Tree Inventory and Preservation Plan Report
Lakeshore Road West (Mississauga Road to Birch Hill Lane)
Oakville, Ontario

prepared for

The Town of Oakville Transportation and Engineering 1225 Trafalgar Road Oakville, ON L6H 0H3



25 May 2021

## Table of Contents

1.0 INTRODUCTION ..... 2
2.0 METHODOLOGY ..... 2
2.1 TREE INVENTORY AND PRESERVATION PLAN ..... 2
2.2 TREE VALUATION ..... 2
2.3 HAZARD TREE ASSESSMENT ..... 3
3.0 EXISTING SITE CONDITIONS ..... 4
4.0 INDIVIDUAL TREE RESOURCES ..... 4
5.0 PROPOSED WORKS ..... 4
6.0 DISCUSSION ..... 4
6.1 DEVELOPMENT IMPACTS / TREE REMOVALS ..... 5
6.2 HAZARD TREE ASSESSMENT (TREE REMOVALS) ..... 5
6.3 TREE PRESERVATION ..... 5
6.4 TREE VALUATION (PRESERVED TREES) ..... 7
7.0 SUMMARY AND RECOMMENDATIONS ..... 7
8.0 REFERENCES ..... 8

### 1.0 Introduction

Kuntz Forestry Consulting Inc. was retained by the Town of Oakville to complete a scoped Tree Inventory and Preservation Plan in support of a proposed development application for Lakeshore Road East (from Mississauga Road to Birch Hill Lane).

The work plan for the tree preservation study included the following:

- Prepare an inventory of the tree resources specified for assessment by the Town of Oakville;
- Evaluate potential tree saving opportunities based on proposed development plans;
- Provide a tree valuation for all trees identified for preservation;
- Conduct a structural hazard assessment for trees in poor health / condition;
- Document the findings in a Tree Inventory and Preservation Plan Report.

The results of the evaluation are provided below.

### 2.0 Methodology

### 2.1 Tree Inventory and Preservation Plan

Field assessments for the tree inventory were conducted on 19 May 2021. Trees specified for assessment by the Town of Oakville were included in the inventory. Trees were located using the topographic survey provided. Trees were identified with the numbers $1-51,53-$ $73,75-92$, and $94-104$.

Tree resources included in the inventory were visually assessed for condition utilizing the following parameters:

Tree \# - number assigned to tree that corresponds to Figure 1 - Figure 7.
Species - common and botanical names provided in the inventory table.
DBH - diameter (centimetres) at breast height, measured at 1.4 metres above the ground.
Condition - condition of tree considering trunk integrity, crown structure, crown vigour, and root zone environment. Condition ratings include poor (P), fair (F), and good (G).
Drip Line - Crown radius (metres); and
Comments - additional relevant detail.

### 2.2 Tree Valuation

A tree valuation was calculated for all trees identified for preservation. The value was calculated using the Reproduction Cost Method - Trunk Formula Technique as described in the Guide for Plant Appraisal, $10^{\text {th }}$ Edition (CTLA, 2019). The Ontario Supplement (2003) provides regionally relevant data pertaining to basic costs for trees.

## Trunk Formula Technique

This method is used for trees that are larger than what is commonly available for transplant from a nursery. The Unit Tree Cost of the replacement tree is derived from a survey of nurseries or supplied by the Regional Plant Appraisal Council and published within the Ontario Supplement (2003). For Ontario, the unit tree cost has been set at $\$ 6.51 / \mathrm{cm}^{2}$ within the Supplement and this value has been used for the calculation. For trees that were small enough in size to be replaced with nursery stock, the price of the nursery stock was obtained through wholesale price quotes from multiple nurseries throughout southern Ontario.

The Basic Tree Cost is calculated by multiplying the unit tree cost by the cross-sectional area of the subject tree. For multi-stemmed trees, the appraised trunk area considers the crosssectional area of all stems. The Appraised Value is calculated by multiplying the Basic Reproduction Cost by the three depreciation factors (Condition Rating, Functional Limitation Rating, and External Limitation Rating, as described in the Guide).

The appraised value of trees is therefore calculated using the following equation:

## Basic Tree Cost $=$ Appraised Tree Trunk Area X Unit Tree Cost

## Appraised Value $=$ Basic Tree Cost $X$ Condition Rating $X$ Functional Limitation Rating $X$ External Limitation Rating

Functional Limitation Ratings and External Limitation Ratings are calculated according to the methods outlined in the guide. Condition ratings were calculated based on the assessed condition of the trees on the site and in accordance with the guide.

Only live trees were included in the tree valuation. For trees with multiple stems, the average basal area of the combined stems was used to calculate the appraisal value. For trees with appraisal values less than $\$ 744.00$ (Town of Oakville's minimum value per tree), their values were set to $\$ 744.00$.

### 2.3 Hazard Tree Assessment

A Level 2 hazard tree assessment was conducted for trees in poor health and / or condition. This assessment was conducted using the Level 2 Tree Risk Assessment Method as described in the Tree Risk Assessment Manual, $2^{\text {nd }}$ Edition (International Society of Arboriculture, 2017).

Tree resources identified for removal were assessed using the following parameters:
Tree \# - number assigned to tree that corresponds to Figure 1 - Figure 7.
Species - common and botanical names provided in the inventory table.
DBH - diameter (centimetres) at breast height, measured at 1.4 metres above the ground.
Tree Health - condition of tree considering trunk integrity, crown structure, and crown vigour.

Target Assessment - description, quantity, and occupancy rate of potential targets that could be injured or damaged due to failure of a tree and / or its parts.
Site Factors - site conditions including topography, site changes, soil condition, wind direction, and weather, which may influence the likelihood of tree failure.
Load Factors - factors such as gravity and wind exposure, which may influence the likelihood of tree failure.
Risk Categorization - the risk rating given based on the likelihood of failure, likelihood of impact, and consequences of failure. Risk ratings include low, moderate, high, and severe.

### 3.0 Existing Site Conditions

The subject area is located along Lakeshore Road West between Mississauga Road and Birch Hill Lane. There are existing pathways, sidewalks, and landscaped areas along Lakeshore Road West. Tree resources exist in the form of landscape trees and natural regeneration. Refer to Figure 1 - Figure 7 for the existing site conditions.

