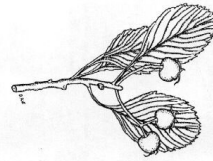


Arborist Report for 7170 Goreway Drive

Mississauga, ON (July 4, 2017) – *Updated April 14, 2022*



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1. Introduction

The following is an arborist report for the property at 7170 Goreway Drive, in Mississauga 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.

2. Methods

An on-site inspection was made on June 30, 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}

Privately owned trees of less than 15 cm DBH can be removed without permission from the City of Mississauga.

3. Discussion

There are plans to develop the site at 7170 Goreway Drive. Within the proposed development of work there are seventy six (76) trees on private property, eighteen (18) trees on neighbouring property and seven (7) trees within the road allowance. (Table 1, Fig.1).

- Seventy-eight (76) of the private trees are proposed to be removed;
Sixty (60) of which are exempt (less than 15cm DBH)
- Two (2) of the road allowance trees are proposed to be removed
- Two (2) of the neighbouring trees are proposed to be removed

Roadside Trees:

Two (2) roadside tree over 15cm DBH are proposed to be removed (Table 1, Fig. 1 Trees #5 & 6). The trees are in conflict with the proposed development.

Three (3) roadside trees are proposed to be preserved without risk of injury. (Table 1, Fig. 1 Trees #1, 3, & 4). Roadside trees #2 and #15 are dead stumps and are to remain as is.

Trees #1, 3, & 4 will require Tree Preservation Hoarding to be installed for the entire duration of demolition and construction. The trees are to be protected with the Tree Protection Hoarding along the property line as shown in the Tree Protection Plan prepared by MSLA. Refer to Detail #1 on Sheet L1-01 of the MSLA Tree Protection Plan.

Private Trees:

Seventy-four (74) of the private trees are proposed to be removed; Sixty (59) of which are bylaw exempt (less than 15cm DBH).

Fifteen (15) Private trees over 15cm DBH are proposed to be removed (Table 1, Fig.1, Trees #11, 12, 16, 18, 19, 20, 21, 23, 25, 26, 27, 29, 38, 39, 40 & 81). These trees are in conflict with the proposed development.

Shared Trees:

Trees which are shared between the applicant and their neighbours are proposed for removal.

One (1) is bylaw exempt (less than 15cm DBH) but will still require neighbour's written consent prior to removal (Table 1, Fig. 1, Tree #82).

One (1) is over 15cm DBH and is proposed to be removed (Table 1, Fig. 1, Tree #81).

Neighbouring Trees:

Two (2) are less than 15cm DBH and are exempt but will still require neighbours written permission prior to removal (Table 1, Fig. 1, Tree #87 & 88).

Nine (9) are over 15cm DBH and are proposed to be removed (Table 1, Fig. 1, Trees # 84, 85, 86, 89, 90, 91, 92, 93, & 94).

Seven (7) of the neighbouring trees are proposed to be preserved. (Table 1, Fig.1, Trees

#95*, 96, 97, 98, 99, 100, & 101). These neighbouring trees to be preserved are on the neighbours' side of an existing wood board and/or chainlink fence. These fences are to remain throughout the entire development and will assist in preserving the trees.

*Tree #95 is proposed to remain. It belongs to a neighbouring property, but some of the TPZ extends into the proposed side where there is some regrading. The grading encroachment is approximately 20% of the TPZ.

Any work required within the TPZ of any tree to be preserved must be completed using hand tools to avoid any unnecessary damage of the root zone. If roots of 5cm or greater are uncovered within the area of construction or TPZ, an arborist must be called to sharply cut them.

Note: The injury and/or removal of any neighbouring trees requires written consent from adjacent property owners prior to removal or injury.

3.1 Replacement Trees

MSLA Landscape Architects has developed a landscape planting plan for the 7170 Goreway Drive. For more information refer to the Planting Plan on page L2-02.

All new trees would be of large calliper nursery grown stock as per Mississauga standards (60mm cal. min. for deciduous trees and 1.8m ht for coniferous trees).⁴

All trees being removed over 15cm DBH require 1 replacement tree. All trees being removed over 50cm DBH require 2 replacement trees.

Twenty-Three (23) Trees >15cm DBH would need to be removed, therefore twenty-three (23) replacement trees are required.

Four (4) trees >50cm DBH would need to be removed, therefore eight (8) replacement trees are required.

A total of Thirty-one (31) replacement trees are required. As per the landscape plans provided by MSLA Landscape Architects, twenty-four (24) replacement trees are proposed. The remaining seven (7) trees will be compensated with cash-in-lieu.

Tree locations would be such as not to interfere with underground or overhead utility lines. The trees would best be transplanted during the spring or autumn. Mid-summer transplanting should be avoided. These trees are to be maintained in good condition. Supplemental watering may be required during the drier periods of the year, especially during the first two or three years after their transplantation.^{4,5}

4. Conclusions

In order to allow for the proposed construction at 7170 Goreway Drive, twenty-seven (27) by-law protected trees are proposed for removal. Sixty-two (62) bylaw exempt trees are proposed for removal. Ten (10) trees are proposed to be preserved. Two (2) dead tree stumps are to remain.

