

**Tree Inventory and Preservation Plan
111-115 Fiddlers Green Rd.
Hamilton, Ontario**

prepared for

**Seferian Design Group
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prepared by



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22 March 2022
rev. 4 May 2022

KUNTZ FORESTRY CONSULTING Inc. Project P3135

Introduction

Kuntz Forestry Consulting Inc. was retained by Seferian Design Group to complete a Tree Inventory and Preservation Plan report in support of a development application for the property located at 111-155 Fiddlers Green Road in the City of Hamilton, Ontario. The subject property is located at the east side of Fiddlers Green Rd. south of Wilson St. E., within a mixed-use area.

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

- Prepare inventory of the tree resources greater than 10 cm diameter at breast height (DBH) on or within six meters of the subject property and trees of all sizes within the City road right-of-way;
- Evaluate potential tree saving opportunities based on the proposed development plans; and
- Document the findings in a Tree Inventory and Preservation Plan report.

Methodology

Trees equal to and greater than 10 cm DBH on or within six meters of the subject property and trees of all sizes within the City road right-of-way were included in the inventory. Trees were located using the topographic survey provided and estimations made from known points in the field. Trees that were located on the subject property were tagged and identified as Trees 1 - 12. Trees that were located on neighbouring properties were not tagged and were identified as Trees N1 – N6. No municipal trees were noted for this project. Refer to Figure 1 for tree locations and Table 1 for the results of the inventory. See Appendix A for photographs of the trees.

Individual tree resources were visually assessed for condition utilizing the following parameters:

Tree # – Number assigned to trees that corresponds to Figure 1.

Species – Common and botanical names provided in the inventory table.

DBH – Diameter (centimeters) at breast height, measured at 1.4 m above the ground.

Condition – Condition of tree considering trunk integrity (TI), crown structure (CS) and crown vigor (CV). Condition ratings include poor (P), fair (F), and good (G).

Crown Dieback – Percentage of dead branches within the crown.

Dripline – Crown diameter in meters.

Comments – Any other relevant tree condition information.

The results of the inventory are provided below.

Existing Site Conditions

The subject site is currently occupied by a one-story retail business and paved parking lot (111 Fiddlers Green) plus a 1.5 story single family dwelling and amenities (115 Fiddlers Green). Both dwellings will be demolished in order to accommodate the proposed site plan. Tree resources exist in the form of landscape trees. Refer to Figure 1 for the existing site conditions.

Individual Tree Resources

The tree inventory was conducted on 9 March 2022. The inventory documented 18 trees on and within six meters of the subject property and no trees within the City Road right-of-way. Refer to Table 1 for the full tree inventory and Figure 1 for the location of trees reported in the tree inventory. See Appendix A for photographs of the trees.

Tree resources are composed of Apple species (*Malus spp.*), Austrian Pine (*Pinus nigra*), Juniper species (*Juniperus spp.*), White Ash (*Fraxinus americana*), Sugar Maple (*Acer saccharum*), White Spruce (*Picea glauca*) and Yew species (*Taxus spp.*).

Proposed Development

The proposed site plan is to construct a 2-storey mixed use building with a medical clinic on the first floor and 6 dwelling units above with associated parking.

Discussion

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

Development Impacts / Tree Removal

The removal of 9 trees will be required to accommodate the proposed development. Tree #3 should be removed based on condition (significant interior decay and fruiting bodies present on bole).

Tree Preservation

Preservation of 8 trees, identified as Trees 1 and 11 and all neighbouring trees N1 through N6 will be possible with the use of appropriate tree protection measures as indicated on Figure 1. Tree protection measures must be implemented prior to the proposed development to ensure tree resources designated for retention are not impacted. Refer to Figure 1 for the location of required tree preservation fencing, general Tree Protection Plan Notes, and tree preservation fence details. Preservation fencing is to be installed at the dripline plus 1m as shown on Figure 1. Tree #1 will require moderate encroachment into the dripline for the proposed sidewalk and Trees N3, N4, N5 and N6 will require minor encroachment into the TPZ's for the proposed development. It is anticipated that the level of encroachment required will not negatively impact these trees if the following mitigation measures are employed:

1. Erect TPZ fencing per Figure 1.
2. Use air-spade technology to excavate a 0.75m deep trench outside the TPZ fencing.
3. Prune all roots inside the trench according to Good Arboricultural Practices. Work to be performed by a Certified Arborist or other tree professional (RPF).
4. Backfill trench with clean topsoil.

Summary and Recommendations

Kuntz Forestry Consulting Inc. was retained by Seferian Design Group to complete a Tree Inventory and Preservation Plan report in support of a development application for the

property located at 111-115 Fiddlers Green Rd. in Hamilton. A tree inventory was conducted and reviewed in the context of the proposed works.