### 4.0 Individual Tree Resources

The tree inventory documented 101 trees within the scope of the assessment. Tree resources are composed of Manitoba Maple (Acer negundo), Norway Maple (Acer platanoides), Red Maple (Acer rubrum), Silver Maple (Acer saccharinum), Sugar Maple (Acer saccharum), Freeman Maple (Acer x freemanii), Serviceberry species (Amelanchier sp.), White Birch (Betula papyrifera), White Ash (Fraxinus americana), Green Ash (Fraxinus pennsylvanica), Ginkgo (Ginkgo biloba), Honey Locust (Gleditsia triacanthos), Black Walnut (Juglans nigra), Crabapple (Malus 'Profusion'), White Mulberry (Morus alba), Norway Spruce (Picea abies), White Pine (Pinus strobus), Scots Pine (Pinus sylvestris), London Planetree (Platanus x acerifolia), Chokecherry (Prunus virginiana), Swamp White Oak (Quercus bicolor), Bur Oak (Quercus macrocarpa), Red Oak (Quercus rubra), Black Locust (Robinia pseudoacacia), Ivory Silk Lilac (Syringa reticulata 'Ivory Silk'), Common Lilac (Syrgina vulgaris), Eastern White Cedar (Thuja occidentalis), Little-Leaf Linden (Tilia cordata), White Elm (Ulmus americana), Accolade Elm (Ulmus 'Morton'), and Siberian Elm (Ulmus pumila). Refer to Table 1 for the detailed tree inventory and Figure 1 - Figure 7 for the location of trees reported in the tree inventory.

### 5.0 Proposed Works

The proposed development includes the construction of sidewalks, a multi-use pathway, and roadway widening upgrades. Refer to Figure 1 - Figure 7 for the existing conditions and proposed site plan.

### 6.0 Discussion

The following sections provide a discussion and analysis of impacts, tree removal requirements, and tree preservation relative to the proposed development and existing conditions.

### 6.1 Development Impacts/Tree Removals

The removal of Trees $1-6,20,26,29,31-41,43-47,49-58,60-73,75,77,79-83$, 86, $89-92$, and $94-104$ will be required to accommodate the proposed development. Trees $20,35-37,49,60-71,83,92,94$, and $98-104$ have trunks that conflict with the proposed sidewalk. Trees 56,57, and $95-97$ have trunks that conflict with the proposed road. Trees $26,29,31-34,38-41,43-47,50-55,58,72,77,79-82,86,89$, and 91 are located close to the proposed sidewalk such that their roots would be impacted by sidewalk construction. Trees $21,73,75$, and 90 are located close to the proposed road such that their roots would be impacted by construction. Trees $35-39,41,43,45,54,77$, and 99 are in poor condition and their removal is advised regardless of the site plan.

All trees proposed for removal are located within the Town right-of-way and a permit will be required prior to their removal. Refer to Figure 1 - Figure 7 for the location of the proposed tree removals.

### 6.2 Hazard Tree Assessment (Tree Removals)

A Hazard Tree Assessment was conducted for trees in poor health and / or condition. Refer to Table 1 for the results of the hazard tree assessment. Risk assessments were based on the likelihood of tree failure causing damage to people or property within a 3-year period. Trees 37 and 77 were identified as high risk and their imminent removal is advised regardless of the site plan.

### 6.3 Tree Preservation

Preservation of the remaining 30 trees will be possible with the use of appropriate tree protection measures as indicated on Figure 1 - Figure 7. Tree protection measures must be implemented prior to the proposed work to ensure tree resources designated for retention are not impacted by the proposed development. Refer to Figure 1 - Figure 7 for the location of required tree preservation fencing and general Tree Protection Plan Notes. Refer to Appendix A for tree protection fencing details.

Crown pruning has been recommended for Trees $7-19,59,87$, and 88 to meet vertical clearance requirements set by the Town of Oakville. Special mitigation measures have been prescribed for trees with minimum Tree Protection Zones (mTPZs) that conflict with the proposed pathway, as described below.

## Scenario A: Proposed Pathway Alteration (to Existing Pathway) to Preserve Trees

Encroachment into the mTPZs of Trees $27,28,59$, and 85 will be required to accommodate the proposed pathway construction. Given the current proposed pathway location, these trees would require removal due to their proximity to the development. If the proposed pathway location can be altered minimally whereby the edge of the existing pathway can be utilized in the installation of the new pathway, these trees could be retained. If the design can be accomplished to accommodate these trees, the following mitigation measures are prescribed to ensure long-term adverse effects do not occur to these trees.

1. Vertical tree protection fencing should be installed along the existing pathway edges within the mTPZs of the trees in question, as shown in Figure 1.
2. The aggregate substrate material underneath the existing pathway must be left in place during the pathway upgrades.
3. The removal of the existing concrete pathway should be conducted with minimal impact by hand. Debris should be removed by pulling away radially from the trunk of retained trees. Any roots damaged through the process of removing the pathways may need to be hand pruned by a Certified Arborist in accordance with Good Arboricultural Standards.
4. All works should be supervised by a Certified Arborist in accordance with Good Arboricultural Standards.

## Scenario B: Path Construction around Existing Tree Pits

Encroachment into the mTPZs of Trees $7-19$, and $21-25$ will be required to accommodate the proposed sidewalk and roadway upgrades. These trees are currently growing in belowgrade tree pits and are surrounded by existing hardscape (i.e. sidewalk, road). These trees can be retained if the existing root systems, tree pits, and aggregate substrate material can be left in place undisturbed during sidewalk and road upgrades.

## Scenario C: Proposed Pathway Alteration (Outside mTPZs) to Preserve Trees

Encroachment into the mTPZs of Trees 42, 48, and 76 will be required to accommodate the proposed pathway construction. Given the current proposed pathway location, these trees would require removal due to their proximity to the development. If the proposed pathway location can be altered minimally whereby the edge of the proposed pathway is moved outside the mTPZs of these trees, they can be retained. If this pathway alteration is possible, no further mitigation measures are required.

## Scenario D: Path Construction within Existing Path / Mineral Soil

Encroachment into the mTPZs of Trees 78, 84, 87, and 88 will be required to accommodate the proposed asphalt path construction. There are existing pathways and roadways within the mTPZs of these trees. If the following protection and mitigation measures are employed before, during, and after construction, long-term adverse effects are not anticipated to these trees.

