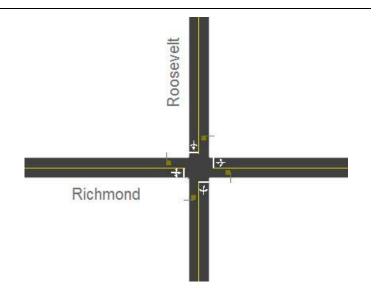
Figure 3: Area Transit Network



3.4. EXISTING STUDY AREA INTERSECTION

Richmond/Roosevelt

The Richmond/Roosevelt intersection is a signalized four-legged intersection. The north, south, east and westbound approaches consist of a single shared through-right-left lane each. All movements are permitted at this location.



3.5. EXISTING INTERSECTION OPERATIONS

Illustrated as Figure 4, are the most recent weekday morning and afternoon peak hour traffic volumes obtained from the City of Ottawa at the study area intersections. The full traffic counts are provided in Appendix B.

3.6. EXISTING ROAD SAFETY CONDITIONS

Collision history for the Richmond/Roosevelt intersection and mid-block on Roosevelt Avenue between Richmond Road and the end of Roosevelt Avenue (2012 to 2016, inclusive) was obtained from the City of Ottawa. Most collisions (67% or 4 vehicles) involved only property damage, indicating low impact speeds, and 33% involved personal injuries. The primary causes of collisions cited by police include; turning movement (33% or 2 vehicles), single vehicle/other (17% or 1 vehicle), sideswipe (17%), angle (17%), and rear end (17%) type collisions.

A standard unit of measure for assessing collisions at an intersection is based on the number collisions per million entering vehicles (MEV). At the Richmond/Roosevelt intersection, there were a total of 5 collisions in a 5-year period, which equates to a rate of 0.18/MEV. Only 1 collision in a 5-year period was noted along Roosevelt north of Richmond, which equates to a rate of 0.34/MEV.

It is noteworthy that within the 5-years of recorded collision data there was one collision that involved a pedestrian (non-fatal injury) and none involving cyclists. The source collision data as provided by the City of Ottawa and related analysis is provided as Appendix C.

4. PLANNED CONDITIONS

4.1. PLANNED STUDY AREA TRANSPORTATION NETWORK CHANGES

A notable transportation network change within the study area is the Phase I construction of the east-west LRT, which is the conversion of the City's existing BRT corridor to LRT between the current Blair transit station and the Tunney's Pasture station which includes a tunnel through the City's Downtown. Currently, this phase of construction is underway and is expected to be completed by 2019.

Phase II of the LRT construction, which will extend the City's LRT further east, west and south (further improving transit within the vicinity of the site), is expected to begin by 2019 and be completed by 2024. The following Figure 5 illustrates the planned Phases I and II of the future Confederation/Trillium Lines. As mentioned previously, the subject development is located within an approximate walking distance of 475m from the future Dominion LRT Station.



Figure 5: Planned LRT Phase II

4.2. OTHER AREA DEVELOPMENT

According to the City's development application search tool, the following developments are planned within the vicinity of the subject site.

335 Roosevelt Avenue

Uniform Urban Developments is proposing the construction of two high-rise condominium apartment buildings approximately 325m north of the subject development. A Transportation Impact Study has not been completed to date.

348 Whitby Avenue

The Westboro Animal Hospital at 364 Churchill Ave is proposing to demolish the existing dwelling at 348 Whitby Avenue to construct parking accessory to the Animal hospital

371 Richmond Road

Domicile is proposing the construction of a condominium development at the above-noted address, which is located approximately 125m east of the subject development. The Transportation Brief (prepared by Parsons) projected approximately 30 veh/h during the peak hours.

386 Richmond Road

Nrml Group Inc. is proposing the construction of a mixed-use development at the above-noted address, which is located approximately 125m east of the subject development. The Transportation Impact Assessment (prepared by Parsons) projected negligible vehicle traffic during the peak hours.

485 Richmond Road

Minto Communities is proposing the construction of a condominium development at the above-noted address, which is located approximately 300m west of the subject development. The Transportation Brief (prepared by Delcan) projected approximately 60 veh/h during the peak hours.

404 Eden Avenue

A 13-unit low-rise apartment building is being proposed at the above address approximately 320m northeast of the site. The Transportation Brief (prepared by Parsons) projected negligible vehicle traffic during the peak hours.

450 Churchill Avenue

Springcress Properties Inc. is proposing the construction of a mixed-used development at the above-noted address, which is located approximately 350m southeast of the subject development. The Transportation Brief (prepared by Delcan) projected fewer than 25 veh/h during the peak hours, however, a parking review was undertaken.

