ATTACHMENT 8



KITCHENER WOODBRIDGE LONDON KINGSTON BARRIE BURLINGTON

August 28, 2019 [Revised February 06, 2020]

ARBORIST REPORT 645 Nashville Road, Kleinburg, ON.

BACKGROUND

MHBC was retained to conduct an inventory of the existing trees within the boundaries of the property known as 645 Nashville Road as they pertain to the City of Vaughan's Tree By-laws. Field work was completed on August 12, 2019 and February 03, 2020 and this report relates to the condition of the trees as observed on these dates.

PROCEDURE

The on-site inventory of existing trees was carried out using the current survey of the property and relies on the accuracy of this survey. The inventory includes all trees within the site boundary, all trees within 6.0 metres of the site boundary and all City owned trees along the adjacent boulevards.

This inventory is summarized graphically in the Tree Inventory Plan, which shall always be read in conjunction with this report and shall form part of this report. For the purposes of this report, trees and groupings of trees are identified in terms of species, size, condition, and recommendations.

The following rating system was used in describing the general condition of the trees inventoried:

Good: Indicates a condition of vigor and no major concerns.

Fair: Indicates an adequate tree, which may have some minor issues.

Poor: Indicates declining health, bad form, or other more serious issues.

Dead: Indicates a dead tree that should be removed.

ASSUMPTIONS AND LIMITING CONDITIONS

- Care has been taken to obtain all information from reliable sources. All data has been
 verified insofar as possible and is assumed to be correct; however MHBC can neither
 guarantee nor be responsible for the accuracy of information provided by others.
- It is assumed that the properties are not in violation of any applicable codes, ordinances, statutes, or other governmental regulations.
- Unless otherwise required by law, possession of this report or a copy thereof does not imply
 right of publication or use for any purpose in whole or in part by any other than the person
 or company by whom it was commissioned.
- The use of excerpts from this report or alterations to this report, without the authorization of MHBC Planning will invalidate the entire report. This report may not be used for any purpose other than its intended purpose as outlined.

Unless expressed otherwise: 1) information contained in this report covers only those items
that were examined and reflect the condition of those items at the time of inspection; and 2)
the inspection is limited to visual examination or accessible items without dissection,
excavation, probing, or coring. There is no warranty or guarantee, expressed or implied,
that problems or deficiencies in the plants inventoried may not arise in the future.

• The determination of ownership of any subject tree(s) is the responsibility of the owner and any civil or common-law issues, which may exist between property owners with respect to trees, must be resolved by the owner. The recommendation to remove or maintain any tree(s) does not grant authority to encroach in any manner onto adjacent private properties.

SUMMARY OF TREES INVENTORIED

The following table summarizes the on-site trees. The trees shown with a tone are recommended for removal due to conflicts with the proposed construction.

Tre e #	Common Name	Botanical Name	DB H (CM	Conditio n	Comments	Recommendati on
1	Norway Maple	Acer platanoides	40	F		Retain
2	Sugar Maple	Acer saccharum	77	F		Retain
3	Norway Maple	Acer platanoides	33	F	Moderate lean	Remove
4	Manitoba Maple	Acer negundo	39	F	Poor form, unbalanced crown	Retain
5	White Pine	Pinus strobus	75	F	Signs of fruiting bodies on trunk	Retain
6	Sugar Maple	Acer saccharum	60	F/P		Retain
7	Norway Spruce	Picea abies	73	F		Remove
8	Juniper Sp.	Juniperus sp.	~20	F/P		Remove
9	Juniper Sp.	Juniperus sp.	~20	F/P		Remove
10	Juniper Sp.	Juniperus sp.	~24	F/P		Remove
11	Juniper Sp.	Juniperus sp.	~20	F/P		Remove
12	Spruce Sp.	Picea Sp.	~35	F	Tree has developed a moderate to significant lean	Retain

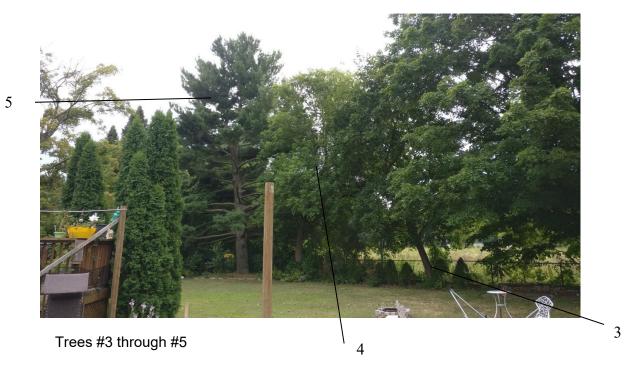
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PHOTO RECORD















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Trees #8 through #11



Tree #12

TREE PROTECTION RECOMMENDATIONS

The following standards shall apply to any trees that are identified to be retained. Where the municipality enforces its own standards, those of the governing municipality shall supersede the recommendations contained herein. In all other instances, the following recommendations shall be treated as minimum standards for tree protection and retention.