1. Vertical tree protection fencing should be installed along the existing softscape edges within the mTPZs of the trees in question, as shown in Figure 1.
2. Prior to construction, air-spading technology should be used to excavate trenches ( $\sim 20 \mathrm{~cm}$ in depth) at the western limit of the existing pathway within the mTPZs of Trees 84, 87, and 88.
3. The roots of Trees 84,87 , and 88 are to be pruned at the outside limit of the proposed grade changes inside the trenches by a Certified Arborist in accordance with Good Arboricultural Standards.
4. The trenches are to be backfilled with clean topsoil.
5. The aggregate substrate material underneath the existing pathway must be left in place during the pathway upgrades.
6. The removal of the existing concrete pathway should be conducted with minimal impact by hand. Debris should be removed by pulling away radially from the trunk of retained trees. Any roots damaged through the process of removing the pathways should be hand pruned by a Certified Arborist in accordance with Good Arboricultural Standards.
7. All works should be supervised by a Certified Arborist in accordance with Good Arboricultural Standards.

### 6.4 Tree Valuation

Refer to Table 2 for the results of the tree valuation. The total value of all trees proposed for retention is $\$ 58,593.14$.

### 7.0 Summary and Recommendations

Kuntz Forestry Consulting Inc. was retained by the Town of Oakville to complete a Tree Inventory and Preservation Plan in support of a development application for Lakeshore Road West (from Mississauga Road to Birch Hill Lane). A tree inventory was conducted and reviewed in the context of the proposed site plan.

The findings of the study indicate a total of 101 trees within the scope of assessment. Seventy-one (71) are recommended for removal to accommodate the proposed pathway upgrades and / or due to poor condition. All other trees can be saved provided appropriate tree protection measures are installed prior to development.

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to Figure 1 - Figure 7 for the location of the required tree protection fencing and general Tree Protection Plan Notes. Refer to Appendix A for tree preservation fencing details.

- Tree protection barriers and fencing should be erected at locations as prescribed on Figure 1 - Figure 7. All tree protection measures should follow the guidelines as set out in the tree preservation plan notes and the tree preservation fencing detail.
- No construction activity including surface treatments, excavations of any kind, storage of materials or vehicles, unless specifically outlined above, is permitted within the area identified on Figure 1 - Figure 7 as a tree protection zone (TPZ) at any time during or after construction.
- Branches and roots that extend beyond prescribed tree protection zones that require pruning must be pruned by a qualified Arborist or other tree professional. All pruning of tree roots and branches must be in accordance with Good Arboricultural Standards.
- Site visits, pre, during and post construction is recommended by either a certified consulting arborist (I.S.A.) or registered professional forester (R.P.F.) to ensure proper
utilization of tree protection barriers. Trees should also be inspected for damage incurred during construction to ensure appropriate pruning or other measures are implemented.
- All mitigation measures should follow the guidelines as set out in Tree Inventory and Preservation Plan and should be supervised by a Certified Arborist in accordance with Good Arboricultural Standards.

Respectfully Submitted,

## Kuntz Forestry Consulting Inc.



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### 8.0 References

Guide for Plant Appraisal - $10^{\text {th }}$ Edition, 2019. Council of Tree \& Landscape Appraisers. International Society of Arboriculture, Atlanta, Georgia. 181 pp.

Ontario Supplement to the Guide for Plant Appraisal - $8^{\text {th }}$ Edition, 2003. ISA Ontario. International Society of Arboriculture, Champaign, Illinois. 26 pp. Updated 2003.

Tree Risk Assessment Manual - $2^{\text {nd }}$ Edition, 2017. International Society of Arboriculture. International Society of Arboriculture, Champaign, Illinois. 194 pp.

## Limitations of Assessment

Only the tree(s) identified in this report were included in the inventory. The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These may include a visual examination taken from the ground of all the above-ground parts of the tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of attack by insects, discoloured foliage, the condition of any visible root structures, the degree of lean (if any), the general condition of the trees and the identification of potentially hazardous trees or recommendations for removal (if applicable). Where trees could not be directly accessed (i.e. due to obstructions, and/or on neighbouring properties), trees were assessed as accurately as possible from nearby vantage points.

Locations of trees provided in the report are determined as accurately as possible based on the best information available. If official survey information is not provided, tree location in the report may not be exact. In this case, if trees occur on or near property boundaries, an official site survey may be required to determine ownership utilizing specialized survey protocol to gain precise location.

Furthermore, recommendations made in this report are based on the site plans that have been provided at the time of reporting. These recommendations may no longer be applicable should changes be made to the site plan and/or grading, servicing, or landscaping plans following report submission.

Notwithstanding the recommendations and conclusions made in this report, it must be recognized that trees are living organisms, and their health and vigor constantly change over time. They are not immune to changes in site conditions or seasonal variations in the weather conditions. Any tree will fail if the forces applied to the tree exceed the strength of the tree or its parts.

Although every effort has been made to ensure that this assessment is reasonably accurate, the trees should be re-assessed periodically. The assessment presented in this report is valid at the time of inspection.

## Table 1. Tree Inventory

Location: Lakeshore Road West (Mississauga Road to Birch Hill Lane)
Date: 19 May 2021 Surveyors: KD

