325 King Street, Niagara-On-The-Lake, Ontario Arborist Report: Tree Inventory and Preservation Plan

March 3, 2023

Prepared for:

Two Sisters Properties 122 Romina Drive Concord, ON L4K 4Z7

Prepared by:

Stantec Consulting Ltd.

in Association With:

Buchanan Expert Tree Care Inc.





160940942

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Prepared by

signature)

Bill Buchanan, HBSc Forestry

ISA Board Certified Master Arborist NY-0392B

Reviewed by

signature)

David Waverman, CAHP, OALA, CSLA Senior Landscape Architect



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Introduction March 3, 2023

1.0 INTRODUCTION

Stantec and Buchanan Expert Tree Care (BETC), were retained by Two Sisters Properties (the Property Owner) to prepare an Arborist Report including a Tree Inventory and Preservation Plan for the property located at 325 King Street (the Study Area), in the Town of Niagara-on-the-Lake, Ontario.

All tree inventory and assessments were conducted by Bill Buchanan, HBSc Forestry, ISA Board Certified Master Arborist NY-0392B. Graphic preparation was provided by Stantec. The tree inventory led by Bill Buchanan, ISA Board Certified Master Arborist was conducted on January 3, 2023.



Methodology March 3, 2023

2.0 METHODOLOGY

2.1.1 Tree Inventory Methodology

At the request of the Town, the following information on the inventoried trees was collected and appears graphically on the tree inventory plans; as text in the tree inventory charts, and as photographs, found in Appendices B, C and D respectively.

- 1) Tree species, scientific and common name.
- Diameter at Breast Height (DBH) (metric). Measurement of the trunk at 1.4m above grade.
 Expressed as diameter in centimetres.
- 3) **Health Rating System**: The following health rating system has been used based on visual inspection of above ground parts of the trees.:
 - 0 Dead, hazardous, or uprooting. Tree exhibits no signs of life. Needs removal.
 - 1 Declining or diseased tree. Too weak to survive construction. Recommend removal.
 - 2 Relatively healthy but less vigorous. Will struggle with construction.
 - 3 Healthy and vigorous. Defects if present are minor (e.g., twig dieback, small wounds) Good chance of survival with construction depending on proximity.
- 4) **Photographic Record:** A photographic record of each individual tree was recorded and can be found in Appendix C.

2.1.2 Town of Niagara-on-the-lake Tree Inventory Requirements

The methodology used for the tree inventory was adopted from the tree inventory requirements provided by the Town of Niagara-on-the-lake. Refer to Appendix A for the full list of requirements.

Description of the Study Area. March 3, 2023

3.0 DESCRIPTION OF THE STUDY AREA.

3.1 325 KING STREET

The property at 325 King Street is a square shaped parcel bordered by Regent Street to the west, Centre Street to the south, King Street to the east, and Gage Street to the north, The property consists of mature coniferous and deciduous tree species of various health conditions, one irregularly shaped school building, a large grassed area, paved play area, semi-circle seating area, parking lot, underground railroad marker, and historical oak tree marker.



Summary of Findings March 3, 2023

4.0 SUMMARY OF FINDINGS

This section summarizes the findings of the tree inventory conducted on January 3, 2023, by Bill Buchanan, HBSc Forestry, ISA Board Certified Master Arborist with specific attention to tree 28. The detailed tree inventory chart is located in Appendix B, with information pertaining to tree species, DBH, health rating, ownership, tree removals, and additional comments.

Table 1: Summary of Inventory

Item	Description	Quantity
1	Total Number of Individual Trees Inventoried	46
2	Total Number of Trees Inventoried on Adjacent Properties	8
3	Total Number of Dead Trees on Subject Properties	1
4	Total Number of Dead Trees on Adjacent Properties	0

Table 2: Summary of Preservation

Item	Description	Quantity
1	Total Number of Individual Trees to be Preserved	26
2	Total Number of Individual Trees to be Transplanted	1
3	Total Number of Individual Trees to be Removed	19

4.1 ASSESSMENT OF TREE 28 – RED OAK

Based on observations on January 3, 2023, by Bill Buchanan, HBSc Forestry, ISA Board Certified Master Arborist assessment of tree 28, the tree is in a state of decline due to age and environmental factors. The explanation is as follows:

- Red Oak (Quercus rubra) has a biological life expectancy of about 350 years. It is the opinion of the
 Master Arborist that the red oak tree is over 300 years old. A more accurate age can be determined, if
 required, by using an increment bore to count annual growth rings. Due to its age, the tree is in a
 state of decline called 'senescence'. It is similar to a person at the age of 100 and biological functions
 start failing which lead to natural death.
- Signs of this decline are evident in the lack of twig elongation throughout the canopy. Also, the top
 outermost region of the canopy is developing dead limbs. This is typical of senescence because that
 is the farthest part of the tree that water needs to travel. With biological functions failing, that part of
 the tree suffers.
- 3. There are significant dead limbs throughout the canopy which is expected for a tree this age and a major crossing limb (50cm diameter) near the main crotch of the tree causing major decay.



Summary of Findings March 3, 2023

These items are more of an indication of the lack of care and maintenance that has occurred by the previous owner responsible for the health of the tree.

4. Lastly, there are signs of Phytophthora canker on the main trunk of the tree. This is also not uncommon but is another reason that this tree will have difficulty staying alive and healthy for any significant amount of time.

In summary, it is in the opinion of the master arborist that this tree will be short lived with or without Buchanan Expert Tree Care's involvement, but will be slightly longer with some care. Any and all construction, grade changes, and especially slight changes in the natural water table will greatly affect the tree's longevity.

Tree Preservation, Protection & Management March 3, 2023

5.0 TREE PRESERVATION, PROTECTION & MANAGEMENT

This section outlines the prescriptions for tree preservation, protection and maintenance pre-construction, during construction, and post construction. This includes the required tree removals, pruning, fertilizing, root pruning and protection, mulching, and installation of tree protection hoarding. All tree maintenance shall be carried out to the most current arboricultural standards and only by qualified arborists who are certified to practice in the province of Ontario. Work completed on site will adhere to the following by-laws:

- 1. Town By-law 4571-12, A By-law to Authorize and Regulate the Planting, Care, Maintenance and Removal of Trees on the Town of Niagara-on-the-Lake's Property (the "Public Tree By-law").
- 2. Town By-law 5139-19, A By-law to Regulate the Destruction or Injuring of Trees on Private Property in the Urban Areas of the Municipality and to Rescind By-law 5106-18 (the "Private Tree Bylaw").

Trees recorded in the inventory are assigned one of two levels of protection and/or preservation/removal:

1. Preserve, Protect & Maintain

Includes protection with tree preservation hoarding, as well as pre- and post-construction arboricultural works

2. Remove

Due to site or development constraints, tree condition or location, retention is not possible or desirable

5.1 TREE PROTECTION BARRIERS: FENCING AND HOARDING

All trees scheduled to be Preserved, Protected & Maintained or Preserved & Protected shall have their critical rooting zones protected with the installation of tree protection barriers to form a Tree Protection Zone (TPZ).

Tree protection barriers shall be installed as per International Society of Arboriculture standards.

The tree protection barriers shall be installed at the approved location and shall be maintained in their original location and condition until all construction activities within the site have ceased and all equipment is removed from the site. No equipment or material storage, flushing of fuel or washing of equipment is allowed within the TPZ

5.2 TREE MAINTENANCE

Specifications for tree maintenance are outlined in this section. This includes maintenance prior to construction, remedial action during construction and post-construction maintenance.



Tree Preservation, Protection & Management March 3, 2023

5.3 PRE-CONSTRUCTION MAINTENANCE

Prior to any construction works commencing, all trees scheduled to be Preserved, Protected & Maintained shall undergo preventative maintenance. This may include:

i. Pruning

Trees shall be properly pruned to encourage healthy, vigorous growth. This includes the removal of deadwood, and crown cleaning and thinning. Additionally, any branches or limbs found to interfere with the proposed construction works shall be removed at this time to prevent improper pruning or mechanical injury.

ii. Root Bio-stimulants

The critical rooting zones specified to be protected with tree protection hoarding shall be deep root biostimulated to assist the tree in mitigating any possible impacts or stresses caused by the proposed construction. A suspension formulation of sea kelp hormonal bio-stimulant with a complete micronutrient package shall be used. Delivery of the bio-stimulant formulation shall be by high pressure injection using water as a medium.

