

Prepared for:

Michael Miao

287 King St. Niagara on the Lake, ON LOS 1J0

Arborist Report

Pre-Construction Assessment

Prepared For:

Michael Miao

Site Address:

287 King St. Niagara on the Lake Ontario LOS 1J0

July 8, 2021

Prepared By: **Nick Lawson**

ISA Certified Arborist (ON-2361A) Phone: (905) 870-9726 | | Email: nicholas.lawson@davey.com

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287 King St. Niagara on the Lake, ON LOS 1J0

Arborist Report

Summary

This letter is regarding potential severance of an existing lot located at 287 King St. in Niagara on the Lake. The intent of this report is to provide the homeowner with the documentation necessary so that the municipality of Niagara on the Lake, Ontario may issue the required forestry clearance and permitting.

Assignment

The client requested the Davey Resource Group (DRG) to assess and report on all trees throughout both properties. The intent of the report is to provide an inventory of trees throughout both lots in consideration of tree protection during future developments. Before gaining approval to sever the lot, the client was advised by the municipality that an Arborist Report and Tree Preservation Plan would need to be produced by an ISA Certified Arborist. At issue are any trees, tree branches or critical root zones that may be impacted by construction during future site development. A site visit was performed by ISA Certified Arborist Nicholas Lawson (ON-2361A) on July 2, 2021.

Limitations of Assignment

It must be understood that DRG is the assessor of the trees regarding a tree condition assessment as it relates to the most current industry standards. The inspection of this site pertained strictly to trees with a Diameter at Breast Height (DBH) >10cm located on the property or within 3m of the property boundary. Access to neighbouring properties was limited or not possible for certain trees however, the Arborist has made assumptions on DBH based on experience and erring on the side of added protection. The original Site Plan for this project, provided to the Arborist, does not disclose the exact locations of the trees included in this report. Therefore, assumptions of tree locations have been made using available measuring tools and best practices. The client should incorporate the information and recommendations provided in this report into their construction and installation procedures on an ongoing basis.



287 King St. Niagara on the Lake, ON LOS 1J0

Observations & Methods

- Site visit occurred on July 2, 2021 at 11:00 am by ISA Certified Arborist Nicholas Lawson (ON-2361 A).
- Weather was 25°C and sunny with intermittent showers.
- All photographs taken are copies of their originals. Some may have been cropped to fit page dimensions.
- Measurements were taken with a metric measuring tape and metric DBH tape.
- The subject trees of concern are located in the front and rear yard of the client's property and a neighbouring property on the North side.
 - o The home is considered East facing for the purposes of this report.
- There are 7 city owned trees, located on the boulevards surrounding the home, included in this report.
- All trees range in condition from GOOD to POOR using the designated methodology assigned by the International Society of Arboriculture.
- There are several small trees and shrubs scattered throughout the client's property however, none of which are applicable under the size restrictions set forth by tree protection bylaws pertaining to Niagara on the Lake.
- The recommendations pertaining to TPZ (Tree Protection Zone) or CRZ (Critical Root Zone) radial distances are recommendations by the Arborist based on industry standards. These recommendations are outlined in **Appendix 2** of this document. TPZ details for all trees pertaining to this site can be found in the Tree Protection Action Key (TPAK)
- Aluminum tree tag have been affixed to trees throughout the property.
 - o Tree tag numbers pertain the inventoried trees and have been displayed in the TPAK.
 - o Trees on neighboring properties were not tagged
- The existing lot has been divided into two sections for the purposes of the severance.
 - o Lot #1: Where the original home is located on the East side of the property
 - O Lot #2: Proposed severance into a secondary building lot on the West side of the property.
 - Proposed lot lines are displayed within the attached Tree Protection Plan
- At the time of inspection, there were no visible signs that any construction has commenced prior to the site visit.
 - o Lot marking stakes were placed delineating the proposed severance.

63 trees were assessed on site:

- Private Trees at 278 King St.: 52
- Private trees located on neighboring properties: 3
- Shared private trees between the client and neighbor: 1
- Town of Niagara on the Lake trees: 7

Trees located throughout and surrounding Lot #1: 53

• Trees #11-63 (Tag #145-194)

Trees located throughout and surrounding Lot #2: 10

• Trees #1-10 (Tag #134-144)



287 King St. Niagara on the Lake, ON LOS 1J0

Scope of Work

A lot severance has been proposed by the current homeowner of 287 King St. to create a second building lot on the existing property. The purpose of this report is to inventory the existing trees and make recommendations for future development in consideration of preservation of the urban canopy. It is likely that tree removal and injury will occur during site development. The homeowner should consider impact on all trees and make decisions in respect for existing tree preservation bylaws in the town of Niagara on the lake. Due to the nature of the proposed project, trees on both lots will be affected by the severance. The existing lot (Lot #1) will likely require tree removal to develop a new driveway access off Gage St. although the exact location of this has not been specified. Trees throughout Lot #2 may require removal or injury once severance is approved, a site plan developed, and construction allowed to proceed.

