Tree Inventory and Preservation Plan Report 435 Big Bay Point Road Barrie, Ontario

prepared for

Innovative Planning Solutions 150 Dunlop Street East, Suite 201 Barrie, ON L4M 1B2

prepared by



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KUNTZ FORESTRY CONSULTING INC Project P1507

Introduction

Kuntz Forestry Consulting Inc. was retained by Innovative Planning Solutions to complete a Tree Inventory and Preservation Plan Report in support of a development application for a property located at 435 Big Bay Point Road in Barrie, Ontario. The subject property is located on the south side of Big Bay Point Road and the east side of Huronia Road.

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

- Prepare inventory of the tree resources over 10cm on and within six metres of the proposed development and trees of all sizes within the road right-of-way;
- Screen the area within 50m of the proposed development for Butternut:
- Evaluate potential tree saving opportunities based on the proposed development plans; and
- Document the findings in a Tree Inventory and Preservation Plan Report.

Tree resources were assessed utilizing the following parameters:

Tree # - number assigned to tree that corresponds to Figure 1.

Species - common and botanical names provided in the inventory table.

DBH - diameter (centimetres) at breast height, measured at 1.4 m above the ground.

Condition - condition of tree considering trunk integrity, crown structure, and crown vigour. Condition ratings include poor (P), fair (F) and good (G).

Comments - additional relevant detail.

The results of the evaluation are provided below.

Methodology

Trees measuring over 10cm DBH on and within six metres of the proposed development were identified to be included in the tree inventory. Trees were located using a handheld GPS unit (Trimble GeoExplorer® 6000 series) accurate to ±1m. Trees located on the subject property were tagged using numbers 774-480. Trees on the neighbouring properties were identified with letters A-M. One Butternut tree was identified with the prefix BN. Refer to Table 1 for the results of the tree inventory and Figure 1 for the location of the trees.

Existing Site Conditions

The subject property is currently occupied by a detached dwelling and a paved driveway. Tree resources exist in the form of landscape trees and natural feature trees. A woodlot exists on the east side of the subject property. Refer to Figure 1 for the existing site conditions.

Tree Resources

The tree inventory was conducted on 3 May 2017. The inventory documented 120 trees on and within six metres of the proposed development. Refer to Table 1 for the full tree inventory and Figure 1 for the location of trees reported in the tree inventory.

Tree resources included in the inventory are comprised of Balsam Fir (Abies balsamea), Manitoba Maple (Acer negundo), Norway Maple (Acer platanoides), Red Maple (Acer rubrum), Silver Maple (Acer saccharinum), Sugar Maple (Acer saccharum), White Birch (Betula papyrifera), Green Ash (Fraxinus pennsylvanica), Butternut (Juglans cinerea), Apple Species (Malus spp.), White Spruce (Picea glauca), Colorado Blue Spruce (Picea pungens), White Pine (Pinus strobus), Scots Pine (Pinus sylvestris), Black Cherry (Prunus serotina), Chokecherry (Prunus virginiana), Bur Oak (Quercus macrocarpa), Red Oak (Quercus rubra), Mountain Ash Species (Sorbus spp.), Eastern White Cedar (Thuja occidentalis), White Elm (Ulmus americana).

Proposed Development

The proposed development includes the demolition of the existing dwelling and the construction of townhouses with associated parking and a parkette in the southeast corner of the property. The existing woodlot on the east side of the subject property will be retained and conveyed to public ownership. Refer to Figure 1 for the proposed development.

Discussion

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

Development Impacts/Tree Removals

The removal of Trees 374-378, 380-450, C, and E-J (83 trees) is required to accommodate the proposed development. In addition, the removal of Trees 379 and 457 is recommended regardless of the site plan due to the condition of the tree and its hazard potential. Refer to Figure 1 for the locations of tree removals.

Trees C and E-J are located within neighbouring properties; written permission from these property owners is required prior to their removal.

Tree Preservation

Preservation of Trees 451-456, 458-480, A, B, D, and K-M (35 trees) will be possible with the use of appropriate tree protection measures as indicated on Figure 1. Tree protection measures will have to be implemented prior to the proposed works to ensure tree resources designated for retention are not impacted by the development. Refer to Figure 1 for the location of required tree preservation fencing, general Tree Protection Plan Notes, and the tree preservation fence detail.

