



JACKSON ARBORICULTURE INC.

CONSULTING AND GIS ANALYSIS
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Tree Inventory and Preservation Plan Report

Subject Property:

5558 Drummond Rd. & 6141 North St.
Niagara Falls, ON

Prepared For:

Blythwood Homes
5-3483 Portage Road
Niagara Falls, ON L2J 2K5

Prepared By:

Jackson Arboriculture Inc.
118 Pleasant Ridge Road
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Jackson Arboriculture Inc. Project No. P363

1.0 Introduction

Jackson Arboriculture Inc. was retained by Blythwood Homes Inc. to complete a Tree Inventory and Preservation Plan report for a property situated at 5558 Drummond Road and 6141 North Street in the City of Niagara Falls, Ontario, hereby referred to as the subject property. It is understood that a development application will be filed with the City for the construction of a residential development.

2.0 Methodology

At the onset of the project the scope of work was coordinated with the client and the consulting team. Prior to conducting a site visit, the topographic survey and current aerial photography were overlaid utilizing geographic information system software for use on site during the completion of the tree inventory. The tree locations and the site plan were then overlaid and a tree preservation analysis was completed to determine the impacts to the trees included in the inventory.

2.1 Tree Inventory

A site visit was conducted on the 1st of March 2023 to complete the tree inventory. All trees 10 cm in diameter and larger situated on subject property, on neighbouring property within 6 m and within the road allowance were included in the tree inventory. A visual assessment was completed on each tree included in the inventory and the following information is provided in the tree inventory table (Table 1):

- **Tree #:** A number assigned to each tree corresponding to the tree inventory (Table 1) and the Tree Preservation Plan (Sheet 1).
- **Species:** Common and scientific (Latin) species names.
- **DBH:** The trunk diameter at breast height, measured in centimeters at 1.4 m from the ground.
- **Condition:** The health of the tree considering the trunk integrity, the crown structure and the crown vigour; each rated as good, fair or poor. The condition ratings are based on the signs, symptoms and defects exhibited by each tree, considering the surroundings in which it is growing.
- **mTPZ:** Minimum tree preservation zone (distance at which to install tree protection fence).
- **Dripline:** The distance from the trunk to the tips of the live branches.
- **Location:** The property where the tree is situated, based on the topographic survey and gps locations taken on site.
- **Comments:** Any additional notes relevant to the tree's health or growing conditions.
- **Recommendation:** The recommended removal or preservation of each tree based on the results of the impact assessment.
- **Reason:** The portion of the proposed development that conflicts with the tree location.

The trees included in the inventory are identified with numbers 1-33. Trees were located using the topographic survey provided and a tablet computer with a GPS receiver.

2.2 Impact Assessment

A tree preservation analysis was completed on each tree included in the tree inventory considering the impacts from the proposed development and many other factors including, but not limited to, tree condition, species, DBH and the existing site conditions. The impacts from the proposed development will occur where tree roots conflict with machinery during construction (including pre-grading)

During the tree preservation analysis the minimum Tree Preservation Zone (mTPZ) distance was utilized to determine the potential impacts to each tree included in the inventory. Where considerable encroachment is required within the mTPZ, tree removal may be required.

The mTPZ distance is the minimum distance at which development can safely occur without adversely impacting a tree's root system. The mTPZ distance is based on the diameter of the tree and measured in meters from the base of the stem. Refer to Table 2 for the mTPZ distances based on trunk diameter.

Table 2. Minimum tree preservation zone distances.

DBH (cm)	Min. Tree Preservation Zone Distance (m)*
	Radius
< 10	1.8
11 – 40	2.4
41 – 50	3.0
51 – 60	3.6
61 – 70	4.2
71 – 80	4.8
81 – 90	5.4
91 – 100	6.0
101 – 110	6.6

*As measured from the outside of the tree trunk.