In the development stages of Lot #2 several considerations should be made in consideration of tree protection. Excavation for a new foundation or installation of utility lines, site access and location of overhead branches should all be taken into consideration when developing a building plan. A Certified Arborist should be consulted during development of the building plan to ensure that the impact to trees is minimized. Further, any necessary tree removal or pruning should be completed by a Certified Arborist prior to commencement of construction. This will ensure ease of operations during tree removal, promote work site safety and aid in the preservation of trees throughout the properties.

A "Tree Preservation Plan" (**Appendix 3**) attached to this document. This will provide an approximate location of existing trees as well as recommendations for tree preservation. Although, it should be noted that the TPP is only a guideline for site development and a more robust and complete preservation plan should be developed once the parameters of construction have been solidified.

Vetting of this report, in consideration of permit approval should be sought by professionals representing the forestry division of the Town of Niagara on the Lake.



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Tree Protection Action Key (TPAK)

MS – Where multi stemmed trees exist, the three largest stems have been measured and added together to obtain DBH H – Where hedge rows exist the largest stem had been measured and displayed representing the DBH of the tree

Tree Map Number	Tree Tag #	Species	Botanical	DBH (cm) @ 1.4 m	Tree Ownership	Minimum Tree Protection Distance (m)	Health	Structure	Overall Condition	Tree Height (m)	Crown Width (m)	Deadwood (%)	Action	Details
1	134	Flowering Cherry	Prunus serrulata	17	Р	1.8	G	G	G	5	5	0	Protect	
2	136	Black Walnut	Juglans nigra	75	Р	4.8	G	G	G	18	15	5	Protect	
3	137	Siberian Elm	Ulmus pumila	41	Р	3.0	G	G	G	15	10	20	Protect	
4	138	White Mulberry	Morus alba	18	Р	1.8	G	F	G	9	8	10	Protect	
5	139	Common Buckthorn	Rhamnus cathartica	13	Р	1.8	F	F	F	7	7	20	Protect	
6	140	Norway Spruce	Picea abies	73	Р	4.8	G	G	G	18	10	10	Protect	
7	141	Basswood	Tilia americana	10	Р	1.8	G	Р	Р	4	5	0	Protect	
8	142	Basswood	Tilia americana	10	Р	1.8	G	Р	Р	4	5	0	Protect	
9	143	Norway Maple	Acer platanoides	24	Р	1.8	G	G	G	9	9	20	Protect	
10	144	Norway Maple	Acer platanoides	33	С	2.4	F	F	F	8	9	30	Protect	
11	145	Norway Spruce	Picea abies	40	Р	2.4	G	G	G	16	9	20	Protect	
12	146	Norway Spruce	Picea abies	19	Р	1.8	G	F	G	10	5	20	Protect	
13	147	Norway Spruce	Picea abies	25	Р	1.8	G	G	G	12	6	20	Protect	
14	148	Norway Spruce	Picea abies	34	Р	2.4	G	G	G	16	9	10	Protect	
15	149	Norway Spruce	Picea abies	35	Р	2.4	G	G	G	14	7	10	Protect	
16	150	Norway Spruce	Picea abies	28	Р	1.8	G	G	G	14	7	10	Protect	

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Davey Resource Group Nicholas Lawson

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287 King St. Niagara on the Lake, ON LOS 1J0