5.4 TREE MAINTENANCE DURING CONSTRUCTION

During the construction phase of development, mitigation of problems caused by excavation and other construction activities must be addressed. This shall include:

i. Excavation Monitoring & Root Pruning

During construction, any excavation that will affect the critical rooting zones of a tree shall be monitored by a certified arborist. If, during the excavation, roots are injured or cut, the arborist shall prune or cut the injured root with a sharp implement. This will encourage callous formation and adventitious root sprouting.

ii. Irrigation During construction

Any trees that are subject to drought conditions shall have their critical root zones watered to maintain a moist/fresh moisture regime.

iii. Accidental Damage to Trees

If, during any phase of construction, damage occurs to any trees that are scheduled to be preserved, it is the responsibility of the contractor to immediately notify the Consulting Arborist. The consulting arborist shall prescribe the remedial works which shall commence immediately and at the owner's expense.



Tree Preservation, Protection & Management March 3, 2023

5.5 POST-CONSTRUCTION MAINTENANCE

Once construction activities are completed, any required remedial works shall be prescribed by the consulting arborist. This will include:

i. Post-Construction Inspection

Evaluation of the current condition of preserved trees should be conducted. This will include examination of the critical root zone, examination of the tree for any mechanical injury and overall health.

ii. Removal of Tree Protection Barriers

Upon the approval of the Town of Niagara of the Lake, all tree protection barriers can be removed

5.6 TREE 28

As a result of the assessment denoted in Section 4.1 of this report, extra caution will be taken during preservation, protection, and maintenance measures for tree 28. For example, the tree protection zone will be located at the dripline or as near as possible with respect to required construction.



Disclaimer March 3, 2023

6.0 DISCLAIMER

The assessment of the trees presented within this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground parts of each tree for structural defects, scars, external indications of decay, evidence of insect presence, discoloured foliage, the general condition of the trees and the surrounding site, as well as the proximity of property and people.

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms and their health and vigour is constantly changing. They are not immune to changes in site conditions or seasonal variations in the weather.

This report was completed prior to the finalization of the Grading Plan. Final preservation and removal recommendations for trees will determined upon completion of final Grading and Composite Utility Plans.

While reasonable efforts have been made to ensure the trees recommended for retention are healthy, no guarantees are offered or implied, that these trees or any part of them will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behavior of any single tree or group of trees in all circumstances. Inevitably a standing tree will always pose some risk. Most trees have the potential for failure if provided with the necessary combinations of stresses and elements. This risk can only be eliminated if the tree is removed.

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.



APPENDIX A: Town of Niagara-On-The-Lake List of Tree Inventory Requirements



Original List of Tree Inventory Requirements from the Town of Niagara-on-the-Lake

TERMS OF REFERENCE

Given this history and context, we are looking for an Arborist Report and Tree Inventory that includes:

- 1. Trees on adjacent private and municipal lands that are within 6 m of the Subdivision Property boundary.
- 2. Identification and use of the minimum DBH for trees to be surveyed as per ISA standards. Survey all trees that meet that standard. Include DBH in Tree Inventory Chart.
- 3. DBH in metric.
- 4. An indication as to whether tree canopies shown are conceptual or accurate.
- 5. A Health Rating System based on the tree health in its current condition.
- 6. A Tree Inventory that identifies and differentiates trees proposed for removal due to poor health v. the proposed development.
- 7. Photos sufficient to assess tree character and the basis for the health rating assigned.
- 8. The dates for site visits or visual inspections.