5. STUDY AREA

5.1. Transit

As mentioned previously, transit is served within the area with bus stops for Route #11 located approximately 100m from the site. In addition, access to the Transitway is provided by Dominion Station located north of the Roosevelt, an approximate walking distance of 475m to the north of the site. The trip generation will need to consider the TOD targets during the Forecasting Report and associated demand rationalization analysis.

5.2. NETWORK CONCEPT

The nearest Screenline is SL24 (Western Parkway). Given the proposed land use is mixed-use, including residential and ground floor retail, the development is understood to fit into the zoning for this area and is not projected to generate 200 person-per-hour trips more than permitted by the established zoning.

5.3. INTERSECTION DESIGN

The study area consists of the proposed private approach to the site and the existing signalized Richmond/Roosevelt intersection, reducing the requirements for analysis and design of study area intersections in the Forecasting Report and Strategy Report.

6. TIME PERIODS

Given the majority of trips expected to be generated by this development will be residential trips, the time periods to be assessed are the weekday morning and afternoon commuter peak hours.

7. HORIZON YEARS

The expected build-out date for the proposed development is assumed to be 2019. Depending on the growth rate of the study area, the horizon year 2024 will be assessed for 5-years beyond site build out.

8. EXEMPTION REVIEW

Based on the City's TIA guidelines and the subject site, the following modules/elements of the TIA process, summarized in Table 1, are recommended to be exempt in the subsequent steps of the TIA process:

Table 1: Exemptions Review Summary

Module	Element	Exemption Consideration							
4.1 Development	4.1.3 New Street	Not required for applications involving site plans.							
Design	Networks	Not required for applications involving site plans.							
4.2 Parking	4.2.2 Spillover Parking	The site's residential parking rate is noted to meet the City's minimum By-Law for residential parking (13 stalls) and commercial parking (7 stalls). As such, parking is not expected to spill out of the site.							
4.5 Transportation Demand Management	All elements	Residential development with less than 60 students/employees.							
4.8 Review of Network Concept	All elements	This development is not expected to generate 200-person trips more than the permitted zoning for the site.							

In addition to the above recommendations of the Exemptions Review, the following exemptions are also proposed for both Step 3 – Forecasting and Step 4 – Analysis, and are summarized in Table 2.

Table 2: Additional Recommended Exemptions Summary

Module	Element	Exemption Consideration
3.1 Development-	3.1.2 Trip Distribution	Minimal auto share anticipated given only 33 residential units on site, and negligible impact anticipated on road network.
generated Travel Demand	3.1.3 Trip Assignment	Minimal auto share anticipated given only 33 residential units on site, and negligible impact anticipated on road network.
44 Access	4.4.2 Intersection Control	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.
Intersection Design	4.4.3 Intersection Design	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.
4.7 Transit	4.7.2 Transit Priority	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.
4.9 Intersection Design	All Elements	Site access will operate at a private approach and will not require an intersection screening for a signal or roundabout.

9. NEXT STEPS

After discussion and review of the Screening and Scoping Report with City Staff, the next step is to complete the Forecasting Report.



Harte, Andrew

From: Dubyk, Wally <Wally.Dubyk@ottawa.ca>
Sent: Monday, December 04, 2017 8:05 AM

To: Harte, Andrew

Subject: RE: 398-406 Roosevelt Ave - TIA Screening Form for Residential Infill Development

Andrew,

The Screening Form has identified that Triggers have been met. Please proceed with the Scoping Form.

Thank you,

Wally Dubyk

Project Manager - Transportation Approvals Development Review, Central & South Branches 613-580-2424 x13783

From: Harte, Andrew [mailto:Andrew.Harte@parsons.com]

Sent: Friday, December 01, 2017 12:43 PM **To:** Dubyk, Wally <Wally.Dubyk@ottawa.ca>

Cc: Gordon, Christopher < Christopher.Gordon@parsons.com>; Nahas, Rani < Rani.Nahas@parsons.com>

Subject: 398-406 Roosevelt Ave - TIA Screening Form for Residential Infill Development

Wally,

Please find the attached the TIA Screening Form for the proposed Domicile infill development at 398-406 Roosevelt Avenue, including the concept plan for the development.

The screening form indicates that the Location Trigger is met due to a minor overlap with the Richmond Traditional Mainstreet corridor, and the Safety Trigger is met due to the proximity to the Richmond/Roosevelt signalized intersection. My interpretation of this screening is that we can skip right to Step 4 and review the following:

- Module 4.1 Development Design Elements 4.1.1 Design for Sustainable Modes, 4.1.2 Circulation and Access
- Module 4.2 Parking All elements
- Module 4.3 Boundary Street Design (due to layby proposed) All Elements
- Module 4.7 Transit Element 4.7.1 Route Capacity
- Exclude all Modules/Elements not listed above

Please provide **your acknowledgement/direction** with regards to Screening Form and proposed scope of Step 4, and any additional area concerns or **exemptions** for the preparation of the next submission.