17	151	Norway Spruce	Picea abies	35	Р	2.4	G	G	G	14	8	10	Protect	
18	152	Norway Maple	Acer platanoides	21	Р	1.8	G	G	G	10	9	20	Protect	
19	153	Pussy Willow	Salix discolor	29	Р	1.8	G	F	F	7	7	20	Protect	MS
20	154	Pussy Willow	Salix discolor	24	Р	1.8	G	G	G	8	7	20	Protect	
21	155	Norway Maple	Acer platanoides	14	Р	1.8	G	G	G	9	6	5	Protect	
22	156	Basswood	Tilia americana	29	Р	1.8	G	G	G	8	8	5	Protect	MS
23	157	Eastern Hemlock	Tsuga canadensis	10	Р	1.8	G	G	G	6	3	5	Protect	
24	158	Colorado Blue Spruce	Picea pungens	10	Р	1.8	G	G	G	6	4	0	Protect	
25	159	Eastern Hemlock	Tsuga canadensis	12	Р	1.8	G	G	G	7	3	0	Protect	
26	160	Eastern Hemlock	Tsuga canadensis	16	Р	1.8	G	G	G	7	4	0	Protect	MS
27	161	White Elm	Ulmus americana	55	Р	3.6	G	G	G	12	12	10	Protect	
28	162	Pussy Willow	Salix discolor	24	Р	1.8	G	G	G	7	8	0	Protect	MS
29	163	Ivory Silk Lilac	Syringa vulgaris	21	Р	1.8	G	F	F	4	2	30	Protect	MS
30	164	Pussy Willow	Salix discolor	38	Р	2.4	Р	Р	Р	9	5	70	Protect	MS
31	165	Norway Spruce	Picea abies	66	Р	4.2	G	G	G	18	10	10	Protect	
32	166	Norway Spruce	Picea abies	60	Р	3.6	G	Р	F	10	11	10	Protect	
33	167	Ivory Silk Lilac	Syringa vulgaris	20	Р	1.8	G	F	G	6	6	20	Protect	MS
34	168	Norway Spruce	Picea abies	10	Р	1.8	F	F	F	4	3	30	Protect	
35	169	Norway Maple	Acer platanoides	25	Р	1.8	G	G	G	14	10	5	Protect	
36	170	Norway Maple	Acer platanoides	31	Р	2.4	G	G	G	14	12	5	Protect	
37	171	Norway Maple	Acer platanoides	21	Р	1.8	G	F	F	10	8	10	Protect	
38	172	Norway Maple	Acer platanoides	18	S	1.8	G	F	F	10	8	10	Protect	
39		Norway Spruce	Picea abies	40	N	2.4	G	G	G	12	9	40	Protect	
40		Norway Spruce	Picea abies	40	N	2.4	G	G	G	12	9	40	Protect	
41	173	Norway Maple	Acer platanoides	24	Р	1.8	G	G	G	9	8	5	Protect	
42	174	Black Walnut	Juglans nigra	35	Р	2.4	G	G	G	17	10	5	Protect	
43	175	Norway Maple	Acer platanoides	15	Р	1.8	F	F	F	9	7	10	Protect	
44	176	Norway Maple	Acer platanoides	12	Р	1.8	F	F	F	7	6	5	Protect	
45		Norway Spruce	Picea abies	40	Р	2.4	G	G	G	15	8	10	Protect	
46	177	Black Walnut	Juglans nigra	31	Р	2.4	F	F	F	9	10	20	Protect	MS

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47	178	Norway Maple	Acer platanoides	26	Р	1.8	G	G	G	10	10	10	Protect	
48	179	Eastern White Cedar	Thuja occidentalis	43	Р	3.0	G	G	G	9	7	20	Protect	MS
49	180	Norway Maple	Acer platanoides	18	Р	1.8	G	G	G	12	8	10	Protect	
50	181	Norway Maple	Acer platanoides	25	Р	1.8	G	G	G	12	8	10	Protect	
51	182	Eastern White Cedar	Thuja occidentalis	43	Р	3.0	G	G	G	8	8	20	Protect	MS
52	183	Eastern Hemlock	Tsuga canadensis	10	Р	1.8	F	F	F	7	2	40	Protect	
53	184	Littleleaf Linden	Tilia cordata	26	Р	1.8	G	G	G	12	10	5	Protect	
54	185	Japanese Maple	Acer palmatum	10	Р	1.8	G	G	G	5	4	0	Protect	
55	186	Magnolia species	Magnolia species	10	Р	1.8	G	G	G	5	4	0	Protect	
56	187	Magnolia species	Magnolia species	12	Р	1.8	G	G	G	4	4	0	Protect	MS
57	188	Ornamental Fir	Abies sp.	11	Р	1.8	G	G	G	6	2.5	0	Protect	
58	189	Eastern White Cedar	Thuja occidentalis	10	С	1.8	G	G	G	5	3	20	Protect	Н
59	190	Norway Maple	Acer platanoides	38	С	2.4	G	F	G	9	9	10	Protect	
60	191	Eastern White Cedar	Thuja occidentalis	10	С	1.8	G	G	G	4	2	10	Protect	
61	192	Eastern White Cedar	Thuja occidentalis	15	С	1.8	G	G	G	4	3	10	Protect	MS
62	193	Norway Maple	Acer platanoides	58	С	3.6	G	G	G	13	14	5	Protect	
63	194	Red Oak	Quercus rubra	32	С	2.4	G	G	G	12	9	0	Protect	



287 King St. Niagara on the Lake, ON LOS 1J0

Conclusion

After a site inspection it has been determined that several trees throughout the property should be considered when developing a plan to sever the existing lot for construction purposes. A Certified Arborist should be consulted throughout the site development process to ensure that tree preservation is taken into account when developing the new construction plan. The Arborist will ensure that considerations are made toward the protection of root systems and scaffolding branches while also giving recommendations on how to minimize tree injury by utilizing specialized building materials or mitigating injury to trees if working in the TPZ. A replanting plan should also be part of the proposed site development.

Guidelines for forest preservation on the Town of Niagara on the Lake that define the TPZ radial distances for all protected trees are outlined in **Appendix 2** of this document. Accompanying this document is a Tree Protection Plan which will provide an approximate location of the existing trees.