APPENDIX B: Tree Inventory Charts



Ownership to be determined. Recommended removal due to health.	multiple caettec/recently enumed/declining	Direction	Α.		8	A COLUMN TO THE PARTY OF THE PA	Charles	
	Young/healthy	Public		w	18	Acer saccharum	Sugar Maple	43
	poor structure/cavities	Public		2	116	Acer saccharirum	Silver Maple	42
	multi-stem/trunk wounds/poor structure	Public		- 2	68	Tilia americana	Basswood	1
	multi-stem/trunk wounds/poor structure	Public		Q	82	Tilia americana	Basswood	40
	poor structure/multi-stem	Private	×	2	40	A cer platamodes	Norway Maple	39
	goodwalth	Private	×	ia.	34	Places pungens	Blue Spruce	36
	poor structure/multi-stem	Private	*	2	72	Acersacharinum	SilverMaple	37
	poor colour / low growth rate.	Private	×	1	52	Pinusstrobus	White Pine	 36
	double remove	Private	×	0	66	Fraxinus americana	White Ash	35
	poor health/understory tree with Sycamore/ remove	Private	×	1	34	Acer platanoides	Norway Maple	34
	major trurk crack/healthy	Private		2	8	Platanus occidentalis	Sycamore	45
Ownership to be determined. Recommended removal due to health.	declining/cavities/multi-stem/remove	Private	×	1	122	Acer saccharinum	Silver Maple	37
Ownership to be determined. Recommended removal due to health.	poor health/mutt-stem	Private	×	(1)	8	Acer platanoides	Norway Mapis	31
	healthy/ old	Private		w	24	Taxus conociensis	Yew	36
	major cavitacy declinging/poor health	Public	×	1	106	Acer sacharinum	Silver Maple	3
	300yrs old/migar deadwood/phylopthoris/insjor leaders contain multi-stem/poor twig growth/eorgation multiple years	Private		1	132	Quercus rubra	Red Oak	28
	poor twig growth	Private		2	36	Acer platanordes	Nonway Maple	27
	good health	Private	×	w	24	Quercus rubra	Red Oak	26
	good health	Private	×	w	56	Quercus rubra	Red Oak	25
Ownership to be determined. Recommended removal due to health.	poor structure/declining	Private	×	1	58	Acer platanoides	Norway Maple	24
	good health	Private		w	58	Querous rubra	Red Oak	
		Private		2	50	Acer platanoides	Norway Maple	22
		Private		2	58	Acer platanoides	Norway Maple	
	decent health poor twig grawth	Private		2	48	Acer platanoides	Norway Maple	20
	good health	Private		ia.	64	Picea abies	Norway Spruce	19
	good health/major base wound/possible removal	Private	*	(4)	44	Picea abies	Norway Spruce	16
	-	Private		9	68	Page ables	Norway Spruce	17
Ownership to be determined. Recommended removal due to health.	poor structure/major cavities/decliving - remove	Private	×	1.2	102	Acer sachartrum	Silver Maple	16
Ownership to be determined. Recommended removal due to health.	poor structure/inspor cavities/declining - remove.	Private	×	1	104	Acer socihor irum	Silver Maple	-
	volunteer (not planted) /remove	Private	×	2	14	Franinus americana	White Ash	14
	small/tree is transplantible with spade	Private	*TRANSPLANT*	3	10	Quer cus rubra	Red Oak	13
	volunteer - remove	Private	×	2	22	Morais alba	White Mulberry	12
	0,404	Private		3	68	Acer saccharum	Sugar Maple	ш
	Poor celour in foliage low growth rate	Private		2	52	Pinus strobus	White Pine	10
	Poor colour in foliage law growth rate	Private		2	50	Phus strobus	White Pine	9
	Poor colour in foliage low growth rate	Private		2	58	Pinus strobus	White Pine	8
	Pour celour in foliage law growth rate	Private		7	40	Phus strobus	White Pine	7
	poor canopy structure/some decline	Private		10	66	Acer soccharinum	Silver Maple	6 1
	Poor colour in folloge low growth rate	Private		N	34	Pinus strobus	White Pine	5
	Poor colour in foliage low growth rate	Private		80	56	Phus strobus	White Pine	
	multi-stem volunteer recommend removal/grawing into fence	Private		2	22	Morrus alba	White Mulberry	3
		Private		2	18	Morus alba	White Mildlerry	2
	healthy	Private		M	66	Piced abies	Nonway Spruce	-
	Comments	disconnected for	OBH Health Kating I rest to be nemoved Ownership	Tune vinience	Cur	Della attended to		

- De Cheat, hardine, or upmoring. The exhibit no signs of the, wood sensoral.