| Tree \# | Common Name | Scientific Name | DBH | TI | CS | CV | RZE | CDB | DL | mTPZ | A. mTPZ | Oakville Tree No | Pruning Required | Comments | Ownership | Action | Risk Rating | Mitigation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Norway Spruce | Picea abies | $\sim 30$ | G | G | G | G |  | 2 | 2.4 | - | 28044 |  |  | Town | Remove | - | - |
| 2 | Common Lilac | Syringa vulgaris | 1-8 | F-G | G | F-G | G | 20 | 1 | 1.8 | - | 87245 |  | Multi-stem at base, epicormic branching (L), suppressed | Town | Remove | - | - |
| 3 | Eastern White Cedar | Thuja occidentalis | 1-3 | F | F | F | G |  | 0.5 | 1.8 | - | 464705 |  | Browning needles (M) | Town | Remove | - | - |
| 4 | Ginkgo | Ginkgo biloba | 21 | F | F-G | F-G | F-G |  | 0.5 | 2.4 | . | 469737 |  | Sweep (L), stem wound (H) at 1 metre, epicormic branching (M) | Town | Remove | - | - |
| 5 | Accolade Elm | Ulmus 'Morton' | 17 | G | G | G | F-G |  | 1.5 | 2.4 | - | 500955 |  | Pruning wounds (L) | Town | Remove | - |  |
| 6 | Green Ash | Fraxinus pennsylvanica | 31 | F | F | P-F | F-G |  | 3 | 3 | - | 931 |  | Treated for EAB, epicormic branching (H), pruning wounds (L) | Town | Remove | - | - |
| 7 | Red Maple | Acer rubrum | 7 | F-G | G | F-G | F |  | 0.25 | 1.8 |  | 559288 | Yes | Pruning wounds (M), stem wound (L) at base | Town | Retain | - | Scenario B |
| 8 | Honey Locust | Gleditsia triacanthos | 7 | F | F-G | P-F | P-F | 10 | 0.25 | 1.8 |  | 559287 | Yes | Epicormic branching (H), stem wound (H) from base to 0.5 metres, pruning wounds (M), crooks (L) | Town | Retain | - | Scenario B |
| 9 | Honey Locust | Gleditisia triacanthos | 6 | F-G | F-G | F | P-F |  | 0.5 | 1.8 |  | 559286 | Yes | Stem wound (L) at base, pruning wounds (L), epicormic branching (L), crooks (L) | Town | Retain | - | Scenario B |
| 10 | Red Maple | Acer rubrum | 6 | G | G | G | P-F |  | 0.5 | 1.8 |  | 559285 | Yes | Pruning wounds (L) | Town | Retain | - | Scenario B |
| 11 | Little-leaf Linden | Tilia cordata | 22 | F-G | G | G | P-F |  | 1.5 | 2.4 |  | 471057 | Yes | Pruning wounds (M), stem wound (L) at 2 metres | Town | Retain | - | Scenario B |
| 12 | Little-leaf Linden | Tilia cordata | 24 | F | F-G | G | P-F |  | 1.5 | 2.4 |  | 471058 | Yes | Co-dominant stems at 2.25 metres, pruning wounds 9 M ), seam (L) from 0.5 metres to 1 metre | Town | Retain | - | Scenario B |
| 13 | Honey Locust | Gleditsia triacanthos | 20 | F-G | F | F-G | P-F |  | 3 | 2.4 |  | 471059 | Yes | Pruning wounds (M), asymmetrical crown (L), crooks (M), stem wound (L) at base | Town | Retain | - | Scenario B |
| 14 | Honey Locust | Gleditsia triacanthos | 23.5 | F-G | F-G | F | P-F |  | 3 | 2.4 |  | 471060 | Yes | Epicormic branching (M), roots lifting concrete, pruning wounds (M), included electrical wire | Town | Retain | - | Scenario B |
| 15 | Honey Locust | Gleditsia triacanthos | 7 | F-G | F | F | P-F |  | 1 | 1.8 |  | 559282 | Yes | Swollen bole (L), bow (L), epicormic branching (M), pruning wounds (L) | Shared | Retain | - | Scenario B |
| 16 | Honey Locust | Gleditisia triacanthos | 20.5 | G | F-G | F-G | P-F |  | 3 | 2.4 |  | 471062 | Yes | Pruning wounds (L) | Shared | Retain | - | Scenario B |
| 17 | Honey Locust | Gleditsia triacanthos | 22 | G | F-G | F-G | P-F |  | 3 | 2.4 |  | 471063 | Yes | Epicormic branching (M), pruning wounds (L) | Shared | Retain | - | Scenario B |
| 18 | Honey Locust | Gleditsia triacanthos | 19 | F-G | F | F | P-F |  | 3 | 2.4 |  | 471065 | Yes | Bow (M), asymmetrical crown (M), epicormic branching (M) | Town | Retain | - | Scenario B |
| 19 | Honey Locust | Gleditsia triacanthos | 8 | F-G | F-G | F-G | P-F |  | 1 | 1.8 |  | 559281 | Yes | Epicormic branching (M), swollen bole ( $L$ ) | Town | Retain | - | Scenario B |
| 20 | Honey Locust | Gleditisia triacanthos | 8 | F-G | F-G | F | P-F |  | 1 | 1.8 | - | 559278 |  | Epicormic branching (M), pruning wounds (L) | Town | Remove | - |  |
| 21 | Honey Locust | Gleditisia triacanthos | 8 | F-G | F-G | F | P-F |  | 1 | 1.8 | - | 559277 | Yes | Epicormic branching (M) | Town | Retain | - | Scenario B |
| 22 | Honey Locust | Gleditisia triacanthos | 17 | F-G | F-G | G | P-F |  | 2.5 | 2.4 |  | 471081 |  | Crack (L) from base to 4 metres, pruning wounds (L) | Town | Retain | - | Scenario B |
| 23 | Honey Locust | Gleditsia triacanthos | 21 | G | F-G | G | P-F |  | 3.5 | 2.4 |  | 471082 |  | Diverging stems (L) | Town | Retain | - | Scenario B |
| 24 | Honey Locust | Gleditsia triacanthos | 24 | F-G | F | F | P-F | 15 | 3 | 2.4 |  | 471084 |  | Bow (M), pruning wounds (M), epicormic branching (M), asymmetrical crown (M) | Town | Retain | - | Scenario B |
| 25 | Honey Locust | Gleditsia triacanthos | 19 | F-G | F-G | F-G | P-F |  | 3 | 2.4 | - | 471087 |  | Pruning wounds (L), co-dominant stems at 3.5 metres, diverging stems (L), asymmetrical crown (M) | Town | Retain | - | Scenario B |
| 26 | Norway Spruce | Picea abies | 24 | F-G | F-G | F-G | F-G |  | 2.5 | 2.4 |  | 475780 |  | Asymmetrical crown (M), suppressed | Town | Remove | - |  |
| 27 | Norway Maple | Acer platanoides | 18, 11 | F | P-F | F | F |  | 2.5 | 2.4 |  | 471089 |  | Pruning wounds (M), union at 1 metre, asymmetrical crown (M), epicormic branching (L), sparse crown (M) | Town | Retain | - | Scenario A |
| 28 | Norway Maple | Acer platanoides | 23 | F | F | P-F | F | 15 | 2 | 2.4 |  | 471090 |  | Sparse crown (M), epicormic branching (M) | Town | Retain | - | Scenario A |
| 29 | White Mulberry | Morus alba | ~12, ~9 | F-G | F-G | G | G |  | 2 | 2.4 | - | 475431 |  | Co-dominant stems at 0.25 metres, wetwood (M), pruning wounds (L) | Town | Remove | - | - |
| 30 | Norway Maple | Acer platanoides | 19 | F-G | F | F-G | F |  | 3 | 2.4 |  | 471096 |  | Asymmetrical crown (M), lost leader | Town | Retain | - | - |
| 31 | Green Ash | Fraxinus pennsylvanica | 50 | P-F | F | P-F | F | 30 | 4.5 | 3 | - | 74525 |  | Treated for EAB, asymmetrical crown (M), pruning wounds (M), epicormic branching (H) | Town | Remove | - | - |
| 32 | Silver Maple | Acer saccharinum | 53 | F | P-F | P-F | F |  | 5 | 3.6 | - | 95796 |  | Epicormic branching (H), broken branches (M), codominant stems in crown, asymmetrical crown (M) | Town | Remove | - | - |
| 33 | Silver Maple | Acer saccharinum | 102 | F | P-F | F | F | 15 | 9 | 6.2 | - | 40720 |  | Epicormic branching (M), sparse crown (L), asymmetrical crown (M) | Town | Remove | - | - |
| 34 | Silver Maple | Acer saccharinum | 92 | F | P-F | P-F | F | 25 | 9 | 6 | - | 103873 |  | Epicormic branching (M), asymmetrical crown (M), sweep (M), broken branches (M), cavity (L) at base | Town | Remove | - | - |
| 35 | Chokecherry | Prunus virginiana | 27 | P | F | F-G | F |  | 2.5 | 2.4 | - | 471188 |  | Insect frass at base, swollen base (M), co-dominant stems at 1.75 metres, likely internal decay | Town | Remove (Condition) | Low | - |


