



March 24, 2021

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RE: TREE CONSERVATION REPORT FOR 1435 & 1455 MORISSET AVENUE, OTTAWA

This report details a pre-construction tree conservation report (TCR) for the above-noted series of properties in Ottawa. The need for this TCR is related to the proposed construction of a four-storey apartment building with surface parking.

Tree conservation reports are required for all properties subject to site plan control applications on which trees of 10 centimetres in diameter or greater are present. The approval of this TCR by the City of Ottawa and the issuing of a permit by them authorize the removal of approved trees. **Importantly, although this report may be used to support the application for a City tree removal permit, it does not by itself constitute permission to remove trees or begin site clearing activities. No such work should occur before a tree removal permit is issued by the City of Ottawa.**

The inventory in this report details the assessment of all individual trees on and adjacent to the two subject properties. The city owned trees directly adjacent to the subject properties do no conflict with the proposed development and so are slated for preservation and protection. All five trees on the subject properties do conflict and so are slated for removal prior to construction. Field work for this report was completed in March 2021.

TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 below details the species, condition, size (diameter), ownership and status of the individual trees on and adjacent to the subject properties. Each of these trees are referenced by the numbers plotted on the accompanying tree conservation plan.



Table 1. Species, condition, size (diameter) and status of trees at 1435 & 1455 Morisset Ave.

Tree No.	Tree species	Condition (VP→E)	DBH ¹ (cm)	Owner -ship	Age class, tree condition notes & preservation status (to be removed or preserved and protected)
1	Siberian elm (<i>Ulmus pumila</i>)	Poor	17 avg.	Private	Mature; tri-stemmed; multiple dead and broken branches – including physical damage from snow piling; lower bole, root collar and rooting area obscured by snow; introduced invasive species; to be removed
2	Siberian elm	Fair	27 avg.	Private	Mature; four stemmed at 0.25-0.5m from grade; stems moderately divergent; multiple dead, hanging branches; very restricted rooting area; to be removed
3	Manitoba maple (<i>Acer negundo</i>)	Fair	31	Private	Mature; lower stem divergent towards northeast; co-dominant stems at 2m with suppressed lateral towards southeast; broad crown; basal sprouts heavily cut back; very restricted rooting area; naturalized species; to be removed
4	Siberian elm	Fair	31	Private	Mature; central stem with co-dominant stems at 3m - reaction wood at union; multiple dead, hanging branches; very restricted rooting area; to be removed
5	Siberian elm	Fair	38 & 42	Private	Mature; double stemmed at 1m; stems moderately divergent; multiple dead, hanging branches; very restricted rooting area; to be removed
6	Siberian elm	Fair	49 & 51	City	Mature; double stemmed at 1.2m with strong union; stems moderately divergent; crown extends far over road; maintained; to be preserved and protected
7	Norway maple (<i>Acer platanoides</i>)	Good	30	City	Mature; central stem with divergent leaders at 5m; maintained; introduced invasive species; to be preserved and protected
8	Norway maple	Good	28	City	Mature; central stem with competing leaders at 4.5m; maintained; to be preserved and protected

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9	Little-leaf linden (<i>Tilia cordata</i>)	Fair	38	City	Mature; central stem with competing lateral at 3.5m on north; poor vigour and crown density; multiple girdling roots; introduced species; to be preserved and protected
10	Norway maple	Very poor	18	City	Mature; eutypella canker (<i>Eutypella parasitica</i>) on main stem at 0.2-1.5m; canker occupies +/-80% stem circumference – hazardous; to be preserved and protected (though should be removed)
11	Norway maple	Very poor	19	City	Mature; eutypella canker on main stem at 0.25-1m; canker occupies +/- 70% stem circumference – hazardous; to be preserved and protected (though should be removed)
12	Norway maple	Good	26	City	Mature; central stem with competing lateral at 1.5m on north; multiple co-dominant stems at 2.5m – broad crown; to be preserved and protected
13	Norway maple	Fair	29	City	Mature; central stem with suppressed lateral at 2m on east (with weak union); tri-dominant leaders at 3m – broad crown; to be preserved and protected
14	Little-leaf linden	Poor	39	City	Mature; atypical growth form; co-dominant leaders at 4m; poor vigour and crown density; heavy linden borer (<i>Saperda vestita</i>) feeding damage apparent in exposed root collar; to be preserved and protected

¹ diameter at breast height, or 1.4m from grade (unless otherwise indicated); average diameters indicate multi-stemmed trees

Pictures 1, 2 and 3 on pages 5 and 6 of this report show the trees on and adjacent to the subject properties.

FEDERAL AND PROVINCIAL REGULATIONS

Federal and provincial regulations can be applicable to trees on private and public property. In particular, the following regulation has been considered for this property:

- 1) Endangered Species Act (2007): No butternuts (*Juglans cinerea*) were identified on the subject or adjacent properties. This species of tree is listed as threatened under the Province of Ontario's Endangered Species Act (2007) and so is protected from harm.
- 2) Migratory Bird Convention Act (1994): In the period between April and August of each year nest surveys are required to be performed by a suitably trained person no more than five (5) days before trees or other similar nesting habitat are to be removed.

TREE PRESERVATION AND PROTECTION MEASURES

Preservation and protection measures intended to mitigate damage during construction will be applied for the trees to be retained adjacent to the subject properties. The following measures are the minimum required by the City of Ottawa to ensure tree survival during and following construction:

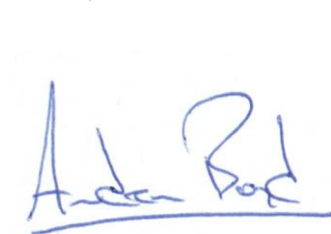
1. As per the City of Ottawa's tree protection barrier specification, erect a fence as close as possible to the CRZ of the tree(s);
2. Do not place any material or equipment within the CRZ of the tree(s);
3. Do not attach any signs, notices or posters to any tree;
4. Do not raise or lower the existing grade within the CRZ without approval;
5. Tunnel or bore instead of trenching within the CRZ of any tree;
6. Do not damage the root system, trunk or branches of any tree;
7. Ensure that exhaust fumes from all equipment are NOT directed towards any tree's canopy.