 De Cheat, hardine, or upmoring, the exhibit no signs of the, wood sensoral.

 De Cheating or diseased true, Too sends to survive construction, feaconstand sensoral.

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 To disable, and signous. Defects if present so minor (e.g. they disback, and washed).

APPENDIX C: Photographic Inventory



Tree #	Botanical Name	Common Name	Tree Photo
1	Norway Spruce	Picea abies	
2	White Mulberry	Morus alba	
3	White Mulberry	Morus alba	
4	White Pine	Pinus strobus	

5	White Pine	Pinus strobus	
	Silver Maple	Acer saccharinum	
7 (Tree on Left)	White Pine	Pinus strobus	
8	White Pine	Pinus strobus	

9	White Dine	Dinus strabus	
(Left Tree)	White Pine	Pinus strobus	
10 (Right Tree)	White Pine	Pinus strobus	
11	Sugar Maple	Acer saccharum	
12	White Mulberry	Morus alba	

13	Red Oak	Quercus rubra	
14	White Ash	Fraxinus americana	
15	Silver Maple	Acer saccharinum	
16	Silver Maple	Acer saccharinum	

17	Norway Spruce	Picea abies	
18	Norway Spruce	Picea abies	
19	Norway Spruce	Picea abies	
20	Norway Maple	Acer platanoides	

21	Norway Maple	Acer platanoides	
22	Norway Maple	Acer platanoides	
23	Norway Maple	Acer platanoides	
24	Norway Maple	Acer platanoides	

25	Red Oak	Quercus rubra	
26	Red Oak	Quercus rubra	
27	Norway Maple	Acer platanoides	
28	Red Oak	Quercus rubra	

29	Silver Maple	Acer saccharinum	
30	Yew	Taxus canadensis	
31	Norway Maple	Acer platanoides	
32	Silver Maple	Acer saccharinum	

	Sycamore	Platanus occidentalis	
34	Norway Maple	Acer platanoides	
35	White Ash	Fraxinus americana	
36	White Pine	Pinus strobus	

37	Silver Maple	Acer saccharinum	
38	Blue Spruce	Picea pungens	
39	Norway Maple	Acer platanoides	
40	Basswood	Tilia americana	

41	Basswood	Tilia americana	
42	Silver Maple	Acer saccharinum	
43	Sugar Maple	Acer saccharum	
44	Silver Maple	Acer saccharinum	

