



URBAN FORESTRY & FOREST MANAGEMENT CONSULTING

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April 4, 2022

Marietta Ruhland  
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Suite 200 - 1750 Courtwood Crescent  
Ottawa, ON  
K2C 2B5

**RE: TREE CONSERVATION INVENTORY FOR 5254 BANK STREET, OTTAWA**

This Tree Conservation Report (TCR) was prepared by IFS Associates Inc. (IFS) in support of the development of 5254 Bank Street in Ottawa. The need for this report is related to trees protected under the City of Ottawa's Tree Protection By-law (By-law No. 2020-340). The By-law reflects Section 4.8.2. of the City of Ottawa's Official Plan which calls for the retention of the City's urban forestry canopy and, in particular, large healthy trees.

Under the Tree Protection By-law, a TCR is required for all plans of subdivision, site plan control applications, common elements condominium applications, and vacant land condominium applications where there is a tree of 10 cm in diameter at breast height (DBH) or greater on a site and/or if there is a tree on an adjacent site that has a critical root zone (CRZ) extending onto a development site. Trees of any size on adjacent City lands must also be documented in a TCR. A "tree" is defined in the By-law as any species of woody perennial plant, including its root system, which has reached or can reach a minimum height of at least 450 cm at physiological maturity. The CRZ is calculated as DBH x 10 cm.

The inventory in this report details the assessment of all individual trees on the subject property and adjacent private properties and City of Ottawa land. Field work for this report was completed in October 2022.

The approval of this TCR by the city and the issuing of a permit authorizes the removal of approved trees. **Importantly, although this report may be used to support the application for a 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 authorizing the injury or destruction of a tree in accordance with the By-law.**

The development proposed for this property includes the construction of a multi-unit commercial building with an adjacent laneway and surface parking. No trees greater than 10cm diameter were found fully on the subject property. However, several trees shared with adjacent private property will be lost because of conflicts with proposed grading. **Permission from adjacent landowners is required prior to the removal of any trees shared with or fully on adjacent private property.**



## TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 below details the species, ownership, size (diameter), condition and status of the individual and groups of trees on the subject and adjacent properties. Each of these trees is referenced by the numbers plotted on the tree conservation plans which accompany this report.

Table 1. Species, ownership, diameter, condition and status of trees at 5254 Bank Street

Tree No.	Tree species	Ownership <sup>1</sup>	DBH <sup>2</sup> (cm)	Tree Condition; Age Class; Condition Notes; Species Origin & <b>Preservation Status</b> (to be removed or preserved and protected)
1	Crab apple ( <i>Malus</i> spp.)	Shared	26	Fair; mature; central stem with competing laterals starting at 0.5m; broad, very dense crown; cultivar; <b>to be removed</b> (conflicts with proposed grading)
2	Norway maple ( <i>Acer platanoides</i> )	Shared	20	Good; maturing; central stem with competing laterals at 3m on west and 5m on southwest; dense crown; introduced invasive species; <b>to be removed</b> (conflicts with proposed grading)
3	Manitoba maple ( <i>Acer negundo</i> )	Neighbour	52 & 30	Fair; mature; double stemmed at grade; dominant stem upright but asymmetric towards south with divergent competing lateral on north; naturalized species; <b>to be preserved and protected</b>
4	Butternut ( <i>Juglans cinerea</i> )	Neighbour	58 & 47	Fair; very mature; double-stemmed at 0.6m; very broad crown; native (endangered) species; <b>to be preserved and protected</b> (butternut health assessment to be completed in spring 2024)
5	White cedar ( <i>Thuja occidentalis</i> )	Shared		Poor; mature; multi-stemmed from 1.75m – topped in distant past; covered with heavy vine growth; native species; <b>to be removed</b> (conflicts with proposed grading)
6	Bitternut hickory ( <i>Carya cordiformis</i> )	Neighbour	31 & 27	Fair; mature; co-dominant stems at 0.3m; covered with heavy vine growth; native species; <b>to be preserved and protected</b>
7	Ash ( <i>Fraxinus</i> spp.)	Neighbour	18	Dead due to emerald ash borer ( <i>Agilus planipennis</i> ); native species; <b>to be preserved</b> (though recommended for removal due to safety considerations)
8	White cedar ( <i>Thuja occidentalis</i> )/ Poplar ( <i>Populus</i> spp.)	Neighbour	30 avg.	Fair; mature; cedar/poplar thicket; native species; <b>to be preserved and protected</b> (though some trees may be terminally impacted by proposed nearby retaining wall and so may need to be removed for safety considerations)