Minor encroachment into the dripline of Trees 452 and 458 will be required to accommodate the proposed development. Given that encroachment is limited to a very small area, long-term adverse effects are not anticipated to those trees.

Butternut

Tree BN480 is Butternut and is protected under the federal government's Endangered Species Act (MNR, 2007). This tree is listed as an endangered species as per the COSEWIC list and until permission has been granted, the tree must be protected 25m

from its base. The proposed development is within this limit. As such, a formal assessment will be completed and reported to the OMNR. The tree will be assessed as retainable, non-retainable, or archivable. If an audit is not requested by the OMNR within 30 days, work is permitted within its vicinity if it is identified as non-retainable. If identified as a retainable or archivable tree, additional compensation measures may be required. Refer to Table 1 for the inventory information of Tree BN480.

Summary and Recommendations

Kuntz Forestry Consulting Inc. was retained by Innovative Planning Solutions to complete a Tree Inventory and Preservation Plan in support of a development application for the property located at 435 Big Bay Point Road in Barrie, Ontario. A tree inventory was conducted and reviewed in the context of the proposed work.

The findings of the study indicate a total of 120 trees on and within six metres of the subject property. The removal of 83 trees will be required to accommodate the proposed development. The removal of two trees is recommended due to their condition. The remaining 35 trees can be saved provided appropriate tree protection measures are followed throughout construction.

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to Figure 1 for general Tree Protection Plan Notes and the tree preservation fence 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.
- 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.

Respectfully Submitted,

Kuntz Forestry Consulting Inc.

Kaho Hayashi

Kaho Hayashi, B.Sc., M.Sc.F. Associate Forest Ecologist ISA Certified Arborist #ON-2153A