3.0 Existing Conditions

The subject property is currently occupied by a vacant residential property at 5558 Drummond Road and a portion of the rear yard of 6141 North Street.

4.0 Tree Inventory Results

The results of the tree inventory indicate that a total of 33 trees reside on subject property, on neighbouring property within 6 m and within the road allowance. The trees included in the inventory appear to be comprised of landscape plantings with some naturally occurring trees.

The trees included in the inventory are comprised of the following species:

- english walnut (*Juglans regia*),
- red oak (*Quercus rubra*),
- white mulberry (*Morus alba*),
- Manitoba maple (*Acer negundo*),
- common horsechestnut (*Aesculus hippocastanum*),
- Norway maple (*Acer platanoides*)
- pear species (*Pyrus sp.*),
- apple species (*Malus sp.*),
- sweet cherry (*Prunus avium*),
- weeping willow (*Salix sp.*),
- shagbark hickory (*Carya ovata*),
- eastern white cedar (*Thuja occidentalis*),
- pecan (*Carya illinoensis*),
- silver maple (*Acer saccharinum*) and
- black walnut (*Juglans nigra*).

No rare, threatened or endangered tree species were documented in the tree inventory. Refer to Table 1 for the complete tree inventory and Sheet 1 for the tree locations.

5.0 Proposed Development

The proposed development includes the construction of a 4-storey residential building and associated asphalt parking.

6.0 Discussion

The following sections discuss the tree removal requirements, tree preservation opportunities and tree preservation recommendations based on the results of the impact assessment.

6.1 Tree Removal

The removal of the following Trees will be required to accommodate the proposed development:

- 1-9, 11, 15-17, 20-22, 24-27, 29-31 and 33.

Trees 8, 24 and 29-31 appear to reside partially or fully on neighbouring property. Permission from the respective neighbouring property owner will be required prior to their removal, as per the Forestry Act, R.S.O. 1990.

6.2 Tree Preservation

The preservation of the following Trees will be possible with the use of appropriate tree protection measures:

- 10, 12-14, 18, 19, 23, 28 and 32.

Tree protection measures must be implemented prior to the commencement of construction (pre-grading) to ensure that the trees identified for preservation are not damaged.

Encroachment within the mTPZ of Trees 10 and 12 will be required to accommodate the proposed development. If any tree roots are exposed during construction they must be pruned by a Certified Arborist in accordance with good arboricultural practice.

Encroachment within the mTPZ of Tree 18 will be required to accommodate the proposed parking lot. The limit of tree protection fence must be excavated using an air spade to gently expose any root roots that conflict with construction. The air spade excavation must be completed or supervised by a Certified Arborist. If any tree roots are exposed they must be pruned by a Certified Arborist in accordance with good arboricultural practice to ensure that the tree roots are not damaged.

Where swales are proposed within the tree protection zones they must be excavated using an air spade or by hand digging with a shovel. If any roots are exposed they must be pruned by a Certified Arborist. All work occurring within the tree protection fence must be supervised or completed by a Certified Arborist.

Tree protection fence must be installed at the mTPZ distance unless noted otherwise in this report and on Sheet 1. Tree protection fence must be installed prior to the commencement of construction (pre-grading) to ensure that the trees identified for preservation are not impacted by the proposed development. Refer to Sheet 1 for the prescribed tree protection fence locations, additional tree protection plan notes and the tree protection fence detail.

6.3 Tree Preservation Recommendations

The following recommendations are made in attempts to reduce the impacts to trees identified for preservation:

- Tree protection fence must be installed at the mTPZ distance prior to the commencement of construction (pre-grading), unless noted otherwise in this report and on Sheet 1.
- Once tree protection fence has been installed it must not be moved, relocated or altered in any way (unless repairing fallen fence etc.) for the duration of the construction period.