Table 1. Con't

Tree No.	Tree species	Owner-ship <sup>1</sup>	DBH <sup>2</sup> (cm)	Tree Condition; Age Class; Condition Notes; Species Origin & <b>Preservation Status</b> (to be removed or preserved and protected)
9	Red maple ( <i>Acer rubrum</i> )	City	39 & 59	Good; very mature; co-dominant stems 0.2m; dominant stem with competing lateral on south; broad, dense generally symmetric crown; native species; <b>to be preserved and protected</b>
10	'Emerald' cedar ( <i>Thuja occidentalis</i> 'Smaragd')	City	13 avg.	Fair; mature; fair crown density, growth increment and needle colour; cultivar; <b>to be removed</b> (blocking visibility from road)

<sup>1</sup>As determine from topographic survey prepared by Farley, Smith & Denis Surveying Ltd.; <sup>2</sup> Diameter at breast height, or 1.3m from grade (unless otherwise indicated)

Pictures 1 through 5 on pages 6 to 9 of this report show selected trees and stands shared with and adjacent to the subject property. All pictures were taken in October 2022.

### FEDERAL AND PROVINCIAL REGULATIONS

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

- 1) Endangered Species Act (2007): A mature butternut (*Juglans cinerea*) tree was identified on adjacent private property. This species of tree is listed as threatened under the Province of Ontario's Endangered Species Act (ESA, 2007) and so is protected from harm. This tree will be assessed following ESA protocol in spring 2024.
- 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 MEASURES

As excavation occurs within the CRZs of tree #6 and those within stand #8, the following measures will be taken:

1. Hydro excavation along the edge of excavation in proximity to the tree(s) to carefully expose roots. Exposed roots will then be cleanly cut and sealed before being reburied. Excavation can then resume using traditional mechanical means. Sealing the cleanly cut root ends with a beeswax product will help prevent the loss of moisture and facilitate healing.
2. If the excavation is to be left open for any time a covering of at least three layers of moistened burlap is to be draped over the exposed face of excavation closet to the tree. This will help reduce the loss of soil moisture.



## TREE PROTECTION MEASURES

Protection measures intended to mitigate damage during construction will be applied for the trees to be retained. 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 specifications (included on page 5), 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.

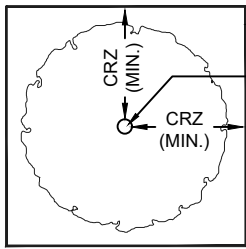
Please do not hesitate to contact me with any questions concerning this report.