I am free to discuss at you earliest convenience if you need any clarification and await your confirmation of the Screening.

Regards,

Andrew Harte, P.Eng.

Senior Transportation Engineer 1223 Michael Street, Suite 100, Ottawa, Ontario, K1J 7T2 andrew.harte@parsons.com - P: +1 613.691.1527

PARSONS - Envision More

www.parsons.com | LinkedIn | Twitter | Facebook



City of Ottawa 2017 TIA Guidelines

Date

12/1/2017

TIA Screening Form

Project Project Number 398-406 Roosevelt Ave

Results of Screening	Yes/No
Development Satisfies the Trip Generation Trigger	No
Development Satisfies the Location Trigger	Yes
Development Satisfies the Safety Trigger	Yes

Module 1.1 - Description of Proposed Development	
Municipal Address	406 Roosevelt Avenue
Description of location	PART 1 of LOTS 5, 6 AND 8 REGISTERED PLAN 114 OTTAWA
Land Use	Residential and Commercial
Development Size	554 sq m commerical, 33 residential appartment units
Number of Accesses and Locations	1, approx. 65m north of Richmond
Development Phasing	Single Phase
Buildout Year	2019
Sketch Plan / Site Plan	See attached

Module 1.2 - Trip Generation Trigger	
Land Use Type	Townhomes or Apartments
Development Size	33 Units
Trip Generation Trigger Met?	No

Module 1.3 - Location Triggers		
Development Proposes a new driveway to a boundary street that is designated as part of the City's Transit Priority, Rapid Transit, or Spine Bicycle Networks (See Sheet 3)	No	
Development is in a Design Priority Area (DPA) or Transit- oriented Development (TOD) zone. (See Sheet 3)	Yes	
Location Trigger Met?	Yes	

Module 1.4 - Safety Triggers		
Posted Speed Limit on any boundary road	<80	km/h
Horizontal / Vertical Curvature on a boundary street limits sight lines at a proposed driveway	No	
A proposed driveway is within the area of influence of an adjacent traffic signal or roundabout (i.e. within 300 m of intersection in rural conditions, or within 150 m of intersection in urban/ suburban conditions) or within auxiliary lanes of an intersection;	Yes	
A proposed driveway makes use of an existing median break that serves an existing site	No	
There is a documented history of traffic operations or safety concerns on the boundary streets within 500 m of the development	No	
The development includes a drive-thru facility	No	
Safety Trigger Met?	Yes	







Turning Movement Count - 15 Minute Summary Report

ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015

Total Observed U-Turns

Northbound: 0 Southbound: Eastbound: 0 Westbound:

