

# **Tree Inventory and Preservation Plan Report**

Subject Property:

**272 Ridge Road** Fort Erie, ON

Prepared For:

**5038257 Ontario Inc.** 5824 Main Street Niagara Falls, ON L5G 5Z5

Prepared By:

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Jackson Arboriculture Inc. Project No. P312



## 1.0 Introduction

Jackson Arboriculture Inc. was retained by 5038257 Ontario Ltd. to complete a Tree Inventory and Preservation Plan report for a property situated at 272 Ridge Road South 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 for the redevelopment of the property.

## 2.0 Methodology

At the onset of the project the arborilogical scope of work was coordinated with the client and the consulting team. Prior to conducting a site visit, the proposed concept plan and current aerial photography were overlaid utilizing geographic information software for use on site during the completion of the tree inventory. The tree locations and the site plan were 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 2<sup>nd</sup> of June 2022 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.
- **Dripline**: The distance from the stem 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 results of the impact assessment.

The trees included in the inventory were identified with numbers 1-36 and were located using the topographic survey provided and a tablet computer with a GPS chip.

#### 2.2 Impact Assessment

A tree preservation analysis was completed on each tree included in the 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 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 appreciable encroachment is required within the dripline tree removal may be required.

# 3.0 Existing Conditions

The subject property is currently occupied by a single family dwelling and amenity areas. The property is bound by residential development to the north, a road allowance to the east, a privately owned road allowance and residential development to the south, and Ridge Road South to the west.

## 4.0 Tree Inventory Results

The results of the tree inventory indicate that a total of 36 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 naturally occurring trees and some landscape plantings.

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

- Norway Maple (Acer platanoides),
- Black Walnut (Juglans nigra),
- Silver Maple (Acer saccharinum),
- Northern Catalpa (Catalpa speciosa),
- Manitoba Maple (Acer negundo),
- Red Maple (*Acer rubrum*),
- Pussy Willow (Salix discolor),
- Horsechestnut (Aesculus hippocastanum),
- Green Ash (Fraxinus pennsylvanica).
- Eastern Cottonwood (Populus deltoides) and
- White Elm (*Ulmus americana*).

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 tree locations.

# **5.0 Proposed Development**

The proposed development is comprised of an 18 unit townhouse complex with associated asphalt parking and a parkette.

## 6.0 Discussion

The following sections discuss the tree removal requirements, tree preservation opportunities and tree preservation recommendations.

#### 6.1 Tree Removal

The removal of Trees 1-10, 14-19, 21-26 and 28-36 will be required to accommodate the proposed development.

Trees 10, 23, 29-31 and 33 appear to reside partially or fully on neighbouring property. Permission from the respective property owners will be required prior to the removal of trees residing partially or fully on neighbouring property.

Trees 1, 2 and 36 appear to reside in the municipal road allowances. Permission from the appropriate Town department will be required prior to their removal.

#### **6.2 Tree Preservation**

The preservation of Trees 11-13, 20 and 27 will be possible with the use of appropriate tree protection measures. Tree protection fence must be installed prior to the commencement of demolition 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 and the tree protection fencing 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 locations outlined on Sheet 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 Sheet 1 as a tree preservation zone (TPZ) is allowed at anytime during construction unless noted otherwise in this report and on Sheet 1.
- 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 5038257 Ontario Ltd. to complete a Tree Inventory and Preservation Plan report for a property situated at 272 Ridge Road South in the Town of Fort Erie, 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 36 trees situated on subject property, in the road allowance and on neighbouring property within 6 m. The results of the impact analysis indicate that the removal of 31 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

### **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 of group of trees or their component parts in al 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 Inventory

Location: <u>272 Ridge Rd, Fort Erie</u> Date: <u>2 June 2022</u> Surveyors: <u>JJJ</u>