287 King St. Niagara on the Lake, ON LOS 1J0

Recommendations

- We recommend that this report be submitted to the municipality as required to do so in consideration of lot severance.
- We recommend that the client follow and abide by all tree preservation regulations regarding site development in the town of Niagara on the Lake.
 - All necessary forestry permitting should be sought after and obtained from the town of Niagara on the Lake prior to commencement of construction of the newly severed lots.
- We recommend that an Arborist Report and Tree Protection Plan be developed by a Certified Arborist prior to commencement of construction.
- We recommend that the construction and building plan be developed in consideration of protecting the urban canopy wherever possible.
 - A Certified Arborist should assist to develop the site plan and make considerations toward trees preservation.
 - All recommendations contained within the Arborist Report associated with new construction should be followed to ensure impact to trees from construction is minimized.
 - All necessary tree pruning, and removal should be completed by a Certified Arborist prior to commencement of construction on the site.
- We recommend that replanting guidelines be followed as mandated by the town of Niagara on the Lake.
 - Any replanting requirements that cannot be accommodated onsite should be rectified as Cash-in-Lieu payments made to the town of Niagara on the Lake.



287 King St. Niagara on the Lake, ON LOS 1J0

Arborist Qualifications

Nicholas Lawson is an ISA Certified Arborist (ISA ON-2361A) for the Davey Resource Group (DRG). His formal education includes a being a graduate of the Arboricultural program at Humber College in Toronto ON. Mr. Lawson has over seven years of varied work experience in the forestry, arboriculture, landscape construction, and ecological assessment fields. Mr. Lawson has worked for the Davey Tree Expert Company of Canada throughout his career.



287 King St. Niagara on the Lake, ON LOS 1J0

Appendix 1 – Photographs



Figure 1 – Approximate property boundary at 287 King St. in Niagara on the Lake. This area is considered applicable to this document.





Figure 2, Trees #1-2





Figure 3, Tree #3-5:





Figure 4, Trees #7-9





Figure 5, Tree #10:

Fig. 1-5 have displayed all trees located within Lot #2





Figure 6, Trees #11-18 # & #58-59





Figure 7, Trees 19-22 & #60-62





Figure 8, Trees #23-27





Figure 9, Trees #28-29 & #63:





Figure 10, Trees #30-40





Figure 11, Trees #41-46



287 King St. Niagara on the Lake, ON LOS 1J0



Figure 12, Trees #47-53

Photographs of Trees 54-57 are not displayed here



287 King St. Niagara on the Lake, ON LOS 1J0

Appendix 2 – Diagrams

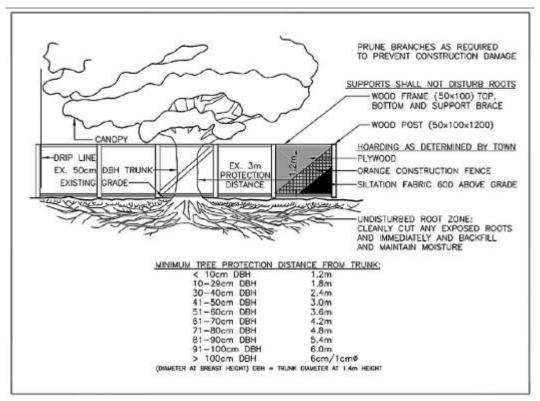


Figure 1 – Ref. Fencing Diagram and Tree Protection Barrier set back distances.

List of Preferred Trees for Replanting

Alternate-Leaf Dogwood	Largetooth Aspen				
American Beech	Northern Hackberry				
American Chestnut	Pawpaw				
American Elm	Peachleaf Willow				
Balsam Poplar	Pin Cherry				
Basswood	Pin Oak				
Bitternut Hickory	Red Maple				
Black Cherry	Red Mulberry				
Black Oak	Red Oak				
Black Walnut	Sassafras				
Black Willow	Serviceberries				
Blue-Beech	Shagbark Hickory				
Bur Oak	Silver Maple				
Butternut	Sugar Maple				
Cherry Birch	Swamp White Oak				
Chokecherry	Sycamore				
Eastern Hemlock	Tamarack				
Eastern Redcedar	Trembling Aspen				
Eastern White Cedar	Tulip Tree				
Eastern White Pine	White Birch				
Hawthorn	White Oak				
Ironwood	Yellow Birch				

Figure 2 – Replacement trees as recommended by By-law 5139-19 for Niagara on the Lake.

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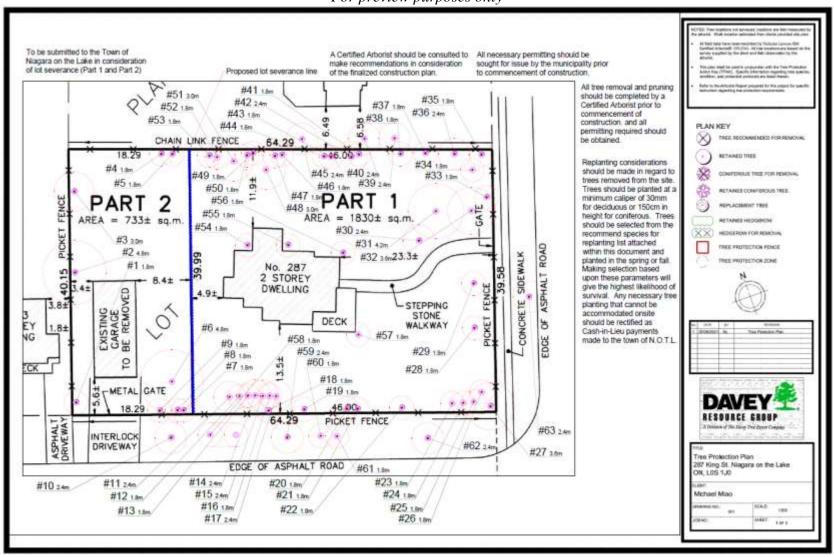
Prepared for:

