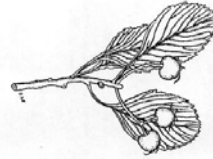


Arborist Report for 1637 to 1645 Bathurst Street

Toronto, ON (November 28, 2017)



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1. Introduction

The following is an arborist report for the property at 1637 to 1645 Bathurst Street, in Toronto Ontario. The purpose of this report was to ascertain the potential impacts of the proposed construction of a new development on the trees on the site and on adjacent properties.

This report was written for *MSLA*.

2. Methods

An on-site inspection was made on July 12, 2017. The sizes of individual trees were measured as diameter at breast height (DBH), breast height being 137 cm from ground level. The locations of these trees are indicated on the modified site plan (Fig. 1). From the data collected plant Condition Rating (CR), Location Rating (LR), Species Rating (SR), and minimum Tree Protection Zones (TPZ), were estimated.^{1,2}

It is necessary to protect all trees designated for preservation during both demolition and construction. This tree protection can be accomplished by protecting the said trees with *tree protection barriers*. The minimum tree protection zone (TPZ) radius is based on the diameter of the tree ($TPZ \approx 0.06_{m/cm} \times DBH_{cm}$). Tree barriers for road allowance areas would be composed of a 1.2 metres (4 ft.) high orange plastic web snow fencing secured on 2"x4" wood frames. Usually, tree protection barriers, not on road allowance, are to be 1.2 metres (4 ft.) high, and composed of plywood.^{3,4}

No T-bars should be used to secure TPZ barriers as they could injure roots or come into contact with energized underground conductors. TPZ signs must be added to TPZ barriers. The phone number required to be printed on TPZ signage should be that of the appropriate District of the Tree Protection and Plan Review.

Table #1. Tree number (No.), species, diameter at breast height (DBH), comments, Condition Rating (CR) and Tree Category.

No.	Tree Species	DBH (cm)	Location	CR (%)	TC	Recommendation
#1	Norway maple	33	Neighbour	65	2	To be Preserved
#2	Norway maple	17	Neighbour	60	2	To be Preserved
#3	red elm	52	Neighbour	65	2	To be Preserved
#4	red elm	15	Neighbour	65	2	To be Preserved
#5	basswood	26	Neighbour	70	2	To be Preserved
#6	Norway maple	16	Onsite	70	1	To be Removed
#7	buckthorn	8-12	Onsite	60	1	To be Removed
#8	Norway maple	36	Onsite	65	1	Remove: Conflict with Proposed Development
#9	Norway maple	42	Onsite	65	1	Remove: Conflict with Proposed Development
#10	green ash	18	Onsite, dead	0	1	To be Removed
#11	white mulberry	26-31	Onsite	70	1	Remove: Conflict with Proposed Development
#12	cherry tree	12-15	Onsite	50	1	To be Removed
#13	red oak	46	Onsite	70	1	Remove: Conflict with Proposed Development
#14	green ash	16	Onsite, dead	0	1	To be Removed
#15	Norway maple	15	Onsite	70	1	To be Removed
#16	basswood	35-56	Onsite	60	1	Remove: Conflict with Proposed Development
#17	Norway maple	16	Onsite	50	1	To be Removed
#18	Norway maple	38	Onsite	65	1	To be Preserved
#19	black locust	35	Onsite	70	1	To be Preserved
#20	black locust	58	Onsite	60	1	To be Preserved
#21	black locust	30	Onsite	60	1	To be Preserved
#22	Siberian elm	32	Onsite	65	1	Remove: Conflict with Proposed Development
#23	Chinese elm	14	Onsite	55	1	To be Removed
#24	Chinese elm	12	Onsite	60	1	To be Removed
#25	black locust	62	Onsite	55	1	To be Preserved
#26	black locust	58	Onsite	60	1	To be Preserved
#27	black locust	64	Onsite	55	1	To be Preserved
#28	black locust	15-16	Onsite	70	1	To be Preserved
#29	basswood	10-14	Onsite	70	1	To be Removed
#30	silver maple	71	Onsite	60	1	Remove: Conflict with Proposed Development
#31	black locust	42	Onsite	55	1	To be Preserved
#32	basswood	58-61	Onsite	55	1	Remove: Conflict with Proposed Development
#33	black locust	39	Onsite	60	1	Remove: Conflict with

