

**LEGEND**

- Surveyed Tree Location
- GPS Tree Location
- Tree Number Identified for Preservation (GREEN)
- Tree Number Identified for Removal (Red)
- TPZ Tree Protection Zone Symbol
- Dripine
- Property Boundary
- Tree Protection Fence Location

**Tree Protection Recommendations**

The following recommendations are made in attempts to reduce the impacts to trees identified for preservation:

- Tree protection fence must be installed at the pipeline prior to the commencement of demolition, unless noted otherwise on this drawing.
- Once tree protection fence has been installed it must not be moved, relocated or altered in any way (unless repairing fallen fence etc.) for the duration of the construction process.
- No intrusion into an area identified on Sheet 1 as a tree preservation zone (TPZ) is allowed at anytime during construction unless noted otherwise in this report and on Sheet 1.
- No grading or storage of machinery, construction debris, materials, waste or any other items is allowed within a TPZ.
- Any roots or branches and roots that conflict with the proposed development must be removed by a Certified Arborist in accordance with good arboricultural practice.
- Tree protection fencing should be inspected by a Certified Arborist prior to and during construction to ensure that the fencing remains intact and in good repair throughout the stages of development.

**TREE PROTECTION PLAN NOTES**

Prior to site disturbance the owner must confirm that no migratory birds are making use of the site for nesting. The owner must ensure that the works are in conformance with the Migratory Bird Convention Act and that no migratory bird nests will be impacted by the proposed work. It is the applicants' responsibility to discuss potential tree injury of trees on shared property lines with their neighbours. Should such trees be injured to the point of instability or death the applicant may be held responsible for removal and such issues would be dealt with in court or through arbitration.

**TREE PROTECTION ZONE:** No construction activity including grade changes, surface treatments or excavations of any kind is permitted within the area identified on the Tree Protection Plan or Site Plan as a Tree Protection Zone (TPZ). No root cutting is permitted. No storage of materials or fill is permitted within the TPZ. No movement or storage of vehicles or equipment is permitted within the TPZ. Grade changes are not permitted within established TPZ. The area(s) identified as a TPZ must remain undisturbed at all times.

**TREE PROTECTION BARRIERS:** Tree protection barriers must be installed around trees to be protected using pipe fence supported on metal T-bars. All supports and bracing to safely secure the barrier should be outside the TPZ. All such supports and bracing should minimize damage to roots outside the TPZ.

**General Note:** Prior to the commencement of any site activity the tree protection barriers specified on this plan must be installed. Existing tree protection zones must not be used as construction access, storage or debris areas. The tree protection barriers must remain in effective condition until all site activities including landscaping are complete. Permission from the City/Town must be provided prior to the removal of tree protection fence.

**ARBORICULTURAL WORK:** Any roots or branches which extend beyond the TPZ indicated on this plan which require pruning, must be pruned by a Certified Arborist. All pruning of tree roots and branches must be in accordance with good arboricultural standards. Roots located outside the TPZ that have received approval from the City/Town to be pruned must first be exposed by hand digging or by using an air spade. This will allow a proper pruning cut and minimize tearing of the roots.

**NOTES:**

1. THIS DETAIL DOES NOT REPRESENT ANY PARTICULAR TREE SPECIES
2. NO CONSTRUCTION ACTIVITY. GRADE CHANGE, SURFACE TREATMENT, COMPACTION, EXCAVATION OR STOCKPILING OF ANY KIND IS PERMITTED WITHIN THE PROTECTED AREA.