Michael Miao

287 King St. Niagara on the Lake, ON LOS 1J0

Appendix 3 – Tree Protection Plan

For preview purposes only



Prepared by: Davey Resource Group Nicholas Lawson



287 King St. Niagara on the Lake, ON LOS 1J0

Conditions of Assessment Agreement

This Conditions of Assessment Agreement is made pursuant to and as a provision of Davey Resource Group, a division of The Davey Tree Expert Co. of Canada, Limited ("Davey"), providing tree assessment services as agreed to between the parties, the terms and substance of which are incorporated in and made a part of this Agreement (collectively the "Services").

Trees are living organisms that are subject to stress and conditions and which inherently impose some degree or level of risk. Unless a tree is removed, the risk cannot be eliminated entirely. Tree conditions may also change over time even if there is no external evidence or manifestation. In that Davey provides the Services at a point in time utilizing applicable standard industry practices, any conclusions and recommendations provided are relevant only to the facts and conditions at the time the Services are performed. Given that Davey cannot predict or otherwise determine subsequent developments, Davey will not be liable for any such developments, acts, or conditions that occur including, but not limited to, decay, deterioration, or damage from any cause, insect infestation, acts of god or nature or otherwise.

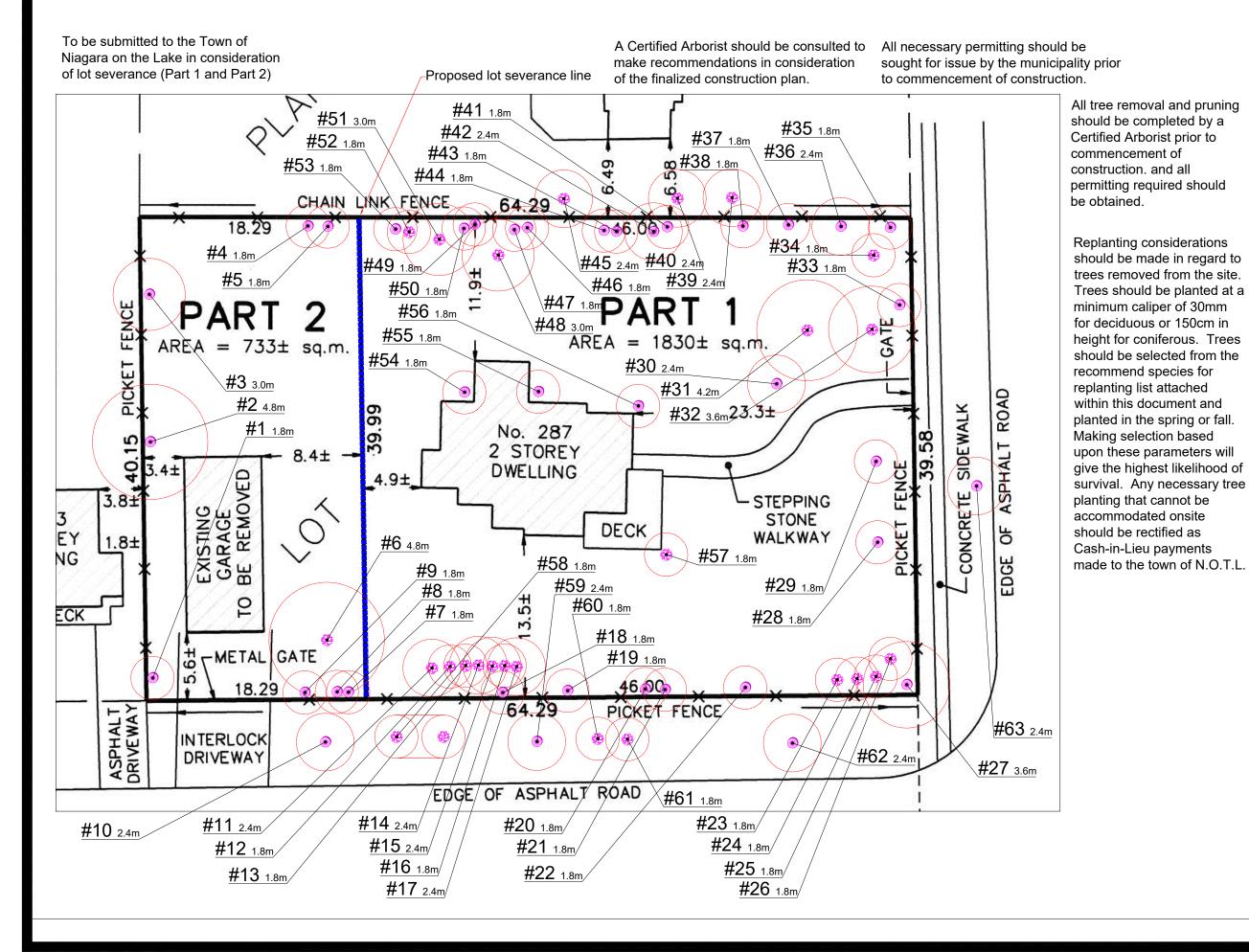
Unless otherwise stated in writing, assessments are performed visually from the ground on the above-ground portions of the tree(s). However, the outward appearance of trees may conceal defects. Therefore, to the extent permitted by law, Davey does not make and expressly disclaims any warranties or representations of any kind, express or implied, with respect to completeness or accuracy of the information contained in the reports or findings resulting from the Services beyond that expressly contracted for by Davey in writing, including, but not limited to, performing diagnosis or identifying hazards or conditions not within the scope of the Services or not readily discoverable using the methods applied pursuant to applicable standard industry practices. Further, Davey's liability for any claim, damage or loss caused by or related to the Services shall be limited to the work expressly contracted for.

