

ARBORIST REPORT
Project: 2020-13

Proposed Residential Development
Part of Lot 13 Concession 3
Beasley's Lower Block and Block 70
355 Guelph Ave
Cambridge, ON N3C 2V3

September 14, 2020

By:

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On behalf of:

Urbe Developments Inc.
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- Tree Inventory List & Details L2
- City of Cambridge Private Tree Estimate of Value

1. Introduction

MacKinnon & Associates was retained by Urbe Developments Inc. to provide tree management services in support of the proposed development at 355 Guelph Ave. in Cambridge, ON.

A Tree Management Plan (TMP) and Arborist Report detailing the existing conditions, protection and removals of trees are required by the City of Cambridge. The tree inventory and assessment was conducted by Catherine Hodgins, ISA Certified Arborist, on March 19, 2020.

The topographic sketch for this development, prepared by MacDonald Tamblyn Lord Surveying, is used as the base information for the Tree Management Plan (See Appendix). Surveyed tree locations were provided with additional trees identified and approximately located during the site visit on March 19, 2020 and using the Region of Waterloo's aerial photography.

2. Tree Inventory Categories

Each tree was assigned a number located on the TMP and data in the following categories were recorded for each:

- Species (botanical name)
- Diameter at Breast Height (DBH in cm)
- Canopy Diameter (drip line in m)
- Biological Health Rating (Condition)
- Results of Assessment (Preserve or Remove)
- Additional Notes

All trees within 6m of the subject site on adjacent properties were also inventoried and tagged where possible.

3. Tree Inventory Data Summary and Analysis

A total of 30 trees were inventoried in this report. Specific data as noted was recorded for individual specimens and locations with identification numbers are shown on the Tree Management Plan L1 (See Appendix).

A majority of the trees on and off site are native cultural landscape plantings comprised of:

- Sugar Maple (*Acer sacharrum*),
- White Spruce (*Picea glauca*),
- Silver Maple (*Acer saccharinum*)

Also present, though in smaller quantities, is an opportunistic species:

- Norway Maple (*Acer platanoides*)

The remaining species composition includes:

- Little Leaf Linden (*Tilia cordata*),
- Honey Locust (*Gleditsia triacanthos*),

Generally, trees on site are mature and on the whole their condition can be categorized as 'Good'.

4. Recommendations

The proposed site plan provided by Urbe Developments Inc., and the associated Site Grading and Servicing Plans prepared by GM BluePlan Engineering propose development and grading disturbance over a majority of the site, offering limited opportunity for tree preservation.

Trees are recommended for protection where:

1. Volume of post-development undisturbed root zone is judged to be sufficient to sustain the tree in good health;
2. Existing health is strong enough to warrant the preservation attempt;
3. The tree poses no liability risk (failure, falling limbs etc.) to person or property; and
4. Tree species is suitable for the location in relation to the proposed development.

Accordingly, given the intensity of development proposed on site, it is our recommendation that 21 of the trees on site or in the right of way will need to be removed due to the impacts of the proposed development and grading.

Trees in the right of way are only to be removed with the permission of the City of Cambridge.

9 trees on the subject site, adjacent property and in the right of way are recommended for preservation. Tree protection fencing is recommended to be installed in the locations shown with minimum tree protection zone provided where possible, and will conform to the detail as shown on the TMP. The fence will remain in place undisturbed until construction has been completed.

5. Conclusion

Based on the proposed site plan, it is our opinion due to the anticipated impacts of the proposed development and the current health, structural conditions and/or species of trees, 21 trees on the subject property and in the right of way cannot be preserved.

Removals of trees in the right of way require permission from the City of Cambridge.

As long as the tree protection fencing is installed and maintained for the duration of construction activities as per the Tree Management Plan, it is our opinion the 9 trees proposed for preservation on the subject site, on the adjacent property and in the right of way will be appropriately protected.

Report Prepared By:

MacKinnon & Associates



Catherine Hodgins, B.A.A.,
ISA Certified Arborist #ON-2258A

Appendix A – Limits of Assessment

The following discussion is provided to ensure interested parties are clearly aware of the technical and professional limitations on recommendations for the retention of existing trees.

- 1) The assessment of the trees presented in this report has been made using accepted arboricultural techniques based on visual examination of the tree, structure, location and proximity to people, to the extent possible at the time of year the inspection was conducted. Except where specifically noted in the report, assessment was based on visual inspection only.
- 2) Trees are living organisms, and their health and vigour constantly change over time. Decline in health can be attributed to many causes, including changes in site conditions, seasonal variations in weather conditions, insects, disease or other environmental impacts. Accordingly, the assessment presented in this report is valid only for the time of inspection. Periodic re-assessment of trees to be impacted is recommended to ensure validity of the conclusions presented.
- 3) While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered or implied that these trees will maintain health or structure over time. It is both professionally and practically impossible to predict absolutely the performance of any tree, or group of trees, or their component parts over time. An existing tree will always pose some risk or potential for failure in the event of adverse environmental conditions, and this risk can only be eliminated if the tree is removed.

Appendix B

Figures

Tree Management Plan L1

Tree Inventory & Details L2

City of Cambridge Private Tree Estimate of Value