Date: 3 May 2017 Surveyors: KH

Table 1. Tree Inventory

Location: 435 Big Bay Point Road, Barrie

			T	-						
Tag#	Common Name	Scientific Name	DBH	TI	CS	CV	CDB	DL	Comments	Remove
374	Eastern White Cedar	Thuja occidentalis	12-25 (ave 18)	F/G	G	G		4	Union at base (4 stems)	Х
375	Scots Pine	Pinus sylvestris	34	F/G	F	P/F	20	3	Crook (L), sparse crown (H), grape vine competition (M)	X
376	Eastern White Cedar	Thuja occidentalis	~15	F/G	G	G		2	Co-dominance at 2m with included bark (M)	Х
377	Silver Maple	Acer saccharinum	~75, 70	F	F/G	F/G		12	Union at 0.5m with included bark (L), bow (M), broken branches (L), epicormic branches (M)	Х
378	Scots Pine	Pinus sylvestris	42	F/G	P/F	P/F	25	8	Crook (L), asymmetrical crown (H), dead branches (L)	Х
379	Scots Pine	Pinus sylvestris	46	G	P/F	P/F	30	5	Crook (L), sparse crown (M), broken branches (L), dead branches (L)	X (recommended)
380	White Birch	Betula papyrifera	~30, 30	Р	F	F		6	Union at 0.5m with included bark (L), stem wounds (H), lost leader at 2m and 6m	Х
381	Scots Pine	Pinus sylvestris	34.5	F/G	F/G	F/G		4	Asymmetrical crown (M), crook (L)	X
382	Scots Pine	Pinus sylvestris	44 12-22	F/G	G	G		4	Lean (L) to east, asymmetrical crown (L)	X
383	Eastern White Cedar	Thuja occidentalis	(ave 16)	F/G	G	G		3	Union at base (5 stems)	Х
384	Eastern White Cedar	Thuja occidentalis	15-25 (ave 20)	F/G	G	G		3	Union at base (4 stems)	Х
385	Eastern White Cedar	Thuja occidentalis	15-22 (ave 18)	F/G	G	G		3	Union at 0.8m (4 stems)	Х
386	Mountain Ash Species	Sorbus spp.	22	F	F/G	F/G		3	Lean (L), crook (L), seam (L)	Х
387	Eastern White Cedar	Thuja occidentalis	7-20 (ave 15)	F/G	G	G		3	, ,	Х
388	Balsam Fir	Abies balsamea	38.5	F/G	G	F	10	3	Co-dominance at 2m, dead leaders	X
389	Balsam Fir Eastern White Cedar	Abies balsamea Thuja occidentalis	30 10-20	P/F F/G	P/F G	P/F G	15	3	Lost leader Union at base (3 stems)	X
391	Eastern White Cedar	Thuja occidentalis	(ave 15) 5-25 (ave	F/G	G	G		4	Union at base (7 stems)	X
	Manitoba Maple	Acer negundo	22) 16.5, 12	F	F/G	G		5	Union at 0.8m with included bark (M), bow	X
	•	<u>-</u>							(L), asymmetrical crown (M)	
393 394	Chokecherry	Prunus virginiana	11.5 11	F/G F/G	F/G F/G	G		3	Asymmetrical crown (M), lean (L)	X
395	Chokecherry Manitoba Maple	Prunus virginiana Acer negundo	10	F	G	G		4	Sweep (L), asymmetrical crown (M) Lean (L), crook (L), asymmetrical crown (L)	X
396	Manitoba Maple	Acer negundo	5-20 (ave	F	G	G		5	Union at base (4 stems), crook (M), asymmetrical crown (L)	Х
397	White Elm	Ulmus americana	52	G	G	F/G		8	asymmetrical crown (L)	Х
398	Scots Pine	Pinus sylvestris	42	G	G	G		6		X
399	Scots Pine	Pinus sylvestris	41	F/G	G	F/G		5	Crook (L)	Х
400	Scots Pine	Pinus sylvestris	38	G	F/G	G		4	Asymmetrical crown (M)	X
401	Scots Pine	Pinus sylvestris	36	G	F/G	G		5	Asymmetrical crown (M)	X
402	Scots Pine	Pinus sylvestris	33.5	G	F/G	G		5	Asymmetrical crown (M)	X
403	Scots Pine Scots Pine	Pinus sylvestris Pinus sylvestris	42 47	F/G F/G	G	G		6	Crook (M) Co-dominance at 2m with included bark (M)	X
405	Scots Pine	Pinus sylvestris	34	G	F/G	G		6	Asymmetrical crown (M)	X
	Scots Pine	Pinus sylvestris	33.5	F/G	G	G		4	Crook (L), sweep (L)	X
407	Scots Pine	Pinus sylvestris	43		F/G	G		6	Lean (L), crook (L), asymmetrical crown (M)	X
408	Scots Pine	Pinus sylvestris	35.5	G	G	G		6		Х
409	Scots Pine	Pinus sylvestris	41	F/G	G	G		6	Co-dominance at 4m, crook (L), asymmetrical crown (L)	X
410	Scots Pine	Pinus sylvestris	46	F/G	F	F/G		6	Bow (L), asymmetrical crown (H), crook (L)	Х
411	Scots Pine	Pinus sylvestris	50, 15.5	F/G	F/G	G		5	Union at base, crook (L), asymmetrical crown (M)	Х
412	Scots Pine	Pinus sylvestris	42.5	F	F	P/F	30	5	Lean (L), union at 3m with included bark (L), smaller stem almost dead	Х
413	Scots Pine	Pinus sylvestris	25	F	F	F/G		5	Cook (H), asymmetrical crown (H), union at 1.7m but smaller stem lost	Х
414	Scots Pine	Pinus sylvestris	50.5	F/G	G	G		6	Co-dominance in crown	Х
415	Scots Pine	Pinus sylvestris	35	F/G	F/G	G		4	Asymmetrical crown (M), sweep (L), crook (L)	Х
416	Scots Pine	Pinus sylvestris	46, 36	F/G	G	G		6	Union at base	X
417	Scots Pine	Pinus sylvestris	41	G	G	G		5		Х
418	Scots Pine	Pinus sylvestris	37.5	G	F/G	F/G		5	Asymmetrical crown (M)	Х
419	Scots Pine	Pinus sylvestris	44.5	G	F/G	G		6	Asymmetrical crown (H)	X