Two (2) roadside trees 15 DBH or greater are to be removed.
Three (3) roadside trees are to be preserved.
Two (2) roadside stumps are to remain.

Fifty-nine (59) private trees under 15 DBH are to be removed.
Fifteen (15) private trees 15 DBH or greater are to be removed.
Zero (0) private trees are to be preserved.

One (1) shared tree under 15 DBH is to be removed with neighbours' consent.
One (1) shared tree 15 DBH or greater is to be removed with neighbours' consent.

Two (2) neighbouring trees under 15 DBH are to be removed with neighbours' consent.
Nine (9) neighbouring trees 15 DBH or greater are to be removed with neighbours' consent.
Seven (7) neighbouring trees are to be preserved.

A total of thirty-one (31) compensation trees are required. Twenty-four (24) will be compensated through replacement tree planting and seven (7) will be compensated with cash-in-lieu.

All of the trees to be retained would be protected by barriers during the demolition and construction work on the site.

MSLA Landscape Architects has developed a detailed tree preservation plan and proposed landscape plan for the subject site.

D. Andrew White M. Sc.



April 6, 2022

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	Comments
#1	Norway maple	34	NE roadside	60	Road Allowance	To Be Preserved
#2	Norway Maple <i>*Stump</i>	37	N roadside	50	Road Allowance	To Remain
#3	Norway maple	37	N roadside	55	Road Allowance	To Be Preserved
#4	Norway maple	19	NW roadside	50	Road Allowance	To Be Preserved
#5	Scots Pine	29	NW roadside	60	Road Allowance	To Be <u>Removed</u>
#6	Scots Pine	18-20	NW roadside	55	Road Allowance	To Be <u>Removed</u>
#7	Hawthorn	5-8	W roadside	70	Private	To Be <u>Removed</u>
#8	Hawthorn	10-14	W roadside	65	Private	To Be <u>Removed</u>
#9	Hawthorn	1-3	W roadside	70	Private	To Be <u>Removed</u>
#10	Green Ash	5-7	W roadside	70	Private	To Be <u>Removed</u>
#11	Buckthorn	8-15	SW roadside	65	Private	To Be <u>Removed</u>
#12	Buckthorn	8-16	SW roadside	65	Private	To Be <u>Removed</u>
#13	Buckthorn	3-5	SW roadside	70	Private	To Be <u>Removed</u>
#14	Buckthorn	5-10	SW roadside	65	Private	To Be <u>Removed</u>
#15	<i>*Stump</i>	NA	SW roadside	0	Road Allowance	To Remain
#16	Norway maple	16	NE side	70	Private	To Be <u>Removed</u>
#17	Norway maple	10	NE exempt	70	Private	To Be <u>Removed</u>
#18	Norway maple	16	NE side	70	Private	To Be <u>Removed</u>
#19	Norway maple tag #601599	47	E side	60	Private	To Be <u>Removed</u>
#20	Norway Maple	27	NE side	65	Private	To Be <u>Removed</u>
#21	Norway maple tag #601594	53	NE side	65	Private	To Be <u>Removed</u>
#22	Norway Maple	14	NW side	70	Private	To Be <u>Removed</u>
#23	Red Oak	12-15	N side	65	Private	To Be <u>Removed</u>
#24	Juniper	14	N exempt	55	Private	To Be <u>Removed</u>
#25	Silver Maple tag #601585	20-38	Centre	60	Private	To Be <u>Removed</u>
#26	Manitoba Maple	8-24	W side	65	Private	To Be <u>Removed</u>
#27	Juniper	14-16	W side	70	Private	To Be <u>Removed</u>
#28	Silver Maple	10-13	SE exempt	70	Private	To Be <u>Removed</u>
#29	Green Ash	10-15	SE side	65	Private	To Be <u>Removed</u>
#30-36	Green Ash	5-8	SE exempt	65-70	Private	To Be <u>Removed</u>
#37	Buckthorn	5-8	NW exempt	70	Private	To Be <u>Removed</u>
#38	Norway Maple	18	W side	70	Private	To Be <u>Removed</u>
#39	Norway Maple	20	W side	70	Private	To Be <u>Removed</u>
#40	Norway Maple	22	W side	70	Private	To Be <u>Removed</u>
#41-65	White Cedars	5-10	N exempt	60-70	Private	To Be <u>Removed</u>
#66-80	Green Ash	8-12	E exempt	55-65	Private	To Be <u>Removed</u>