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

Yours,



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



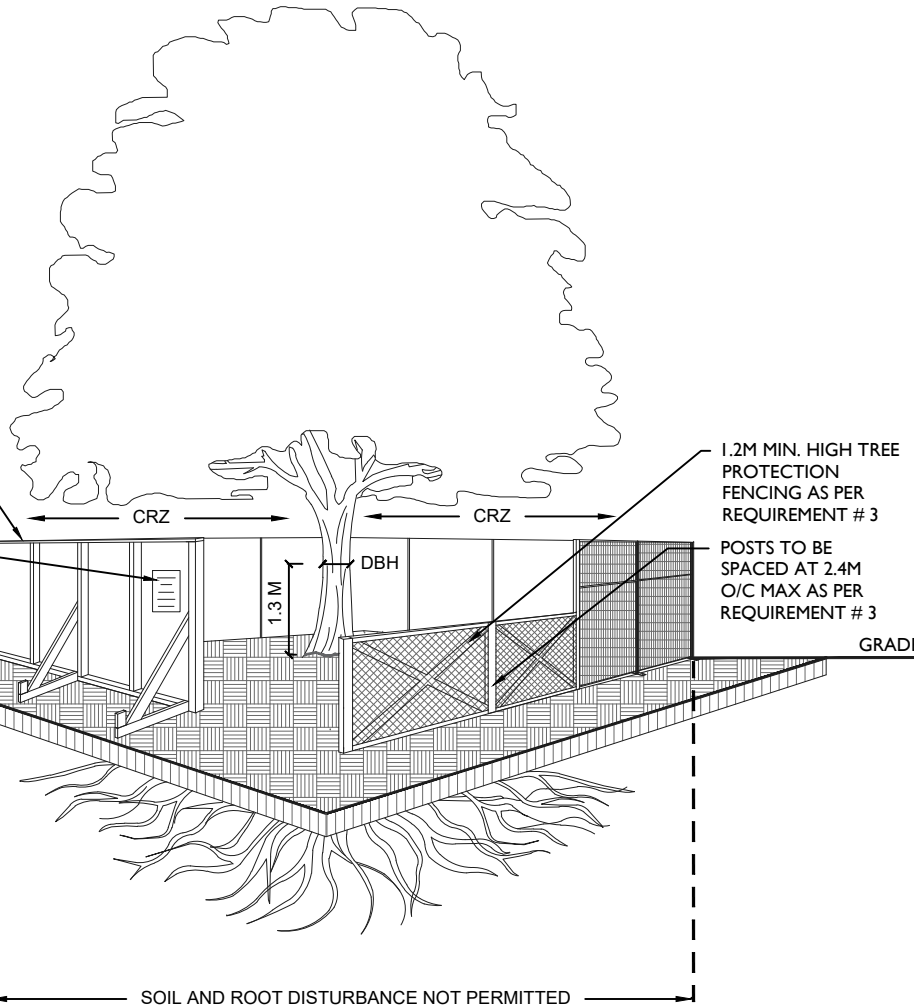
PLAN VIEW

TREE PROTECTION FENCING  
TREE TRUNK

CRZ = DBH X 10CM.  
CRZ IS TO BE MEASURED FROM THE OUTSIDE EDGE OF THE TREE BASE

TREE PROTECTION SIGNAGE AS PER CITY STANDARD

GRADE



1.2M MIN. HIGH TREE PROTECTION FENCING AS PER REQUIREMENT # 3

POSTS TO BE SPACED AT 2.4M O/C MAX AS PER REQUIREMENT # 3

SOIL AND ROOT DISTURBANCE NOT PERMITTED

**TREE PROTECTION REQUIREMENTS:**

1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
  - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
  - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
  - DO NOT RAISE OR LOWER THE EXISTING GRADE;
  - TUNNEL OR BORE WHEN DIGGING;
  - DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
  - ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
  - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE ( E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-340 PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO [WWW.OTTAWA.CA/TREEBYLAW](http://WWW.OTTAWA.CA/TREEBYLAW) FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

ACCESSIBLE FORMATS AND COMMUNICATION SUPPORTS ARE AVAILABLE, UPON REQUEST



**TREE PROTECTION SPECIFICATION**

TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.

SCALE: NTS

DATE: MARCH 2021

DRAWING NO.: 1 of 1



Picture 1. Trees #1 and 2 (right to left), shared crab apple and Norway maple located at 5254 Bank Street



Picture 2. Tree #3, Manitoba maple adjacent to 5254 Bank Street



Picture 3. Crown of butternut tree #4 adjacent to 5254 Bank Street



Picture 4. Stand #8, poplar and cedar trees adjacent to 5254 Bank Street





Picture 5. Tree #9 and 10 (right to left), maple and emerald cedar trees on City of Ottawa property adjacent to 5254 Bank Street

# 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.

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.