The findings of the study indicate a total of 18 trees on and within six meters of the subject properties. The removal of 9 trees will be required to accommodate the proposed development while one tree should be removed due to condition. The remaining 8 trees can be saved provided appropriate tree protection measures are installed prior to the proposed development.

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to Figure 1 for tree protection fence locations, further tree preservation plan notes, and the tree protection fencing detail.

- Tree protection barriers and fencing should be erected at locations as prescribed on Figure 1. 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 as a tree protection zone (TPZ) at any time during or after construction.
- Special Mitigation Measures are prescribed for Trees #1, N3, N4, N5 and N6. See above and Figure 1.
- Branches 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 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.

Respectfully Submitted,

Kuntz Forestry Consulting Inc.

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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: 111-115 Fiddlers Green Rd., Hamilton

Date: 9 March 2022

Surveyor: Ron Reinholt

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	CDB	RZE	DL	Comments	Owner	Action
1	White Ash	<i>Fraxinus americana</i>	47	F	G	G	10	G	6	no signs of EAB, old large prune wounds multi-stem at 3m, good shape for ash	City	Retain
2	White Pine	<i>Pinus strobus</i>	78	G	G	G		F	10	numerous recent prune wounds in good cond., ivy to 3m, construction next door removed surface roots	Private	Remove
3	Sugar Maple	<i>Acer saccharum</i>	92	P	G	G	10	F	9	prune wounds poor cond., significant interior decay, fruit. bodies present, construction next door removed surface roots	Private	Remove (Condition)
4	Yew species	<i>Taxus spp.</i>	15	G	G	G		G	3	1-15cm stem plus numerous stems <10cm	Private	Remove
5	Sugar Maple	<i>Acer saccharum</i>	45	F	G	G		G	4	old prune wounds healed, metal hanger inclusion on stem at 3m	Private	Remove
6	Yew species	<i>Taxus spp.</i>	12	G	G	G		G	3	1-12cm stem plus numerous stems <10	Private	Remove
7	White Ash	<i>Fraxinus americana</i>	76	P	G	G	10	G	9	old prune wounds healing with some decay, open seam at base to 1.5m, buried at base 20cm, no EAB signs, good shape for ash	Private	Remove
8	Sugar Maple	<i>Acer saccharum</i>	74	F	G	G	20	G	7	buried at base to 20cm, prunewounds, several seams some open, multi-stem at 1.5m	Private	Remove
9	White Pine	<i>Pinus strobus</i>	36	G	G	G	20	G	4	poor pruning practices, suppressed	Private	Remove
10	White Pine	<i>Pinus strobus</i>	61	G	G	G	20	G	6	poor pruning practices, good shape otherwise	Private	Remove
11	White Spruce	<i>Picea glauca</i>	10	G	G	G		G	1.5	no issues	Private	Retain
12	Juniper species	<i>Juniperus spp.</i>	18	G	G	G		G	0.75	manicured	Private	Remove
N1	Apple species	<i>Malus spp.</i>	15/18/22	F	F	F	20	F	2	multi-stem at 1.5m	Neighbour	Retain
N2	Austrian Pine	<i>Pinus nigra</i>	50	F	F	F	20	F	5	poor structure. Lean, multi-stem at 4m	Neighbour	Retain
N3	Austrian Pine	<i>Pinus nigra</i>	20	F	F	F	20	F	3	suppressed, poor structure, lean	Neighbour	Retain
N4	Austrian Pine	<i>Pinus nigra</i>	36	F	F	F	20	F	4	poor structure. Lean, multi-stem at 3m	Neighbour	Retain
N5	Austrian Pine	<i>Pinus nigra</i>	32	F	F	F	20	F	4	poor structure. Lean, multi-stem at 4m	Neighbour	Retain
N6	Austrian Pine	<i>Pinus nigra</i>	34	F	F	F	20	F	4	poor structure. Lean, multi-stem at 5m	Neighbour	Retain

Codes		
DBH	Diameter at Breast Height	(cm)
TI	Trunk Integrity	(G, F, P)
CS	Crown Structure	(G, F, P)
CV	Crown Vigor	(G, F, P)
DL	Dripline (diameter)	(m)
Owner	Private, Neighbour, City, HCA (Hamilton Conservation Authority)	
~ = estimate; (VL) = very light; (L) = light; (M) = moderate; (H) = heavy		

Appendix A. Site Photographs



Tree 1



Tree 2



Tree 3



Tree 4 right 6 left



Tree 5



Tree 7



Tree 8 right Tree 9 middle Tree 10 left



Tree 11



Trees N2 right to N6 left