#81	Red Elm	18-24	S side	55	Shared	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#82	Buckthorn	5	SE exempt	60-65	Shared	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#83	Buckthorn	9	SE exempt	60-65	Private	To Be <u>Removed</u>
#84	Siberian Elm	42	NE offsite	55	Neighbour	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#85	Manitoba Maple	34	NE offsite	60	Neighbour	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#86	Manitoba Maple	58-84	E offsite	65	Neighbour	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#87	Buckthorn	5-8	SE offsite	65	Neighbour	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#88	Buckthorn	5-10	SE offsite	65	Neighbour	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#89	Manitoba Maple	28-38	SE offsite	60	Neighbour	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#90-94	Manitoba Maples	20-22	SE offsite	65-70	Neighbour	To Be <u>Removed</u> <i>*With Neighbour's Consent</i>
#95	Red Oak	8-12	SE border	70	Neighbour	To <u>Remain</u> <i>Risk of Injury with Neighbour's Consent – Grading encroachment into ~20% of TPZ</i>
#96+	Honeysuckles	1-3	S border	70-75	Neighbour	To Be Preserved
#97-99	Junipers	15-18	S offsite	55-65	Neighbour	To Be Preserved
#100	Manitoba Maple	10-16	S offsite	65-70	Neighbour	To Be Preserved
#101	Silver Maple	14-16	S offsite	70	Neighbour	To Be Preserved

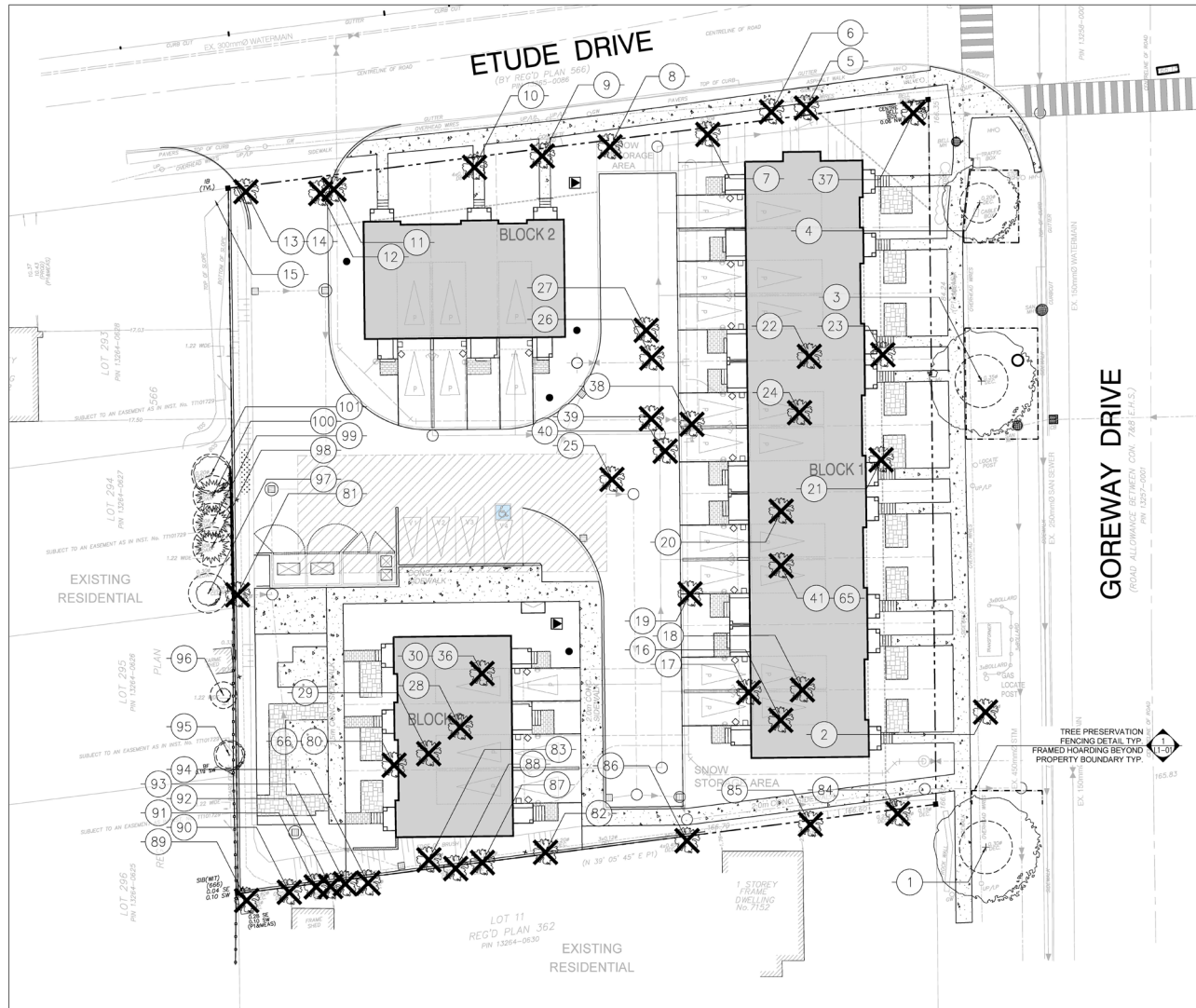


Figure #1: Tree locations on the 7170 Goreway Drive development site.

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.