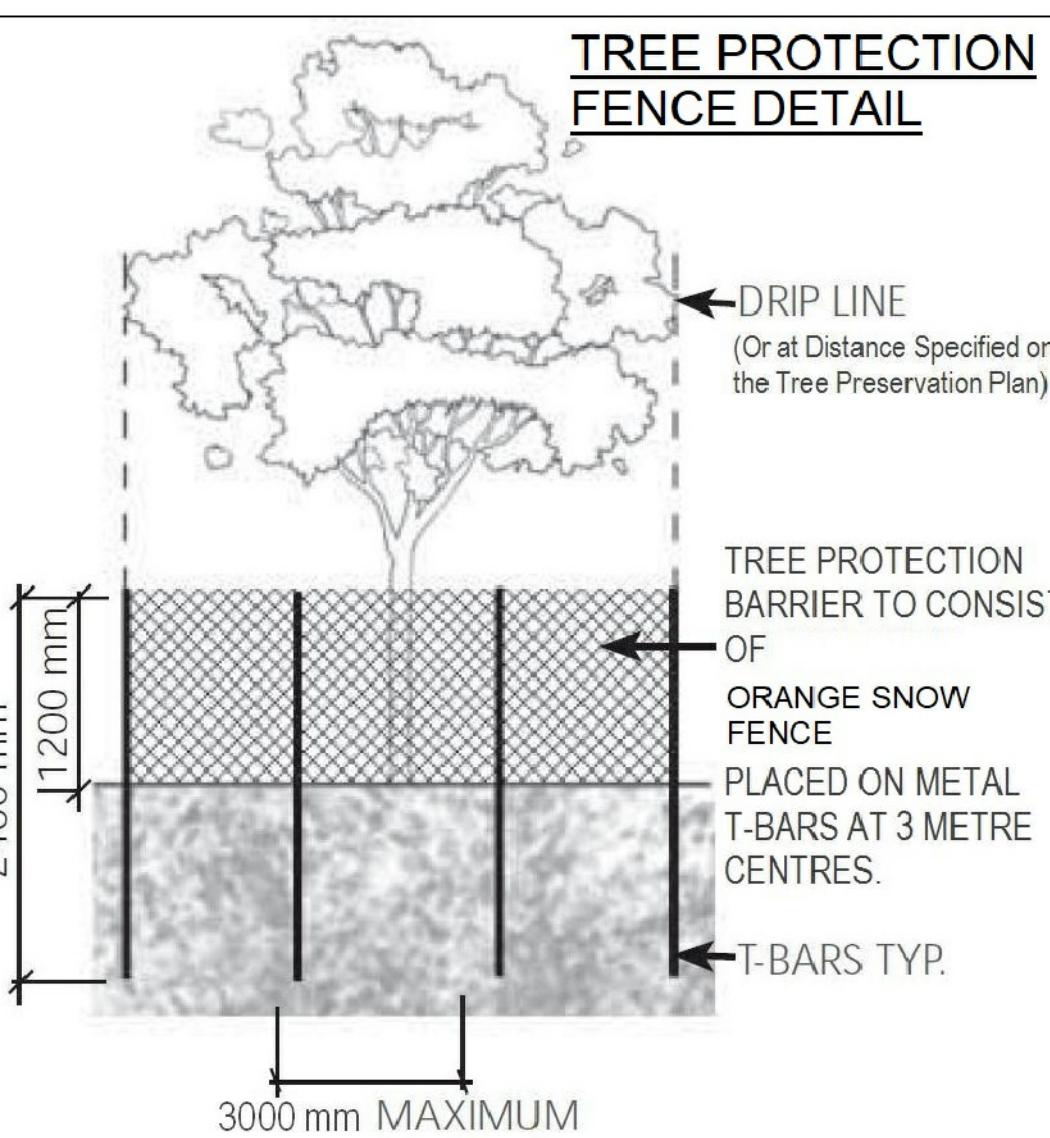


Table 1. Tree Inventory

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	Location	Comments	Recom.
1	European Larch	<i>Larix decidua</i>	22	G	F	3	Subject Property	Crown bowed south - understorey	Remove	
2	Eastern White Cedar	<i>Thuya occidentalis</i>	36, 20	FG	FG	2	Subject Property	Union at ground, understorey	Remove	
3	Norway Maple	<i>Acer platanoides</i>	78	G	G	8	Subject Property		Remove	
4	Apple species	<i>Malus spp.</i>	21	G	G	4	Subject Property		Remove	
5	Manitoba Maple	<i>Acer negundo</i>	>10, 12	F	FG	2	Neighbouring	Union at ground	Preserve	
6	Black Locust	<i>Robinia pseudoacacia</i>	12, 8	F	FG	4	Subject Property	Union at 0.6 m	Remove	
Unit 7	Eastern White Cedar	<i>Thuya occidentalis</i>	10-15	F	FG	4	Neighbouring	12 cedar trees	Preserve	
8	Blue Spruce	<i>Picea pungens</i>	33	G	G	3	Subject Property		Remove	
9	Norway Maple	<i>Acer platanoides</i>	>28	G	G	3	Neighbouring		Preserve	
10	Manitoba Maple	<i>Acer negundo</i>	>12, 15	F	FG	5	Neighbouring	Union at ground	Preserve	
11	White Mulberry	<i>Morus alba</i>	>7-15	F	FG	6	Neighbouring	Clump of 8 stems	Preserve	
Unit 12	Eastern White Cedar	<i>Thuya occidentalis</i>	8-12	F	FG	2	Neighbouring	7 cedar trees	Preserve	
13	Manitoba Maple	<i>Acer negundo</i>	>25, 30	F	FG	4	Neighbouring	Union at ground, lean north	Preserve	
14	European Larch	<i>Larix decidua</i>	20	G	G	3	Subject Property		Remove	
15	Eastern White Cedar	<i>Thuya occidentalis</i>	16, 13, 7, 5	F	FG	2	Subject Property	Union at 1.4 m	Remove	
16	Eastern White Cedar	<i>Thuya occidentalis</i>	43	F	FG	4	Subject Property	Union at 1.5 m; diameter measured at 0.8 m due to union	Remove	
17	White Pine	<i>Pinus strobus</i>	36	G	G	4	Subject Property		Remove	
18	Maple Ash species	<i>Quercus spp.</i>	11	G	G	2	Subject Property		Preserve	
19	Eastern White Cedar	<i>Thuya occidentalis</i>	14, 7, 7	FG	FG	1, 5	Subject Property	Union at ground	Preserve	
20	White Mulberry	<i>Morus alba</i>	12, 14	F	FG	4	Subject Property		Remove	
21	White Mulberry	<i>Morus alba</i>	11	G	G	3	Subject Property	Union at ground	Remove	
22	Siberian Elm	<i>Ulmus pumila</i>	>30, 23	FG	FG	5	Boundary		Remove	
23	Siberian Elm	<i>Ulmus pumila</i>	>12	G	G	2	Boundary		Remove	
24	Siberian Elm	<i>Ulmus pumila</i>	>14	G	G	3	Boundary		Remove	