- No intrusion into an area identified on Sheet 1 as a tree preservation zone (TPZ) is allowed at anytime during construction.
- No storage of machinery, construction debris, materials, waste or any other items is allowed within a TPZ.
- Any tree branches and roots that conflict with the proposed development must be pruned by a Certified Arborist in accordance with good arboricultural practice.
- Tree protection fencing should be inspected by a Certified Arborist prior to and during construction to ensure that the fencing remains intact and in good repair throughout the stages of development.

7.0 Summary

Jackson Arboriculture Inc. was retained by Blythwood Homes Inc. to complete a Tree Inventory and Preservation Plan report for a property situated at 5558 Drummond Road and 6141 North Street in the City of Niagara Falls, Ontario. A tree inventory was conducted and an impact assessment was completed in the context of the proposed development plan.

The tree inventory documented a total of 33 trees situated on subject property, in the road allowance and on neighbouring property within 6 m. The results of the impact assessment indicate that the removal of 24 trees will be required to accommodate the proposed development.

Respectfully submitted,
Jackson Arboriculture Inc.

Jeremy Jackson

Jeremy Jackson, H.B.Sc.,
ISA Certified Arborist #ON-1089A
GIS Analyst

8.0 Limitations of Assessment

It is our policy to attach the following limitations of assessment to ensure that the client, municipalities and agencies are fully aware of what is technically and professionally realistic when visually assessing and retaining trees.

The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above ground parts of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of attack by insects, discoloured foliage, the condition of any visible root structures, the degree and direction of any lean, the general condition of the trees and the surrounding site, and the proximity of property and people.

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms and their health and vigour constantly change. They are not immune to changes in site conditions, or seasonal variations in the weather conditions, including severe storms with high-speed winds.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy no guarantees are offered, or implied, that these trees, or any parts of them, will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or group of trees or their component parts in all circumstances. Inevitably a standing tree will always pose some risk. Most trees have the potential for failure under adverse weather conditions, and the risk can only be eliminated if the tree is removed.

Although every effort has been made to ensure that this assessment is reasonably accurate, trees should be re-assessed periodically. The assessment presented in this report is valid at the time of the inspection.