In performing the Services, Davey may have reviewed publicly available or other third- party records or conducted interviews, and has assumed the genuineness of such documents and statements. Davey disclaims any liability for errors, omissions, or inaccuracies resulting from or contained in any information obtained from any third- party or publicly available source.

Except as agreed to between the parties prior to the Services being performed, the reports and recommendations resulting from the Services may not be used by any other party or for any other purpose. The undersigned also agrees, to the extent permitted by law, to protect, indemnify, defend and hold Davey harmless from and against any and all claims, demands, actions, rights and causes of action of every kind and nature, including actions for contribution or indemnity, that may hereafter at any time be asserted against Davey or another party, including, but not limited to, bodily injury or death or property damage arising in any manner from or in any way related to any disclaimers or limitations in this Agreement.

By accepting or using the Services, the customer will be deemed to have agreed to the terms of this Agreement, even if it is not signed.

Acknowledged by:	
Name of Customer:	
Authorized Signature:	
-	
Date:	



NOTES: Tree locations not surveyed, locations are field measured by the arborist. Work location estimated from clients provided site plan.

- All field data have been recorded by Nicholas Lawson ISA Certified Arborist® ON-2361. All tree locations are based on the survey supplied by the client and field observation by the arborist
- This plan shall be used in conjunction with the Tree Protection Action Key (TPAK). Specific information regarding tree species, condition, and protection protocols are listed therein.
- Refer to the Arborist Report prepared for this project for specific instruction regarding tree protection requirements.

PLAN KEY



TREE RECOMMENDED FOR REMOVAL



RETAINED TREE



CONIFEROUS TREE FOR REMOVAL



RETAINED CONIFEROUS TREE



REPLACEMENT TREE
RETAINED HEDGEROW



HEDGEROW FOR REMOVAL



TREE PROTECTION FENCE

TREE PROTECTION ZONE



No.	DATE	BY	REVISIONS
1	07/08/2021	NL	Tree Protection Plan
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_			
<u> </u>			
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TITLE