						Proposed Development
#34	Norway maple	15	Onsite	70	1	To be Removed
#35	white mulberry	12	Onsite	70	1	To be Removed
#36	linden tree	22-46	Onsite	65	1	Remove: Conflict with Proposed Development
#37	Siberian elm	10-14	Onsite	65	1	To be Removed
#38	Manitoba maple	10-16	Onsite	60	1	To be Removed
#39	Norway maple	27	Onsite	65	1	To be Removed
#40	Siberian elm	17	Onsite	70	1	To be Preserved
#41	Siberian elm	29	Border	65	1-2	To be Preserved
#42	Norway maple	18	Neighbour - roadside	70	5-2	To be Preserved
#43	Norway maple	52	Neighbour	65	2	To be Preserved
#44	Norway maple	59	Neighbour	65	2	To be Preserved

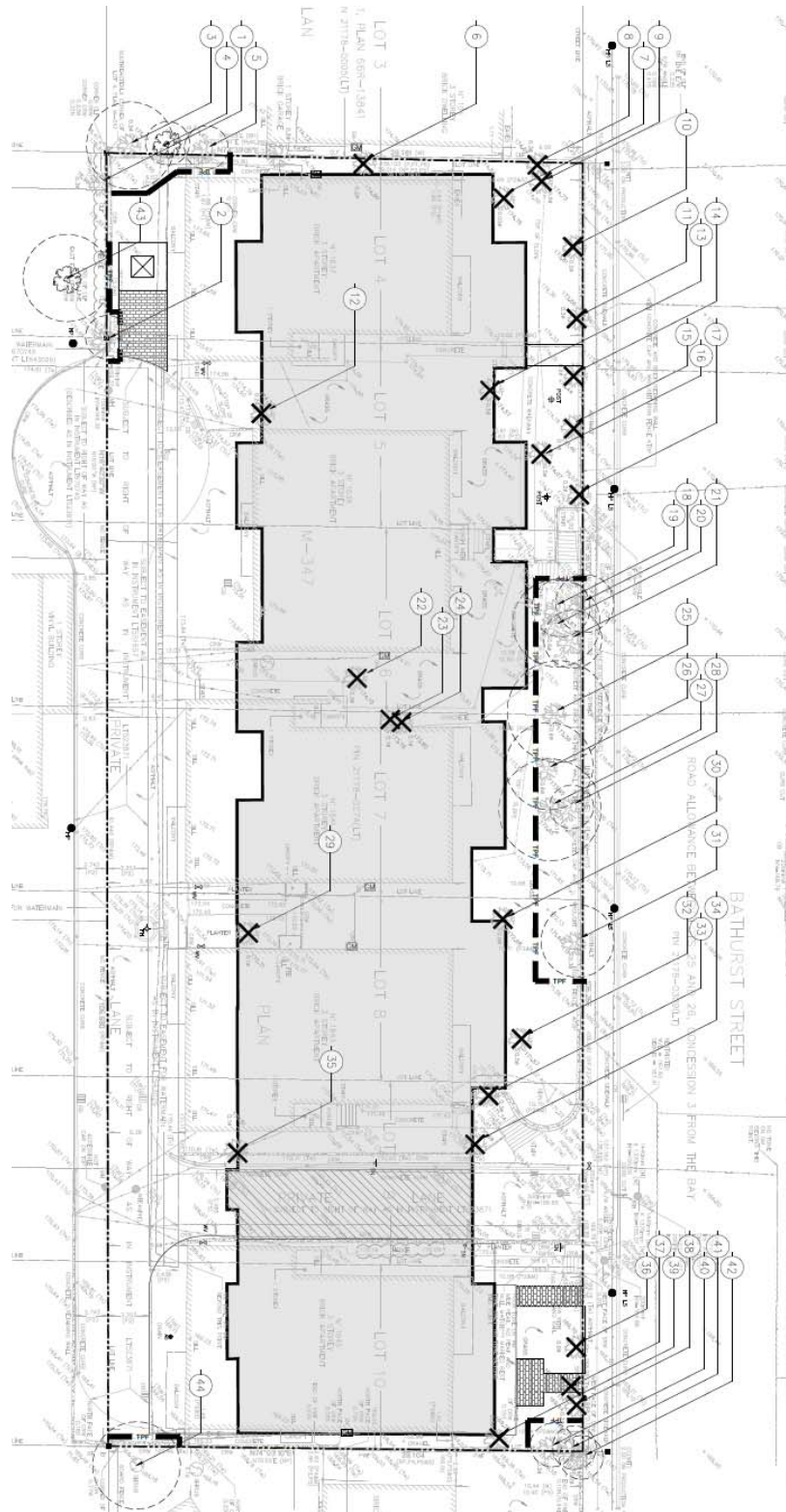


Figure #1: Tree locations on the 1637 to 1645 Bathurst Street development site

3. Discussion

There are plans to develop the site at 1637 to 1645 Bathurst Street and several non-exempt trees are to be injured or removed, in order to allow for the proposed development (Table 1, Fig. 1).

Tree no. 2 a Norway maple will have an encroachment into the tree protection zone of approx. 20% (2sq.m) for the construction of the pad mounted transformer which will require an injury permit. The injury does not encroach into the critical tree protection zone and this tree is a candidate for preservation.

Tree no. 20 a Black locust will have an encroachment into the tree protection zone of approx. 13% (5.2sq.m) for the construction of the building. The injury does not encroach into the critical tree protection zone and this tree is a candidate for preservation.

Tree no. 25 a Black locust will have an encroachment into the tree protection zone of approx. 3% (1.6sq.m) for the construction of the building. The injury does not encroach into the critical tree protection zone and this tree is a candidate for preservation

Tree no. 27 a Black locust will have an encroachment into the tree protection zone of approx. 4.5% (2.5sq.m) for the construction of the building. The injury does not encroach into the critical tree protection zone and this tree is a candidate for preservation.