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221 Soote Price Druss pylvestris 12.5 Fife C G C Fife C C C C C C C C C	420	Scots Pine	Pinus sylvestris	11	G	G	G		2		X
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Sobe Pine	430	Scots Fille	Fillus sylvesilis	11	F/G	G	G		-	Official base (3 sterils)	^
Sobe Pine	437	Scots Pine	Pinus sylvestris	12.5	G	G	F/G		2	Sparse crown (L)	Х
2005 Pine	438	Scots Pine			_		G		2		X
Add New Spruce Pices glaces 13			•		_		_			1,7	
1442 White Struce					_		_	\vdash	-	Lean (L), spaise Gowii (L)	
White Suruce							_		-		
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448	446	Red Maple	Acer rubrum	17.5 <u>,</u> 11	F/G	G	G	'	4	Union at base	X
448	447	Scots Pine	Pinus sylvestris	20	F/G	G	G		3	Crook (L)	X
450 Sobs Pine			•			_	_				
									_		
451 Black Cherry	_		,		_			\vdash	_		
Section Pursus seroina 23.5 F/G G F/G Competition (M)	450	Scots Pine	Pinus sylvestris	~20, 20	F	G	G		4	. , ,	Х
White Elm	451	Plack Charns	Drunus sorotino	22.5	E/C	_	E/C		1	Crook (L), broken branches (L), grape vine	
Sugar Maple Acer saccharum 17	451	black Cherry	Prunus serouna	23.5	F/G	G	F/G		4	competition (M)	
Sugar Maple Acer saccharum 17						_				Crook (L), union at 2m, grape vine	
454 Sugar Maple Acer saccharum 17 G G G G G G G G G	452	White Elm	Ulmus americana	30.5	F/G	G	F/G		5		
454 Sugar Maple Acer saccharum 13 F/G F/G 5 Co-dominance at 2m, asymmetrical crown (M)	452	Sugar Manla	Agaragaharum	17					-	competition (w)	
Sugar Maple Acer saccharum 15 G F/G G G G Co-dominance at 4m with included bark (M)	455	Sugai iviapie	Acer saccriarum	17	G	G	G	\vdash	3		
Acer saccharum	454	Sugar Maple	Acer saccharum	13	F/G	F/G	F/G		5	· · ·	
Acer saccharum											
457 Sugar Maple Acer saccharum 43	455	Sugar Maple	Acer saccharum	15	G	F/G	G		5	Asymmetrical crown (M)	
457 Sugar Maple Acer saccharum 43	450	Curar Manla	A	40	F/C					Co. dominance at the with included hard (M)	
458 Sugar Maple Acer saccharum 43 P G F/G 5 possible hazard (recommended 458 Sugar Maple Acer saccharum 47.5 G F/G G G G G G G G G G	450	Sugar Maple	Acer saccriarum	40	F/G	G	G		0	Co-dominance at 4m with included bank (ivi)	
458 Sugar Maple Acer saccharum 43 P G F/G 5 possible hazard (recommended 458 Sugar Maple Acer saccharum 47.5 G F/G G G G G G G G G G										Stem wounds (H) at base, hollow stem ==>	X
458 Sugar Maple Acer saccharum 36 G G G G G G G G G	457	Sugar Maple	Acer saccharum	43	Р	G	F/G		5	, ,	
Sugar Maple Acer saccharum 36 G G G G G G	450	O M I -	A	47.5	<u> </u>	F/O		—			(recommended)
Acer saccharum 39.5 G G G G G G Acer saccharum 33.6 G F/G G G G Asymmetrical crown (M)		• .					_			Asymmetrical crown (IVI)	
461 Sugar Maple Acer saccharum 33 G F/G G 6 Asymmetrical crown (M) 462 Sugar Maple Acer saccharum 27.5 G G G G 40 Acer saccharum 28.5 F/G F/G G 41 Acer saccharum 28.5 F/G G 42 Asymmetrical crown (M) 463 Sugar Maple Acer saccharum 13 G F/G G 44 Asymmetrical crown (M) 465 Sugar Maple Acer saccharum 14 P/F F F 466 Sugar Maple Acer saccharum 33, 24 F/G G G 467 Black Cherry Prunus serotina 36 F F/G F Black Cherry Prunus serotina 36 F F/G G 468 Sugar Maple Acer saccharum 28.5 F/G G G 469 Sugar Maple Acer saccharum -40, 20 F/G G G 470 Sugar Maple Acer saccharum -25, 16 P/F F F 40 Union at base and 3m with included bark (L) to west, grape vine competition (M) 471 Black Cherry Prunus serotina 45.5 F/G F/G G G 471 Black Cherry Prunus serotina 45.5 F/G F/G F/G Bow (L) to north, dead branches (L) 472 Sugar Maple Acer saccharum 16 G G G S Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 12 G F/G G S Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 12 G F/G G S Asymmetrical crown (L), understory tree 475 Sugar Maple Acer saccharum 20.5 G G G S Asymmetrical crown (M) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G G B Bow (M) to west, crook (L), asymmetrical crown (M) 476 Green Ash Fraxinus pennsylvanica -30, 20 F/G F/G G 8 Asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Asymmetrical crown (M) 478 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Asymmetrical crown (M) 479 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Asymmetrical crown (M) 470 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Asymmetrical crown (M)	459	Sugar Maple	Acer saccharum	36	G	G	G		6		
