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May 13, 2024

Projex Design Build
6524 Martin Street North
Almonte, ON
613-282-3973 • caitlin@projexdesignbuild.com

ATT’N: Caitlin Kubiseski

RE: Tree Information Report for 1486 Baseline Road

Committee of Adjustment
Received | Reçu le

Revised | Modifié le : 2024-05-23

City of Ottawa | Ville d'Ottawa
Comité de dérogation

This report details pre-construction tree information for the above-noted property in Ottawa. The proposed work for this site consists of demolishing the existing two-story single-family home and rebuilding a newer pair of semi-detached homes.

This report includes assessments of all the trees on the property, including boundary and adjacent trees that are greater than 10cm diameter at breast height (DBH).

Under the Tree Protection By-law, the following protected trees cannot be injured or removed without a tree permit from the City:

- All City-owned trees throughout the urban and rural area
- All trees 10 cm or more in diameter at breast height on private properties within the urban area that are subject to a Planning Act application for Site Plan, Plan of Subdivision, or Plan of Condominium
- All trees 10 cm or more in diameter at breast height on private properties within the urban area that are over 1 hectare in size
- All distinctive trees on private properties 1 hectare or less in size, where distinctive trees are defined as:
 - Trees measuring 30 cm or more in diameter at breast height within the City of Ottawa

The properties of these trees are noted in the table on page two.

The information for this report was gathered on February 16, 2023. This report was revised to reflect changes in construction plans on December 5, 2023 and to address the City’s concerns on February 1, 2024, and February 28, 2024, April 24, 2024.

Tree	Species	DBH (cm)	Location	Ownership	CRZ (m)	DE (m)	Tree Condition	Reason for Removal	Arborist's opinion if removal
A	Siberian Elm	14	Front right	Client	1.5	4	Fair	Tree is in proposed driveway of unit 1	Remove tree
B	Ash	20	Back right	City	2	5+	Dead	Tree is dead	Remove tree
C	Buckthorn (multi-stem)	10	Back centre	City	1	5+	Fair	-	N/A: Install Tree Protection Zone
D	Norway Maple	24	Back centre	City	2.5	5+	Poor	-	N/A: Install Tree Protection Zone
E	Norway Maple	33	Back left	City	3	5+	Fair	-	N/A: Install Tree Protection Zone
F	Norway Maple	17	Back left	City	2	8+	Fair	-	N/A: Install Tree Protection Zone
G	Norway Maple	(15, 15)	Back left	City	2	5+	Poor	-	N/A: Install Tree Protection Zone
H	Norway Maple	37	Back left	Neighbour	4	3	Fair	-	N/A: Install Tree Protection Zone
I	Norway Maple	34	Back left	Neighbour	3.5	1.5	Fair	Tree is in close proximity to proposed unit 4	Recommend remove tree, is a poor and inferior species (multiple stems grow close together and usually becomes problematic as they grow larger) and to allow for the new building plans (unit 4, part 4) Tree is likely to become unstable after nearby excavations Requires removal permit from the City (see figure 1 on page three) and permission from neighbour
J	Norway Maple	(18, 20)	Front left	Client	2	0	Fair	Tree is in proposed driveway of unit 4	Remove tree, is an inferior species and to allow for the new building plans (unit 4, part 4)
K	Norway Maple	24	Front left	Client	2.5	1	Fair	Tree is in proposed driveway of unit 4	Remove tree, is an inferior species and to allow for the new building plans (unit 4, part 4)
L	Norway Maple	(23, 18)	Front left	Client	2	3	Fair	Tree is in proposed driveway of unit 4	Remove tree
M	Norway Maple	27	Front left	Client	3	3.5	Fair	Tree is in proposed driveway of unit 4	Remove tree

Key Definitions

CRZ (Critical Root Zone): is established as being 10cm from the trunk of a tree for every centimeter of trunk DBH.

The CRZ is calculated as DBH x 10cm. This provides direction for the location of the tree protection fencing.

DBH (Diameter at breast height): The measurement of a trunk of a tree at a height of 120cm.