Tree no. 44 a Norway maple will have an encroachment into the tree protection zone of approx. 22% (9sq.m) for the construction of the private laneway and rear entrances which will require an injury permit. The injury does not encroach into the critical tree protection zone and this tree is a candidate for preservation.

Any work required within TPZ must be completed using hand tools to avoid any potential damage of the root zone if roots of 5cm or greater are uncovered within area of construction must be cut sharply by a qualified Arborist

Neighbouring trees #1,3,4,5,41,42,43 and 44 are to be protected by barriers during the demolition and construction work on the site. Refer to Tree Preservation/ Removals plan prepared by Marton Smith Landscape Architects (MSLA) for barrier detail and locations.


4. Conclusion

In order to allow for the construction at 1637 to 1645 Bathurst Street, no offsite trees are proposed to be removed or placed at risk of injury.

- Ten (10) private non-exempt trees are proposed for removal.
- No (0) road allowance trees are to be injured or removed.
- No (0) trees on neighbouring properties are to be removed.

Refer to Tree Preservation Plan and Landscape Plan prepared by *MSLA Landscape Architects* for the development at 1637 to 1645 Bathurst Street.

D. Andrew White M. Sc.

A handwritten signature in blue ink that reads "D. Andrew White". The signature is written in a cursive style with a large initial "D" and a long, sweeping underline.

5. References

1- Council of Tree Landscape Appraisers. 2000. Guide for Plant Appraisal. 9th Edition. International Society of Arboriculture.

2- International Society of Arboriculture of Ontario. 1998. Ontario Supplement to Guide for Plant Appraisal 8th Edition. Ontario Chapter, International Society of Arboriculture.