Acer saccharum	460	Sugar Maple	Acer saccharum	39.5	G	G	G		6		
Acer saccharum	461	Sugar Maple	Acer saccharum	33	G	F/G	G		6	Asymmetrical crown (M)	
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464 Sugar Maple	702	ougai mapic	noor saconatum	21.0	۳	۳	۳		\dashv	Co dominance of 4.7m with in study of the 1	
464 Sugar Maple	463	Sugar Maple	Acer saccharum	28.5	F/G	F/G	G		6		
465 Sugar Maple Acer saccharum 14 P/F F F 6 Union at 1m but 1 stem dead, bow (L) to west, grape vine competition (M) 466 Sugar Maple Acer saccharum 33, 24 F/G G G 6 Union at 1m but 1 stem dead, bow (L) to west, grape vine competition (M) 467 Black Cherry Prunus serotina 36 F F/G F 8 Bow (M) to west, broken branches (M), grape vine competition (H) 468 Sugar Maple Acer saccharum 28.5 F/G F/G G 6 Co-dominance in crown, asymmetrical crown (M) 469 Sugar Maple Acer saccharum -40, 20 F/G G G 5 Union at base and 3m with included bark (L) 470 Sugar Maple Acer saccharum -40, 20 F/G G G 4 Union at base but smaller stem dead, stem wounds (M), asymmetrical crown (M) 471 Black Cherry Prunus serotina 45.5 F/G F/G F/G B S Bow (L) to north, dead branches (L) 472 Sugar Maple Acer saccharum 16 G G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L), understory tree 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G G 8 Bow (M) to west, broken branches (L) 477 Sugar Maple Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 8 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Acer saccharum -30, 20 F/G G G 6 Saymmetrical crown (M) Ace											
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465 Sugar Maple Acer saccharum 33, 24 F/G G G G Black Cherry Prunus serotina 36 F F/G F 8 Bow (M) to west, broken branches (M), grape vine competition (H) 468 Sugar Maple Acer saccharum 28.5 F/G F/G G 6 Co-dominance in crown, asymmetrical crown (M) 469 Sugar Maple Acer saccharum -40, 20 F/G G G Co-dominance in crown, asymmetrical crown (M) 470 Sugar Maple Acer saccharum -25, 16 P/F F 4 Union at base but smaller stem dead, stem wounds (M), asymmetrical crown (M) 471 Black Cherry Prunus serotina 45.5 F/G F/G F/G F/G 3 Bow (L) to north, dead branches (L) 472 Sugar Maple Acer saccharum 16 G G G 5 Asymmetrical crown (L), understory tree 473 Sugar Maple Acer saccharum 12 G F/G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G F/G G 8 Union at base but smaller stem dead, stem wounds (M), asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G 8 Union at base, asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F F/G G 8 Asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -30, 20 F F/G G Cankers (M), lower branches dead, grape	405	Our and Marie	A	4.	D	-				Union at 1m but 1 stem dead, bow (L) to	
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466 Sugar Maple Acer saccharum 33, 24 F/G G G G (L) Black Cherry Prunus serotina 36 F F/G F 8 Bow (M) to west, broken branches (M), grape vine competition (H) 468 Sugar Maple Acer saccharum 28.5 F/G F/G G G Co-dominance in crown, asymmetrical crown (M) 469 Sugar Maple Acer saccharum -40, 20 F/G G G G Union at base 470 Sugar Maple Acer saccharum -25, 16 P/F F F 4 Union at base but smaller stem dead, stem wounds (M), asymmetrical crown (M) 471 Black Cherry Prunus serotina 45.5 F/G F/G F/G B Bow (L) to north, dead branches (L) 472 Sugar Maple Acer saccharum 16 G G G 5 Asymmetrical crown (L), understory tree 473 Sugar Maple Acer saccharum 12 G F/G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (M) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G G 8 Bow (L) to north, dead branches (L) 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G 8 Bow (M) to west, broken branches (L) 8 Bow (M) to west, crook (L), asymmetrical crown (M) 4 Asymmetrical crown (M) 8 Bow (M) to west, crook (L), asymmetrical crown (M) 4 Sugar Maple Acer saccharum -30, 20 F F/G G 8 Asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -30, 20 F F/G G 8 Asymmetrical crown (M) Union at base, asymmetrical crown (M) Union at base, broken branches (L), asymmetrical crown (M) Union at base, broken branches (L), asymmetrical crown (M) Acer saccharum -30, 20 F F/G G Cankers (M), lower branches dead, grape											