DE (Distance to excavation): The measurement of the distance from the nearest edge of the tree's trunk to adjacent excavation limits.

Boundary Tree means a tree, of which any part of the trunk is growing across one or more property lines.

Adjacent Tree means a tree whose trunk is growing on a property sharing a boundary with the subject site.

Figure 1: Norway Maple 34cm diameter (l) currently located behind the fence line along the back left of the property to be removed (will require a permit from the City to remove this tree)



Provincial Regulations

As the arborist, we are responsible to abide by all Provincial Regulations such as the Endangered Species Act which mandates that tree species on the Species at Risk in Ontario list be identified. Butternut (*Juglans cinerea*) is found in Eastern Ontario and is listed as threatened. Due to it being on the list, it must be protected from harm.

No protected species were identified on this or adjacent properties.

Impact of Development:

Item B is recommended to be removed as the tree is dead. Items A, I, J, K, L and M are recommended to be removed as they are located near the proposed plans for units 1 and 4 and will likely become unstable due to nearby excavations. The removal of items H and I will require tree removal permits from the City and the neighbour's permission to proceed (City has neighbour's permission).

Protection measures must be implemented to retain items C-H if construction is within the critical root zones.

Tree Protection Measures:

The Tree Protection By-law requires that anyone working near protected trees must, unless otherwise authorized by the City:

- Erect a 1.2 m high fence around the outer edge of the critical root zone (CRZ) of trees prior to beginning other site work, and maintain the fence until the work is complete
- Not place any material or equipment within the CRZ of the tree
- Not raise or lower the existing grade within the CRZ of a tree
- Not extend any hard surface or significantly change landscaping within the CRZ of a tree
- Not attach any signs, notices or posters to any tree, except as required by this by-law for trees to be removed
- Not damage the root system, trunk or branches of any tree
- Ensure that exhaust fumes from equipment are not directed toward any tree's canopy

It is an offence under the Tree Protection By-law to fail to adequately protect a tree that has not been approved for removal.

Pre-Construction measures

To retain any tree where excavation falls within the critical root zone, the best practice would be to use hydra excavation to expose any roots along the area where the excavation will be dug and then cut any roots visible with a pair of sterilized snips or a sharp saw before continuing to excavate. Where digging encounters roots, we suggest that cutting the roots is the preferred method of tearing roots with equipment. Limit construction equipment from the area as much as possible to prevent extra root compaction. If travel over the root zone is required a buffer of woodchips spread thick enough to stabilize a 3/4-inch sheet of plywood should be applied. Fertilizing in the spring and applying mulch post-construction is advised.

Post-Construction Measures:

Aerate and fertilize the retained trees if impacted by construction. Applying mulch post-construction is advised. Deadwood and weakly attached branches can be pruned out post-construction, but other pruning should be minimized, if possible, for a couple of years to allow the trees to recover.

Replacement Tree Planting or Compensation:

When tree removals cannot be avoided, and compensation planting is required it must be done post-construction and at final grade. Otherwise, the City will request monetary compensation if planting a new tree is not feasible after the construction has commenced.

The City is requesting 4 trees to be planted to replace tree I. The City prefers the trees be planted in the ROW. New tree plantings are marked as 1, 2, 3 and 4 in red on the site plan.

We suggest an ornamental tree for replacement such as Serviceberry, Ivory Silk Lilac, Crabapple, Pyramidal Cedar etc.

Respectfully submitted,

Fred Stevens

613-229-6653

Certified Arborist #ON-0320A and TRAQ Certified

Self-Declaration (to be signed by property owner):

By signing the application, you are acknowledging and understanding that an inspector may enter the property at a reasonable time for the purpose of carrying out an inspection. You also acknowledge and understand that through failure to abide by the recommendations of the approved Tree Information Report, damaging or destructing trees identified for protection, you will be responsible to bear fully the cost of compensation, removal, and replacement.

It is the owner/applicant's responsibility to ensure that all protection and mitigation measures described in the TIR are followed, and where necessary are done so under the supervision of an arborist.

X _____

Client Name and Phone number