Tree Protection Plan 287 King St. Niagara on the Lake ON, L0S 1J0

CLIEN

Michael Miao

DRAWING NO.: 001	SCALE: 1:300
JOB NO.:	SHEET: 1 OF 3

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Tree Map	Tree Tag#	Species	Botanical	DBH (cm) @ 1.4 m	Tree Ownership	Minimum Tree Protection Distance (m)	Health	Structure	Overall Condition	Tree Height (m)	Crown Width (m)	Deadwood (%)	Action	Notes and Observations
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	136 137	Black Walnut Siberian Elm	Juglans nigra Ulmus pumila	75 41	P P	4.8 3.0	G G	G G	G G	18 15	15 10	5 20	Protect Protect	
	138	White Mulberry	Morus alba	18	P	1.8	G	F	G	9	8	10	Protect	
	139	Common Buckthorn	Rhamnus cathartica	13	Р	1.8	F	F	F	7	7	20	Protect	
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	143	Norway Maple	Acer platanoides	24	P	1.8	G	G	G	9	9	20	Protect	
	144 145	Norway Maple Norway Spruce	Acer platanoides Picea abies	33 40	C P	2.4	F G	F G	F G	8 16	9	30 20	Protect Protect	
	146	Norway Spruce	Picea abies	19	P	1.8	G	F	G	10	5	20	Protect	
	147	Norway Spruce	Picea abies	25	Р	1.8	G	G	G	12	6	20	Protect	
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	152 153	Norway Maple Pussy Willow	Salix discolor	21 29	P	1.8 1.8	G G	G F	G F	10 7	9 7	20	Protect Protect	MS
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	159	Eastern Hemlock	Tsuga canadensis	12	P P	1.8	G	G	G	7	3	0	Protect	100
	160 161	Eastern Hemlock White Elm	Tsuga canadensis Ulmus americana	16 55	P	1.8 3.6	G G	G G	G G	7 12	4 12	0 10	Protect Protect	MS
	162	Pussy Willow	Salix discolor	24	P	1.8	G	G	G	7	8	0	Protect	MS
	163	Ivory Silk Lilac	Syringa vulgaris	21	P	1.8	G	F	F	4	2	30	Protect	MS
30	164	Pussy Willow	Salix discolor	38	Р	2.4	Р	Р	Р	9	5	70	Protect	MS
31	165	Norway Spruce	Picea abies	66	Р	4.2	G	G	G	18	10	10	Protect	
	166	Norway Spruce	Picea abies	60	Р	3.6	G	Р	F	10	11	10	Protect	
	167	Ivory Silk Lilac	Syringa vulgaris	20	P	1.8	G F	F F	G	6	6	20	Protect	MS
	168 169	Norway Spruce Norway Maple	Picea abies Acer platanoides	10 25	P P	1.8 1.8	G	G	F G	4 14	3 10	30 5	Protect Protect	
	170	Norway Maple	Acer platanoides	31	P	2.4	G	G	G	14	12	5	Protect	
_	171	Norway Maple	Acer platanoides	21	P	1.8	G	F	F	10	8	10	Protect	
38	172	Norway Maple	Acer platanoides	18	S	1.8	G	F	F	10	8	10	Protect	
39		Norway Spruce	Picea abies	40	N	2.4	G	G	G	12	9	40	Protect	
40		Norway Spruce	Picea abies	40	N	2.4	G	G	G	12	9	40	Protect	
	173	Norway Maple	Acer platanoides	24	Р	1.8	G	G	G	9	8	5	Protect	
	174 175	Black Walnut Norway Maple	Juglans nigra Acer platanoides	35 15	P P	2.4 1.8	G F	G F	G F	17 9	10 7	5 10	Protect Protect	
	176	Norway Maple	Acer platanoides	12	P	1.8	F	F	F	7	6	5	Protect	
45		Norway Spruce	Picea abies	40	P	2.4	G	G	G	15	8	10	Protect	
46	177	Black Walnut	Juglans nigra	31	Р	2.4	F	F	F	9	10	20	Protect	MS
47	178	Norway Maple	Acer platanoides	26	Р	1.8	G	G	Ð	10	10	10	Protect	
	179	Eastern White Cedar	Thuja occidentalis	43	P	3.0	G	G	G	9	7	20	Protect	MS
	180	Norway Maple	Acer platanoides	18	Р	1.8	G	G	G	12	8	10	Protect	
_	181 182	Norway Maple Eastern White Cedar	Acer platanoides Thuja occidentalis	25 43	P P	1.8 3.0	G G	G G	G G	12 8	8	10 20	Protect Protect	MS
_	183	Eastern Hemlock	Tsuga canadensis	10	Р	1.8	F	F	F	7	2	40	Protect	IVIO
	184	Littleleaf Linden	Tilia cordata	26	P	1.8	G	G	G	12	10	5	Protect	
_	185	Japanese Maple	Acer palmatum	10	Р	1.8	G	G	G	5	4	0	Protect	
55	186	Magnolia species	Magnolia species	10	Р	1.8	G	G	G	5	4	0	Protect	
	187	Magnolia species	Magnolia species	12	Р	1.8	G	G	G	4	4	0	Protect	MS
_	188	Ornimental Fir	Abies sp.	11	P	1.8	G	G	G	6	2.5	0	Protect	11
	189	Eastern White Cedar	Thuja occidentalis	10 38	С	1.8	G	G F	G	5 9	3 9	20	Protect	Н
	190 191	Norway Maple Eastern White Cedar	Acer platanoides Thuja occidentalis	38 10	С	2.4 1.8	G G	G	G G	4	2	10 10	Protect Protect	
	192	Eastern White Cedar	Thuja occidentalis	15	С	1.8	G	G	G	4	3	10	Protect	MS
	193	Norway Maple	Acer platanoides	58	С	3.6	G	G	G	13	14	5	Protect	
63	194	Red Oak	Quercus rubra	32	С	2.4	G	G	G	12	9	0	Protect	

NOTES: Tree locations not surveyed, locations are field measured by the arborist. Work location estimated from clients provided site plan.

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- This plan shall be used in conjunction with the Tree Protection Action Key (TPAK). Specific information regarding tree species, condition, and protection protocols are listed therein.
- Refer to the Arborist Report prepared for this project for specific instruction regarding tree protection requirements.