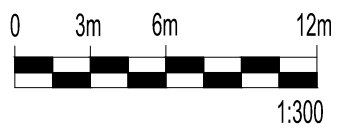
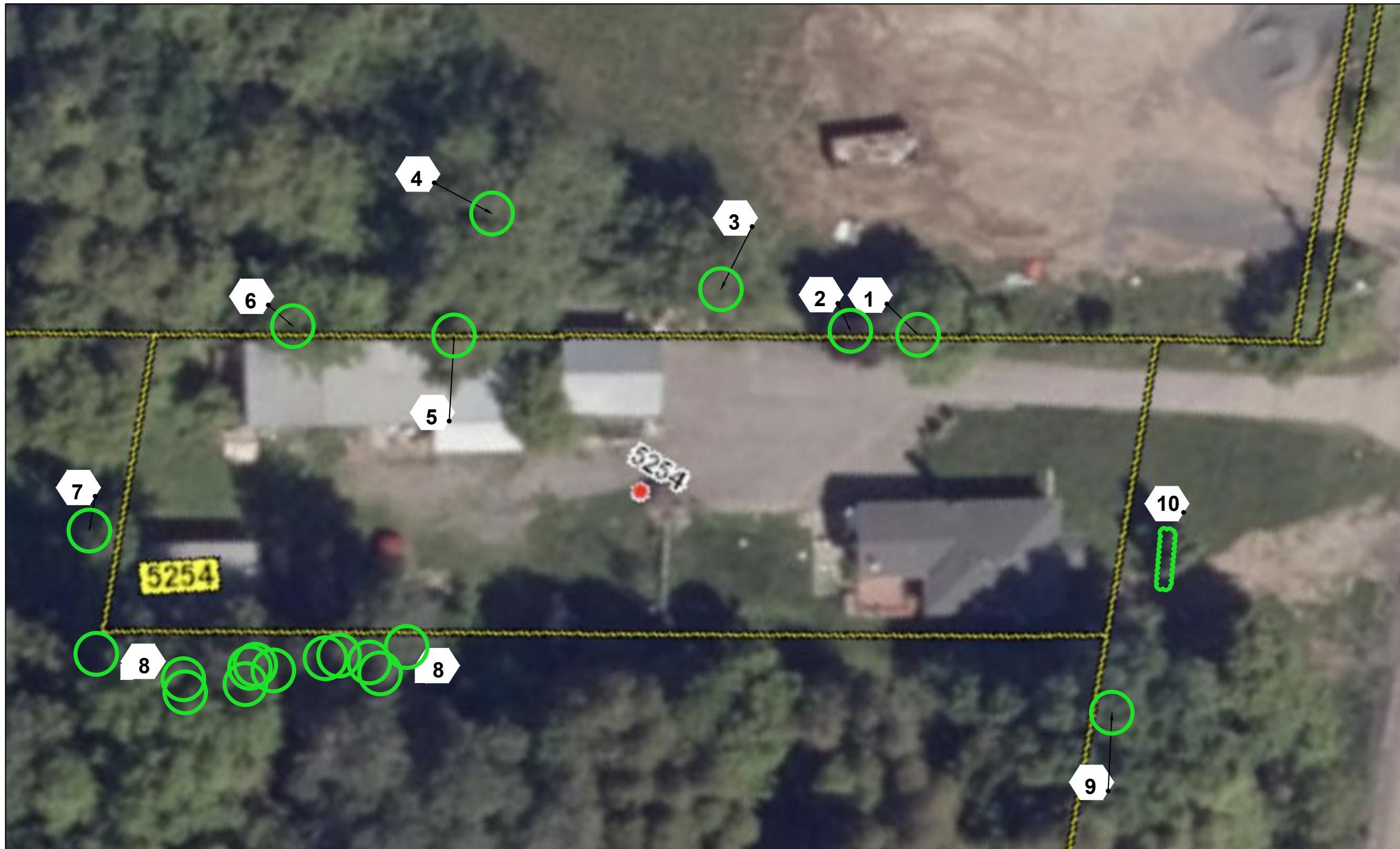
#### INDEMNIFICATION

An applicant for a permit or other approval based on this report shall agree to indemnify and save harmless *IFS Associates Inc.* from any and all claims, demands, causes of action, losses, costs or damages that affected private landowners and/or the City of Ottawa may suffer, incur or be liable for resulting from the issuance of a permit or approval based on this report or from the performance or non-performance of the applicant, whether with or without negligence on the part of the applicant, or the applicant's employees, directors, contractors and agents.

Further, under no circumstances may any claims be initiated or commenced by the applicant 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.