1.0 ESTABLISH A TREE PROTECTION ZONE

The purpose of the tree protection zone is to prevent root damage, soil compaction and soil contamination during construction activities. Workers and machinery shall not disturb the tree protection zone in any way. In order to prevent access, the following recommendations are offered.

- Install tree protection hoarding as per Village of Kleinburg detail 2/TI-1.
- Allow no fill, equipment, supplies, or waste within the tree protection zone.
- Maintain the tree protection hoarding in good condition for the duration of construction.
- Tree protection hoarding is not to be removed until all construction activities have been completed.

2.0 ROOT PRUNING

Where possible, hand dig areas closest to each tree to prevent any unnecessary tearing or pulling of roots. Removal of roots that are greater than 2.5 centimeters in diameter or roots that are injured or diseased should be performed as follows:

- Preserve the root bark ridge (similar in structure to the branch bark ridge). Directional Root
 Pruning (DRP) is the recommended technique and should be employed during hand
 excavation around tree roots. Roots are similar to branches in their response to pruning
 practices. With DRP, objectionable and severely injured roots are properly cut to a lateral
 root that is growing downward or in a favorable direction.
- All roots needing to be pruned or removed shall be cut cleanly with sharp hand tools, by a Certified Arborist.
- No wound dressings or pruning paint shall be used to cover the ends of each cut.
- All roots requiring pruning shall be cut using any of the following tools:
 Large or small loppers, Hand pruners, Small hand saws, Wound scribers
- Avoid prolonged exposure of tree roots during construction keep exposed roots moist and dampened with mulching materials, irrigation or wrap in burlap if exposed for longer than 4 hours.

3.0 FERTILIZATION AND IRRIGATION

The following measures are recommended:

- Aeration and deep root fertilize to ensure that all trees receive the appropriate nutrients for healthy growth.
- Fertilizer must be a low nitrogen formula such as *5-30-30* to promote root growth rather than shoot growth.
- If construction occurs during July and / or August, roots must be irrigated during conditions of drought.

4.0 ESTABLISH MAINTENANCE PROGRAM

Pre-Construction:

Prune all trees to remove any deadwood and obstruction prune as required.

During Construction:

- Irrigate tree preservation zones during drought conditions (June through September), in an attempt to reduce the effects of drought stress.
- Inspect the site every month to ensure that all tree protection fence / hoarding is in place and in good condition, inspect the trees to monitor condition.

Post-Construction:

- Prune crowns to remove any newly developed deadwood only. Do not remove any live growth.
- Inspect the trees three times per year (May, July, and September) to monitor condition for a minimum period of 2 additional years.

5.0 LANDSCAPING

Any landscaping completed within the tree preservation zones, after construction is completed and tree protection fencing / hoarding has been removed, is to be carried out in such a way that it will not cause damage to any of the trees or their roots. The trees must be protected to the same standards listed earlier in this report, but without the use of tree protection fence or hoarding.

The following guidelines are recommended:

- No grade changes are permitted which include adding and/or removing soil.
- No excavation is permitted that can cause damage to the roots of the tree.
- No heavy equipment can be used to compact the soil within the tree preservation zone.
- Where possible, hard surface paving around trees to be protected should be constructed using permeable products such as interlocking stone. Areas to be paved must be hand dug when encroaching within the tree protection zone.

CONCLUSIONS

Based on our investigations, trees 3 and 7–11 should be removed due to conflicts with the proposed development. The remaining trees can be successfully retained by following the recommendations stated herein. For trees to be retained, the City of Vaughan's guidelines and recommendations provided herein shall be followed. All trees requested for removal that fall within the realm of the City of Vaughan's tree by-laws are subject to permit approval for their injury or removal, and as such, the appropriate permits shall be in place prior to the commencement of any construction activities.

Kindly direct any questions regarding this report to the undersigned.

Respectfully submitted,

MHBC Planning, Urban Design & Landscape Architecture

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