467 Black Cherry Prunus serotina 36 F F/G F 8 Bow (M) to west, broken branches (M), grape vine competition (H) 468 Sugar Maple Acer saccharum 469 Sugar Maple Acer saccharum 470 Sugar Maple Acer saccharum 471 Black Cherry Prunus serotina 472 Sugar Maple Acer saccharum 473 Sugar Maple Acer saccharum 474 Sugar Maple Acer saccharum 475 Sugar Maple Acer saccharum 476 Green Ash 477 Sugar Maple Acer saccharum 478 Sugar Maple Acer saccharum 479 Sugar Maple Acer saccharum 470 Sugar Maple Acer saccharum 470 Sugar Maple Acer saccharum 471 Black Cherry Prunus serotina 472 Sugar Maple Acer saccharum 473 Sugar Maple Acer saccharum 474 Sugar Maple Acer saccharum 475 Sugar Maple Acer saccharum 476 Green Ash 477 Sugar Maple Acer saccharum 478 Sugar Maple Acer saccharum 479 Sugar Maple Acer saccharum 470 Sugar Maple Acer saccharum 471 Sugar Maple Acer saccharum 472 Sugar Maple Acer saccharum 473 Sugar Maple Acer saccharum 474 Sugar Maple Acer saccharum 475 Sugar Maple Acer saccharum 476 Green Ash 477 Sugar Maple Acer saccharum 478 Sugar Maple Acer saccharum 479 Sugar Maple Acer saccharum 470 Sugar Maple Acer saccharum 470 Sugar Maple Acer saccha	466	Sugar Maple	Acer saccharum	33, 24	F/G	G	G		6		
467 Black Cherry Prunus serotina 36 F F/G F G G G G G G G G G G G G G G G G					\vdash	 	\vdash	_	\vdash	()	
Sugar Maple Acer saccharum 28.5 F/G F/G G 6 Co-dominance in crown, asymmetrical crown (M) 469 Sugar Maple Acer saccharum -40, 20 F/G G G G 40 Union at base Union at base but smaller stem dead, stem wounds (M), asymmetrical crown (M) 471 Black Cherry Prunus serotina 45.5 F/G F/G F/G B Bow (L) to north, dead branches (L) 472 Sugar Maple Acer saccharum 16 G G G 5 Asymmetrical crown (L), understory tree 473 Sugar Maple Acer saccharum 12 G F/G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) Bow (M) to west, crook (L), asymmetrical crown (M) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G G 8 Bow (L) to north, dead branches (L) 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G 4 Bow (M) to west, crook (L), asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -30, 20 F F/G G 8 Asymmetrical crown (M) Union at base, asymmetrical crown (M) Union at base, broken branches (L), asymmetrical crown (M) Union at base, broken branches (L), asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G 6 Cankers (M), lower branches dead, grape	467	Black Cherry	Prunus serotina	36	F	F/G	F		8		
Acer saccharum		· · · · · · · · · · · · · · · · · · ·			₩	<u> </u>	$\vdash \vdash$	—	$\vdash \vdash$		ļ
469 Sugar Maple Acer saccharum -40, 20 F/G G G G Union at base 470 Sugar Maple Acer saccharum -25, 16 P/F F F 4 Union at base but smaller stem dead, stem wounds (M), asymmetrical crown (M) 471 Black Cherry Prunus serotina 45.5 F/G F/G F/G F/G 8 Bow (L) to north, dead branches (L) 472 Sugar Maple Acer saccharum 16 G G G S 5 Asymmetrical crown (L), understory tree 473 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G G Bow (M) to west, crook (L), asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Asymmetrical crown (M) Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -30, 20 F F/G G Cankers (M), lower branches (L), asymmetrical crown (M) RN480 Butterput Acer Saccharum -30 P F/G P/F A Cankers (M), lower branches dead, grape	468	Sugar Maple	Acer saccharum	28.5	F/G	F/G	G		6		
Acer saccharum -25, 16 P/F F F 4 Union at base but smaller stem dead, stem wounds (M), asymmetrical crown (M) 471 Black Cherry Prunus serotina 45.5 F/G F/G F/G 8 Bow (L) to north, dead branches (L) 472 Sugar Maple Acer saccharum 16 G G G 5 Asymmetrical crown (L), understory tree 473 Sugar Maple Acer saccharum 12 G F/G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G G 4 Bow (M) to west, crook (L), asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -30, 20 F F/G G 6 C Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G C C C C C C C C C C C C C C C C C C			oaconarani						لتا		