| 36 | Silver Maple | Acer saccharinum | 64 | P-F | P-F | P | F | 20 | 7 | 4.2 | - | 471191 |  | Co-dominant stems at 2.5 metres, epicormic branching (H), divergent stems (M), cavities (M) | Town | Remove (Condition) | Moderate | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 37 | Silver Maple | Acer saccharinum | 87 | P | F | P | F | 15 | 10 | 5.4 | - | 471195 |  | Epicormic branching (H), burls (H), insect frass at base, cavities (M), likely internal decay | Town | Remove (Condition) | High | - |
| 38 | Silver Maple | Acer saccharinum | 93 | P-F | P-F | F | F |  | 8 | 6 | - | 471196 |  | Co-dominant stems at 1.75 metres, epicormic branching (M), asymmetrical crown (M), cavity (H) | Town | Remove (Condition) | Low | - |
| 39 | Silver Maple | Acer saccharinum | 77 | P-F | F | P-F | F-G | 30 | 7 | 4.8 | - | 470940 |  | Multi-stem at 3 metres, broken branches (M), cavity $(\mathrm{M})$ at union, epicormic branching (M) | Town | $\begin{array}{\|c\|} \hline \text { Remove } \\ \text { (Condition) } \\ \hline \end{array}$ | Moderate | - |
| 40 | Silver Maple | Acer saccharinum | 64 | F | P-F | P-F | F |  | 7 | 4.2 | - | 471679 |  | Asymmetrical crown (H), co-dominant stems at 2.75 metres, epicormic branching (H) | Town | Remove | - | - |
| 41 | Silver Maple | Acer saccharinum | 96 | P-F | P-F | F | F |  | 8 | 6 | - | 471681 |  | Multi-stem at 1.5 metres, cavities (H) from previous pruning wounds, epicormic branching (M), diverging stems (H) | Town | Remove (Condition) | Moderate | ${ }^{-}$ |
| 42 | Swamp White Oak | Quercus bicolor | 7 | G | G | G | F |  | 0.5 | 1.8 |  | 575020 |  | Crook (L) | Town | Retain | - | Scenario C |
| 43 | Silver Maple | Acer saccharinum | 71 | P-F | P-F | P-F | F | 25 | 8 | 4.8 | - | 434690 |  | Co-dominant stems at 2.25 metres, fused bark, asymmetrical crown (M), cavity (H) on one stem, pruning wounds (M), sparse crown (H) | Town | Remove (Condition) | Moderate | - |
| 44 | Chokecherry | Prunus virginiana | 14 | G | G | G | F |  | 1.5 | 2.4 | - | 471687 |  |  | Town | Remove | - | - |
| 45 | Silver Maple | Acer saccharinum | 98 | P | P-F | F | F | 15 | 9 | 6 | - | 471688 |  | Cavity (H) at 2 metres, co-dominant stems at 2 metres, epicormic branching $(M)$, diverging stems $(M)$, asymmetrical crown (M), insect frass at base | Town | Remove (Condition) | Moderate | - |
| 46 | Ivory Silk Lilac | Syringa reticulata 'Ivory Silk' | 6 | F-G | G | G | F |  | 0.5 | 1.8 | - | 574986 |  |  | Town | Remove |  |  |
| 47 | Scots Pine | Pinus sy/vestris | 36 | F-G | F | G | F |  | 3 | 3 | - | 470918 |  | Diverging stems (M) | Town | Remove |  |  |
| 48 | Swamp White Oak | Quercus bicolor | 6.5 | G | G | G | F |  | 0.5 | 1.8 |  | 569616 |  |  | Town | Retain | - | Scenario C |
| 49 | White Ash | Fraxinus americana | 35 | F | F-G | F-G | F |  | 2 | 3 | - | 15583 |  | Treated for EAB, asymmetrical crown (L), epicormic branching (L) | Town | Remove | - | - |
| 50 | Red Maple | Acer rubrum | 68 | P-F | F | F | F-G | 15 | 6 | 4.2 | - | 471699 |  | Cavities ( H ) at 1.75 metres, asymmetrical crown (H) | Town | Remove | - |  |
| 51 | Red Maple | Acer rubrum | 49 | P-F | F | F | F-G | 10 | 5 | 3 | - | 59500 |  | Nectria canker (H), asymmetrical crown (H) | Town | Remove | - |  |
| 53 | Chokecherry | Prunus virginiana | 25 | P-F | G | F-G | F |  | 2.5 | 2.4 | - | 471700 |  | Stem wound ( H ) at 2 metres, swollen base ( M ), coppice growth, black knot present | Town | Remove | - |  |
| 54 | Green Ash | Fraxinus pennsylvanica | 60 | P-F | F | P | F | 25 | 4 | 3.6 | - | 93680 |  | Treated for EAB, epicormic branching (H), top-down dieback, asymmetrical crown (M) | Town | Remove (Condition) | Low |  |
| 55 | Norway Maple | Acer platanoides | 49 | F-G | F-G | G | F-G |  | 4 | 3 | - | 470863 |  | Co-dominant stems at 1.5 metres | Town | Remove | - |  |
| 56 | Honey Locust | Gleditsia triacanthos | 71 | F-G | F | F-G | F |  | 7 | 4.8 | - | 476696 |  | Co-dominant stems at 2 metres, epicormic branching $(M)$, crooks $(M)$, asymmetrical crown (H), bow (M) | Town | Remove | - | - |
