



JACKSON ARBORICULTURE INC.

CONSULTING AND GIS ANALYSIS
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Tree Inventory and Preservation Plan Report

Subject Property:

726 Gorham Road
Fort Erie, ON

Prepared For:

2655321 Ontario Ltd.
4477 Montrose Rd.
Niagara Falls ON L2H 1K1

Prepared By:

Jackson Arboriculture Inc.
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Jackson Arboriculture Inc. Project No. 253

1.0 Introduction

Jackson Arboriculture Inc. was retained by 2655321 Ontario Ltd. to complete a Tree Inventory and Preservation Plan report for a site situated at 726 Gorham Road in the Town of Fort Erie, Ontario, hereby referred to as the subject property. It is understood that a development application will be filed with the Town.

The following study has been completed in accordance with the Town of Fort Erie's Site Plan Control Processing Guidelines.

2.0 Methodology

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

2.1 Tree Inventory

A site visit was conducted on the 13th of October 2021 to complete the tree inventory. All trees 10 cm in diameter and larger situated on subject property, on neighbouring property within 3 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 and the Tree Preservation Plan (Figure 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 poor, fair or good. The condition ratings are based on the signs, symptoms and defects exhibited by each tree, considering the conditions in which the tree is growing.
- **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.
- **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 impact assessment.

The trees included in the inventory are identified with numbers 1-23 and were located using the topographic survey prepared by Kirkup Mascoe Ure Surveying and a tablet computer with a GPS chip.

2.2 Impact Assessment

A tree preservation analysis was completed on each tree 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 and branches conflict with machinery during pre-grading and construction.

During the tree preservation analysis the distance of dripline was utilized to assess the impacts to the trees included in the tree inventory. Where considerable encroachment is required within a dripline tree removal may be required.

3.0 Existing Conditions

The subject property is currently occupied by a single family dwelling, garage and manicured lawn. A small portion of the Beaver Creek floodplain and regulated area extend onto the south eastern corner of the property. The subject property is bound by Beaver Creek to the north and east, residential development to the south, and Gorham Road to the west.

4.0 Tree Inventory Results

The results of the tree inventory indicate that a total of 23 trees reside on subject property and on neighbouring property within 3 m of the property boundaries. There are no trees situated in the road allowance. The trees included in the inventory appear to be comprised of naturally occurring trees and landscape plantings.

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

- Freeman Maple (*Acer x freemanii*),
- Eastern Cottonwood (*Populus deltoides*),
- Blue Spruce (*Picea pungens*),
- Corkscrew Willow (*Salix matsudana*),
- Green Ash (*Fraxinus pennsylvanica*),
- Black Walnut (*Juglans nigra*),
- Crimson King Norway Maple (*Acer platanoides* 'Crimson King'),
- Apple species (*Malus sp.*) and
- Willow species (*Salix sp.*).

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

5.0 Proposed Development

The proposed development includes severing the property into eight lots. The existing dwelling will be retained on one lot with the demolition of the existing garage. Seven (7) detached single family dwellings are proposed on the remaining seven lots. Beaver Creek is proposed to be protected behind a varying width buffer.

6.0 Discussion

The following sections outline the recommended tree removal and preservation opportunities based on the results of the impact analysis.

6.1 Tree Removal

The removal of Trees 2, 3, 10 and 13 will be required to accommodate the proposed development.

6.2 Tree Preservation

The preservation of Trees 1, 4-9, 11-12 and 14-23 will be possible with the use of appropriate tree protection measures. Tree protection measures must be implemented prior to the commencement of demolition to ensure that the trees identified for preservation are not damaged by the proposed development activities.

Encroachment within the driplines of Trees 15 and 23 will be required to accommodate the proposed development. If any roots are exposed during construction they must be pruned by a Certified Arborist in accordance with good arboricultural practice.

Tree 18 is exhibiting upwards of 40% dieback. Prior to the completion of construction the crown of the tree should be deadwooded to remove any dead limbs that could pose as a hazard.

Tree protection fence must be installed at the dripline of trees identified for preservation, unless noted otherwise in this report and on Figure 1. Refer to Figure 1 for the prescribed tree protection fence locations and the tree protection fence detail.