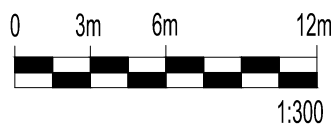
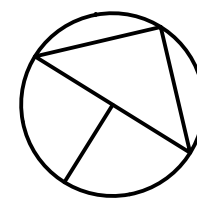
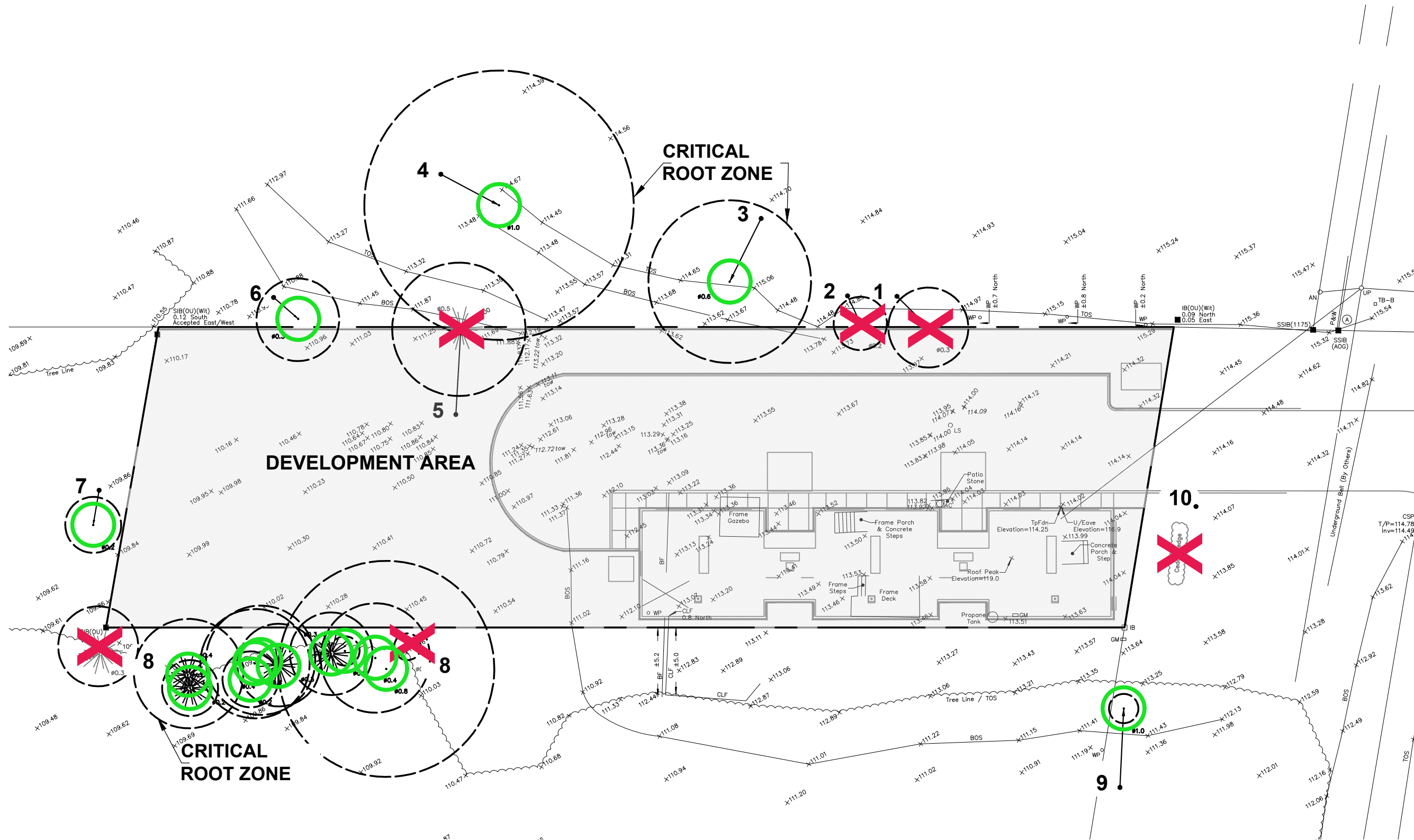
#### ONGOING SERVICES

*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.



**REFER TO CHART FOR TREE ID,  
CONDITION, ACTION**

stamp	project		drawing			
	<b>SERVICE REPAIR FACILITY</b> <b>5254 Bank Street, Ottawa ON</b>		<b>AERIAL SHOWING EXISTING CONDITIONS</b>			
			scale	date	project no.	dwg. no.
	<small>200-1750 Courtwood Crescent, Ottawa, Ontario K2C 2B5 P (613) 224-4744 x 222 F (613) 224-1931 info@rala.ca www.rala.ca</small>		1:300	Dec. 2022	22-1693	
			drawn by	checked by	revision no.	MAP
			M.Malkov	M.Ruhland	Apr. 04 2024	



**REFER TO CHART FOR TREE ID,  
CONDITION, ACTION**

stamp	project			drawing			
	<p align="center"><b>SERVICE REPAIR FACILITY</b> <b>5254 Bank Street, Ottawa ON</b></p>			<p align="center"><b>MAP # 1 - CURRENT VEGETATION</b></p>			
	<p align="center">Ruhland &amp; Associates Ltd <small>200-1750 Courtwood Crescent, Ottawa, Ontario K2C 2B5 P (613) 224-4744 x 222 F (613) 224-1931 info@ral.ca www.ral.ca</small></p>			scale	date	project no.	dwg. no.
	1:300	Dec. 2022		22-1693	MAP		
	drawn by	checked by	revision no.				
	M.Malkov	M.Ruhland	Mar. 2024				