| 57 | Honey Locust | Gleditsia triacanthos | 52 | F-G | F-G | F | F-G |  | 4 | 3.6 | - | 472490 |  | Epicormic branching (M) | Town | Remove | - |  |
| 58 | White Ash | Fraxinus americana | 65 | F | F | F | F-G | 10 | 4 | 4.2 | - | 435863 |  | Fused stems, co-dominant stems at 5 metres, included bark (M), epicormic branching (H) | Town | Remove | - | ${ }^{-}$ |
| 59 | Crabapple 'Profusion' | Malus 'Profusion' | 17 | F-G | F-G | G | F | 5 | 1.5 | 2.4 |  | 472437 | Yes | Cavity (L) at base | Town | Retain | - | Scenario A |
| 60 | Serviceberry species | Amelanchier sp. | 5 | G | G | G | F-G |  | 0.25 | 1.8 | - | 594781 |  |  | Town | Remove | - | - |
| 61 | Honey Locust | Gleditsia triacanthos | 5 | G | G | G | F-G |  | 0.75 | 1.8 | - | 594782 |  | Epicormic branching (L) | Town | Remove | - | - |
| 62 | Honey Locust | Gleditsia triacanthos | 5 | G | G | F-G | F-G |  | 0.75 | 1.8 | - | 594783 |  | Epicormic branching (M) | Town | Remove | - | - |
| 63 | Freeman Maple | Acer $\times$ freemanii | 5 | G | G | F-G | F-G | 20 | 1 | 1.8 | - | 594784 |  | Deadwood (L), sparse crown (L) | Town | Remove | - | - |
| 64 | Freeman Maple | Acer $\times$ freemanii | 6 | G | G | G | F-G |  | 1 | 1.8 | - | 594785 |  |  | Town | Remove |  |  |
| 65 | Honey Locust | Gleditsia triacanthos | 5.5 | G | G | G | F-G |  | 1 | 1.8 | - | 594786 |  | Epicormic branching (L) | Town | Remove | - | - |
| 66 | Honey Locust | Gleditsia triacanthos | 6 | G | G | G | F-G |  | 1 | 1.8 | - | 594787 |  | Epicormic branching (L) | Town | Remove | - | - |
| 67 | Little-leaf Linden | Tilia cordata | 6 | G | G | G | F-G |  | 0.75 | 1.8 | - | 594788 |  |  | Town | Remove | - | - |
| 68 | Bur Oak | Quercus macrocarpa | 6 | F-G | G | F-G | F-G |  | 0.25 | 1.8 | - | 594789 |  |  | Town | Remove | - | - |
| 69 | Freeman Maple | Acer $\times$ freemanii | 5 | G | G | F | F-G | 20 | 0.75 | 1.8 |  | 594790 |  |  | Town | Remove | - |  |
| 70 | Freeman Maple | Acer $\times$ freemanii | 6 | G | G | F-G | F-G | 10 | 1 | 1.8 | - | 594791 |  |  | Town | Remove | - | - |
| 71 | Freeman Maple | Acer $\times$ freemanii | 5 | F-G | G | P-F | F-G | 50 | 0.5 | 1.8 | - | 594792 |  |  | Town | Remove | - | - |
| 72 | Norway Maple | Acer platanoides | 35.5 | F | F-G | F | F-G | 25 | 3 | 3 | - | 62364 |  | Girdling roots (M), top-down dieback | Town | Remove | - | - |
| 73 | Silver Maple | Acer saccharinum | $\sim 55$ | F | P-F | F | F | 15 | 10 | 3.6 | . | 477093 |  | Sweep (M), co-dominant stems at 3 metres, diverging stems (M), epicormic branching (M), asymmetrical crown $(\mathrm{H})$, pruning wounds $(\mathrm{M})$ | Town | Remove | . | - |
| 75 | London Planetree | Platanus $\times$ acerifolia | 50, 46 | F-G | F-G | G | F |  | 7 | 4.2 | - | 477091 |  | Co-dominant stems at 0.75 metres | Town | Remove | - | - |
| 76 | Green Ash | Fraxinus pennsylvanica | $\begin{gathered} 38,35, \\ 33 \\ \hline \end{gathered}$ | F | F | F | F-G |  | 7 | 4.2 |  | 435952 |  | Treated for EAB, multi-stem at 0.25 metres --> Treat for EAB and monitor | Town | Retain | - | Scenario C |
| 77 | Sugar Maple | Acer saccharum | 84 | P | F | F | F | 25 | 4 | 5.4 | - | 100019 |  | Insect frass at base, fungal fruiting bodies at base, likely internal decay | Town | Remove (Condition) | High | - |
| 78 | Black Walnut | Juglans nigra | 101 | F-G | F-G | F-G | F-G |  | 8 | 6.1 |  | 475786 |  | Epicormic branching (L), co-dominant stems in crown, pruning wounds (L) | Town | Retain | - | Scenario D |
| 79 | Honey Locust | Gleditsia triacanthos | 35 | G | G | G | F-G |  | 5 | 3 | - | 414652 |  |  | Town | Remove | - | - |
| 80 | Honey Locust | Gleditsia triacanthos | 33 | G | G | G | F-G |  | 5 | 3 | - | 414653 |  | Pruning wounds (L), asymmetrical crown (L) | Town | Remove | - | - |
| 81 | White Pine | Pinus strobus | 58 | G | F-G | F-G | F | 15 | 6 | 3.6 | - | 414654 |  | Asymmetrical crown (M), deadwood (L) | Town | Remove | - | - |