6.3 Tree Protection 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 dripline unless noted otherwise in this report and on Figure 1 prior to the commencement of demolition.
- 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 Figure 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 proposed development must be pruned by a Certified Arborist in accordance with good arboricultural practice.
- Tree 18 must be deadwooded prior to the completion of construction.
- 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 2655321 Ontario Ltd. to complete a Tree Inventory and Preservation Plan report for a site situated at 726 Gorham Road in the Town of Fort Erie. 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 23 trees situated on subject property, in the road allowances and on neighbouring property within 3 m of the property boundaries. The results of the impact assessment indicate that the removal of 4 trees included in the tree inventory 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

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 as the time of the inspection.

Table 1. Tree InventoryLocation: 726 Gorham Rd, Fort ErieDate: 13 October 2021 Surveyors: JJJ

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	Location	Comments	Recom.
1	Freeman Maple	<i>Acer x freemanii</i>	8	FG	G	G	2	Subject Property	Stem wounds at flare - lawn mower damage	Preserve
2	Eastern Cottonwood	<i>Populus deltoides</i>	24	G	G	G	3	Subject Property		Remove
3	Blue Spruce	<i>Picea pungens</i>	8, 7	F	FG	G	2	Subject Property	Union at ground	Remove
4	Corkscrew Willow	<i>Salix matsudana</i>	~20, 15, 12	FG	G	G	4	Neighbouring	Unions at 0.4 m	Preserve
5	Green Ash	<i>Fraxinus pennsylvanica</i>	~10, 7	F	F	F	2	Neighbouring	Union at ground, peeling bark, EAB infestation	Preserve
6	Black Walnut	<i>Juglans nigra</i>	34	G	G	G	5	Boundary		Preserve
7	Black Walnut	<i>Juglans nigra</i>	~20	G	G	G	4	Neighbouring		Preserve
8	Black Walnut	<i>Juglans nigra</i>	~15	G	FG	G	4	Boundary	Broken branch, light bow south	Preserve
9	Black Walnut	<i>Juglans nigra</i>	19	G	G	G	3	Subject Property		Preserve
10	Crimson King Norway Maple	<i>Acer platanoides</i> 'Crimson King'	27	G	G	G	4	Subject Property		Remove
11	Blue Spruce	<i>Picea pungens</i>	34	G	FG	G	3	Subject Property	Union in crown	Preserve
12	Apple species	<i>Malus sp.</i>	10, 10, 13	F	FG	FG	3	Subject Property	Union at 0.5 m	Preserve
13	Blue Spruce	<i>Picea pungens</i>	14	PF	PF	F	2	Subject Property	Heavy lean east, poor form, 20% crown dieback	Remove
14	Black Walnut	<i>Juglans nigra</i>	21	G	FG	G	4	Subject Property	Understorey, bowed south	Preserve
15	Willow species	<i>Salix sp.</i>	97	F	F	PF	12	Subject Property	Poison ivy vine growing up stem, 30% crown dieback	Preserve
16	Willow species	<i>Salix sp.</i>	71	G	FG	FG	6	Subject Property	10% crown dieback	Preserve
17	Black Walnut	<i>Juglans nigra</i>	10	G	G	G	3	Subject Property	Grapevine competition	Preserve
18	Willow species	<i>Salix sp.</i>	~110	F	PF	PF	8	Subject Property	Pruning wounds with heart rot, 40% crown dieback	Preserve
19	Black Walnut	<i>Juglans nigra</i>	27	G	G	G	7	Subject Property	Understorey	Preserve
20	Black Walnut	<i>Juglans nigra</i>	45	FG	G	G	7	Subject Property	Union at 2.5 m	Preserve
21	Black Walnut	<i>Juglans nigra</i>	11	G	G	G	3	Subject Property	Understorey - light bow east	Preserve
22	Weeping Willow species	<i>Salix sp.</i>	~50, 55	FG	FG	FG	9	Neighbouring	Union at 1 m, 10% crown dieback	Preserve
23	Weeping Willow species	<i>Salix sp.</i>	89	F	FG	FG	8	Neighbouring	Union at 1.5 m, 10% crown dieback	Preserve

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)
DL	Dripline (m)
Recom.	Recommendation (preserve/remove)
G	Good
F	Fair
P	Poor
EAB	Emerald Ash Borer
~	Estimate