Table 1. Tree Inventory

Location: 5558 Drummond Rd & 6141 North St, Niagara Falls

Date: 1 Mar. 2023 Surveyors: JJJ

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	mTPZ	Location	Comments	Recom.	Reason
1	English Walnut	<i>Juglans regia</i>	45	G	G	G	5	3.0	Subject Property	Seam	Remove	Utility Installation
2	English Walnut	<i>Juglans regia</i>	29	G	G	G	4	2.4	Subject Property		Remove	Utility Installation
3	English Walnut	<i>Juglans regia</i>	32	G	G	G	4	2.4	Subject Property		Remove	Garden Wall
4	English Walnut	<i>Juglans regia</i>	43	G	G	G	5	3.0	Subject Property		Remove	Asphalt Parking
5	English Walnut	<i>Juglans regia</i>	33	G	G	G	4	2.4	Subject Property		Remove	Asphalt Laneway
6	Red Oak	<i>Quercus rubra</i>	36	G	G	G	4	2.4	Subject Property		Remove	Asphalt Laneway
7	Red Oak	<i>Quercus rubra</i>	27	G	G	G	4	2.4	Subject Property		Remove	Asphalt Laneway
8	White Mulberry	<i>Morus alba</i>	12	G	G	G	3	2.4	Boundary		Remove	Asphalt Laneway
9	White Mulberry	<i>Morus alba</i>	15, 15	FG	G	G	4	2.4	Subject Property	Union at ground	Remove	Asphalt Laneway
10	Manitoba Maple	<i>Acer negundo</i>	13	F	G	G	2	2.4	Boundary	Included top fence rail	Preserve	
11	Common Horsechestnut	<i>Aesculus hippocastanum</i>	17	G	G	G	3	2.4	Subject Property		Remove	Asphalt Parking
12	Norway Maple	<i>Acer platanoides</i>	~15, 15	F	G	G	4	2.4	Neighbouring	Union at ground	Preserve	
13	Pear species	<i>Pyrus sp.</i>	~20	G	F	F	2	2.4	Neighbouring	Topped at 3 m	Preserve	
14	Apple species	<i>Malus sp.</i>	~18, 22	F	F	PF	5	2.4	Neighbouring	Union at 0.5 m, 50% crown dieback, bowed, understorey	Preserve	
15	Sweet Cherry	<i>Prunus avium</i>	29	F	PF	PF	4	2.4	Subject Property	Union at 1.5 m, broken branches, understorey, 50% crown dieback	Remove	Asphalt Parking
16	Weeping Willow	<i>Salix matsudana</i>	83	FG	G	G	8	5.4	Subject Property	Union at 2 m	Remove	Asphalt Parking, grading
17	English Walnut	<i>Juglans regia</i>	12	G	G	G	4	2.4	Subject Property	No canker present	Remove	Asphalt Parking
18	Shagbark Hickory	<i>Carya ovata</i>	~71	G	G	G	7	4.8	Neighbouring		Preserve	
19	Eastern White Cedar	<i>Thuja occidentalis</i>	~35	G	G	G	3	2.4	Neighbouring		Preserve	
20	White Mulberry	<i>Morus alba</i>	18	G	G	G	3	2.4	Subject Property	Bacterial wetwood	Remove	Asphalt Parking
21	Pecan	<i>Carya illinoensis</i>	42	F	G	G	6	3.0	Subject Property	Heavy bark lesions	Remove	Asphalt Parking
22	White Mulberry	<i>Morus alba</i>	13	G	G	G	3	2.4	Subject Property		Remove	Asphalt Parking
23	Silver Maple	<i>Acer saccharinum</i>	~20, 20, 25	FG	G	G	4	2.4	Neighbouring	Union at ground	Preserve	
24	Silver Maple	<i>Acer saccharinum</i>	~25, 25, 20, 15, 25	F	FG	G	5	2.4	Boundary	Union at ground	Remove	Asphalt Parking
25	Manitoba Maple	<i>Acer negundo</i>	~15, 17, 15	F	FG	G	4	2.4	Subject Property	Union at ground	Remove	Asphalt Parking
26	Pear species	<i>Pyrus sp.</i>	-25, 18	F	F	F	3	2.4	Subject Property	Union at 0.4 m	Remove	Asphalt Parking
27	Black Walnut	<i>Juglans nigra</i>	20, 20	F	FG	G	4	2.4	Subject Property	Union at 0.4 m	Remove	Asphalt Parking

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	mTPZ	Location	Comments	Recom.	Reason
28	Apple species	<i>Malus sp.</i>	~11	G	FG	G	3	2.4	Neighbouring	Pruning wounds	Preserve	
29	Sweet Cherry	<i>Prunus avium</i>	12	F	G	PF	1	2.4	Boundary	Heavy black knot	Remove	Condition, grading
30	Manitoba Maple	<i>Acer negundo</i>	~12	G	G	G	2	2.4	Neighbouring		Remove	Playground, grading
31	Manitoba Maple	<i>Acer negundo</i>	~13, 14, 12	F	G	G	3	2.4	Boundary	Union at ground	Remove	Playground, grading
32	English Walnut	<i>Juglans regia</i>	~41	G	G	G	5	3.0	Neighbouring		Preserve	
33	English Walnut	<i>Juglans regia</i>	41	G	G	G	6	3.0	Subject Property		Remove	Foundation Excavation

Table Legend

DBH	Diameter at Breast Height (cm)
TI	Trunk Integrity (G, F, P)
CS	Crown Structure (G, F, P)
CV	Crown Vigor (G, F, P)
mTPZ	Minimum Tree Preservation Zone (m)
DL	Dripline (m)
Recom.	Recommendation (preserve/remove)
G	Good
F	Fair
P	Poor
~	Estimate