| 82 | Siberian Elm | Ulmus pumila | 66 | F-G | F-G | F | F | 20 | 5 | 4.2 | - | 414593 |  | Pruning wounds (M), epicormic branching (M), topdown dieback | Town | Remove |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 83 | Red Oak | Quercus rubra | 106 | G | F-G | F-G | F | 10 | 7 | 6.6 | - | 167 |  | Epicormic branching (L), pruning wounds (M) | Town | Remove |  |  |
| 84 | Norway Maple | Acer platanoides | 29, 19 | F-G | F-G | G | F-G |  | 4 | 3 |  | 103065 |  | Co-dominant stems at base, included bark (M) | Town | Retain |  | Scenario D |
| 85 | Norway Maple | Acer platanoides | $\sim 50$ | F | F | G | F-G |  | 3 | 3 | - | 475757 |  | Pruning wounds ( H ), co-dominant stems at 1.5 metres | Town | Retain |  | Scenario A |
| 86 | Freeman Maple | Acer x freemanii | 27 | G | G | G | F-G |  | 2.5 | 2.4 | - | 475444 |  | Co-dominant stems at 2.5 metres | Town | Remove |  | - |
| 87 | Red Maple | Acer rubrum | 5 | G | G | G | F-G |  | 0.5 | 1.8 |  | 687932 | Yes |  | Town | Retain |  | Scenario D |
| 88 | White Mulberry | Morus alba | 26 | F | F-G | G | F |  | 2.5 | 2.4 | - | 475374 | Yes |  | Town | Retain |  | Scenario D |
| 89 | Norway Spruce | Picea abies | $\sim 55$ | F | G | F | F | 20 | 3 | 3.6 | - | 475373 |  | Deadwood (M), lost leader, top-down dieback | Town | Remove |  | - |
| 90 | White Birch | Betula papyrifera | $\begin{array}{\|l} \hline 37, \sim 36, \\ 20, \sim 15 \\ \hline \end{array}$ | F-G | F-G | F | F-G | 15 | 3.5 | 3.6 | - | 476227 |  | Multi-stem at 0.5 metres, epicormic branching (M), topdown dieback | Town | Remove |  | - |
| 91 | Black Walnut | Juglans nigra | 71, 68 | G | F-G | G | F-G |  | 6 | 6 | - | 93003 |  | Epicormic branching (L) | Town | Remove |  | - |
| 92 | Silver Maple | Acer saccharinum | $\sim 45$ | F-G | F-G | F-G | F-G |  | 6 | 3 | - | 494986 |  | Pruning wounds (M) | Town | Remove | - | - |
| 94 | Black Locust | Robinia pseudoacacia | 21 | G | F-G | G | F-G |  | 3 | 2.4 | - | 481588 |  | Asymmetrical crown (M), bow (L) | Town | Remove |  |  |
| 95 | White Elm | Ulmus americana | 15 | F-G | F-G | G | F-G |  | 1.5 | 2.4 |  | 481587 |  |  | Town | Remove | - | - |
| 96 | White Elm | Ulmus americana | 14 | G | G | G | F-G |  | 1.5 | 2.4 |  | 481580 |  |  | Town | Remove | - | . |
| 97 | White Elm | Ulmus americana | 25 | G | F-G | G | F-G | 10 | 2 | 2.4 |  | 481568 |  | Asymmetrical crown (L) | Town | Remove |  | - |
| 98 | Norway Maple | Acer platanoides | 43 | F | F | F | F-G | 25 | 4 | 3 | - | - |  | Asymmetrical crown (M), sweep (L), deadwood (M) | Town | Remove | - | - |
| 99 | Norway Maple | Acer platanoides | $\sim 30$ | . | - | . | - | . | . | 2.4 | - | 481441 |  | Dead | Town | $\begin{gathered} \text { Remove } \\ \text { (Condition) } \\ \hline \end{gathered}$ |  | Low |
| 100 | Black Walnut | Juglans nigra | 53 | F-G | F | F | F-G | 25 | 6 | 3.6 | - | 481436 |  | Pruning wounds (L), epicormic branching (M), deadwood (M) | Town | Remove |  | - |
| 101 | Eastern White Cedar | Thuja occidentalis | $\sim 20, \sim 15$ | F | F | F | F-G |  | 2 | 2.4 | - | 481428 |  | Stem wound (M) at base, co-dominant stems at 0.5 metres, browning needles ( M ) | Town | Remove |  | - |
| 102 | Eastern White Cedar | Thuja occidentalis | ~18, ~8 | P-F | P-F | P-F | F-G |  | 1.5 | 2.4 | - | 481427 |  | Co-dominant stems at base | Town | Remove |  | - |
| 103 | Eastern White Cedar | Thuja occidentalis | $\begin{gathered} \hline 30,21, \\ 20 \\ \hline \end{gathered}$ | F | P-F | F | F-G |  | 2 | 3 | - | 481426 |  | Multi-stem at 1 metre, sweep (H) | Town | Remove |  | - |
| 104 | Eastern White Cedar | Thuja occidentalis | 22 | F | P-F | F | F-G |  | 2 | 2.4 | . | 481425 |  | Sweep (H) | Town | Remove | - | - |