ROOSEVELT AVE

RICHMOND RD

0

34683

ROUSEVELTAVE																				
		No	rthbou	ınd		Sou	ıthboun	ıd			Ea	stbound			We	stbound				
Time Perio	od <u>L</u>	T	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 07:	:15 3	3	1	4	8	1	2	2	5	13	2	105	2	109	1	60	2	63	172	185
07:15 07:	:30	3	0	13	16	8	2	1	11	27	0	128	3	131	2	65	2	69	200	227
07:30 07:	:45	7	2	6	15	3	2	3	8	23	2	134	7	143	2	58	5	65	208	231
07:45 08:	:00 !	5	5	9	19	5	0	4	9	28	3	147	9	159	8	64	3	75	234	262
08:00 08:	:15 8	3	1	11	20	8	0	5	13	33	6	115	7	128	4	99	15	118	246	279
08:15 08:	:30 4	4	2	16	22	20	6	7	33	55	2	153	5	160	6	93	17	116	276	331
08:30 08:	:45	3	5	2	10	21	2	2	25	35	3	143	5	151	8	97	10	115	266	301
08:45 09:	:00	9	2	14	25	9	3	3	15	40	1	135	6	142	5	118	7	130	272	312
09:00 09:	:15	9	1	13	23	5	5	5	15	38	2	132	5	139	9	92	3	104	243	281
09:15 09:	:30 4	4	0	10	14	17	1	2	20	34	1	101	4	106	12	92	4	108	214	248
09:30 09:	:45 2	2	2	9	13	12	2	4	18	31	1	98	4	103	7	86	11	104	207	238
09:45 10:	:00	3	4	11	18	7	3	7	17	35	8	91	5	104	16	108	12	136	240	275
11:30 11:	:45	7	5	21	33	19	5	3	27	60	1	98	4	103	10	118	7	135	238	298
11:45 12:	:00	7	10	18	35	19	2	14	35	70	0	93	16	109	9	143	17	169	278	348
12:00 12:	:15 4	4	4	20	28	15	2	2	19	47	3	78	4	85	9	146	13	168	253	300
12:15 12:	:30	7	4	19	30	16	3	5	24	54	1	88	8	97	20	126	13	159	256	310
12:30 12:	:45 1	0	7	34	51	8	7	7	22	73	2	102	8	112	10	127	11	148	260	333
12:45 13:	:00 1	0	6	29	45	13	10	13	36	81	0	105	9	114	17	160	17	194	308	389
13:00 13:	:15 2	.0	4	24	48	8	1	7	16	64	3	116	5	124	10	153	8	171	295	359
13:15 13:	:30 1	3	4	16	33	4	6	7	17	50	0	94	4	98	13	118	9	140	238	288
15:00 15:	:15 1	6	4	12	32	5	2	8	15	47	1	106	6	113	7	265	8	280	393	440
15:15 15:	:30	3	4	12	22	6	3	1	10	32	4	94	4	102	17	217	11	245	347	379
15:30 15:	:45 1	4	10	24	48	10	9	3	22	70	19	130	6	155	5	246	3	254	409	479
15:45 16:	:00	3	3	14	25	4	4	6	14	39	1	99	1	101	12	236	8	256	357	396
16:00 16:	:15 1	0	5	12	27	9	5	3	17	44	1	88	3	92	5	244	11	260	352	396
16:15 16:	:30 1	4	5	9	28	10	16	9	35	63	4	97	12	113	13	265	6	284	397	460
16:30 16:	:45 1	6	5	15	36	14	11	7	32	68	1	110	6	117	9	252	10	271	388	456
16:45 17:	:00	7	3	12	22	10	3	8	21	43	0	89	8	97	8	261	9	278	375	418
17:00 17:		9	3	16	28	10	5	5	20	48	1	86	7	94	10	291	14	315	409	457
17:15 17:		1	2	10	23	8	1	4	13	36	3	73	6	82	3	215	8	226	308	344
17:30 17:	:45 1	0	0	17	27	9	2	7	18	45	1	111	6	118	8	291	6	305	423	468
17:45 18:	:00 1	0	10	17	37	2	2	0	4	41	4	79	6	89	2	90	7	99	188	229
TOTAL:	269		123	469	861	315	127	164	606	1467	81	3418	191	3690	277	4996	287	7 556	9250	10717

Note: U-Turns are included in Totals.

Comment:



Turning Movement Count - Cyclist Volume Report

Work Order 34683

ROOSEVELT AVE @ RICHMOND RD

Count Date: Friday, June 12, 2015 Start Time: 07:00

ROOSEVELT AVE

RICHMOND RD

Time Period	Northbound	Southbound	Street Total	Eastbound	Westbound	Street Total	Grand Total
07:00 08:00	6	1	7	18	4	22	29
08:00 09:00	17	13	30	8	9	17	47
09:00 10:00	4	1	5	3	5	8	13
11:30 12:30	2	0	2	2	5	7	9
12:30 13:30	2	3	5	4	7	11	16
15:00 16:00	7	4	11	3	4	7	18
16:00 17:00	4	2	6	6	5	11	17
17:00 18:00	2	6	8	3	9	12	20
Total	44	30	74	47	48	95	169

Comment:

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



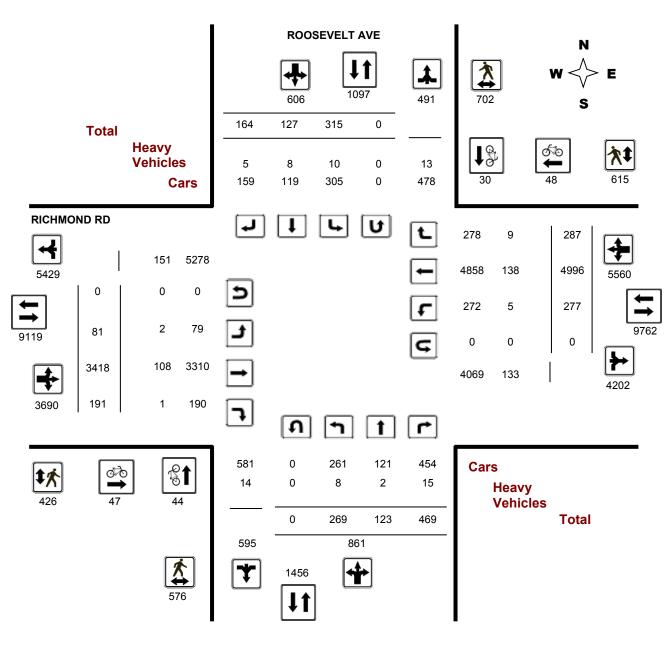
Turning Movement Count - Full Study Diagram

ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015 WO#: 34683

Device: Jamar

Technologies, Inc



Comments



W.O.

