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Urban Forestry & Forest Management Consulting

December 5, 2017

10311197 Canada Inc.  
c/o: Chenier Development Corp  
14 Third Street East  
Cornwall, ON  
K6H 2C7

**RE: TREE CONSERVATION REPORT – 541-545 RIDEAU STREET, OTTAWA**

This report details a pre-construction Tree Conservation Report (TCR) for the above-noted property in Ottawa. This TCR has been compiled in accordance with section 4.7 of the City of Ottawa Official Plan, 2007.

The need for this TCR is related to the re-development of the subject property. Such reports are required for site plan control applications where a tree of 10 centimetres in diameter or greater is present on the property. The approval of this TCR by the City of Ottawa and the issuing of a permit by them authorizes the removal of approved trees. No tree removal should occur before such a permit is issued.

The inventory in this report details the assessment of all individual trees on the subject property. The construction proposed for the site includes the demolition of an existing 2-storey building and construction of a multi-storey mixed use building with below ground parking. Construction of the proposed building will require all of the existing trees to be removed. These include the trees fully on the subject property and shared trees along property lines. Permission from neighbouring property owners will be required for the removal of shared trees. Four trees are present City of Ottawa property. Each of these trees will be preserved and protected during construction.

**TREE SPECIES, CONDITION, SIZE AND STATUS**

On the Table 1 on page 2 details the species, condition, size (diameter) and status of the individual trees on and adjacent to the subject property. Each of these trees is referenced by the numbers plotted on the accompanying tree conservation plan prepared Gino J. Aiello, Landscape Architect.



Table 1. Species, condition, diameter and status of trees at 541-545 Rideau Street.

Tree No.	Tree Species	Condition (VP→E)	DBH <sup>1</sup> (cm)	Tree Condition Notes & <b>Preservation Status</b> (to be removed or retained)
1	Manitoba maple ( <i>Acer negundo</i> ) and white elm ( <i>Ulmus americana</i> )	Fair	10-33cm	Line of shared trees - 11 maples and 2 elms; all originated from seed; one elm topped at 4m, other very asymmetrical towards southeast – no outward signs of Dutch elm disease ( <i>Ophiostoma novo-ulmi</i> ) in either tree; maples mostly divergent towards south due to intolerance to shade; <b>to be removed with neighbour's permission</b>
2	Manitoba maple and white elm	Poor	10-23cm	Line of privately owned trees – 4 maple and 1 elm; all originated from seed; elm dead, maples all divergent towards south due to intolerance to shade; <b>to be removed</b>
3	Manitoba maple	Fair	55	Mature; shared tree; single stemmed for most of height; presently damaging nearby building; undesirable, naturalized species; <b>to be removed with neighbour's permission</b>
4	Manitoba maple	Very poor	47	Mature; privately owned; presently hazardous – cavity with decay in upper stem; undesirable, naturalized species; <b>to be removed with neighbour's permission</b>
5	Manitoba maple and buckthorn ( <i>Rhamnus</i> spp.)	Fair	<10	Line of shared trees – maple originating from coppice growth, buckthorn from seed; both introduced, undesirable species; <b>to be removed with City of Ottawa permission</b>
6	Manitoba maple	Very poor	130	Over mature; privately owned; in advanced decline; presently hazardous - major deadwood in upper crown; undesirable, naturalized species; <b>to be removed</b>
7	Bur oak ( <i>Quercus macrocarpa</i> )	Fair	6	Juvenile; city owned; planted; scattered dead branches throughout crown – including apex; <b>to be preserved and protected</b>
8	Bur oak	Fair	7	Juvenile; city owned; planted; scattered dead branches throughout crown – including apex; <b>to be preserved and protected</b>
9	Black locust ( <i>Robinia pseudoacacia</i> )	Fair	21-34cm	Grouping of 5 maturing trees; privately owned; 2 single trees and 1 tri-stemmed from grade; likely originated from root sprouts; undesirable, naturalized species; <b>to be removed</b>

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10	Norway maple ( <i>Acer platanoides</i> )	Good	14	Maturing; privately owned; planted; co-dominant stems at 2m; plow damage on south side of main stem-healing; undesirable, invasive species; <b>to be removed</b>
11	Norway maple	Poor	11	Maturing; privately owned; planted; Eutypella canker ( <i>Eutypella parasitica</i> ) at grade to 0.7m on east side of main stem; crown thin and foliage mildly chlorotic; will become hazardous; undesirable, invasive species; <b>to be removed</b>
12	Black locust	Good	27	Maturing; privately owned; single-stemmed from grade; presently damaging nearby building; likely originated from root sprouts; undesirable, naturalized species; <b>to be removed</b>

<sup>1</sup>Diameter at breast height, or 1.4m from grade (unless otherwise noted).

Pictures 1 through 6 on pages 4 through 9 of this report show selected trees on and adjacent to the subject property.

### **ENDANGERED SPECIES**

No endangered tree species, namely butternut (*Juglans cinerea*) were found on or in the vicinity of the subject property.

### **TREE PRESERVATION AND PROTECTION MEASURES**

Preservation and protection measures intended to mitigate damage during construction will be applied to the city owned trees to be retained adjacent to the subject property. The following measures are recommended to ensure tree survival during and following construction:

1. Erect a fence (snow or metal) as close as possible to the critical root zone (CRZ<sup>1</sup>) of trees;
2. Attach signs to the fence indicating the area within is a protected space (do not attach any signs, notices or posters to any tree);
3. Do not place any material or equipment within the CRZ of trees;
4. When possible do not raise or lower the existing grade within the CRZ;
5. Tunnel or bore instead of digging or trenching within the CRZ of trees;
6. Do not damage the root system, trunk or branches of any tree – if damage does occur cut the wound cleanly and, especially in the case of roots, seal the wound with beeswax;
7. Ensure that exhaust fumes from all equipment are not directed towards any tree's crown.

<sup>1</sup> The critical root zone (CRZ) is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk diameter at breast height (DBH). The CRZ is calculated as DBH x 10 cm.

Please do not hesitate to contact me with any questions concerning this Tree Conservation Report.

Yours,

*Andrew Boyd*

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Certified Arborist #ON-0496A and TRAQualified  
Consulting Urban Forester



Picture 1. Trees present within grouping #1 at 541-545 Rideau Street, Ottawa





Picture 2. Trees present within grouping #2 at 541-545 Rideau Street, Ottawa (note divergent growth forms).





Picture 3. Dead elm within grouping #2 at 541-545 Rideau Street, Ottawa





Picture 4. Manitoba maple #6 at 541-545 Rideau Street, Ottawa (note dieback in upper crown).





Picture 5. Black locust trees within grouping #9 at 541-545 Rideau Street, Ottawa





Picture 6. Black locust tree #12 at 541-545 Rideau Street, Ottawa