Tree #	Common Name	Scientific Name	DBH	TI	cs	CV	DL	Location	Comments	Recom.
1	Norway Maple	Acer platanoides	27	F	F	F	4	ROW	Seam, 20% crown dieback	Remove
2	Black Walnut	Juglans nigra	28, 25	F	FG	G	5	ROW	Union at ground	Remove
3	Silver Maple	Acer saccharinum	73	F	FG	G	6	Subject property	Union at 2 m, cavity with heart rot	Remove
4	Silver Maple	Acer saccharinum	70	G	G	G	8	Subject property		Remove
5	Silver Maple	Acer saccharinum	50	G	G	G	5	Subject property	Light stem wound	Remove
6	Silver Maple	Acer saccharinum	47	G	G	G	6	Subject property		Remove
7	Northern Catalpa	Catalpa speciosa	20	F	F	F	3	Subject property	Union at 1.4 m with stem wound, heavy epicormic branching from historical pruning	Remove
8	Silver Maple	Acer saccharinum	84	F	FG	G	7	Subject property	Union at 1.7 m, seam	Remove
9	Black Walnut	Juglans nigra	65	G	G	G	7	Subject property		Remove
10	Manitoba Maple	Acer negundo	27	F	F	G	4	Neighbouring	Lean/bowed north	Remove
11	Norway Maple	Acer platanoides	~17	G	G	G	4	Neighbouring		Preserve
12	Red Maple	Acer rubrum	~35	G	G	G	5	Neighbouring		Preserve
13	Pussy Willow	Salix discolor	~15, 15	FG	G	G	3	Neighbouring	Union at ground	Preserve
14	Silver Maple	Acer saccharinum	63	G	G	G	5	Subject property		Remove
15	Silver Maple	Acer saccharinum	46	G	G	G	6	Subject property	Light stem wounds	Remove
16	Silver Maple	Acer saccharinum	39	G	G	G	4	Subject property		Remove
17	Silver Maple	Acer saccharinum	45, 35, 44, 16, 27	F	FG	G	11	Subject property	Many fused stems	Remove
18	Silver Maple	Acer saccharinum	46, 47, 25, 79, 43	F	FG	G	11	Subject property	Union at 1 m	Remove
19	Silver Maple	Acer saccharinum	48, 40, 52, 74	F	FG	G	12	Subject property	Unions at ground and 1.5 m with included bark/seams	Remove
20	Horsechestnut	Aesculus hippocastanum	12	G	G	G	3	ROW		Preserve
21	Green Ash	Fraxinus pennsylvanica	18	Р	Р	Р	3	Subject property	Stem wounds/peeling bark, 20% crown dieback, epicormic branching, EAB infestation	Remove
22	Silver Maple	Acer saccharinum	77, 55	F	FG	FG	9	Subject property	Union at 1 m with included bark, 10% crown dieback	Remove
23	Silver Maple	Acer saccharinum	33	F	FG	FG	4	ROW/ Neighbouring	Union at 1.7 m, fused stems, understorey, bowed south	Remove
24	Eastern Cottonwood	Populus deltoides	79, 76	PF	F	G	10	Subject property	Union at 1 m with included bark, heavy stem wound with heart rot	Remove
25	Red Maple	Acer rubrum	41, 16, 10	F	FG	G	6	Subject property	Union at 0.3 m with included bark, adjacent to 2 dead ash	Remove
26	Silver Maple	Acer saccharinum	57, 48, 64, 55	F	FG	G	12	Subject property	Union at 1 m with included bark	Remove
27	White Elm	Ulmus americana	~65	G	FG	FG	9	ROW	Union at 3 m, 10% crown dieback	Preserve
28	Silver Maple	Acer saccharinum	53, 42, 60	F	FG	G	10	Subject property	Union at 1.2 m	Remove
29	Silver Maple	Acer saccharinum	18, 35, 13	F	FG	G	5	Boundary	dual owner, us at g and 0.8	Remove
30	Silver Maple	Acer saccharinum	~11, 8	F	FG	G	5	Boundary	Union at ground	Remove

Tree #	Common Name	Scientific Name	DBH	TI	cs	cv	DL	Location	Comments	Recom.
31	Silver Maple	Acer saccharinum	~16, 19	F	FG	G	4	Boundary	Union at ground, grapevine competition	Remove
32	Silver Maple	Acer saccharinum	11	G	G	G	3	Subject property		Remove
33	Manitoba Maple	Acer negundo	26	G	G	G	5	Neighbouring		Remove
34	Silver Maple	Acer saccharinum	66	G	FG	FG	8	Subject property	10% crown dieback	Remove
35	Silver Maple	Acer saccharinum	53, 39	F	FG	G	10	Subject property	Union at 1 m	Remove
36	Norway Maple	Acer platanoides	20, 11, 13	F	FG	G	4	ROW	Union at ground	Remove

#### **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)

mTPZ Minimum Tree Preservation Zone Distance (m)

Recom. Recommendation (preserve/remove)

G Good F Fair P Poor

EAB Emerald Ash Borer

~ Estimate