| Codes |  |  |
| :---: | :---: | :---: |
| DBH | Diameter at Breast Height | (cm) |
| TI | Trunk Integrity | ( $G, F, P$ ) |
| Cs | Crown Structure | (G, F, P) |
| cv | Crown Vigour | $(G, F, P)$ |
| RZE | Root Zone Environment | (G, F, P) |
| CDB | Crown Die Back | (\%) |
| DL | Dripline (radius) | (m) |
| mTPZ | minimum Tree Protection Zone | TPZ ( $m$ ) based on Town of Oakville's Tree Protection During Construction (Prcedure EN-TRE-001-001) from base of tree of tree |
| A. mTPZ | Actual minimum Tree Protection Zone | Actual TPZ (m) achievable during construction from base of tree |

## Table 2. Tree Valuation of Town-Owned Trees

| Lakeshore Road West (Mississauga Road to Birch Hill Lane), Oakville |  |  |  | Appraised Trunk Area ( $\mathrm{cm}^{2}$ ) | Unit Tree Cost (RPAC) | Basic Tree Cost <br> (\$) | Depreciation |  |  | Appraised Tree Value | Minimum <br> Value Per <br> Tree (\$) | Final <br> Appraised Tree Value |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Condition Rating (\%) |  |  | Functional Limitation Rating (\%) | External Limitation Rating (\%) |  |  |  |  |
| Tree | Common Name | DBH | OC |  |  |  |  |  |  |  |  |  |
| 7 | Red Maple | 7 | F-G | 38 | 6.51 | 250.53 | 0.75 | 0.5 | 1 | \$ 93.95 | \$ 744.00 | \$ | 744.00 |
| 8 | Honey Locust | 7 | P-F | 38 | 6.51 | 250.53 | 0.25 | 0.5 | 1 | \$ 31.32 | \$ 744.00 | \$ | 744.00 |
| 9 | Honey Locust | 7 | F | 38 | 6.51 | 250.53 | 0.5 | 0.5 | 1 | \$ 62.63 | \$ 744.00 | \$ | 744.00 |
| 10 | Red Maple | 6 | G | 28 | 6.51 | 184.07 | 0.9 | 0.5 | 1 | \$ 82.83 | \$ 744.00 | \$ | 744.00 |
| 11 | Little-Leaf Linden | 22 | F-G | 380 | 6.51 | 2474.67 | 0.75 | 0.5 | 1 | \$ 928.00 | \$ 744.00 | \$ | 928.00 |
| 12 | Little-Leaf Linden | 24 | F | 452 | 6.51 | 2945.06 | 0.5 | 0.5 | 1 | \$ 736.27 | \$ 744.00 | \$ | 744.00 |
| 13 | Honey Locust | 20 | F | 314 | 6.51 | 2045.18 | 0.5 | 0.5 | 1 | \$ 511.30 | \$ 744.00 | \$ | 744.00 |
| 14 | Honey Locust | 23.5 | F | 434 | 6.51 | 2823.63 | 0.5 | 0.5 | 1 | \$ 705.91 | \$ 744.00 | \$ | 744.00 |
| 15 | Honey Locust | 7 | F | 38 | 6.51 | 250.53 | 0.5 | 0.5 | 1 | \$ 62.63 | \$ 744.00 | \$ | 744.00 |
| 16 | Honey Locust | 20.5 | F-G | 330 | 6.51 | 2148.72 | 0.75 | 0.5 | 1 | \$ 805.77 | \$ 744.00 | \$ | 805.77 |
| 17 | Honey Locust | 22 | F-G | 380 | 6.51 | 2474.67 | 0.75 | 0.5 | 1 | \$ 928.00 | \$ 744.00 | \$ | 928.00 |
| 18 | Honey Locust | 19 | F | 284 | 6.51 | 1845.78 | 0.5 | 0.5 | 1 | \$ 461.44 | \$ 744.00 | \$ | 744.00 |
| 19 | Honey Locust | 8 | F-G | 50 | 6.51 | 327.23 | 0.75 | 0.5 | 1 | \$ 122.71 | \$ 744.00 | \$ | 744.00 |
| 21 | Honey Locust | 8 | F | 50 | 6.51 | 327.23 | 0.5 | 0.5 | 1 | \$ 81.81 | \$ 744.00 | \$ | 744.00 |
| 22 | Honey Locust | 17 | F-G | 227 | 6.51 | 1477.64 | 0.75 | 0.5 | 1 | \$ 554.12 | \$ 744.00 | \$ | 744.00 |
| 23 | Honey Locust | 21 | F-G | 346 | 6.51 | 2254.81 | 0.75 | 0.5 | 1 | \$ 845.55 | \$ 744.00 | \$ | 845.55 |
| 24 | Honey Locust | 24 | F | 452 | 6.51 | 2945.06 | 0.5 | 0.5 | 1 | \$ 736.27 | \$ 744.00 | \$ | 744.00 |
| 25 | Honey Locust | 19 | F-G | 284 | 6.51 | 1845.78 | 0.75 | 0.5 | 1 | \$ 692.17 | \$ 744.00 | \$ | 744.00 |
| 27 | Norway Maple | 21 | P-F | 346 | 6.51 | 2254.81 | 0.25 | 0.75 | 1 | \$ 422.78 | \$ 744.00 | \$ | 744.00 |
| 28 | Norway Maple | 23 | P-F | 415 | 6.51 | 2704.75 | 0.25 | 0.75 | 1 | \$ 507.14 | \$ 744.00 | \$ | 744.00 |
| 30 | Norway Maple | 19 | F | 284 | 6.51 | 1845.78 | 0.5 | 0.9 | 1 | \$ 830.60 | \$ 744.00 | \$ | 830.60 |
| 42 | Swamp White Oak | 7 | G | 38 | 6.51 | 250.53 | 0.9 | 0.9 | 1 | \$ 202.93 | \$ 744.00 | \$ | 744.00 |
| 48 | Swamp White Oak | 6.5 | G | 33 | 6.51 | 216.02 | 0.9 | 0.9 | 1 | \$ 174.98 | \$ 744.00 | \$ | 744.00 |
| 59 | Crabapple 'Profusion' | 17 | F-G | 227 | 6.51 | 1477.64 | 0.75 | 0.5 | 1 | \$ 554.12 | \$ 744.00 | \$ | 744.00 |
| 76 | Green Ash | 61 | F | 2922 | 6.51 | 19025.30 | 0.5 | 0.9 | 0.1 | \$ 856.14 | \$ 744.00 | \$ | 856.14 |
| 78 | Black Walnut | 101 | F-G | 8012 | 6.51 | 52157.24 | 0.75 | 0.75 | 1 | \$ 29,338.45 | \$ 744.00 | \$ | 29,338.45 |
| 84 | Norway Maple | 35 | F-G | 962 | 6.51 | 6263.37 | 0.75 | 0.75 | 1 | \$ 3,523.14 | \$ 744.00 | \$ | 3,523.14 |
| 85 | Norway Maple | 50 | F | 1964 | 6.51 | 12782.39 | 0.5 | 0.75 | 1 | \$ 4,793.39 | \$ 744.00 | \$ | 4,793.39 |
| 87 | Red Maple | 5 | G | 20 | 6.51 | 127.82 | 0.9 | 0.5 | 1 | \$ 57.52 | \$ 744.00 | \$ | 744.00 |
| 88 | White Mulberry | 26 | F | 531 | 6.51 | 3456.36 | 0.5 | 0.5 | 1 | \$ 864.09 | \$ 744.00 | \$ | 864.09 |
|  |  |  |  |  |  |  |  |  |  |  |  | \$ | 58,593.14 |

## Appendix A. Tree Preservation Fencing Details



## Tree Protection Zone

No grade change, storage of materials or equipment is permitted within this area.
This tree protection barrier must not be removed without the written authorization of the Town of Oakville, Report any contraventions to
Contact Name - Tel N $\qquad$
Unauthorized removal of the tree protection barrier or other contraventions may result in prosecution