34683

Turning Movement Count - Heavy Vehicle Report

ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015

	ROOSEVELT AVE										RIG	СНМС								
_	N	lorthb	ound		(Southb	ound				Eastb	ound		,	Westbo	ound				
Time Perio	od	LT	ST	RT	N TOT	LT	ST	RT	S TOT	STR TOT	LT	ST	RT	E TOT	LT	ST	RT	W TOT	STR TOT	Grand Total
07:00 08:	:00	0	2	4	6	0	1	0	1	7	0	12	0	12	2	25	0	27	39	46
08:00 09:	:00	3	0	7	10	3	0	0	3	13	1	29	0	30	1	20	3	24	54	67
09:00 10:	:00	0	0	3	3	1	2	2	5	8	0	15	0	15	1	16	1	18	33	41
11:30 12:	:30	1	0	0	1	2	0	1	3	4	1	10	1	12	1	21	1	23	35	39
12:30 13:	:30	1	0	0	1	1	2	2	5	6	0	18	0	18	0	21	2	23	41	47
15:00 16:	:00	2	0	0	2	1	1	0	2	4	0	11	0	11	0	16	0	16	27	31
16:00 17:	:00	1	0	1	2	2	2	0	4	6	0	7	0	7	0	9	2	11	18	24
17:00 18:	:00	0	0	0	0	0	0	0	0	0	0	6	0	6	0	10	0	10	16	16
Sub Total		8	2	15	25	10	8	5	23	48	2	108	1	111	5	138	9	152	263	311
J-Turns (H	leavy	y Veh	icles)		0				0	0				0				0	0	0
Total		8	2	15	0	10	8	5	23	48	2	108	1	111	5	138	9	152	263	311

Heavy Vehicles include Buses, Single-Unit Trucks and Articulated Trucks. Further, they ARE included in the Turning Movement Count Summary.



Work Order

Turning Movement Count - Pedestrian Volume Report

ROOSEVELT AVE @ RICHMOND RD Start Time: Count Date: Friday, June 12, 2015 07:00 NB Approach SB Approach WB Approach EB Approach Time Period **Grand Total** Total **Total** (E or W Crossing) (E or W Crossing) (N or S Crossing) (N or S Crossing) 07:00 07:15 07:15 07:30 07:30 07:45 07:45 08:00 07:00 08:00 08:00 08:15 08:15 08:30 08:30 08:45 08:45 09:00 08:00 09:00 09:00 09:15 09:15 09:30 09:30 09:45 09:45 10:00 09:00 10:00 11:30 11:45 11:45 12:00 12:00 12:15 12:15 12:30 11:30 12:30 12:30 12:45 12:45 13:00 13:00 13:15 13:15 13:30 12:30 13:30 15:00 15:15 15:15 15:30 15:30 15:45 15:45 16:00 15:00 16:00 16:00 16:15 16:15 16:30 16:30 16:45 16:45 17:00 16:00 17:00 17:00 17:15 17:15 17:30 17:30 17:45 17:45 18:00 17:00 18:00

Comment:

Total

2017-Dec-04 Page 1 of 1



Work Order

34683

Turning Movement Count - Full Study Summary Report

ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015

Total Observed U-Turns

AADT Factor

0 Northbound:

Southbound: 0

0

.80

Eastbound:

Westbound:

Full Study

			ROO	OSEVE	LT AV	Έ						RI	СНМО	ND RI	D				
-	Northbound Southbound					_		Eastbo	ound		Westbound								
Period	LT	ST	RT	NB TOT	LT	ST	RT	SB TOT	STR TOT	LT	ST	RT	EB TOT	LT	ST	RT	WB TOT	STR TOT	Grand Total
07:00 08:00	18	8	32	58	17	6	10	33	91	7	514	21	542	13	247	12	272	814	905
08:00 09:00	24	10	43	77	58	11	17	86	163	12	546	23	581	23	407	49	479	1060	1223
09:00 10:00	18	7	43	68	41	11	18	70	138	12	422	18	452	44	378	30	452	904	1042
11:30 12:30	25	23	78	126	69	12	24	105	231	5	357	32	394	48	533	50	631	1025	1256
12:30 13:30	53	21	103	177	33	24	34	91	268	5	417	26	448	50	558	45	653	1101	1369
15:00 16:00	44	21	62	127	25	18	18	61	188	25	429	17	471	41	964	30	1035	1506	1694
16:00 17:00	47	18	48	113	43	35	27	105	218	6	384	29	419	35	1022	36	1093	1512	1730
17:00 18:00	40	15	60	115	29	10	16	55	170	9	349	25	383	23	887	35	945	1328	1498
Sub Total	269	123	469	861	315	127	164	606	1467	81	3418	191	3690	277	4996	287	5560	9250	10717
U Turns				0				0	0				0				0	0	0
Total	269	123	469	861	315	127	164	606	1467	81	3418	191	3690	277	4996	287	5560	9250	10717
EQ 12Hr	374	171	652	1197	438	177	228	842	2039	113	4751	265	5129	385	6944	399	7728	12857	14896
Note: These	values ar	e calcu	lated by	y multiply	ing the	totals b	y the ap	propriate	e expans	ion fac	tor.		1	.39					
AVG 12Hr	299	137	522	957	350	141	182	674	1631	90	3801	212	4103	308	5556	319	6183	10286	11917
Note: These	volumes	are calc	culated	by multip	olying th	e Equiv	alent 12	2 hr. tota	ls by the	AADT	factor.			80					
AVG 24Hr	392	179	683	1254	459	185	239	883	2137	118	4979	278	5375	404	7278	418	8099	13474	15611
Note: These	volumes	are calc	culated	by multip	olying th	e Avera	ige Dail	y 12 hr. 1	otals by	12 to 2	4 expan	sion fac	tor.	1.31					

Comments:

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

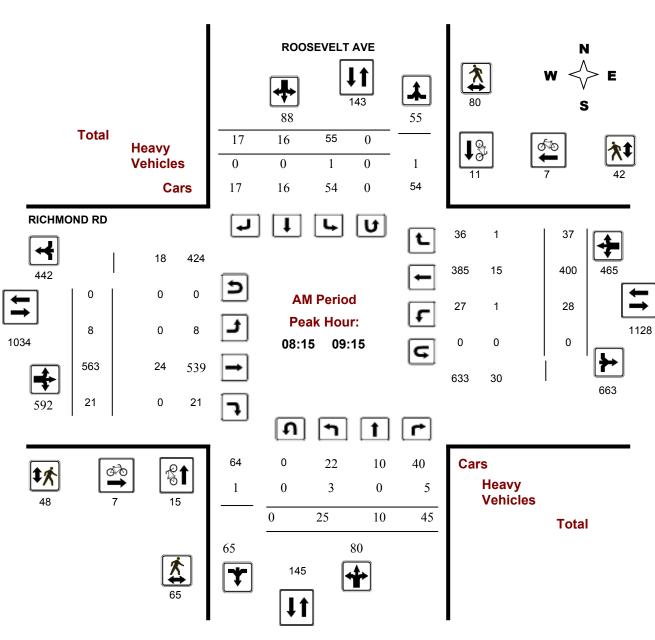


Turning Movement Count - Full Study Peak Hour Diagram

ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015 WO No: 34683
Start Time: 07:00 Device: Jamar

Technologies, Inc



Comments



Turning Movement Count - Full Study Peak Hour Diagram

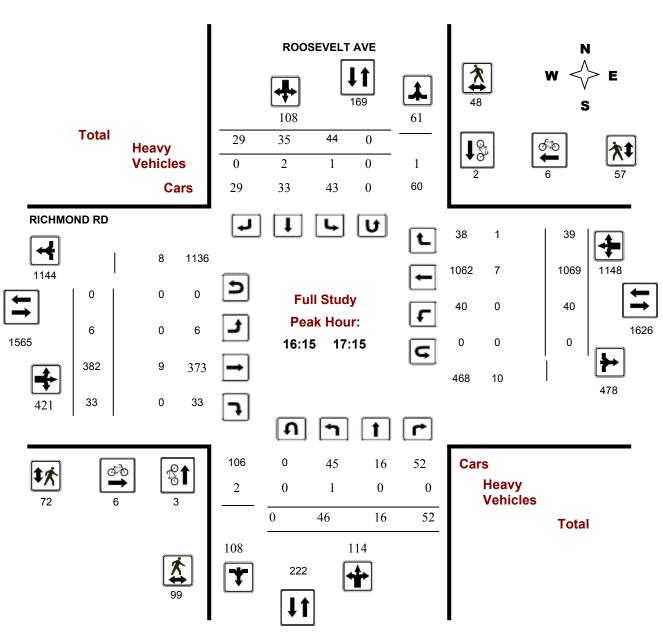
ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015 WO No:

Start Time: 07:00 Jamar Device: Technologies,

Inc

34683



Comments



Turning Movement Count - Full Study Peak Hour Diagram

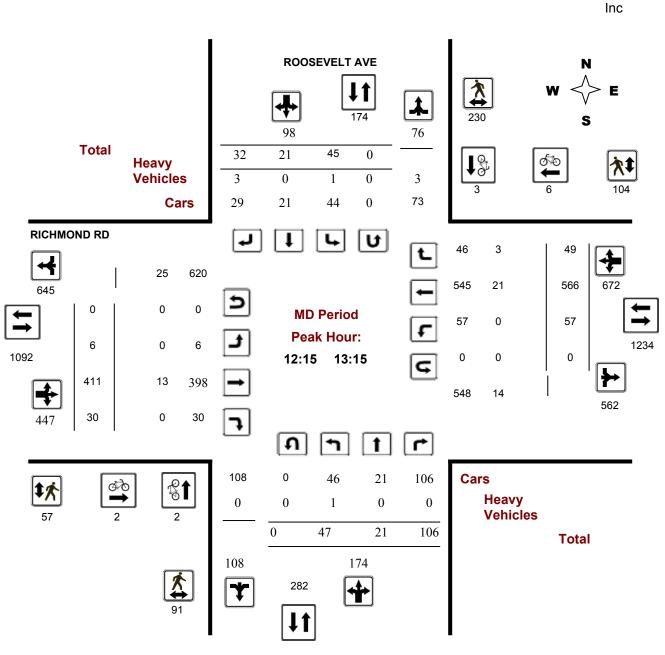
ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015

Start Time: 07:00

WO No: 34683

Device: Jamar Technologies,



Comments

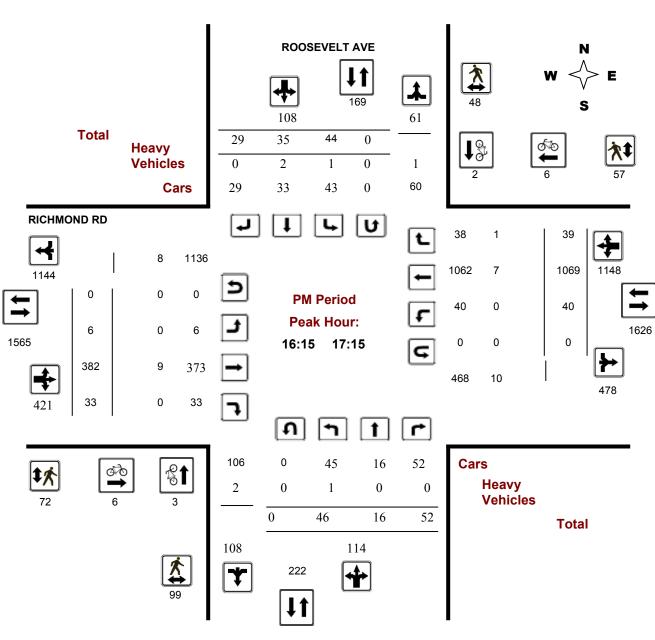


Turning Movement Count - Full Study Peak Hour Diagram

ROOSEVELT AVE @ RICHMOND RD

Survey Date: Friday, June 12, 2015 WO No: 34683
Start Time: 07:00 Device: Jamar

Technologies, Inc



Comments



Work Order 34683

Turning Movement Count - 15 Min U-Turn Total Report

ROOSEVELT AVE @ RICHMOND RD

				<u>~</u>		
Survey Date:		Friday, June 12, 2	2015			
Time F	Period	Northbound U-Turn Total	Southbound U-Turn Total	Eastbound U-Turn Total	Westbound U-Turn Total	Total
07:00	07:15	0	0	0	0	0
07:15	07:30	0	0	0	0	0
07:30	07:45	0	0	0	0	0
07:45	08:00	0	0	0	0	0
08:00	08:15	0	0	0	0	0
08:15	08:30	0	0	0	0	0
08:30	08:45	0	0	0	0	0
08:45	09:00	0	0	0	0	0
09:00	09:15	0	0	0	0	0
09:15	09:30	0	0	0	0	0
09:30	09:45	0	0	0	0	0
09:45	10:00	0	0	0	0	0
11:30	11:45	0	0	0	0	0
11:45	12:00	0	0	0	0	0
12:00	12:15	0	0	0	0	0
12:15	12:30	0	0	0	0	0
12:30	12:45	0	0	0	0	0
12:45	13:00	0	0	0	0	0
13:00	13:15	0	0	0	0	0
13:15	13:30	0	0	0	0	0
15:00	15:15	0	0	0	0	0
15:15	15:30	0	0	0	0	0
15:30	15:45	0	0	0	0	0
15:45	16:00	0	0	0	0	0
16:00	16:15	0	0	0	0	0
16:15	16:30	0	0	0	0	0
16:30	16:45	0	0	0	0	0
16:45	17:00	0	0	0	0	0
17:00	17:15	0	0	0	0	0
17:15	17:30	0	0	0	0	0
17:30	17:45	0	0	0	0	0
17:45	18:00	0	0	0	0	0
To	otal	0	0	0	0	0
-						