¹ critical root zone (CRZ) is established as being 10 centimetres from the trunk of a tree for every centimetre of DBH. The CRZ is calculated as DBH x 10 cm.

This report is subject to the attached Limitations of Tree Assessments and Liability to which the reader's attention is directed.

Please do not hesitate to contact the undersigned with any questions concerning this report.

Yours,



Andrew K. Boyd, B.Sc.F, R.P.F. (#1828)
Certified Arborist #ON-0496A and TRAQualified
Consulting Urban Forester





Picture 1. Private trees #1-5 located at 1435 & 1455 Morisset Avenue



Picture 2. City owned trees #9-14 (left to right) adjacent to 1435 Morisset Avenue



Picture 3. City owned trees #6, 7 and 8 (left to right) adjacent to 1455 Morisset Avenue

LIMITATIONS OF TREE ASSESSMENTS & LIABILITY

GENERAL

It is the policy of *IFS Associates Inc.* to attach the following clause regarding limitations. We do this to ensure that our clients are clearly aware of what is technically and professionally realistic in assessing trees for retention.

This report was carried out by *IFS Associates Inc.* at the request of the client. The information, interpretation and analysis expressed in this report are for the sole benefit and exclusive use of the client. Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the client to whom it is addressed. Unless otherwise required by law, neither all or any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through public relations, news or other media, without the prior expressly written consent of the author, and especially as to value conclusions, identity of the author, or any reference to any professional society or institute or to any initialed designation conferred upon the author as stated in his qualifications.

This report and any values expressed herein represent the opinion of the author; his fee is in no way contingent upon the reporting of a specified value, a stipulated result, nor upon any finding to be reported.

Details obtained from photographs, sketches, *etc.*, are intended as visual aids and are not to scale. They should not be construed as engineering reports or surveys. Although every effort has been made to ensure that this assessment is reasonably accurate, the tree(s) should be reassessed at least annually. The assessment presented in this report is valid at the time of the inspection only. The loss or alteration of any part of this report invalidates the entire report.

LIMITATIONS

The information contained in this report covers only the tree(s) in question and no others. It reflects the condition of the assessed tree(s) at the time of inspection and was limited to a visual examination of the accessible portions only. *IFS Associates Inc.* has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the forestry and arboricultural professions, subject to the time limits and physical constraints applicable to this report. The assessment of the tree(s) presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground portions of each tree for structural defects, scars, cracks, cavities, external indications of decay such as fungal fruiting bodies, evidence of insect infestations, discoloured foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of people and property. Except where specifically noted in the report, the tree(s) examined were not dissected, cored, probed or climbed to gain further evidence of their structural condition. Also, unless otherwise noted, no detailed root collar examinations involving excavation were undertaken.

While reasonable efforts have been made to ensure that the tree(s) proposed for retention are healthy, no warranty or guarantee, expressed or implied, are offered that these trees, or any parts of them, will remain standing. This includes other trees on or off the property not examined as part of this assignment. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or groups of trees or their



component parts in all circumstances, especially when within construction zones. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure in the event of root loss due to excavation and other construction-related impacts. This risk can only be eliminated through full tree removal (which is recommended in this case).

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 over time. They are not immune to changes in site conditions, or seasonal variations in the weather. It is a condition of this report that *IFS Associates Inc.* be notified of any changes in tree condition and be provided an opportunity to review or revise the recommendations within this report.

Recognition of changes to a tree's condition requires expertise and extensive experience. It is recommended that *IFS Associates Inc.* be employed to re-inspect the tree(s) with sufficient frequency to detect if conditions have changed significantly.

ASSUMPTIONS

Statements made to *IFS Associates Inc.* in regards to the condition, history and location of the tree(s) are assumed to be correct. Unless indicated otherwise, all trees under investigation in this report are assumed to be on the client's property. A recent survey prepared by a Licensed Ontario Land Surveyor showing all relevant trees, both on and adjacent to the subject property, will be provided prior to the start of field work. The final version of the grading plan for the project will be provided prior to completion of the report. Any further changes to this plan invalidate the report on which it is based. *IFS Associates Inc.* must be provided the opportunity to revise the report in relation to any significant changes to the grading plan. The procurement of said survey and grading plan, and the costs associated with them both, are the responsibility of the client, not *IFS Associates Inc.*

LIABILITY

Without limiting the foregoing, no liability is assumed by *IFS Associates Inc.* for:

- 1) any legal description provided with respect to the property;
- 2) issues of title and/or ownership with respect to the property;
- 3) the accuracy of the property line locations or boundaries with respect to the property;
- 4) the accuracy of any other information provided by the client or third parties;
- 5) any consequential loss, injury or damages suffered by the client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and,
- 6) the unauthorized distribution of the report.

Further, under no circumstances may any claims be initiated or commenced by the client against *IFS Associates Inc.* or any of its directors, officers, employees, contractors, agents or assessors, in contract or in tort, more than 12 months after the date of this report.

ONGOING SERVICES

IFS Associates Inc. accepts no responsibility for the implementation of any or all parts of the report, unless specifically requested to supervise the implementation or examine the results of activities recommended herein. In the event that examination or supervision is requested, that request shall be made in writing and the details, including fees, agreed to in advance.