PLAN KEY



TREE RECOMMENDED FOR REMOVAL



RETAINED TREE



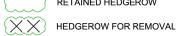
CONIFEROUS TREE FOR REMOVAL



RETAINED CONIFEROUS TREE



REPLACEMENT TREE



RETAINED HEDGEROW



TREE PROTECTION FENCE

TREE PROTECTION ZONE



No.	DATE	BY	REVISIONS
1	07/08/2021	NL	Tree Protection Plan
		-	
_		-	
	_		

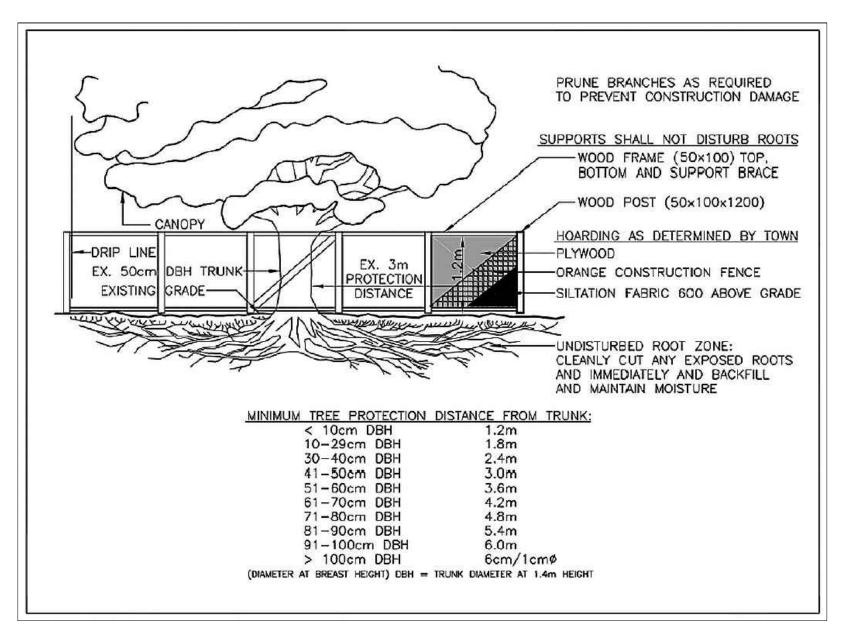


Tree Protection Plan 287 King St. Niagara on the Lake ON, LOS 1J0

CLIENT:

Michael Miao

	DRAWING NO.:	001	SCALE:	1:300	
	JOB NO.:		SHEET:	2 OF 3	



SCHEDULE "B" Fees

1. Application Fee for \$50 per tree for the first tree Owners who are individuals and \$25 per tree for subsequent trees under the same permit. 2. Application Fee for \$250 per tree. Owners who are corporations 3. Use of Inspector for No fee. Owners who are individuals 4. Use of Inspector for \$250 per visit. Owners who are corporations 5. Cash in lieu for replacement \$250 per tree. planting by Owners who are Individuals 6. Cash in lieu for replacement \$500 per tree. Planting by Owners who are

SCHEDULE "C"

Corporations

Replacement and Replanting
Tree Replacement as the Condition
of a Tree Removal Permit

Diameter at Breast Height	Number of
(DBH) in centimetres	Replacement Trees
12.5-24	2
25-34	3
35-44	4
45-54	5
55-64	6
65-74	7
75-84	8
85-94	9
95-104	10
105-114	11
>115	12

List of Preferred Trees for Replanting

Alternate-Leaf Dogwood	Largetooth Aspen				
American Beech	Northern Hackberry				
American Chestnut	Pawpaw				
American Elm	Peachleaf Willow				
Balsam Poplar	Pin Cherry				
Basswood	Pin Oak				
Bitternut Hickory	Red Maple				
Black Cherry	Red Mulberry				
Black Oak	Red Oak				
Black Walnut	Sassafras				
Black Willow	Serviceberries				
Blue-Beech	Shagbark Hickory				
Bur Oak	Silver Maple				
Butternut	Sugar Maple				
Cherry Birch	Swamp White Oak				
Chokecherry	Sycamore				
Eastern Hemlock	Tamarack				
Eastern Redcedar	Trembling Aspen				
Eastern White Cedar	Tulip Tree				
Eastern White Pine	White Birch				
Hawthorn	White Oak				
Ironwood	Yellow Birch				

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PLAN KEY



TREE RECOMMENDED FOR REMOVAL



RETAINED TREE



CONIFEROUS TREE FOR REMOVAL



RETAINED CONIFEROUS TREE



REPLACEMENT TREE
RETAINED HEDGEROW



HEDGEROW FOR REMOVAL



TREE PROTECTION FENCE

TREE PROTECTION ZONE



No.	DATE	BY	REVISIONS
1	07/08/2021	NL	Tree Protection Plan
	-		



TITLE:

Tree Protection Plan 287 King St. Niagara on the Lake ON, L0S 1J0

CLIENT:

Michael Miao

DRAWING NO.: 001	SCALE: 1:300
JOB NO.:	SHEET: 3 OF 3