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Urban Forestry & Forest Management Consulting

January 24, 2013

Robert McKinney
Project Coordinator
Broccolini Construction
130 Slater Street, Suite 1300
Ottawa, ON
K1P 6E2

Re: Tree Conservation Report – 120 Hearst Way, Kanata

Dear Robert,

This report details a pre-construction Tree Conservation Report (TCR) for the above-noted property in the west end of Ottawa. The need for this TCR is related to the future re-development of the site. The tree inventory in this report details the assessment of both individual and groupings of trees impacted by the proposed construction. Importantly, no endangered or other significant tree species were found on the site.

Presently the northern half of the property is dominated by herbaceous vegetation while approximately half of the southern portion is occupied by larger single trees and groupings of juvenile trees. The shade cast by these trees has lessened the dominance of herbaceous vegetation in this area. All of the vegetation now present appears to have originated from seed, with no planted trees being obvious.

All existing trees will need to be removed due to the proposed construction of a building and surrounding parking spaces and entrance ways off Hearst Way. Trees located on adjacent properties can be retained as they are out of the way of construction. None of the trees are possible candidates for transplanting as the ash are all prone to Emerald ash borer (*Agrilus planipennis*) - EAB while the elm are prone to Dutch elm disease (*Ophiostoma ulmi*) - DED. There is evidence that both EAB and DED are now present on the property. I have assumed all readers of this report are familiar with the general layout of the property and of the construction proposed for the site.



TREE SPECIES, SIZE, CONDITION AND STATUS

Table 1 below details the species, size, condition and status of each impacted tree:

| Tree No. | Tree Species | Condition (VP→E) | D.B.H (cm) | Tree Condition Notes & Status (to be removed, or retained) |
|----------|---|------------------|--------------|--|
| 1 | Ash (<i>Fraxinus</i> spp.) | Good | 10 | Juvenile tree; native species; prone to EAB; to be removed |
| 2 | Ash | Good | 19 | Maturing tree; native species; prone to EAB; to be removed |
| 3 | Ash | Good | 13 | Maturing tree; native species; prone to EAB; to be removed |
| 4 | Ash | Good | 5 | Juvenile tree; native species; prone to EAB; to be removed |
| 5 | Ash | Good | 5 | Juvenile tree; native species; prone to EAB; to be removed |
| 6 | Manitoba maple (<i>Acer negundo</i>) | Poor | 12 (avg.) | Maturing tree; five-stemmed from grade; naturalized, invasive species; to be removed (nearby elm dead due to DED) |
| 7 | Ash | Fair | 10 (avg.) | Maturing tree; tri-stemmed from grade; native species; prone to EAB; to be removed |
| 8 | Ash | Fair | 12 (avg.) | Maturing tree; tri-stemmed from 0.25m; native species; prone to EAB; to be removed |
| 9 | Ash | Good | 5 | Juvenile tree; native species; prone to EAB; to be removed |
| 10 | Ash | Poor | 40 | Mature tree; native species; signs of early EAB infestation; to be removed |
| 11 | Ash | Good | 27 | Maturing tree; native species; prone to EAB; to be removed |
| 12 | Ash | Poor | 38 | Mature tree; native species; signs of early EAB infestation; to be removed (2 nearby White elms (<i>Ulmus americana</i>) – 20 and 19cm DBH; both in good condition but prone to DED; to be removed) |
| 13 | Ash | Good | 27 | Maturing tree; native species; prone to EAB; to be removed |
| 14 | Elm | Good | 48 | Mature tree; native species; prone to DED; to be removed |
| 15 | Ash | Fair | 25 (avg.) | Maturing tree; tri-stemmed from 0.25m; native species; prone to EAB; to be removed |
| 16 | Ash | Good | 10 (avg.) | Grouping of juvenile to maturing trees; all prone to EAB; to be removed |

Table 1. Continued

| Tree No. | Tree Species | Condition (VP→E) | D.B.H (cm) | Tree Condition Notes & Status (to be removed, or retained) |
|----------|--------------|------------------|--------------------|--|
| 17 | Elm | Good | 42 | Mature tree; native species; prone to DED; to be removed (nearby, 7-stemmed ash- avg. 14cm DBH.; fair condition; prone to EAB; to be removed) |
| 18 | Elm | Good | 20 | Maturing tree; native species; prone to DED; to be removed |
| 19 | Ash | Fair | 20 (avg.) | Maturing tree; tri-stemmed from 0.25m; native species; prone to EAB; to be removed |
| 20 | Ash | Poor | 16, 20 & 30 (avg.) | Grouping of 3 maturing trees; all on neighbouring property; signs of early EAB infestation; to be retained |

Pictures 1 through 3 on pages 4 and 5 show selected trees on the property.

TREE PRESERVATION AND PROTECTION MEASURES

Preservation and protection measures intended to mitigate damage during construction will be applied to the trees on neighbouring property. The following measures are required by the City of Ottawa to ensure tree survival during construction:

1. Erect a fence at the critical root zone (CRZ¹) of trees;
2. Do not place any material or equipment within the CRZ of the tree;
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 when digging within the CRZ of a 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 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 if you have any questions concerning this Tree Conservation Report.

Yours,

Andrew Boyd

Andrew K. Boyd, B.Sc.F., R.P.F.
Consulting Urban Forester



Picture 1. Mature and maturing ash and elm trees at 120 Hearst Way, Kanata.



Picture 2. Grouping of juvenile/maturing ash trees at 120 Hearst Way, Kanata.



Picture 3. Mature and maturing ash and elm trees at 120 Hearst Way, Kanata.