Total Area

Classification of Accident	Rear End	Turning Movement	Sideswipe	Angle	Approaching	Single Vehicle (other)	Single vehicle (Unattended vehicle)	Other	Total	
P.D. only	1	1	1	1	0	0	0	0	4	67%
Non-fatal injury	0	1	0	0	0	1	0	0	2	33%
Non reportable	0	0	0	0	0	0	0	0	0	0%
Total	1	2	1	1	0	*	0	0	6	100%
·	#2 or 17%	#1 or 33%	#2 or 17%	#2 or 17%	#6 or 0%	#2 or 17%	#6 or 0%	#6 or 0%		=

RICHMOND RD/ ROOSEVELT AVE

Years	Total # Collisions	24 Hr AADT Veh Volume	Days	Collisions/MEV
2012-2016	5	15,611	1825	0.18

Classification of Accident	Rear End	Turning Movement	Sideswipe	Angle	Approaching	Single Vehicle (other)	Single vehicle (Unattended vehicle)	Other	Total
P.D. only	1	1	0	1	0	0	0	0	3
Non-fatal injury	0	1	0	0	0	1	0	0	2
Non reportable	0	0	0	0	0	0	0	0	0
Total	1	2	0	1	0	1	0	0	5
	20%	40%	0%	20%	0%	20%	0%	0%	

60% 40% 0% 100%

ROOSEVELT AVE, RICHMOND RD to END

Years	Total # Collisions	24 Hr AADT Veh Volume	Days	Collisions/MEV	
2012-2016	1	1 598	1825	0.34	

Classification of Accident	Rear End	Turning Movement	Sideswipe	Angle	Approaching	Single Vehicle (other)	Single vehicle (Unattended vehicle)	Other	Total
P.D. only	0	0	1	0	0	0	0	0	1
Non-fatal injury	0	0	0	0	0	0	0	0	0
Non reportable	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	0	0	0	0	1
	N%.	N%	100%	Nº/-	Nº/-	N%-	0%	0%	•

100% 0% 0% 100%

Collision Main Detail Summary

OnTRAC Reporting System FROM: 2012-01-01 TO: 2014-01-01

RICHMOND RD & ROOSEVELT AVE

For	mer Municipality: Ottawa	Traffic Control: Traffic signal		Number of Collisions: 2				
	DATE DAY TIME ENV	IMPACT LIGHT TYPE CLAS	SS DIR	SURFACE COND'N	VEHICLE MANOEUVRE	VEHICLE TYPE	FIRST EVENT	No. PED
1	2012-03-23 Fri 11:39 Clear	Daylight Turning P.D. o	only V1 N V2 N	Dry Dry	Going ahead Turning right	Automobile, station Truck - dump	Other motor vehicle Other motor vehicle	0
2	2013-12-25 We 12:25 Clear	Daylight Angle P.D. o	only V1 E V2 N	lce Dry	Going ahead Turning left	Automobile, station Automobile, station	Other motor vehicle Other motor vehicle	0

(Note: Time of Day = "00:00" represents unknown collision time

Wednesday, December 06, 2017



City Operations - Transportation Services

Collision Details Report - Public Version

From: January 1, 2014 To: January 1, 2017

Location: ROOSEVELT AVE @ RICHMOND RD

Traffic Control: Traffic signal Total Collisions: 3

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuve	Vehicle type	First Event	No. Ped
2014-Jun-29, Sun,10:07	Clear	SMV other	Non-fatal injury	Dry	East	Going ahead	Automobile, station wagon	Pedestrian	1
2015-Nov-07, Sat,18:34	Clear	Turning movement	Non-fatal injury	Dry	West	Turning right	Automobile, station wagon	Other motor vehicle	
					West	Going ahead	Municipal transit bus	Other motor vehicle	
2016-Apr-09, Sat,10:57	Clear	Rear end	P.D. only	Dry	West	Going ahead	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	
					West	Stopped	Automobile, station wagon	Other motor vehicle	

Location: ROOSEVELT AVE btwn RICHMOND RD & END

Traffic Control: No control

Total Collisions: 1

Date/Day/Time	Environment	Impact Type	Classification	Surface Cond'n	Veh. Dir	Vehicle Manoeuve	er Vehicle type	First Event	No. Ped
2015-Jul-24, Fri,10:36	Clear	Sideswipe	P.D. only	Dry	South	Stopped	Automobile, station wagon	Other motor vehicle	
					South	Going ahead	Automobile, station wagon	Other motor vehicle	