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472 Sugar Maple Acer saccharum 16 G G G 5 Asymmetrical crown (L), understory tree 473 Sugar Maple Acer saccharum 12 G F/G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G How (M) to west, crook (L), asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G Bow (M) Union at base, broken branches (L), asymmetrical crown (M) NT479 Sug	7,0	gaapio	oaconarani	_5, 10	Ι΄΄΄	1				wounds (M), asymmetrical crown (M)	
472 Sugar Maple Acer saccharum 16 G G G 5 Asymmetrical crown (L), understory tree 473 Sugar Maple Acer saccharum 12 G F/G G 5 Asymmetrical crown (M) 474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G How (M) to west, crook (L), asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G Bow (M) Union at base, broken branches (L), asymmetrical crown (M) NT479 Sug	171	Black Charns	Drunus scratina	AE F	E/C	E/C	E/C		0	Row (L) to porth, dood bronches (L)	
473 Sugar Maple		·			_		_	_	-		ļ
474 Sugar Maple Acer saccharum 18 G F/G G 5 Asymmetrical crown (M) 475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G G 8 B Union at base, asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G G C Cankers (M), lower branches (L), asymmetrical crown (M) RN480 Butterput Acer saccharum -30 P F/G P/F G C Cankers (M), lower branches dead, grape						_	_		_		
474 Sugar Maple	473	Sugar Maple	Acer saccharum	12	G	F/G	G	L	5	Asymmetrical crown (M)	
475 Sugar Maple Acer saccharum 20.5 G G G 4 Asymmetrical crown (L) 476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G 4 Bow (M) to west, crook (L), asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G 6 Union at base, broken branches (L), asymmetrical crown (M) RN480 Butterput Includes cineral 200 P F/G P/F Acer Saccharum Canada Cana	474		Acer saccharum	18	_		G		5	Asymmetrical crown (M)	
476 Green Ash Fraxinus pennsylvanica 12 F F/G F/G 4 Bow (M) to west, crook (L), asymmetrical crown (M) 477 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G 6 Union at base, broken branches (L), asymmetrical crown (M) RN480 Butterput Auglans cineral -30 P F/G P/F 4 Cankers (M), lower branches dead, grape					_				_		
477 Sugar Maple Acer saccharum -30, 20 F/G F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G 6 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G 6 Union at base, asymmetrical crown (M) RN480 Butterput Acer saccharum -30 P F/G P/F Acar Science Control of Cankers (M), lower branches dead, grape	713	Sagai mapio	, isor odoonarum	20.0	Ĕ	Ĕ	\vdash		H	* * * * * * * * * * * * * * * * * * * *	
Acer saccharum -30, 20 F/G F/G G 8 Union at base, asymmetrical crown (M) NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G Union at base, asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G Union at base, broken branches (L), asymmetrical crown (M) RN480 Butterput Includes cinerea (M), lower branches dead, grape	476	Green Ash	Fraxinus pennsylvanica	12	F	F/G	F/G		4		
NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G Union at base, broken branches (L), asymmetrical crown (M) RN480 Butterput Usclass cineral -30 P F/G P/F A Cankers (M), lower branches dead, grape								\vdash	Ů		
NT478 Sugar Maple Acer saccharum -35 G F/G G 8 Asymmetrical crown (M) NT479 Sugar Maple Acer saccharum -30, 20 F F/G G Union at base, broken branches (L), asymmetrical crown (M) RN480 Butterput Usclass cineral -30 P F/G P/F A Cankers (M), lower branches dead, grape	477	Sugar Maple	Acer saccharum	~30, 20	F/G	F/G	G		8	Union at base, asymmetrical crown (M)	<u></u>
NT479 Sugar Maple Acer saccharum -30, 20 F F/G G 6 Union at base, broken branches (L), asymmetrical crown (M) RN480 Butterput Lucians cineral -30 P F/G P/F 4 Cankers (M), lower branches dead, grape	NT478	Sugar Maple	Acer saccharum	~35	G	F/G	G		8		
N14/9 Sugar Maple		·								1,7	
RNAS Butterput Judans cinera -30 D E/G D/E Cankers (M), lower branches dead, grape	NT479	Sugar Maple	Acer saccharum	~30, 20	F	F/G	G		6		
		L		-	\vdash	 	\vdash	\vdash	\vdash		
										naukers uvii jower pranches dead, drabe	
	BN480	Butternut	Juglans cinerea	~30	Р	F/G	P/F	l i	4		