25	White Mulberry	<i>Morus alba</i>	10	G	G	3	Subject Property	Crown bowed south - understorey	Remove	
26	Siberian Elm	<i>Ulmus pumila</i>	15	G	G	3	Subject Property		Remove	
27	White Pine	<i>Pinus strobus</i>	>40	G	G	4	Neighbouring		Preserve	
28	White Pine	<i>Pinus strobus</i>	>35	G	G	4	Neighbouring		Preserve	
29	White Pine	<i>Pinus strobus</i>	>26	G	G	3	Neighbouring		Preserve	
30	Black Cherry	<i>Prunus serotina</i>	15	F	G	4	Boundary	Crown/bowed west	Remove	
31	Siberian Elm	<i>Ulmus pumila</i>	>45, 45	F	FG	7	Neighbouring	Union at 0.5 m	Remove	
32	Siberian Elm	<i>Ulmus pumila</i>	>55	F	FG	4	Neighbouring	Union at 1.4 m wth included bark, diameter estimated at 1 m, 30% crown dieback	Remove	
33	Siberian Elm	<i>Ulmus pumila</i>	>50	F	FG	4	Neighbouring	Union at 1 m wth included bark, 30% crown dieback, diameter measured at 0.5 m due to pruning wound	Remove	
34	Siberian Elm	<i>Ulmus pumila</i>	70	F	FG	4	Boundary	Pruning wound, 30% crown dieback, diameter measured at 0.5 m due to pruning wound	Remove	
35	Siberian Elm	<i>Ulmus pumila</i>	>30	F	FG	4	Neighbouring	Light lean south, 20% crown dieback	Remove	
36	Siberian Elm	<i>Ulmus pumila</i>	>20	F	FG	3	Neighbouring	Bowed southwest	Remove	
37	Silver Maple	<i>Acer saccharinum</i>	>60	G	G	6	Neighbouring		Preserve	
38	Apple species	<i>Malus spp.</i>	>30	G	G	5	Neighbouring	Union at 1.6 m	Remove	
39	Siberian Elm	<i>Ulmus pumila</i>	>35	G	G	5	Neighbouring		Remove	
40	Siberian Elm	<i>Ulmus pumila</i>	>40	G	FG	6	Neighbouring	20% crown dieback	Preserve	
41	Siberian Elm	<i>Ulmus pumila</i>	>50	F	FG	6	Neighbouring	Union at 1.8 m, bowed west	Preserve	
42	Siberian Elm	<i>Ulmus pumila</i>	>35	G	G	4	Neighbouring		Preserve	
43	Norway Maple	<i>Acer platanoides</i>	>65	G	G	9	Neighbouring	Union at 2 m	Preserve	

Table Legend										
DBH	Diameter at Breast Height (cm)	TI	Trunk Integrity (G, F, P)	CS	Crown Shading (G, F, P)	CV	Crown Vigor (G, F, P)	DL	Dripine (m)	Comments
Recom.	Recommendation (preserve/remove)	G	Good	F	Fair	P	Poor	-	Estimate	

**6529 St. John Street**  
Niagara Falls, ON

**Niagara Pines Developments Inc.**  
6102 Perkins St. Unit 6B  
Niagara Falls, ON L2E 5R8

**Tree Preservation Plan**

JACKSON ARBORICULTURE INC.		
118 Pleasant Ridge Road	Brantford, ON N3S 1B3	905-512-8003
Project #	P435	Sheet #
Date	24 October 2023	1
Scale	1:250 (@ 24x35)	