45	Sycamore	Platanus occidentalis	
46	Silver Maple	Acer saccharinum	

APPENDIX D: Tree Inventory Plans





Tree 8	Common Name	Botanical Name	DBH	Health Rating	Trees to be Removed	Ownership	Comments	Additional Removal Comments
1	Norway Spruce	Picea abies	66	3		Private	healthy	50.5 9/1//00/9/00/00/00/00/00/00
2	White Mulberry	Morus alba	18	2		Private	multi-stem volunteer recommend removal/growing into fence	
3	White Mulberry	Morus alba	22	2		Private	multi-stem volunteer recommend removal/growing into fence	
	White Pine	Pirsus strobus	-56	848		Private	Poor colourin feliage low growth rate	
	White First	Phus strabus	36	. 2		Private	Poor colour in foliagelowgrowthrate	
1.6	Silver Magie :	Acer saccharinum	86	2		Private	poor canopy structure/some decline	
7	White Pine	Pinus strobus	40	2		Private	Poor colour in foliage low growth rate	
	White Pine	Plnus strobus	58	-2.		Private	Poor colourin foliage low growth rate	
9	White Pine	Pinus strabus	50	2	_	Privat:	Poor colour in foliagelow growth rate	
10	White Pine	Pinus strobus	52	2		Private	Poor colour in foliage low growth rate	
11	Sugar Maple	Aper saccitorum	68	3		Private	apod hoalth	
12	White Mulberry	Morps alba	22	2	X	Private	volunteer romove	
13	Red Quit	Quertas ratino	10		*TRANSPLANT*	Private.	small/treeis transplantiblewithspade	
14	White Ash	Frankus americana	34	-2	X.	Private.	volunteer/not planted/ //emove	
15	Silver Maple	Aper saycharmum	104	1	X	Private	poor structure/major cavities/declining - remove	Ownership to be determined. Recommended removal due to has
16	Silver Maple	Acer saccharinum	102		x		poor structure/major cavities/declining - remove	Ownership to be determined. Recommended removal due to hea
			_	3	×	Private		Ownership to be determined. Recommende dremoval due to nea
17	Norway Spruce	Piceo obies	68			Private	good health	
18	Norway Spruce	Pices abies	344	L.		Private	good health/major base secund/positile remeive	
19	Norway Spruce	Picea ables	64	- 1		Private	good health	
20	Norway Maple	Azer platanoides	48	. 5		Private	decent health poor two growt h	
21	Norway Maple	Aper plotonoides	58	- 7		Provate	decent health poor twig growth	
22	Norway Maple	Acer platanovies	50	2		Private	decent health poor twig growth	
23	Red Oak	Gwereus rubro	58	3		Private	good health	
24	Norway Maple	Acer platonoides	58	177		Private	poor structure/declining	Ownership to be determined. Recommended removal due to hea
25	Red Gak	Guercus rutira	56	3	X.	Private	good health	
26	Red Calc	Quercus rubro	24	3	X	Private	goedhealth	
27	Norway Maple	Acer platonoides	36	2		Private	poor twig growth	
28	Red Clak	Quercus rubro	132	. 10		Private	300yrsold/major deadwood/phytolithora/major leaders contain multi-stem/poor twig growt h/elongation multiplieyears	
29	Silver Mapre	Aper sarcharinum	106	10	X.	Public	major cavities/declinging/poor health	
30	Yew	Taxus canadensis	24	3		Private	healthi/old	
31	Norway Mapie	Acer platonoides	.68	L.	X.	Private	poer health/multi-stem	Ownership to be determined. Recommended removal due to hea
32	Silver Maple	Aper saccharinum	122	-1	×	Private	declining/cavitles/multi-stem/remove	Ownership to be determined. Recommended removal due to hea
21	Sycamore	Platenus accidentalis	60	12		Private	majortrunk crack/healthy	
34	Norway Maple	Acer platanoides	34	- 1	х	Private	poer health/understory treewith Sycamore/remove	
35	White Ash	Fraxinus americana	66	0	×	Private	dead/remove	
36	White Pine	Pinus strobus	52	- 1	*	Private	ppor colour / low growth rate	
37	Silver Maple	Aper squako/www	72	2	x	Private	poor structure/multi-stem	
38	Blue Spruce	Picco pungers	34	3	×	Private	good health	
39	Norway Maple	Appropriate and a second secon	40	1	- ŵ	Privato	pper structura/multi-stam	
40	Basswood :	Tilip americana	82	-2		Public:	multi-stem/trunk wounds/oper structure	
41	Binswood	Title emericane	58	2		Public	multi-stem/trunk wounds/ener structure multi-stem/trunk wounds/ener structure	
				2			Control Burner (Auto)	
42	Silver Maple	Acer saccharinum	116	-		Public	poor structure/cavities	
43	Sugar Maple	Acer saccharum	18	101	2.5	Public	youns/healt hy	
44	Street Maple	Acer saccharinum	96	l l	*	Public	multiplecavities/recentlypruned/declining	Ownership to be determined. Recommended removal due to he
45	Sycamore	Alatanus acatlentails	32	- 1	507	Public	young/generallyhealthy	A MOTOGRAPH SALES OF SALES AND SALES
46	Silver Maple	Aper sapphoristum	108	1	X:	Public	multi leaders/multiple cavities/declining	Dwnership to be determined. Recommended removal due to he

Health Rating.

0 - Boat, Abstandous, coruproceing, Treecashinistran signate filler, Needs removal

1 - Deckining or followated tree. Too weak to survive construction, Recommend removal

2 - Restriev's healthy but less vigerous. Will strugglewith construction.

3 - Healthy and vigorous. Defects if present are minor (e.g. twg deback, small wounds) Good chance of survival with construction deterining on proximity.

TREE INVENTORY CONDUCTED ON JANUARY 3RD, 2023 BY: BILL BUCHANAN, HBSCFORESTRY, ISA BOARD CERTIFIED MASTER ARBORIST NY-0392B