Innovative Planning Solutions 16 May 2017, revised 3 October 2018 Tree Inventory and Preservation Plan, 435 Big Bay Point Road, Barrie, Ontario

Α	Norway Maple	Acer platanoides	~30	G	G	F/G	6		
В	Colorado Blue Spruce	Picea pungens	~30	F/G	G	G	3	Union at 2m	
С	Balsam Fir	Abies balsamea	~18	G	G	G	3		Х
D	Balsam Fir	Abies balsamea	~20	F/G	F/G	G	4	Lean (VL), asymmetrical crown (M)	
E	Balsam Fir	Abies balsamea	20	G	G	G	3		Х
F	Scots Pine	Pinus sylvestris	15	F/G	G	F	2	Crook (L), sparse crown (M)	Х
G	Scots Pine	Pinus sylvestris	18	F/G	F/G	F/G	3	Crook (M), asymmetrical crown (M)	Х
Н	Scots Pine	Pinus sylvestris	20	F/G	F/G	F/G	3	Crook (L), asymmetrical crown (M)	Х
I	White Pine	Pinus strobus	~25	G	G	F/G	6	Chlorosis (L)	Х
J	Manitoba maple	Acer negundo	60	F	G	F/G	8	Union at 2m with included bark (L), pruning wounds (M), epicormic branches (H)	Х
K	Norway Maple	Acer platanoides	~14	G	G	G	3		
L	Apple Species	Malus spp.	~15	F	G	G	3	Lean (M)	
М	Scots Pine	Pinus sylvestris	~10	G	G	G	2		

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)						
CDB	Crow n dieback	%						
DL Dripline (m)								
\sim = Estimate, (VL) = very light, (L) = light, (M) = moderate, (H) =								
heavy								



